ANSP-M-5

SEPTEMBER 1972

Aerospace Nuclear Safety Program

**CURVE FITS OF JANAF
THERMOCHEMICAL DATA**

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FOREWORD

The work reported herein was conducted by the Applied Physics Laboratory Aeronautics Division for the Atomic Energy Commission, Safety Branch, Space Nuclear Systems Office. Activities of the Aeronautics Division are under the general supervision of Dr. William H. Avery. The Project Engineer for the Aerospace Nuclear Safety Program is James C. Hagan.

ABSTRACT

The constants required for equations for molar enthalpy and molar entropy as functions of temperature are presented for each of the approximately 1100 chemical species (involving 31 chemical elements) in the JANAF tabulations. These constants, determined by the least-squares technique, are given for two different mathematical representations of the data, one each for use with the thermochemical computer codes that were originated by the Aerotherm Corporation (their Equilibrium Surface Thermochemistry code) and the Naval Ordnance Test Station. These codes are used at the Applied Physics Laboratory for a variety of thermochemical problems (e.g., ablation, flow field analysis, and fuel/propellant performance). Where possible (depending on the upper limit of the JANAF data for a given species), the curve fits extend from 400°K to 6000°K. All equations are strictly applicable only for a species partial pressure of one atmosphere.

I. INTRODUCTION

Theoretical predictions of a large class of aerothermodynamic phenomena require as basic information, thermodynamic calculations (frozen and/or equilibrium compositions) involving gaseous/condensed mixtures. A number of computer codes are currently available to the analyst for performing such calculations. In the Aerospace Nuclear Safety Program at the Applied Physics Laboratory, the Equilibrium Surface Thermochemistry (EST) code developed by the Aerotherm Corporation¹ is employed in evaluating mass loss rates for a subliming material. In addition, a code developed by the Naval Ordnance Test Station (NOTS)² has been in use since 1962 at the Applied Physics Laboratory for assessing propellants for rocket and airbreathing powerplants and for estimating flow conditions in nozzle sections and about bodies of revolution. Both of these codes require thermochemical input data, and they are limited in generality by the availability of curve-fitted enthalpy and entropy data for the required chemical species. In order to enlarge the applicability of the EST and NOTS computer codes, the complete set of data compiled by JANAF (for ~ 1100 species),³ inclusive to supplement number 35, has been curve-fitted to forms appropriate for input to the two computer codes. The curve fits apply to the standard state pressure of one atmosphere.

II. ENTHALPY AND ENTROPY EQUATIONS FOR THE TWO CODES

For both the EST and the NOTS computer codes, the objective is to determine the constants needed for the appropriate polynomial equation for

molar heat capacity C_p as a function of temperature T and to show the corresponding constants needed to compute molar enthalpy H and molar entropy S as functions of temperature.

EST Code

The C_p equation needed for the EST code has the form,

$$C_p = a_1 + a_2 T + a_3/T^2 \quad (1)$$

where C_p is in cal/mole-°K, and T is in °K. The molar enthalpy is given by

$$H = H_f^{298} + \Delta H \quad (2)$$

where H_f^{298} is the heat of formation at 298.13°K, and

$$\Delta H = \int_{T_0}^T C_p dT \quad (3)$$

where T_0 is the reference temperature for the JANAF data, 298.13°K. Two fits are normally utilized for each species, one for 400°K to 3000°K and one for 3000°K to 6000°K. Thus, 3000°K is called the "split temperature," designated T_s . Thus, ΔH in cal/mole is given by,

$$\Delta H = \int_{T_0}^{T_s} C_p dT + \int_{T_s}^T C_p dT \equiv H_c + \int_{T_s}^T C_p dT$$

or

$$\Delta H = H_c + a_1(T - T_s) + \frac{a_2}{2}(T^2 - T_s^2) - a_3\left(\frac{1}{T} - \frac{1}{T_s}\right) \quad (4)$$

Equation (4) is used for both temperature ranges, i.e., whether T is below or above $T_s = 3000^\circ\text{K}$. We can rewrite it in the form:

$$\Delta H T = A + B T + C T^2 + D T^3 \quad (5)$$

where

$$\left. \begin{aligned} A &= -a_3; C = a_1; D = a_2/2; \text{ and} \\ B &= H_c - a_1 T_s - a_2 T_s^2/2 + a_3/T_s \end{aligned} \right\} \quad (6)$$

In the event the data do not extend beyond 3000°K , which is normally the case for solids and liquids, then only one curve-fit is computed. Nevertheless, Eq. (4) is still used, and T_s is still defined as 3000°K . A least-squares technique⁴ is used to evaluate constants A , B , C and D of Eq. (5), and Eqs. (6) are then used to determine a_1 , a_2 , a_3 and H_c .

The molar entropy S , in kcal/mole- $^\circ\text{K}$, is given by:

$$S = \int_0^T \frac{C_p}{T} dT = \int_0^{T_s} \frac{C_p}{T} dT + \int_{T_s}^T \frac{C_p}{T} dT \quad (7)$$

or

$$S = S_c + a_1 \ln T/T_s + a_2 (T - T_s) - \frac{a_3}{2} \left(\frac{1}{T^2} - \frac{1}{T_s^2} \right) \quad (8)$$

where $S_c \equiv \int_0^{T_s} \frac{C_p}{T} dT$ is found from the tabulated data.

The six constants H_f^{298} , S_c , H_c , a_1 , a_2 and a_3 for the two temperature regimes are sufficient to describe the thermodynamic properties of the species.

NOTS Code

The C_p equation needed for the NOTS thermochemical program has the form,

$$C_p = a_1 + a_2 \bar{T} + a_3 \bar{T}^2 + a_4 \bar{T}^3 + \frac{a_5}{\bar{T}^2} \quad (9)$$

where C_p is in cal/mole-°K, $\bar{T} = T/1000$, and T is in °K. In this case, with five constants, one curve-fit suffices for the complete temperature range.

$$\begin{aligned} \Delta H = \int_{\bar{T}_0}^{\bar{T}} C_p d\bar{T} = & a_1 (\bar{T} - \bar{T}_0) + \frac{a_2}{2} (\bar{T}^2 - \bar{T}_0^2) + \frac{a_3}{3} (\bar{T}^3 - \bar{T}_0^3) \\ & + \frac{a_4}{4} (\bar{T}^4 - \bar{T}_0^4) - a_5 \left(\frac{1}{\bar{T}} - \frac{1}{\bar{T}_0} \right) \end{aligned} \quad (10)$$

This can be rewritten as

$$\Delta H = -h_c + a_1 \bar{T} + \frac{a_2}{2} \bar{T}^2 + \frac{a_3}{3} \bar{T}^3 + \frac{a_4}{4} \bar{T}^4 - \frac{a_5}{\bar{T}} \quad (11)$$

where

$$h_c \equiv a_1 \bar{T}_0 + \frac{a_2}{2} \bar{T}_0^2 + \frac{a_3}{3} \bar{T}_0^3 + \frac{a_4}{4} \bar{T}_0^4 - \frac{a_5}{\bar{T}_0} \quad (12)$$

$$\bar{T}_0 = 0.298$$

Using the least-squares technique, the constants A, B, C, D, E and F are found from

$$\Delta H \bar{T} = A + B \bar{T} + C \bar{T}^2 + D \bar{T}^3 + E \bar{T}^4 + F \bar{T}^5 \quad (13)$$

where

$$A = -a_5; B = -h_c; C = a_1; D = a_2/2; E = a_3/3; F = a_4/4 \quad (14)$$

The entropy in cal/mole-°K is given by:

$$S = \int_0^{\bar{T}} \frac{C_p}{\bar{T}} d\bar{T} = \int_0^1 \frac{C_p}{\bar{T}} d\bar{T} + \int_1^{\bar{T}} \frac{C_p}{\bar{T}} d\bar{T}$$

or

$$S = S_c + a_1 \ln \bar{T} + a_2 \bar{T} + a_3 \bar{T}^2/2 + a_4 \bar{T}^3/3 - a_5/(2\bar{T}^2) \quad (15)$$

where

$$S_c \equiv \int_0^1 \frac{C_p}{\bar{T}} d\bar{T} - a_2 - \frac{a_3}{2} - \frac{a_4}{3} + \frac{a_5}{2} \quad (16)$$

and the integral remaining in Eq. (16) is found from the tabulated data.

For the NOTS fits the heat of formation is included in the enthalpy constant:

$$H_c = h_c + H_f^{298} \quad (17)$$

where h_c is given by Eq. (12). The seven constants H_c , S_c , a_1 , a_2 , a_3 , a_4 and a_5 are sufficient to describe the C_p , H , and S for species.

III. RESULTS

A computer program was written in the PL/1 language, for the IBM 360/91 system, to process the JANAF data acquired from the Dow Chemical Company on magnetic tape. The 1091 species covered, inclusive to supplement #35* issued June 1971, are listed in Table I. The KEY numbers correspond to the JANAF numbering system. The resulting constants for the C_p , H , and S equations, for both the ETS and NOTS codes, and comparisons to the original data, are included in microfiche form in the pocket attached to the inside back cover of this report.

*The data published in Ref. 3 are inclusive to supplement #28.

It is important to note that the "reference state" data in the JANAF tabulations have not been curve-fitted for the following 23 species: Sr, Ba, Ca, Cs, Co, Mo, Fe, Pb, Cu, W, K, Hg, Zr, Ti, Si, P, Na, Be, B, Al, Li, Mg, and S. The reason for this is that for these 23 species JANAF has published separate tabulations for gas and/or liquid and/or solid species. Therefore, for these species we have simply curve-fitted the data for each phase separately.

A sample computer output sheet is shown in Table II and illustrates the information contained on the microfiche. The first line contains the chemical name, formula, and date of the JANAF sheet (e.g., 670 = June 1970). The second line contains the molecular weight, the 'block' that is a parameter indicating where on the tape the information is located (i.e., data for the species begins in the logical record indicated by the block number), and the number of temperature points. The third line lists the temperature range of the data, the heat of formation at 298°K in kcal/mole, and the KEY which is the numbering system employed by JANAF. The fourth line contains the root-mean-square deviation, RMS, of the NOTS curve fit for Eq. (13), defined as

$$\text{RMS} = \left\{ \frac{1}{n} \sum [(\Delta H \bar{T})_{\text{data}} - (\Delta H \bar{T})_{\text{curve}}]^2 \right\}^{\frac{1}{2}} \quad (18)$$

where ΔH is in kcal/mole, $\bar{T} = T/1000^\circ\text{K}$ and n is the number of data points used. The next three lines are a listing of the information punched on cards in the following format:

Line Column

5	1 to 30	Six pairs of integers that describe the molecule. The first integer of each pair is the number of atoms and the second is the atomic number of the element.* The six pairs of integers are listed in monotonically increasing atomic number.
31 to 67		The species name and phase (e.g., (G) = gas).
70		An integer (phase index) that indicates the phase of the species. One corresponds to gaseous phase, two to the liquid phase and three to the solid phase.
71		An integer 0, 1 or 2 indicating the order of the three cards.
72 to 76		A five character code. The first character is J for JANAF and the remaining four characters contain the date of the JANAF page.
77 to 80		The KEY, described above.
6	1 to 52	The NOTS curve-fit constants, in the order, a_1 , a_2 , a_3 and a_4 (e.g., $a_1 = + 1.9842544E+1 = + 19.842544$; $a_3 = - 6.5898522E-3 = - 0.0065898522$).
53 to 57		Lower temperature limit of fit, °K (e.g., 400).
58 to 62		Upper temperature limit of fit, °K (e.g., 6000).
70 to 80		Same as line 5.
7	1 to 52	The NOTS curve fit constants, in the order, a_5 , H_c , S_c , H_f^{298} (e.g., $H_f^{298} = - 1.3969999E+2 = - 139.69999$ kcal/mole.

* Ions have been arbitrarily assigned an atomic number of zero.

Line Column

53 to 64 The species' chemical formula and phase (e.g., $\text{AlCl}_3(\text{G})$).

70 to 80 Same as line 5.

Line 8 contains the RMS deviations of the low-temperature ($400^\circ\text{-}3000^\circ\text{K}$) and high temperature ($3000^\circ\text{-}6000^\circ\text{K}$) EST curve fits, defined as

$$\text{RMS} = \left\{ \frac{1}{n} \sum \left[(\Delta\text{HT})_{\text{data}} - (\Delta\text{HT})_{\text{curve}} \right]^2 \right\}^{\frac{1}{2}} / 10^6 \quad (19)$$

where ΔH is in cal/mole and T is in $^\circ\text{K}$.

The next three lines contain the data punched on cards for the EST curve fits in the following format.

Line Column

9 1 to 67 Same as line 5 of the NOTS fits above.

68 Phase index.

69 Card order.

70 to 80 Chemical formula.

10 1 to 54 The six constants for the lower temperature range in the order, H_f^{298} , H_c , a_1 , a_2 , a_3 , S_c . The format is E(9, 6); e.g., $H_f^{298} = -139699+6 = -139699.0$ cal/mole.

55 to 58 Lower temperature limit of fit, $^\circ\text{K}$.

59 to 62 Upper temperature limit of fit, $^\circ\text{K}$.

63 to 67 A five character code. J for JANAF plus the date of the JANAF page.

68 to 80 Same as line 9.

11 1 to 80 Information for the upper temperature range curve fit.

Same format as line 10.

It should be noted that in the event the data do not extend to 6000°K only one fit is utilized for the complete regime. In addition, regardless of the upper temperature limit (e.g., $T_{\max} = 1500^{\circ}\text{K}$) the enthalpy and entropy are evaluated from Eqs. (4) and (8), respectively, with $T_s = 3000^{\circ}\text{K}$.

The remainder of the output in Table II consists of tabulations of T , temperature in °K, C_p , specific heat in cal/mole-°K, S , entropy in cal/mole-°K) and H , enthalpy (i.e., $\int C_p dT$) in kcal/mole from the JANAF tabulations. The next four columns contain the results from the equations for the NOTS fits. SC is the computed entropy in cal/mole-°K, and $DS = S - SC$; HC is the computed enthalpy in kcal/mole, and $DH = H - HC$. The corresponding information for the EST fits is shown in the last four columns. The information at $T_s = 3000^{\circ}\text{K}$ is tabulated twice to show the matching of the two EST fits. No attempt was made to force the fits through the same value at the split temperature.

The output was arranged to fit on 8½ x 11 inch paper, and for this reason, in the majority of cases, not all of the data used in deriving the fits are shown. The data were supplied (and used) in 100°K increments. This means that in the sample (Table II) only even hundreds are printed out, but the odd hundreds (300°, 500°K, etc.) were also used to obtain the least-squares-fitted constants presented for the equations.

IV. CLOSURE: ENCLOSED MICROFICHE, AVAILABILITY OF DECK, AND PLANS

The curve fits of the species documented on the microfiche herein encompass a total of 31 elements and should be adequate for the majority of

thermochemical calculations. The resulting polynomial fits are, in general, quite accurate at the high temperatures and become less accurate at low temperatures, reaching the largest deviation at the lower temperature limit ($T = 400^\circ\text{K}$). It should, of course, be obvious that extrapolations of the fits beyond the temperature limits will lead to gross errors.

It is anticipated that as further supplements to the JANAF data tabulations become available, the fits will be updated. A copy of the resulting cards (EBCDIC code) that contain the constants for both the EST and NOTS fits and a small computer program (PL/1) to evaluate C_p , h and S will be submitted to COSMIC⁶ for general distribution. Some modifications in input formatting will be required in both the EST and NOTS computer codes for the cards to be directly usable for card input, the modification being dependent on the EST and NOTS program version available to the user and the computer system configuration.

REFERENCES

1. "User's Manual, Aerotherm Equilibrium Thermochemistry Computer Program, Version 3," Vol. I and Vol. II, Aerotherm Report No. UM-70-13, April 1970.
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3. JANAF Thermochemical Tables, Second Edition, U. S. Dept. of Commerce, National Bureau of Standards, NSRDS-NBS 37, U. S. Govt. Printing Office, June 1971.
4. Monteabaro, J. G., "Data Smoothing and Curve Fitting by Least Squares Method with Orthogonal Polynomials," APL/JHU Computing Center, Scientific Subroutine #6.02.050, Dec. 19, 1968.
5. Prophet, H., Thermal Research Laboratory, 1707 Building, The Dow Chemical Company, Midland, Michigan.
6. COSMIC, Barrow Hall, University of Georgia, Athens, Georgia, 30601.

TABLE I. LISTING OF SPECIES.

FORMULA	KEY	SPECIES NAME		DATE
AL (C)	2	ALUMINUM	(C)	J 1265
AL (L)	3	ALUMINUM	(L)	J 667
AL (G)	4	ALUMINUM, MONATOMIC	(G)	J 1265
AL+ (G)	843	ALUMINUM UNIPOSITIVE ION	(G)	J 665
ALBO2 (G)	887	ALUMINUM MONOBORATE	(G)	J 666
ALBR (G)	493	ALUMINUM MONOBROMIDE	(G)	J 964
ALBR3 (C)	494	ALUMINUM TRIBROMIDE	(C)	J 667
ALBR3 (L)	495	ALUMINUM TRIBROMIDE	(L)	J 667
ALBR3 (G)	496	ALUMINUM TRIBROMIDE	(G)	J 667
ALCL (G)	6	ALUMINUM MONOCHLORIDE	(G)	J 670
ALCL+ (G)	1010	ALUMINUM MONOCHLORIDE UNIPOS. ION	(G)	J 670
ALCLF (G)	7	ALUMINUM CHLOROFLUORIDE	(G)	J 964
ALCLF2 (G)	8	ALUMINUM CHLORODIFLUORIDE	(G)	J 964
ALCLO (G)	9	ALUMINUM OXYCHLORIDE	(G)	J 964
ALCLO (C)	807	ALUMINUM OXYCHLORIDE	(C)	J 364
ALCL2 (G)	10	ALUMINUM DICHLORIDE	(G)	J 964
ALCL2- (G)	1012	ALUMINUM DICHLORIDE UNINEG. ION	(G)	J 668
ALCL2+ (G)	1011	ALUMINUM DICHLORIDE UNIPOS. ION	(G)	J 668
ALCL2F (G)	11	ALUMINUM DICHLOROFLUORIDE	(G)	J 964
ALCL3 (C)	12	ALUMINUM TRICHLORIDE	(C)	J 670
ALCL3 (L)	13	ALUMINUM TRICHLORIDE	(L)	J 670
ALCL3 (G)	14	ALUMINUM TRICHLORIDE	(G)	J 670
ALCL4K (C)	649	POTASSIUM TETRACHLOROALUMINATE	(C)	J 663
ALCL4NA (C)	770	SODIUM TETRACHLOROALUMINATE	(C)	J 663
ALCL6K3 (C)	650	TRIPOTASSIUM HEXACHLOROALUMINATE	(C)	J 963
ALCL6NA3 (C)	794	TRISODIUM HEXACHLOROALUMINATE	(C)	J 963
ALF (G)	15	ALUMINUM MONOFLUORIDE	(G)	J 669
ALF+ (G)	1013	ALUMINUM MONOFLUORIDE UNIPOS. ION	(G)	J 668
ALFO (G)	16	ALUMINUM OXYFLUORIDE	(G)	J 364
ALF2 (G)	17	ALUMINUM DIFLUORIDE	(G)	J 964
ALF2- (G)	1015	ALUMINUM DIFLUORIDE UNINEG. ION	(G)	J 668
ALF2+ (G)	1014	ALUMINUM DIFLUORIDE UNIPOS. ION	(G)	J 668
ALF3 (C)	18	ALUMINUM TRIFLUORIDE	(C)	J 670
ALF3 (G)	19	ALUMINUM TRIFLUORIDE	(G)	J 670
ALF4LI (G)	684	LITHIUM TETRAFLUOROALUMINATE	(G)	J 670
ALF4NA (G)	1084	SODIUM TETRAFLUOROALUMINATE	(G)	J 670
ALF6K3 (C)	651	TRIPOTASSIUM HEXAFLUORALUMINATE	(C)	J 1263
ALF6LI3 (L)	1085	TRILITHIUM HEXAFLUORALUMINATE	(L)	J 670
ALF6LI3 (C)	795	TRILITHIUM HEXAFLUORALUMINATE	(C)	J 670
ALF6NA3 (L)	1048	CRYOLITE	(L)	J 1268
ALF6NA3 (C)	460	CRYOLITE	(C)	J 1268
ALH (G)	20	ALUMINUM MONOHYDRIDE	(G)	J 663
ALHO (G)	21	ALUMINUM MONOXYHYDRIDE	(G)	J 364
ALHO (G)	808	ALUMINUM MONOHYDROXIDE	(G)	J 1267
ALHO- (G)	1000	ALUMINUM HYDROXIDE UNINEG. ION	(G)	J 1267
ALHO+ (G)	999	ALUMINUM HYDROXIDE UNIPOS. ION	(G)	J 1267
ALHO2 (G)	22	ALUMINUM DIOXYHYDRIDE	(G)	J 1268
ALH4LI (C)	771	LITHIUM ALUMINUM HYDRIDE	(C)	J 364
ALI (G)	497	ALUMINUM MONIODIDE	(G)	J 964
ALI3 (C)	498	ALUMINUM TRIIODIDE	(C)	J 664

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
AL ₃ I ₃ (L)	499	ALUMINUM TRIIODIDE	(L)	J 664
AL ₃ I ₃ (G)	500	ALUMINUM TRIIODIDE	(G)	J 664
ALLIO ₂ (C)	23	LITHIUM ALUMINATE	(C)	J 961
ALLIO ₂ (L)	461	LITHIUM ALUMINATE	(L)	J 961
ALN (C)	24	ALUMINUM NITRIDE	(C)	J1262
ALN (G)	25	ALUMINUM NITRIDE	(G)	J 367
ALNAO ₂ (C)	26	SODIUM ALUMINATE	(C)	J 363
ALO (G)	27	ALUMINUM MONOXIDE	(G)	J 670
ALO+ (G)	1016	ALUMINUM MONOXIDE UNIPOSITIVE ION	(G)	J 670
ALO ₂ (G)	1017	ALUMINUM DIOXIDE	(G)	J1268
ALO ₂ - (G)	1018	ALUMINUM DIOXIDE UNINEGATIVE ION	(G)	J1268
ALS (G)	28	ALUMINUM SULFIDE	(G)	J 364
AL ₂ BE ₂ O ₄ (C)	565	BERYLLIUM ALUMINATE	(C)	J 964
AL ₂ BR ₆ (G)	501	ALUMINUM TRIBROMIDE, DIMERIC	(G)	J 667
AL ₂ CL ₆ (G)	29	ALUMINUM TRICHLORIDE DIMER	(G)	J 670
AL ₂ CL ₉ K ₃ (C)	652	POTASSIUM NONACHLOROALUMINATE	(C)	J 964
AL ₂ F ₆ (G)	1086	ALUMINUM TRIFLUORIDE, DIMER	(G)	J 670
AL ₂ I ₆ (G)	502	ALUMINUM TRIIODIDE, DIMERIC	(G)	J 664
AL ₂ MGO ₄ (C)	30	MAGNESIUM ALUMINATE	(C)	J 363
AL ₂ O (G)	31	ALUMINUM SUBOXIDE	(G)	J 965
AL ₂ O+ (G)	1019	DIALUMINUM MONOXIDE UNIPOS. ION	(G)	J 668
AL ₂ O ₂ (G)	32	ALUMINUM MONOXIDE, DIMERIC	(G)	J 965
AL ₂ O ₂ + (G)	1020	DIALUMINUM DIOXIDE UNIPOS. ION	(G)	J 668
AL ₂ O ₃ (C)	33	ALUMINUM OXIDE	(C)	J 364
AL ₂ O ₃ (L)	34	ALUMINUM OXIDE	(L)	J 364
AL ₂ O ₃ (C)	285	GAMMA ALUMINUM OXIDE	(C)	J1265
AL ₂ O ₅ SI (C)	924	ANDALUSITE	(C)	J 967
AL ₂ O ₅ SI (C)	925	KYANITE	(C)	J 967
AL ₂ O ₅ SI (C)	35	ALUMINUM SILICATE, SILLIMANITE	(C)	J 967
AL ₆ O ₁₃ SI ₂ (C)	926	MULLITE	(C)	J 967
B (C)	38	BORON, BETA-RHOMBOHEDRAL	(C)	J1264
B (L)	39	BORON	(L)	J1264
B (G)	40	BORON, MONATOMIC	(G)	J1264
B+ (G)	1001	BORON UNIPOSITIVE ION	(G)	J1270
BBE ₂ O (G)	888	BERYLLIUM MONOBORATE	(G)	J 666
BBR (G)	503	BORON MONOBROMIDE	(G)	J1264
BBRCL (G)	718	BORON BROMOCHLORIDE	(G)	J1264
BBRCL ₂ (G)	685	BORON BROMODICHLORIDE	(G)	J1264
BBRF (G)	719	BORON BROMOFLUORIDE	(G)	J1264
BBRF ₂ (G)	686	BORON BROMODIFLUORIDE	(G)	J1264
BBRO (G)	720	BORON OXYBROMIDE	(G)	J 365
BBR ₂ (G)	566	BORON DIBROMIDE	(G)	J1264
BBR ₂ CL (G)	687	BORON DIBROMOCHLORIDE	(G)	J1264
BBR ₂ F (G)	688	BORON DIBROMOFLUORIDE	(G)	J1264
BBR ₂ H (G)	872	DIBROMOBORANE	(G)	J 366
BBR ₃ (G)	505	BORON TRIBROMIDE	(G)	J1264
BCL (G)	41	BORON MONOCHLORIDE	(G)	J1264
BCL+ (G)	1021	BORON MONOCHLORIDE UNIPOS. ION	(G)	J 668
BCLF (G)	42	BORON CHLOROFLUORIDE	(G)	J1264
BCLF ₂ (G)	43	BORON CHLORODIFLUORIDE	(G)	J1264

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME	DATE
BClO (G)	44	BORON OXYCHLORIDE (G)	J 365
BCL2 (G)	45	BORON DICHLORIDE (G)	J1264
BCL2- (G)	1023	BORON DICHLORIDE UNINEG. ION (G)	J1268
BCL2+ (G)	1022	BORON DICHLORIDE UNIPOSITIVE ION (G)	J1270
BCL2F (G)	46	BORON DICHLOROFLUORIDE (G)	J1264
BCL2H (G)	873	DICHLOROBORANE (G)	J 366
BCL3 (G)	47	BORON TRICHLORIDE (G)	J1264
BF (G)	48	BORON MONOFLUORIDE (G)	J1264
BFO (G)	49	BORON OXYFLUORIDE (G)	J 365
BF2 (G)	50	BORON DIFLUORIDE (G)	J1264
BF2- (G)	1025	BORON DIFLUORIDE UNINEGATIVE ION (G)	J1268
BF2+ (G)	1024	BORON DIFLUORIDE UNIPOSITIVE ION (G)	J1270
BF2H (G)	466	DIFLUOROBORANE (G)	J1265
BF2HO (G)	722	BORON HYDROXYDIFLUORIDE (G)	J 365
BF2O (G)	477	BORON OXYDIFLUORIDE (G)	J1266
BF3 (G)	51	BORON TRIFLUORIDE (G)	J 669
BF4K (L)	1077	POTASSIUM TETRAFLUOROBORATE (L)	J1269
BF4K (C)	689	POTASSIUM TETRAFLUOROBORATE (C)	J1269
BF4K (G)	690	POTASSIUM TETRAFLUOROBORATE (G)	J1269
BH (G)	52	BORON MONOHYDRIDE (G)	J1264
BHO (G)	53	HYPOBOROUS ACID (G)	J1264
BHO+ (G)	1026	BORON OXIDE HYDRIDE UNIPOS. ION (G)	J 668
BHO2 (G)	54	METABORIC ACID (G)	J1264
BHO2 (C)	716	METABORIC ACID (C)	J1264
BH2 (G)	55	BORON DIHYDRIDE (G)	J1264
BH2O2 (G)	56	BORON DIHYDROXIDE (G)	J1264
BH3 (G)	57	BORON TRIHYDRIDE (G)	J1264
BH3O3 (G)	58	BORIC ACID (G)	J1264
BH3O3 (C)	717	BORIC ACID (C)	J1264
BH4K (C)	744	POTASSIUM BOROHYDRIDE (C)	J1264
BH4LI (C)	745	LITHIUM BOROHYDRIDE (C)	J1264
BH4NA (C)	59	SODIUM BOROHYDRIDE (C)	J1264
BI (G)	772	BORON IODIDE (G)	J1264
BI2 (G)	567	BORON DIIODIDE (G)	J1264
BI3 (G)	506	BORON TRIIODIDE (G)	J1264
BK02 (C)	1121	POTASSIUM METABORATE (C)	J 671
BK02 (L)	1122	POTASSIUM METABORATE (L)	J 671
BK02 (G)	1123	POTASSIUM METABORATE (G)	J 671
BLIO2 (C)	444	LITHIUM METABORATE (C)	J 671
BLIO2 (L)	445	LITHIUM METABORATE (L)	J 671
BLIO2 (G)	653	LITHIUM METABORATE (G)	J 671
BN (C)	60	BORON NITRIDE (C)	J 666
BN (G)	61	BORON NITRIDE (G)	J 666
BNAO2 (C)	62	SODIUM METABORATE (C)	J 671
BNAO2 (L)	63	SODIUM METABORATE (L)	J 671
BNAO2 (G)	832	SODIUM METABORATE (G)	J 671
BO (G)	64	BORON MONOXIDE (G)	J 668
BO2 (G)	773	BORON DIOXIDE (G)	J 668
BO2- (G)	1027	BORON DIOXIDE UNINEGATIVE ION (G)	J1268
BS (G)	65	BORON MONOSULFIDE (G)	J 565

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
BTI (C)	746	TITANIUM MONOBORIDE	(C)	J 665
B2 (G)	66	BORON, DIATOMIC	(G)	J1264
B2BE04 (G)	723	BERYLLIUM DIBORATE	(G)	J 665
B2BE306 (C)	927	BERYLLIUM ORTHOBORATE	(C)	J 966
B2CL4 (G)	67	BORON DICHLORIDE, DIMERIC	(G)	J1264
B2F4 (G)	827	BORON DIFLUORIDE DIMERIC	(G)	J1264
B2F40 (G)	1102	DIBORON TETRAFLUOROMONOXIDE	(G)	J 671
B2H404 (G)	874	BORON DIHYDROXIDE DIMERIC	(G)	J 366
B2H404 (C)	875	BORON DIHYDROXIDE DIMERIC	(C)	J 366
B2H6 (G)	68	DIBORANE	(G)	J1264
B2MG (C)	747	MAGNESIUM DIBORIDE	(C)	J 365
B2O (G)	889	DIBORON MONOXIDE	(G)	J 666
B2O2 (G)	69	BORON MONOXIDE, DIMERIC	(G)	J1264
B2O3 (C)	70	BORON OXIDE	(C)	J 671
B2O3 (L)	71	BORON OXIDE	(L)	J 671
B2O3 (G)	72	BORON OXIDE	(G)	J 671
B2O4PB (C)	576	LEAD DIBORATE	(C)	J 365
B2TI (C)	691	TITANIUM DIBORIDE	(C)	J 665
B2TI (L)	692	TITANIUM DIBORIDE	(L)	J 665
B2ZR (C)	693	ZIRCONIUM DIBORIDE	(C)	J 665
B2ZR (L)	694	ZIRCONIUM DIBORIDE	(L)	J 665
B3CL303 (G)	73	BORON OXYCHLORIDE, TRIMERIC	(G)	J 365
B3FH203 (G)	748	MONOFLUOROBOROXINE	(G)	J1265
B3F2HO3 (G)	749	DIFLUOROBOROXINE	(G)	J1265
B3F303 (G)	74	BORON OXYFLUORIDE, TRIMERIC	(G)	J 365
B3F303 (C)	695	BORON OXYFLUORIDE, TRIMERIC	(C)	J 365
B3H303 (G)	750	BOROXINE	(G)	J 365
B3H303 (C)	835	BOROXIN	(C)	J 365
B3H306 (G)	75	METABORIC ACID, TRIMERIC	(G)	J1264
B3H6N3 (G)	76	BORAZINE	(G)	J 365
B4K207 (C)	751	DIPOTASSIUMTETRABORONHEPTAOXIDE	(C)	J 363
B4K207 (L)	752	DIPOTASSIUMTETRABORONHEPTAOXIDE	(L)	J 363
B4LI207 (C)	570	LITHIUM TETRABORATE	(C)	J 665
B4LI207 (L)	571	LITHIUM TETRABORATE	(L)	J 665
B4MG (C)	753	MAGNESIUM TETRABORIDE	(C)	J 365
B4NA207 (C)	79	SODIUM TETRABORON HEPTAOXIDE	(C)	J 365
B4NA207 (L)	80	SODIUM TETRABORON HEPTAOXIDE	(L)	J 365
B4O7PB (C)	577	LEAD TETRABORATE	(C)	J 365
B5H9 (G)	81	PENTABORANE	(G)	J 365
B5H9 (L)	724	PENTABORANE	(L)	J 365
B6K2010 (C)	754	DIPOTASSIUM HEXABORON DECAOXIDE	(C)	J 365
B6LI2010 (C)	572	LITHIUM HEXABORATE	(C)	J 365
B6NA2010 (C)	755	DISODIUM HEXABORON DECAOXIDE	(C)	J 365
B6O10PB (C)	578	LEAD HEXABORATE	(C)	J 365
B8K2013 (C)	756	DIPOTASSIUM OCTABORONTRIDECAOXIDE	(C)	J 565
B8K2013 (L)	757	DIPOTASSIUM OCTABORONTRIDECAOXIDE	(L)	J 365
B8LI2013 (C)	574	LITHIUM OCTABORATE	(C)	J 365
B10H14 (G)	82	DECABORANE	(G)	J1264
B10H14 (C)	696	DECABORANE	(C)	J1264
B10H14 (L)	697	DECABORANE	(L)	J1264

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
B10017PB2 (C)	579	LEAD DECABORATE	(C)	J 365
BA (C)	1104	BARIUM	(C)	J1270
BA (L)	1105	BARIUM	(L)	J1270
BA (G)	1106	BARIUM MONATOMIC	(G)	J1270
BE (C)	84	BERYLLIUM	(C)	J 961
BE (L)	85	BERYLLIUM	(L)	J 961
BE (G)	86	BERYLLIUM, MONATOMIC	(G)	J 961
BE+ (G)	844	BERYLLIUM UNIPOSITIVE ION	(G)	J 665
BEBr (G)	507	BERYLLIUM MONOBROMIDE	(G)	J 964
BEBr2 (C)	508	BERYLLIUM DIBROMIDE	(C)	J 665
BEBr2 (L)	509	BERYLLIUM DIBROMIDE	(L)	J 665
BEBr2 (G)	510	BERYLLIUM DIBROMIDE	(G)	J 665
BECL (G)	88	BERYLLIUM MONOCHLORIDE	(G)	J 966
BECL+ (G)	1028	BERYLLIUM MONOCHLORIDE UNIPOS ION	(G)	J 668
BECLF (G)	89	BERYLLIUM CHLOROFLUORIDE	(G)	J 665
BECL2 (G)	90	BERYLLIUM DICHLORIDE	(G)	J 665
BECL2 (C)	462	BERYLLIUM DICHLORIDE, BETA	(C)	J 665
BECL2 (L)	463	BERYLLIUM DICHLORIDE	(L)	J 665
BECL2 (C)	845	BERYLLIUM DICHLORIDE, ALPHA	(C)	J 665
BEF (G)	91	BERYLLIUM MONOFLUORIDE	(G)	J 363
BEF2 (G)	92	BERYLLIUM DIFLUORIDE	(G)	J 670
BEF2 (C)	464	BERYLLIUM DIFLUORIDE	(C)	J 670
BEF2 (L)	465	BERYLLIUM DIFLUORIDE	(L)	J 670
BEF3LI (C)	890	LITHIUM BERYLLIUM TRIFLUORIDE	(C)	J 666
BEF3LI (G)	725	LITHIUM BERYLLIUM FLUORIDE	(G)	J1262
BEF4LI2 (C)	891	LITHIUM BERYLLIUM TETRAFLUORIDE	(C)	J 666
BEF4LI2 (L)	892	LITHIUM BERYLLIUM TETRAFLUORIDE	(L)	J 666
BEH (G)	93	BERYLLIUM MONOHYDRIDE	(G)	J 363
BEH+ (G)	928	BERYLLIUM HYDRIDE UNIPOSITIVE ION	(G)	J 966
BEHO (G)	94	BERYLLIUM MONOHYDROXIDE	(G)	J 963
BEHO+ (G)	1029	BERYLLIUM HYDROXIDE UNIPOS. ION	(G)	J 668
BEH2 (G)	95	BERYLLIUM DIHYDRIDE	(G)	J1260
BEH2O2 (G)	97	BERYLLIUM HYDROXIDE	(G)	J 367
BEI (G)	511	BERYLLIUM MONOIODIDE	(G)	J 964
BEI2 (C)	512	BERYLLIUM DIIODIDE	(C)	J 665
BEI2 (L)	513	BERYLLIUM DIIODIDE	(L)	J 665
BEI2 (G)	514	BERYLLIUM DIIODIDE	(G)	J 665
BEN (G)	774	BERYLLIUM NITRIDE	(G)	J 663
BEO (C)	98	BERYLLIUM OXIDE, ALPHA	(C)	J 671
BEO (L)	99	BERYLLIUM OXIDE	(L)	J 671
BEO (G)	100	BERYLLIUM OXIDE	(G)	J 963
BEO (C)	1124	BERYLLIUM OXIDE, BETA	(C)	J 671
BE04S (C)	929	BERYLLIUM SULFATE, ALPHA	(C)	J 966
BE04S (C)	930	BERYLLIUM SULFATE, BETA	(C)	J 966
BE04S (C)	931	BERYLLIUM SULFATE, GAMMA	(C)	J 966
BE04W (C)	775	BERYLLIUM TUNGSTATE	(C)	J 367
BE2CL4 (G)	103	BERYLLIUM CHLORIDE, DIMERIC	(G)	J 665
BE2F2O (G)	893	DIBERYLLIUM OXIDE DIFLUORIDE	(G)	J 666
BE2O (G)	796	DIBERYLLIUM OXIDE	(G)	J 963
BE2O2 (G)	104	BERYLLIUM OXIDE, DIMERIC	(G)	J 963

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
BE204SI (C)	467	BERYLLIUM SILICATE	(C)	J 665
BE3N2 (C)	105	BERYLLIUM NITRIDE, ALPHA	(C)	J 367
BE3N2 (L)	106	BERYLLIUM NITRIDE	(L)	J 367
BE3O3 (G)	107	BERYLLIUM OXIDE, TRIMERIC	(G)	J 963
BE4O4 (G)	108	BERYLLIUM OXIDE, TETRAMERIC	(G)	J 963
BE5O5 (G)	109	BERYLLIUM OXIDE, PENTAMERIC	(G)	J 963
BE6O6 (G)	110	BERYLLIUM OXIDE, HEXAMERIC	(G)	J 963
BR (G)	468	BROMINE, MONATOMIC	(G)	J 961
BRCL (G)	699	BROMINE MONOCHLORIDE	(G)	J 965
BRF (G)	654	BROMINE MONOFLUORIDE	(G)	J 965
BRF3 (G)	655	BROMINE TRIFLUORIDE	(G)	J 965
BRF5 (G)	700	BROMINE PENTAFLUORIDE	(G)	J 965
BRH (G)	469	HYDROGEN BROMIDE	(G)	J 965
BRH4N (C)	580	AMMONIUM BROMIDE	(C)	J 965
BRHG (G)	515	MERCURY MONOBROMIDE	(G)	J1261
BRI (G)	701	BROMINE MONOIODIDE	(G)	J1266
BRK (C)	516	POTASSIUM BROMIDE	(C)	J 367
BRK (L)	517	POTASSIUM BROMIDE	(L)	J 367
BRK (G)	518	POTASSIUM BROMIDE	(G)	J 367
BRLI (C)	470	LITHIUM BROMIDE	(C)	J 666
BRLI (L)	471	LITHIUM BROMIDE	(L)	J 666
BRLI (G)	472	LITHIUM BROMIDE	(G)	J 666
BRMG (G)	894	MAGNESIUM MONOBROMIDE	(G)	J 666
BRN (G)	726	NITROGEN BROMIDE	(G)	J1262
BRNO (G)	581	NITROSYL BROMIDE	(G)	J1266
BRNA (C)	821	SODIUM BROMIDE	(C)	J 964
BRNA (L)	822	SODIUM BROMIDE	(L)	J 964
BRNA (G)	823	SODIUM BROMIDE	(G)	J 964
BRP (G)	776	PHOSPHORUS MONOBROMIDE	(G)	J1263
BRPB (G)	582	LEAD MONOBROMIDE	(G)	J 662
BRTI (G)	519	TITANIUM MONOBROMIDE	(G)	J 668
BRW (G)	977	TUNGSTEN MONOBROMIDE	(G)	J 667
BRZR (G)	824	ZIRCONIUM MONOBROMIDE	(G)	J 670
BR2 (R)	473	BROMINE, DIATOMIC	(R)	J 961
BR2 (G)	475	BROMINE, DIATOMIC	(G)	J1261
BR2FE (C)	932	FERROUS BROMIDE	(C)	J 966
BR2FE (L)	933	IRON DIBROMIDE	(L)	J 966
BR2FE (G)	934	FERROUS BROMIDE	(G)	J 966
BR2HG (C)	583	MERCURY DIBROMIDE	(C)	J 362
BR2HG (L)	584	MERCURY DIBROMIDE	(L)	J 362
BR2HG (G)	585	MERCURY DIBROMIDE	(G)	J 362
BR2HG2 (C)	586	MERCURY MONOBROMIDE, DIMERIC	(C)	J 362
BR2K2 (G)	520	POTASSIUM BROMIDE, DIMERIC	(G)	J 367
BR2LI2 (G)	476	LITHIUM BROMIDE, DIMERIC	(G)	J 666
BR2MG (C)	895	MAGNESIUM BROMIDE	(C)	J 666
BR2MG (L)	896	MAGNESIUM BROMIDE	(L)	J 666
BR2MG (G)	897	MAGNESIUM BROMIDE	(G)	J 666
BR2NA2 (G)	825	SODIUM DIBROMIDE DIMERIC	(G)	J 964
BR2PB (C)	587	LEAD DIBROMIDE	(C)	J 362
BR2PB (L)	588	LEAD DIBROMIDE	(L)	J 362

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
BR2PB (G)	589	LEAD DIBROMIDE	(G)	J 362
BR2TI (C)	521	TITANIUM DIBROMIDE	(C)	J 668
BR2TI (G)	813	TITANIUM DIBROMIDE	(G)	J 668
BR2ZR (C)	590	ZIRCONIUM DIBROMIDE	(C)	J 670
BR2ZR (L)	591	ZIRCONIUM DIBROMIDE	(L)	J 670
BR2ZR (G)	592	ZIRCONIUM DIBROMIDE	(G)	J 670
BR3OP (G)	758	PHOSPHORYL BROMIDE	(G)	J1263
BR3P (G)	805	PHOSPHORUS TRIBROMIDE	(G)	J1263
BR3PS (G)	759	THIOPHOSPHORYL BROMIDE	(G)	J 363
BR3TI (C)	522	TITANIUM TRIBROMIDE	(C)	J 668
BR3TI (G)	814	TITANIUM TRIBROMIDE	(G)	J 668
BR3ZR (C)	593	ZIRCONIUM TRIBROMIDE	(C)	J 664
BR3ZR (G)	815	ZIRCONIUM TRIBROMIDE	(G)	J 664
BR4FE2 (G)	935	IRON DIBROMIDE DIMERIC	(G)	J 966
BR4PB (G)	656	LEAD TETRABROMIDE	(G)	J 662
BR4TI (C)	523	TITANIUM TETRABROMIDE	(C)	J 668
BR4TI (L)	524	TITANIUM TETRABROMIDE	(L)	J 668
BR4TI (G)	525	TITANIUM TETRABROMIDE	(G)	J 668
BR4ZR (G)	597	ZIRCONIUM TETRABROMIDE	(G)	J 364
BR4ZR (C)	595	ZIRCONIUM TETRABROMIDE	(C)	J 364
BR5W (G)	729	TUNGSTEN PENTABROMIDE	(G)	J 667
BR6W (G)	731	TUNGSTEN HEXABROMIDE	(G)	J 667
C (C)	111	CARBON	(C)	J 361
C (G)	112	CARBON, MONATOMIC	(G)	J 361
C- (G)	568	CARBON UNINEGATIVE ION	(G)	J 965
CAL (G)	5	ALUMINUM CARBIDE	(G)	J 663
CB (G)	721	BORON CARBIDE	(G)	J 663
CB4 (C)	77	BORON CARBIDE	(C)	J1265
CB4 (L)	78	BORON CARBIDE	(L)	J1265
CBE2 (C)	101	BERYLLIUM CARBIDE	(C)	J 663
CBE2 (L)	102	BERYLLIUM CARBIDE	(L)	J 663
CBR (G)	978	CARBON MONOBROMIDE	(G)	J 667
CBRF3 (G)	1073	BROMOTRIFLUOROMETHANE	(G)	J 669
CBRN (G)	698	CYANOGEN BROMIDE	(G)	J 669
CBR4 (G)	806	CARBON TETRABROMIDE	(G)	J1263
CCL (G)	113	CARBON MONOCHLORIDE	(G)	J1269
CCLF0 (G)	114	CARBONYL CHLOROFLUORIDE	(G)	J 661
CCLF3 (G)	115	CARBON CHLOROTRIFLUORIDE	(G)	J 669
CCLN (G)	116	CYANOGEN CHLORIDE	(G)	J 666
CCLO (G)	480	CARBONYL MONOCHLORIDE	(G)	J1265
CCL2 (G)	838	CARBON DICHLORIDE	(G)	J1268
CCL2F2 (G)	446	DICHLORODIFLUOROMETHANE	(G)	J 670
CCL2O (G)	117	CARBONYL CHLORIDE	(G)	J 661
CCL3 (G)	842	TRICHLOROMETHYL	(G)	J 670
CCL3F (G)	118	TRICHLOROFLUOROMETHANE	(G)	J 670
CCL4 (G)	119	CARBON TETRACHLORIDE	(G)	J1268
CF (G)	120	CARBON MONOFLUORIDE	(G)	J 670
CF+ (G)	1107	CARBON MONOFLUORIDE UNIPOS. ION	(G)	J1270
CFN (G)	121	CYANOGEN FLUORIDE	(G)	J 669
CFO (G)	550	CARBONYL MONOFLUORIDE	(G)	J1265

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
CF ₂ (G)	122	CARBON DIFLUORIDE	(G)	J 670
CF ₂ ⁺ (G)	1108	CARBON DIFLUORIDE UNIPOS. ION	(G)	J1270
CF ₂ O (G)	123	CARBONYL FLUORIDE	(G)	J1269
CF ₃ (G)	124	CARBON TRIFLUORIDE	(G)	J 669
CF ₃ I (G)	1074	TRIFLUORIODOMETHANE	(G)	J 669
CF ₄ (G)	125	CARBON TETRAFLUORIDE	(G)	J 669
CF ₄ O (G)	834	TRIFLUOROMETHYL HYPOFLUORITE	(G)	J1269
CH (G)	126	METHYLYLDIYNE	(G)	J1257
CHCl (G)	1078	MONOCHLOROMETHYLENE	(G)	J1269
CHClF ₂ (G)	127	CHLORODIFLUOROMETHANE	(G)	J 670
CHCl ₂ F (G)	128	DICHLOROFLUOROMETHANE	(G)	J 670
CHCl ₃ (G)	129	TRICHLOROMETHANE	(G)	J1268
CHF (G)	1079	MONOFLUOROMETHYLENE	(G)	J1269
CHFO (G)	130	FORMYL FLUORIDE	(G)	J 661
CHF ₃ (G)	131	TRIFLUOROMETHANE	(G)	J 669
CHN (G)	132	HYDROGEN CYANIDE	(G)	J1269
CHNO (G)	133	HYDROGEN ISOCYANATE	(G)	J1270
CHO (G)	134	FORMYL	(G)	J1270
CHO ⁺ (G)	898	FORMYL UNIPOSITIVE ION	(G)	J1270
CHP (G)	1080	METHINOPHOSPHIDE	(G)	J1269
CH ₂ (G)	135	METHYLENE	(G)	J 669
CH ₂ ClF (G)	136	CHLOROFLUOROMETHANE	(G)	J 670
CH ₂ Cl ₂ (G)	137	DICHLOROMETHANE	(G)	J1268
CH ₂ F ₂ (G)	138	DIFLUOROMETHANE	(G)	J1269
CH ₂ O (G)	139	FORMALDEHYDE	(G)	J 361
CH ₃ (G)	140	METHYL	(G)	J 669
CH ₃ Cl (G)	141	CHLOROMETHANE	(G)	J 964
CH ₃ Cl ₃ Si (G)	142	TRICHLOROMETHYLSILANE	(G)	J1260
CH ₃ F (G)	143	FLUOROMETHANE	(G)	J1263
CH ₃ F ₃ Si (G)	144	TRIFLUOROMETHYLSILANE	(G)	J1260
CH ₄ (G)	145	METHANE	(G)	J 361
CIN (G)	702	CYANOGEN IODIDE	(G)	J 669
CKN (C)	657	POTASSIUM CYANIDE	(C)	J 366
CKN (L)	658	POTASSIUM CYANIDE	(L)	J 366
CKN (G)	659	POTASSIUM CYANIDE	(G)	J 366
CK ₂ O ₃ (C)	526	POTASSIUM CARBONATE	(C)	J 366
CK ₂ O ₃ (L)	527	POTASSIUM CARBONATE	(L)	J 366
CLi ₂ O ₃ (C)	876	LITHIUM CARBONATE	(C)	J 366
CLi ₂ O ₃ (L)	877	LITHIUM CARBONATE	(L)	J 366
CMgO ₃ (C)	146	MAGNESIUM CARBONATE	(C)	J1266
CN (G)	147	CYANO	(G)	J 669
CN ⁺ (G)	1075	CYANO UNIPOSITIVE ION	(G)	J1270
CN ⁻ (G)	1076	CYANO UNINEGATIVE ION	(G)	J1270
CNNA (C)	148	SODIUM CYANIDE	(C)	J 366
CNNA (L)	149	SODIUM CYANIDE	(L)	J 366
CNNA (G)	150	SODIUM CYANIDE	(G)	J 366
CNO (G)	1109	NCO RADICAL	(G)	J1270
CN ₂ (G)	899	CNN RADICAL	(G)	J 666
CN ₂ (G)	900	NCN RADICAL	(G)	J1270
CNA ₂ O ₃ (C)	151	SODIUM CARBONATE	(C)	J 366

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
CNA2O3 (L)	152	SODIUM CARBONATE	(L)	J 366
CO (G)	153	CARBON MONOXIDE	(G)	J 965
COS (G)	154	CARBON OXYSULFIDE	(G)	J 361
CO2 (G)	155	CARBON DIOXIDE	(G)	J 965
CO2- (G)	901	CARBON DIOXIDE UNINEGATIVE ION	(G)	J1266
CP (G)	156	CARBON PHOSPHIDE	(G)	J 662
CS (G)	157	CARBON MONOSULFIDE	(G)	J1262
CS2 (G)	158	CARBON DISULFIDE	(G)	J 661
CSI (G)	968	SILICON CARBIDE	(G)	J 367
CSI (C)	159	SILICON CARBIDE, ALPHA	(C)	J 367
CSI (L)	732	SILICON CARBIDE	(L)	J1262
CSI (C)	967	SILICON CARBIDE, BETA	(C)	J 367
CSI2 (G)	969	DISILICON CARBIDE	(G)	J 367
CTI (C)	160	TITANIUM CARBIDE	(C)	J 668
CTI (L)	161	TITANIUM CARBIDE	(L)	J 668
CZR (C)	598	ZIRCONIUM CARBIDE	(C)	J1264
CZR (L)	599	ZIRCONIUM CARBIDE	(L)	J1264
C2 (G)	162	CARBON, DIATOMIC	(G)	J1269
C2- (G)	902	CARBON DIMERIC UNINEGATIVE ION	(G)	J1269
C2BE (G)	87	BERYLLIUM CARBIDE	(G)	J1263
C2CL2 (G)	1049	DICHLOROACETYLENE	(G)	J1268
C2CL4 (G)	992	TETRACHLOROETHYLENE	(G)	J 967
C2CL6 (G)	993	PERCHLOROETHANE	(G)	J 967
C2F2 (G)	163	DIFLUOROACETYLENE	(G)	J1267
C2F3N (G)	1081	TRIFLUOROACETONITRILE	(G)	J1269
C2F4 (G)	164	TETRAFLUOROETHYLENE	(G)	J 669
C2F6 (G)	569	HEXAFLUOROETHANE	(G)	J 669
C2H (G)	952	CCH RADICAL	(G)	J1266
C2HCL (G)	1050	CHLOROACETYLENE	(G)	J1268
C2HF (G)	1002	MONOFLUOROACETYLENE	(G)	J1267
C2H2 (G)	165	ACETYLENE	(G)	J 361
C2H4 (G)	166	ETHYLENE	(G)	J 965
C2H4O (G)	167	ETHYLENE OXIDE	(G)	J 965
C2K2N2 (G)	660	POTASSIUM CYANIDE, DIMERIC	(G)	J 366
C2LI2 (C)	168	LITHIUM CARBIDE	(C)	J1260
C2MG (C)	169	MAGNESIUM CARBIDE	(C)	J1260
C2N (G)	970	CNC RADICAL	(G)	J 367
C2N2 (G)	170	CYANOGEN	(G)	J 361
C2N2NA2 (G)	878	SODIUM CYANIDE DIMERIC	(G)	J 366
C2O (G)	903	CCO RADICAL	(G)	J 966
C2SI (G)	971	SILICON DICARBIDE	(G)	J 367
C3 (G)	171	CARBON, TRIATOMIC	(G)	J1269
C3AL4 (C)	36	ALUMINUM CARBIDE	(C)	J 965
C3MG2 (C)	172	MAGNESIUM CARBIDE	(C)	J1260
C3O2 (G)	173	CARBON SUBOXIDE	(G)	J 668
C4 (G)	174	CARBON, TETRATOMIC	(G)	J1269
C4H12SI (G)	175	TETRAMETHYLSILANE	(G)	J1260
C4N2 (G)	176	CARBON SUBNITRIDE	(G)	J 361
C5 (G)	177	CARBON, PENTATOMIC	(G)	J1269
CA (C)	1052	CALCIUM, ALPHA	(C)	J1268

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
CA (C)	1053	CALCIUM, BETA	(C)	J 1268
CA (L)	1054	CALCIUM	(L)	J 1268
CA (G)	1055	CALCIUM	(G)	J 1268
CA+ (G)	1110	CALCIUM UNIPOSITIVE ION	(G)	J 1270
CACL (G)	1087	CALCIUM MONOCHLORIDE	(G)	J 670
CACL2 (C)	1088	CALCIUM CHLORIDE	(C)	J 670
CACL2 (L)	1089	CALCIUM CHLORIDE	(L)	J 670
CACL2 (G)	1090	CALCIUM CHLORIDE	(G)	J 670
CAF (G)	1056	CALCIUM MONOFLUORIDE	(G)	J 1268
CAF2 (C)	1057	CALCIUM DIFLUORIDE	(C)	J 1268
CAF2 (L)	1058	CALCIUM DIFLUORIDE	(L)	J 1268
CAF2 (G)	1059	CALCIUM DIFLUORIDE	(G)	J 1268
CAHO (G)	1091	CALCIUM MONOHYDROXIDE	(G)	J 670
CAHO+ (G)	1092	CALCIUM MONOHYDROXIDE UNIPOS. ION	(G)	J 670
CAO (C)	1125	CALCIUM OXIDE	(C)	J 671
CAO (L)	1126	CALCIUM OXIDE	(L)	J 671
CL (G)	178	CHLORINE, MONATOMIC	(G)	J 361
CL- (G)	847	CHLORINE UNINEGATIVE ION	(G)	J 665
CL+ (G)	846	CHLORINE UNIPOSITIVE ION	(G)	J 665
CLCS (C)	1030	CESIUM MONOCHLORIDE	(C)	J 668
CLCS (L)	1031	CESIUM MONOCHLORIDE	(L)	J 668
CLCS (G)	1032	CESIUM MONOCHLORIDE	(G)	J 668
CLCU (C)	879	CUPROUS CHLORIDE	(C)	J 366
CLCU (L)	880	COPPER MONOCHLORIDE	(L)	J 366
CLCU (G)	881	COPPER MONOCHLORIDE	(G)	J 366
CLF (G)	179	CHLORINE FLUORIDE	(G)	J 965
CLFLI2 (G)	180	LITHIUM CHLOROFLUORIDE	(G)	J 1260
CLFMG (G)	181	MAGNESIUM CHLOROFLUORIDE	(G)	J 366
CLFO2S (G)	1127	SULFURYL CHLORIDE FLUORIDE	(G)	J 671
CLFO3 (G)	182	PERCHLORYL FLUORIDE	(G)	J 361
CLF2OP (G)	760	PHOSPHORYL DIFLUOROCHLORIDE	(G)	J 363
CLF3 (G)	183	CHLORINE TRIFLUORIDE	(G)	J 965
CLF3SI (G)	184	CHLOROTRIFLUOROSILANE	(G)	J 1260
CLF5 (G)	904	CHLORINE PENTAFLUORIDE	(G)	J 666
CLFE (G)	848	IRON MONOCHLORIDE	(G)	J 665
CLH (G)	185	HYDROGEN CHLORIDE	(G)	J 964
CLHO (G)	186	HYDROGEN OXYCHLORIDE	(G)	J 661
CLH3SI (G)	187	CHLOROSILANE	(G)	J 1260
CLH4N (C)	188	AMMONIUM CHLORIDE	(C)	J 965
CLH4NO4 (C)	189	AMMONIUM PERCHLORATE	(C)	J 1262
CLHG (G)	528	MERCURY MONOCHLORIDE	(G)	J 1261
CLI (C)	600	IODINE CHLORIDE	(C)	J 965
CLI (G)	602	IODINE CHLORIDE	(G)	J 965
CLK (C)	529	POTASSIUM CHLORIDE	(C)	J 366
CLK (L)	530	POTASSIUM CHLORIDE	(L)	J 366
CLK (G)	531	POTASSIUM CHLORIDE	(G)	J 366
CLKO4 (C)	777	POTASSIUM PERCHLORATE	(C)	J 663
CLLI (C)	190	LITHIUM CHLORIDE	(C)	J 662
CLLI (L)	191	LITHIUM CHLORIDE	(L)	J 662
CLLI (G)	192	LITHIUM CHLORIDE	(G)	J 662

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
CLLiO (G)	193	LITHIUM OXYCHLORIDE	(G)	J1260
CLLiO4 (C)	194	LITHIUM PERCHLORATE	(C)	J 364
CLLiO4 (L)	195	LITHIUM PERCHLORATE	(L)	J 364
CLMG (G)	196	MAGNESIUM MONOCHLORIDE	(G)	J 366
CLMG+ (G)	1033	MAGNESIUM MONOCHLORIDE UNIPOS ION	(G)	J 668
CLNO (G)	197	NITROSYL CHLORIDE	(G)	J1265
CLNO2 (G)	733	NITRYL CHLORIDE	(G)	J1265
CLNA (C)	198	SODIUM CHLORIDE	(C)	J 964
CLNA (L)	199	SODIUM CHLORIDE	(L)	J 964
CLNA (G)	200	SODIUM CHLORIDE	(G)	J1264
CLNAO4 (C)	778	SODIUM PERCHLORATE	(C)	J 663
CLO (G)	201	CHLORINE MONOXIDE	(G)	J 661
CLOTI (G)	797	TITANIUM OXYCHLORIDE	(G)	J 963
CLO2 (G)	202	CHLORINE DIOXIDE	(G)	J 361
CLP (G)	779	PHOSPHORUS MONOCHLORIDE	(G)	J1263
CLPB (G)	603	LEAD MONOCHLORIDE	(G)	J 662
CLSI (G)	203	SILICON MONOCHLORIDE	(G)	J 967
CLTI (G)	204	TITANIUM MONOCHLORIDE	(G)	J1268
CLW (G)	979	TUNGSTEN MONOCHLORIDE	(G)	J 667
CLZR (G)	458	ZIRCONIUM MONOCHLORIDE	(G)	J1269
CL2 (R)	205	CHLORINE, DIATOMIC	(R)	J 965
CL2CS2 (G)	1034	CESIUM MONOCHLORIDE DIMER	(G)	J 668
CL2CU (C)	882	COPPER DICHLORIDE	(C)	J 366
CL2FOP (G)	761	PHOSPHORYL FLUORODICHLORIDE	(G)	J 363
CL2FE (C)	849	IRON DICHLORIDE	(C)	J1270
CL2FE (L)	850	IRON DICHLORIDE	(L)	J1270
CL2FE (G)	851	IRON DICHLORIDE	(G)	J1270
CL2H2SI (G)	206	DICHLOROSILANE	(G)	J1260
CL2HG (C)	604	MERCURY DICHLORIDE	(C)	J 362
CL2HG (L)	605	MERCURY DICHLORIDE	(L)	J 362
CL2HG (G)	606	MERCURY DICHLORIDE	(G)	J 362
CL2HG2 (C)	532	MERCURY CHLORIDE, DIMERIC	(C)	J1261
CL2K2 (G)	533	POTASSIUM CHLORIDE, DIMERIC	(G)	J 366
CL2LI2 (G)	207	LITHIUM CHLORIDE, DIMERIC	(G)	J 662
CL2MG (C)	208	MAGNESIUM CHLORIDE	(C)	J1265
CL2MG (L)	209	MAGNESIUM CHLORIDE	(L)	J1265
CL2MG (G)	210	MAGNESIUM CHLORIDE	(G)	J1269
CL2MOO2 (G)	1093	MOLYBDENUM DIOXYDICHLORIDE	(G)	J 670
CL2NA2 (G)	828	SODIUM CHLORIDE DIMERIC	(G)	J1264
CL2O (G)	211	DICHLORINE MONOXIDE	(G)	J1265
CL2OTI (G)	798	TITANIUM OXYDICHLORIDE	(G)	J 963
CL2O2S (G)	1128	SULFURYL CHLORIDE	(G)	J 671
CL2O2W (G)	704	TUNGSTEN DIOXYDICHLORIDE	(G)	J 367
CL2PB (C)	607	LEAD DICHLORIDE	(C)	J 362
CL2PB (L)	608	LEAD DICHLORIDE	(L)	J 362
CL2PB (G)	609	LEAD DICHLORIDE	(G)	J 362
CL2SI (G)	212	SILICON DICHLORIDE	(G)	J1270
CL2TI (G)	215	TITANIUM DICHLORIDE	(G)	J1268
CL2TI (C)	213	TITANIUM DICHLORIDE	(C)	J 668
CL2W (C)	705	TUNGSTEN DICHLORIDE	(C)	J1266

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
CL2W (G)	706	TUNGSTEN DICHLORIDE	(G)	J 1266
CL2ZR (C)	216	ZIRCONIUM DICHLORIDE	(C)	J 1269
CL2ZR (L)	217	ZIRCONIUM DICHLORIDE	(L)	J 1269
CL2ZR (G)	218	ZIRCONIUM DICHLORIDE	(G)	J 1269
CL3CU3 (G)	883	COPPER MONOCHLORIDE TRIMERIC	(G)	J 366
CL3FSI (G)	219	TRICHLOROFLUOROSILANE	(G)	J 1260
CL3FE (C)	852	IRON TRICHLORIDE	(C)	J 665
CL3FE (L)	853	IRON TRICHLORIDE	(L)	J 665
CL3FE (G)	854	IRON TRICHLORIDE	(G)	J 665
CL3HSI (G)	220	TRICHLOROSILANE	(G)	J 1260
CL3LI3 (G)	221	LITHIUM CHLORIDE, TRIMERIC	(G)	J 662
CL3OP (G)	222	PHOSPHORYL CHLORIDE	(G)	J 662
CL3P (G)	223	PHOSPHORUS TRICHLORIDE	(G)	J 670
CL3PS (G)	224	THIOPHOSPHORYL CHLORIDE	(G)	J 962
CL3SI (G)	1082	SILICON TRICHLORIDE	(G)	J 1269
CL3TI (C)	225	TITANIUM TRICHLORIDE	(C)	J 668
CL3TI (G)	226	TITANIUM TRICHLORIDE	(G)	J 1268
CL3ZR (G)	229	ZIRCONIUM TRICHLORIDE	(G)	J 1269
CL3ZR (C)	227	ZIRCONIUM TRICHLORIDE	(C)	J 1269
CL4FE2 (G)	1111	IRON DICHLORIDE DIMER	(G)	J 1270
CL4MG2 (G)	1083	MAGNESIUM DICHLORIDE, DIMERIC	(G)	J 1269
CL4MO (L)	1061	MOLYBDENUM TETRACHLORIDE	(L)	J 1268
CL4MO (C)	1060	MOLYBDENUM TETRACHLORIDE	(C)	J 1268
CL4MO (G)	1062	MOLYBDENUM TETRACHLORIDE	(G)	J 1268
CL4OW (G)	708	TUNGSTEN OXYTETRACHLORIDE	(G)	J 367
CL4PB (G)	610	LEAD TETRACHLORIDE	(G)	J 662
CL4SI (G)	230	SILICON TETRACHLORIDE	(G)	J 1270
CL4TI (G)	231	TITANIUM TETRACHLORIDE	(G)	J 1267
CL4TI (L)	479	TITANIUM TETRACHLORIDE	(L)	J 1267
CL4W (C)	709	TUNGSTEN TETRACHLORIDE	(C)	J 1266
CL4W (G)	710	TUNGSTEN TETRACHLORIDE	(G)	J 1266
CL4ZR (G)	234	ZIRCONIUM TETRACHLORIDE	(G)	J 1269
CL4ZR (C)	232	ZIRCONIUM TETRACHLORIDE	(C)	J 1269
CL5MO (C)	1063	MOLYBDENUM PENTACHLORIDE	(C)	J 1268
CL5MO (L)	1064	MOLYBDENUM PENTACHLORIDE	(L)	J 1268
CL5MO (G)	1065	MOLYBDENUM PENTACHLORIDE	(G)	J 1268
CL5P (G)	235	PHOSPHORUS PENTACHLORIDE	(G)	J 962
CL5W (C)	734	TUNGSTEN PENTACHLORIDE	(C)	J 1266
CL5W (L)	735	TUNGSTEN PENTACHLORIDE	(L)	J 1266
CL5W (G)	736	TUNGSTEN PENTACHLORIDE	(G)	J 1266
CL6FE2 (G)	855	IRON TRICHLORIDE, DIMERIC	(G)	J 665
CL6MO (C)	1066	MOLYBDENUM HEXACHLORIDE	(C)	J 1268
CL6MO (G)	1067	MOLYBDENUM HEXACHLORIDE	(G)	J 1268
CL6W (C)	737	TUNGSTEN HEXACHLORIDE ALPHA	(C)	J 1266
CL6W (L)	738	TUNGSTEN HEXACHLORIDE	(L)	J 1266
CL6W (G)	739	TUNGSTEN HEXACHLORIDE	(G)	J 1266
CL6W (C)	953	TUNGSTEN HEXACHLORIDE, BETA	(C)	J 1266
CL10W2 (G)	954	TUNGSTEN PENTACHLORIDE DIMERIC	(G)	J 1266
CO (C)	995	COBALT	(C)	J 967
CO (L)	996	COBALT	(L)	J 967

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
CO (G)	997	COBALT MONATOMIC	(G)	J 967
CO+ (G)	998	COBALT UNIPOSITIVE ION	(G)	J 967
COF2 (C)	1094	COBALT DIFLUORIDE	(C)	J 670
COF2 (L)	1095	COBALT DIFLUORIDE	(L)	J 670
COF2 (G)	1096	COBALT DIFLUORIDE	(G)	J 670
COP3 (C)	1112	COBALT TRIFLUORIDE	(C)	J 671
COO (C)	1113	COBALT MONOXIDE	(C)	J1270
CO3O4 (C)	1114	TRICOBALT TETRAOXIDE	(C)	J1270
CS (C)	1036	CESIUM	(C)	J 668
CS (L)	1037	CESIUM	(L)	J 668
CS (G)	1038	CESIUM MONATOMIC	(G)	J 668
CS+ (G)	1039	CESIUM UNIPOSITIVE ION	(G)	J1270
CSF (C)	1040	CESIUM MONOFLUORIDE	(C)	J 668
CSF (L)	1041	CESIUM MONOFLUORIDE	(L)	J 668
CSF (G)	1042	CESIUM MONOFLUORIDE	(G)	J 668
CSHO (L)	1130	CESIUM HYDROXIDE	(L)	J 671
CSHO (G)	1131	CESIUM HYDROXIDE	(G)	J 671
CSO (G)	1068	CESIUM MONOXIDE	(G)	J1269
CS2 (G)	1043	CESIUM DIATOMIC	(G)	J 668
CS2F2 (G)	1044	CESIUM MONOFLUORIDE DIMER	(G)	J 668
CS2O (G)	1069	DICESIUM MONOXIDE	(G)	J1268
CU (C)	596	COPPER	(C)	J1265
CU (L)	636	COPPER	(L)	J1265
CU (G)	673	COPPER MONATOMIC	(G)	J1265
CU+ (G)	683	COPPER UNIPOSITIVE ION	(G)	J1265
CUF (C)	905	COPPER MONOFLUORIDE	(C)	J 666
CUF (G)	906	COPPER MONOFLUORIDE	(G)	J 666
CUF2 (C)	907	COPPER DIFLUORIDE	(C)	J 666
CUF2 (L)	908	COPPER DIFLUORIDE	(L)	J 666
CUF2 (G)	909	COPPER DIFLUORIDE	(G)	J 666
CUH2O2 (C)	910	COPPER HYDROXIDE	(C)	J 666
CUO (C)	911	CUPRIC OXIDE	(C)	J 666
CUO (G)	936	COPPER MONOXIDE	(G)	J 670
CUO4S (C)	912	COPPER SULFATE	(C)	J 666
CU2 (G)	937	COPPER DIATOMIC	(G)	J 966
CU2O (C)	913	CUPROUS OXIDE	(C)	J 666
CU2O (L)	914	DICOPPER MONOXIDE	(L)	J 666
CU2O5S (C)	915	BASIC COPPER SULFATE	(C)	J 666
E- (R)	831	ELECTRON GAS	(R)	J 365
F (G)	236	FLUORINE, MONATOMIC	(G)	J 965
F- (G)	856	FLUORINE UNINEGATIVE ION	(G)	J 665
FFE (G)	573	IRON MONOFLUORIDE	(G)	J 965
FH (G)	237	HYDROGEN FLUORIDE	(G)	J1268
FHO (G)	238	HYDROGEN OXYFLUORIDE	(G)	J 965
FH3SI (G)	239	FLUOROSILANE	(G)	J1260
FHG (G)	534	MERCURY MONOFLUORIDE	(G)	J1261
FI (G)	611	IODINE FLUORIDE	(G)	J1265
FK (C)	535	POTASSIUM FLUORIDE	(C)	J 669
FK (L)	536	POTASSIUM FLUORIDE	(L)	J 669
FK (G)	537	POTASSIUM FLUORIDE	(G)	J 669

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
FLI (C)	240	LITHIUM FLUORIDE	(C)	J1268
FLI (L)	241	LITHIUM FLUORIDE	(L)	J1268
FLI (G)	242	LITHIUM FLUORIDE	(G)	J1268
FLIO (G)	243	LITHIUM OXYFLUORIDE	(G)	J 965
FMG (G)	244	MAGNESIUM MONOFLUORIDE	(G)	J 367
FN (G)	245	NITROGEN MONOFLUORIDE	(G)	J 665
FNO (G)	246	NITROSYL FLUORIDE	(G)	J 661
FNO2 (G)	612	NITRYL FLUORIDE	(G)	J1265
FNO3 (G)	762	FLUORINE NITRATE	(G)	J 363
FNA (C)	247	SODIUM FLUORIDE	(C)	J1268
FNA (L)	248	SODIUM FLUORIDE	(L)	J1268
FNA (G)	249	SODIUM FLUORIDE	(G)	J1268
FO (G)	250	FLUORINE MONOXIDE	(G)	J1266
POTI (G)	799	TITANIUM OXYFLUORIDE	(G)	J 963
FO2 (G)	938	DIOXYGEN FLUORIDE	(G)	J 966
FP (G)	251	PHOSPHORUS MONOFLUORIDE	(G)	J 962
FPS (G)	252	PHOSPHORUS THIOFLUORIDE	(G)	J 962
FPP (G)	613	LEAD MONOFLUORIDE	(G)	J 662
FSI (G)	253	SILICON MONOFLUORIDE	(G)	J1269
FTI (G)	447	TITANIUM MONOFLUORIDE	(G)	J1267
FW (G)	711	TUNGSTEN MONOFLUORIDE	(G)	J 367
FZR (G)	459	ZIRCONIUM MONOFLUORIDE	(G)	J 669
F2 (R)	254	FLUORINE, DIATOMIC	(R)	J1260
F2FE (G)	228	IRON DIFLUORIDE	(G)	J 965
F2FE (L)	214	IRON DIFLUORIDE	(L)	J 965
F2FE (C)	575	IRON DIFLUORIDE	(C)	J 965
F2HK (C)	661	POTASSIUM BIFLUORIDE	(C)	J 671
F2HK (L)	662	POTASSIUM BIFLUORIDE	(L)	J 671
F2H2SI (G)	255	DIFLUOROSILANE	(G)	J1260
F2HG (G)	538	MERCURY DIFLUORIDE	(G)	J1261
F2HG (C)	614	MERCURY DIFLUORIDE	(C)	J 362
F2HG (L)	615	MERCURY DIFLUORIDE	(L)	J 362
F2HG2 (G)	616	MERCURY MONOFLUORIDE, DIMERIC	(G)	J 362
F2K- (G)	1070	POTASSIUM DIFLUORIDE UNINEG. ION	(G)	J1268
F2K2 (G)	539	POTASSIUM FLUORIDE, DIMERIC	(G)	J 669
F2LI- (G)	1071	LITHIUM DIFLUORIDE UNINEG. ION	(G)	J1268
F2LI2 (G)	256	LITHIUM FLUORIDE, DIMERIC	(G)	J1268
F2MG (C)	257	MAGNESIUM FLUORIDE	(C)	J 366
F2MG (L)	258	MAGNESIUM FLUORIDE	(L)	J 366
F2MG (G)	259	MAGNESIUM FLUORIDE	(G)	J 366
F2N (G)	740	NITROGEN DIFLUORIDE	(G)	J 364
F2N2 (G)	866	CIS-DIFLUORODIAZIRINE	(G)	J1265
F2N2 (G)	867	TRANS-DIFLUORODIAZIRINE	(G)	J1265
F2NA- (G)	1072	SODIUM DIFLUORIDE UNINEG. ION	(G)	J1268
F2NA2 (G)	816	SODIUM FLUORIDE DIMERIC	(G)	J1268
F2O (G)	260	FLUORINE OXIDE	(G)	J1269
F2OS (G)	261	THIONYL FLUORIDE	(G)	J 965
F2OSI (G)	800	SILICON OXYDIFLUORIDE	(G)	J 963
F2OTI (G)	801	TITANIUM OXYDIFLUORIDE	(G)	J 963
F2O2S (G)	262	SULFURYL FLUORIDE	(G)	J 671

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
F2P (G)	263	PHOSPHORUS DIFLUORIDE	(G)	J 662
F2PB (C)	617	LEAD DIFLUORIDE	(C)	J 669
F2PB (L)	618	LEAD DIFLUORIDE	(L)	J 669
F2PB (G)	619	LEAD DIFLUORIDE	(G)	J 669
F2SI (G)	264	SILICON DIFLUORIDE	(G)	J1268
F2TI (G)	267	TITANIUM DIFLUORIDE	(G)	J1268
F2ZR (C)	268	ZIRCONIUM DIFLUORIDE	(C)	J 669
F2ZR (L)	269	ZIRCONIUM DIFLUORIDE	(L)	J 669
F2ZR (G)	270	ZIRCONIUM DIFLUORIDE	(G)	J1269
F3FE (G)	265	IRON TRIFLUORIDE	(G)	J 965
F3FE (C)	233	IRON TRIFLUORIDE	(C)	J 965
F3HSI (G)	271	TRIFLUOROSILANE	(G)	J1260
F3LI3 (G)	272	LITHIUM FLUORIDE, TRIMERIC	(G)	J1268
F3N (G)	273	NITROGEN TRIFLUORIDE	(G)	J 669
F3NO (G)	1097	TRIFLUORAMINE OXIDE	(G)	J 670
F3OP (G)	763	PHOSPHORYL FLUORIDE	(G)	J1269
F3P (G)	274	PHOSPHORUS TRIFLUORIDE	(G)	J1269
F3PS (G)	764	THIOPHOSPHORYL FLUORIDE	(G)	J1269
F3SI (G)	802	SILICON TRIFLUORIDE	(G)	J 670
F3TI (G)	277	TITANIUM TRIFLUORIDE	(G)	J 668
F3TI (C)	275	TITANIUM TRIFLUORIDE	(C)	J 668
F3ZR (C)	278	ZIRCONIUM TRIFLUORIDE	(C)	J 669
F3ZR (G)	280	ZIRCONIUM TRIFLUORIDE	(G)	J1269
F4MG2 (G)	817	MAGNESIUM DIFLUORIDE DIMERIC	(G)	J 366
F4MOO (G)	1098	MOLYBDENUM OXYTETRAFLUORIDE	(G)	J 670
F4N2 (G)	809	TETRAFLUOROXYDRAZINE	(G)	J 364
F4OW (G)	665	TUNGSTEN OXYTETRAFLUORIDE	(G)	J 367
F4PB (G)	666	LEAD TETRAFLUORIDE	(G)	J 662
F4S (G)	266	SULFUR TETRAFLUORIDE	(G)	J1269
F4SI (G)	281	SILICON TETRAFLUORIDE	(G)	J 963
F4TI (C)	282	TITANIUM TETRAFLUORIDE	(C)	J 967
F4TI (G)	283	TITANIUM TETRAFLUORIDE	(G)	J 967
F4ZR (G)	286	ZIRCONIUM TETRAFLUORIDE	(G)	J 669
F4ZR (C)	284	ZIRCONIUM TETRAFLUORIDE	(C)	J 669
F5I (G)	620	IODINE PENTAFLUORIDE	(G)	J1269
F5P (G)	780	PHOSPHORUS PENTAFLUORIDE	(G)	J1269
F6MO (L)	1099	MOLYBDENUM HEXAFLUORIDE	(L)	J 670
F6MO (G)	1100	MOLYBDENUM HEXAFLUORIDE	(G)	J 670
F6S (G)	287	SULFUR HEXAFLUORIDE	(G)	J 965
F6W (L)	712	TUNGSTEN HEXAFLUORIDE	(L)	J 367
F6W (G)	713	TUNGSTEN HEXAFLUORIDE	(G)	J 367
F7I (G)	621	IODINE HEPTAFLUORIDE	(G)	J1269
FE (G)	833	IRON	(G)	J 365
FE (C)	836	IRON	(C)	J 365
FE (L)	837	IRON	(L)	J 365
FEH2O2 (C)	916	FEROUS HYDROXIDE	(C)	J 666
FEH2O2 (G)	917	IRON DIHYDROXIDE	(G)	J1266
FEH3O3 (C)	918	FERRIC HYDROXIDE	(C)	J 666
FEI2 (C)	939	IRON DIIODIDE	(C)	J 966
FEI2 (L)	940	IRON DIIODIDE	(L)	J 966

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
FEI2 (G)	941	IRON DIIODIDE	(G)	J 966
FEO (C)	857	WUSTITE	(C)	J 665
FEO (C)	858	IRON OXIDE	(C)	J 665
FEO (L)	859	IRON OXIDE	(L)	J 665
FEO (G)	860	IRON OXIDE	(G)	J 966
FE04S (C)	919	FERROUS SULFATE	(C)	J 666
FE2I4 (G)	942	IRON DIIODIDE DIMERIC	(G)	J 966
FE2O3 (C)	861	HEMATITE	(C)	J 665
FE2O12S3 (C)	920	FERRIC SULFATE	(C)	J 666
FE3O4 (C)	862	MAGNETITE	(C)	J 665
H (G)	288	HYDROGEN, MONATOMIC	(G)	J 965
H- (G)	276	HYDROGEN UNINEGATIVE ION	(G)	J 965
H+ (G)	921	PROTON GAS	(G)	J 666
HHG (G)	781	MERCURY MONOHYDRIDE	(G)	J 663
HI (G)	481	HYDROGEN IODIDE	(G)	J 961
HK (C)	765	POTASSIUM HYDRIDE	(C)	J 363
HK (G)	766	POTASSIUM HYDRIDE	(G)	J 363
HKO (C)	540	POTASSIUM HYDROXIDE	(C)	J1270
HKO (L)	541	POTASSIUM HYDROXIDE	(L)	J1270
HKO (G)	622	POTASSIUM HYDROXIDE	(G)	J1270
HLI (G)	289	LITHIUM HYDRIDE	(G)	J 967
HLI (C)	714	LITHIUM HYDRIDE	(C)	J 967
HLI (L)	715	LITHIUM HYDRIDE	(L)	J 967
HLIO (C)	290	LITHIUM HYDROXIDE	(C)	J 671
HLIO (L)	291	LITHIUM HYDROXIDE	(L)	J 671
HLIO (G)	292	LITHIUM HYDROXIDE	(G)	J 671
HMG (G)	293	MAGNESIUM MONOHYDRIDE	(G)	J1266
HMGO (G)	294	MAGNESIUM MONOHYDROXIDE	(G)	J 667
HMGO+ (G)	1045	MAGNESIUM HYDROXIDE UNIPOS. ION	(G)	J 668
HN (G)	295	IMIDOGEN	(G)	J1265
HNO (G)	767	NITROXYL	(G)	J 363
HNO2 (G)	782	NITROUS ACID, CIS-	(G)	J 663
HNO2 (G)	783	NITROUS ACID, TRANS-	(G)	J 663
HNO3 (G)	784	NITRIC ACID	(G)	J 663
HNA (G)	296	SODIUM HYDRIDE	(G)	J 363
HNA (C)	768	SODIUM HYDRIDE	(C)	J 363
HNAO (C)	297	SODIUM HYDROXIDE	(C)	J1270
HNAO (L)	298	SODIUM HYDROXIDE	(L)	J1270
HNAO (G)	299	SODIUM HYDROXIDE	(G)	J1270
HO (G)	300	HYDROXYL	(G)	J1270
HO- (G)	885	HYDROXYL UNINEGATIVE ION	(G)	J1270
HO+ (G)	884	HYDROXYL UNIPOSITIVE ION	(G)	J1270
HO2 (G)	810	HYDROPEROXYL	(G)	J 364
HP (G)	301	PHOSPHORUS MONOHYDRIDE	(G)	J 667
HPB (G)	623	LEAD MONOHYDRIDE	(G)	J 662
HS (G)	302	SULFUR MONOHYDRIDE	(G)	J 667
HSI (G)	303	SILICON MONOHYDRIDE	(G)	J1269
HZR (G)	785	ZIRCONIUM HYDRIDE	(G)	J 663
H2 (R)	304	HYDROGEN, DIATOMIC	(R)	J 361
H2K2O2 (G)	667	POTASSIUM HYDROXIDE, DIMERIC	(G)	J1270

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
H2LI2O2 (G)	305	LITHIUM HYDROXIDE, DIMERIC	(G)	J 671
H2MG (C)	306	MAGNESIUM HYDRIDE	(C)	J 963
H2MGO2 (C)	307	MAGNESIUM DIHYDROXIDE	(C)	J 367
H2MGO2 (G)	980	MAGNESIUM HYDROXIDE	(G)	J 667
H2MOO4 (G)	1101	MOLYBDIC ACID	(G)	J 670
H2N (G)	308	AMIDOGEN	(G)	J1265
H2N2 (G)	868	DI-IMIDE	(G)	J1265
H2NA2O2 (G)	886	SODIUM HYDROXIDE DIMERIC	(G)	J1270
H2O (G)	309	WATER	(G)	J 361
H2O2 (G)	310	HYDROGEN PEROXIDE	(G)	J1260
H2O4S (L)	311	SULFURIC ACID	(L)	J1266
H2O4S (G)	955	SULFURIC ACID	(G)	J1266
H2O4W (G)	742	TUNGSTIC ACID	(G)	J 367
H2P (G)	312	PHOSPHOROUS HYDRIDE	(G)	J 363
H2S (G)	313	HYDROGEN SULFIDE	(G)	J1265
H2TI (C)	786	TITANIUM HYDRIDE	(C)	J 663
H3N (G)	314	AMMONIA	(G)	J 965
H3O+ (G)	922	HYDRONIUM ION	(G)	J 666
H3O4P (C)	315	PHOSPHORIC ACID	(C)	J 662
H3O4P (L)	316	PHOSPHORIC ACID	(L)	J 662
H3P (G)	317	PHOSPHINE	(G)	J 662
H4IN (C)	624	AMMONIUM IODIDE	(C)	J 362
H4N2 (G)	318	HYDRAZINE	(G)	J1265
H4SI (G)	319	SILANE	(G)	J1260
HG (L)	543	MERCURY	(L)	J1261
HG (G)	544	MERCURY	(G)	J1261
HGI (G)	545	MERCURY MONOIODIDE	(G)	J1261
HGI2 (C)	625	MERCURY DIIODIDE	(C)	J 362
HGI2 (L)	626	MERCURY DIIODIDE	(L)	J 362
HGI2 (G)	627	MERCURY DIIODIDE	(G)	J 362
HGO (G)	981	MERCURIC OXIDE	(G)	J 667
HGO (C)	668	MERCURIC OXIDE	(C)	J 662
HG2I2 (C)	628	MERCURY MONOIODIDE, DIMERIC	(C)	J 362
HG2I2 (L)	629	MERCURY MONOIODIDE, DIMERIC	(L)	J 362
I (G)	482	IODINE, MONATOMIC	(G)	J1261
IK (C)	546	POTASSIUM IODIDE	(C)	J 667
IK (L)	547	POTASSIUM IODIDE	(L)	J 667
IK (G)	548	POTASSIUM IODIDE	(G)	J 667
ILI (C)	483	LITHIUM IODIDE	(C)	J 666
ILI (L)	484	LITHIUM IODIDE	(L)	J 666
ILI (G)	485	LITHIUM IODIDE	(G)	J 666
INO (G)	630	NITROSYL IODIDE	(G)	J1266
INA (C)	803	SODIUM IODIDE	(C)	J 963
INA (L)	804	SODIUM IODIDE	(L)	J 963
IPB (G)	631	LEAD MONOIODIDE	(G)	J 662
ITI (G)	818	TITANIUM MONOIODIDE	(G)	J1268
IZR (G)	826	ZIRCONIUM MONOIODIDE	(G)	J 964
I2 (R)	486	IODINE, DIATOMIC	(R)	J 961
I2 (G)	488	IODINE, DIATOMIC	(G)	J 961
I2K2 (G)	549	POTASSIUM IODIDE, DIMERIC	(G)	J 667

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
I2LI2 (G)	489	LITHIUM IODIDE, DIMERIC	(G)	J 666
I2PB (C)	632	LEAD DIIODIDE	(C)	J 362
I2PB (L)	633	LEAD DIIODIDE	(L)	J 362
I2PB (G)	634	LEAD DIIODIDE	(G)	J 362
I2TI (C)	551	TITANIUM DIIODIDE	(C)	J1268
I2TI (G)	552	TITANIUM DIIODIDE	(G)	J1268
I2ZR (C)	669	ZIRCONIUM DIIODIDE	(C)	J 662
I2ZR (L)	670	ZIRCONIUM DIIODIDE	(L)	J 662
I2ZR (G)	671	ZIRCONIUM DIIODIDE	(G)	J 662
I3TI (C)	553	TITANIUM TRIIODIDE	(C)	J1268
I3TI (G)	819	TITANIUM TRIIODIDE	(G)	J1268
I3ZR (C)	672	ZIRCONIUM TRIIODIDE	(C)	J 664
I3ZR (G)	820	ZIRCONIUM TRIIODIDE	(G)	J 664
I4PB (G)	674	LEAD TETRAIODIDE	(G)	J 662
I4TI (C)	554	TITANIUM TETRAIODIDE	(C)	J1268
I4TI (L)	555	TITANIUM TETRAIODIDE	(L)	J1268
I4TI (G)	556	TITANIUM TETRAIODIDE	(G)	J1268
I4ZR (C)	635	ZIRCONIUM TETRAIODIDE	(C)	J 664
I4ZR (G)	637	ZIRCONIUM TETRAIODIDE	(G)	J 664
K (L)	558	POTASSIUM	(L)	J1261
K (G)	559	POTASSIUM	(G)	J 662
K+ (G)	841	POTASSIUM UNIPOSITIVE ION	(G)	J 365
KO (G)	743	POTASSIUM MONOXIDE	(G)	J1267
KO- (G)	1003	POTASSIUM MONOXIDE UNINEG. ION	(G)	J1267
KO2 (C)	675	POTASSIUM SUPEROXIDE	(C)	J 671
K2 (G)	560	POTASSIUM, DIMERIC	(G)	J1261
K2O (C)	787	POTASSIUM OXIDE	(C)	J 663
K2O2 (C)	788	POTASSIUM PEROXIDE	(C)	J 963
LI (C)	321	LITHIUM	(C)	J 662
LI (L)	322	LITHIUM	(L)	J 662
LI (G)	323	LITHIUM	(G)	J 662
LI+ (G)	839	LITHIUM UNIPOSITIVE ION	(G)	J 365
LIN (G)	324	LITHIUM NITRIDE	(G)	J1266
LINO (G)	943	LITHIUM OXYNITRIDE	(G)	J 966
LINA0 (G)	448	LITHIUM SODIUM OXIDE	(G)	J 661
LIO (G)	325	LITHIUM MONOXIDE	(G)	J 364
LIO- (G)	1004	LITHIUM MONOXIDE UNINEGATIVE ION	(G)	J1267
LI2 (G)	326	LITHIUM, DIATOMIC	(G)	J 662
LI2O (C)	327	LITHIUM OXIDE	(C)	J 364
LI2O (L)	328	LITHIUM OXIDE	(L)	J 364
LI2O (G)	329	LITHIUM OXIDE	(G)	J 364
LI2O2 (C)	789	LITHIUM PEROXIDE	(C)	J 963
LI2O2 (G)	811	LITHIUM MONOXIDE DIMERIC	(G)	J 364
LI2O3SI (C)	490	LITHIUM METASILICATE	(C)	J 667
LI2O3SI (L)	491	LITHIUM METASILICATE	(L)	J 667
LI2O3TI (C)	449	LITHIUM METATITANATE	(C)	J 365
LI2O3TI (L)	450	LITHIUM METATITANATE	(L)	J 364
LI2O5SI2 (C)	982	LITHIUM DISILICATE	(C)	J 667
LI2O5SI2 (L)	983	LITHIUM DISILICATE	(L)	J 667
LI3N (C)	330	LITHIUM NITRIDE	(C)	J 966

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
MG (C)	332	MAGNESIUM	(C)	J 962
MG (L)	333	MAGNESIUM	(L)	J 962
MG (G)	334	MAGNESIUM, MONATOMIC	(G)	J 962
MG+ (G)	1005	MAGNESIUM UNIPOSITIVE ION	(G)	J1270
MGN (G)	812	MAGNESIUM NITRIDE	(G)	J 364
MGO (C)	335	MAGNESIUM OXIDE	(C)	J1265
MGO (G)	336	MAGNESIUM OXIDE	(G)	J1265
MGO (L)	871	MAGNESIUM OXIDE	(L)	J1265
MGO3SI (C)	337	MAGNESIUM METASILICATE	(C)	J1267
MGO3SI (L)	338	MAGNESIUM METASILICATE	(L)	J1267
MGO3TI (L)	984	MAGNESIUM METATITANATE	(L)	J 967
MGO3TI (C)	451	MAGNESIUM METATITANATE	(C)	J 667
MGO4S (C)	339	MAGNESIUM SULFATE	(C)	J 366
MGO4S (L)	340	MAGNESIUM SULFATE	(L)	J 366
MGO4W (C)	790	MAGNESIUM TUNGSTATE	(C)	J 367
MGO5TI2 (C)	452	MAGNESIUM DITITANATE	(C)	J 667
MGO5TI2 (L)	453	MAGNESIUM DITITANATE	(L)	J 667
MGS (C)	341	MAGNESIUM SULFIDE	(C)	J1260
MGS (G)	342	MAGNESIUM SULFIDE	(G)	J 671
MG2O4SI (C)	343	MAGNESIUM ORTHOSILICATE	(C)	J1267
MG2O4SI (L)	344	MAGNESIUM ORTHOSILICATE	(L)	J1267
MG2O4TI (C)	454	MAGNESIUM ORTHOTITANATE	(C)	J 667
MG2O4TI (L)	455	MAGNESIUM ORTHOTITANATE	(L)	J 667
MG2SI (C)	345	MAGNESIUM SILICIDE	(C)	J1260
MG2SI (L)	346	MAGNESIUM SILICIDE	(L)	J1260
MG3N2 (C)	347	MAGNESIUM NITRIDE	(C)	J1260
MG3O8P2 (C)	348	MAGNESIUM ORTHOPHOSPHATE	(C)	J 363
MG3O8P2 (L)	349	MAGNESIUM ORTHOPHOSPHATE	(L)	J 363
MO (C)	957	MOLYBDENUM	(C)	J1266
MO (L)	958	MOLYBDENUM	(L)	J1266
MO (G)	959	MOLYBDENUM MONATOMIC	(G)	J1266
MO+ (G)	960	MOLYBDENUM UNIPOSITIVE ION	(G)	J1266
MOO (G)	985	MOLYBDENUM MONOXIDE	(G)	J 667
MOO2 (C)	986	MOLYBDENUM DIOXIDE	(C)	J 667
MOO2 (G)	1046	MOLYBDENUM DIOXIDE	(G)	J 668
MOO3 (C)	987	MOLYBDENUM TRIOXIDE	(C)	J 667
MOO3 (L)	988	MOLYBDENUM TRIOXIDE	(L)	J 667
MOO3 (G)	1047	MOLYBDENUM TRIOXIDE	(G)	J 668
N (G)	350	NITROGEN, MONATOMIC	(G)	J 361
NO (G)	351	NITRIC OXIDE	(G)	J 663
NO+ (G)	923	NITRIC OXIDE UNIPOSITIVE ION	(G)	J 666
NO2 (G)	352	NITROGEN DIOXIDE	(G)	J 964
NO2- (G)	870	NITROGEN DIOXIDE UNINEGATIVE ION	(G)	J1265
NO3 (G)	829	NITROGEN TRIOXIDE	(G)	J1264
NP (G)	353	PHOSPHORUS NITRIDE	(G)	J 962
NS (G)	354	SULFUR NITRIDE	(G)	J 661
NSI (G)	355	SILICON NITRIDE	(G)	J 367
NSI2 (G)	973	DISILICON NITRIDE	(G)	J 367
NTI (C)	356	TITANIUM NITRIDE	(C)	J 668
NTI (L)	357	TITANIUM NITRIDE	(L)	J 668

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
NZR (C)	358	ZIRCONIUM NITRIDE	(C)	J 661
NZR (L)	359	ZIRCONIUM NITRIDE	(L)	J 661
NZR (G)	791	ZIRCONIUM NITRIDE	(G)	J 663
N2 (R)	360	NITROGEN, DIATOMIC	(R)	J 965
N2O (G)	361	NITROUS OXIDE	(G)	J1264
N2O+ (G)	1115	DINITROGEN MONOXIDE UNIPOS. ION	(G)	J1270
N2O3 (G)	362	NITROGEN TRIOXIDE	(G)	J1264
N2O4 (G)	363	NITROGEN TETROXIDE	(G)	J 964
N2O5 (G)	364	NITROGEN PENTOXIDE	(G)	J1264
N3 (G)	1116	AZIDE	(G)	J1270
N4Si3 (C)	365	SILICON NITRIDE, ALPHA	(C)	J 367
N5P3 (C)	366	TRIPHOSPHORUS PENTANITRIDE	(C)	J 367
NA (C)	368	SODIUM	(C)	J 662
NA (L)	369	SODIUM	(L)	J 662
NA (G)	370	SODIUM, MONATOMIC	(G)	J 662
NA+ (G)	840	SODIUM UNIPOSITIVE ION	(G)	J 365
NAO (G)	371	SODIUM MONOXIDE	(G)	J1267
NAO- (G)	1006	SODIUM MONOXIDE UNINEGATIVE ION	(G)	J1267
NAO2 (C)	792	SODIUM SUPEROXIDE	(C)	J 663
NA2 (G)	372	SODIUM, DIATOMIC	(G)	J 662
NA2O (C)	373	SODIUM OXIDE	(C)	J 668
NA2O (L)	374	SODIUM OXIDE	(L)	J 668
NA2O2 (C)	793	SODIUM PEROXIDE	(C)	J 668
NA2O3Si (C)	375	SODIUM METASILICATE	(C)	J 967
NA2O3Si (L)	376	SODIUM METASILICATE	(L)	J 967
NA2O4S (C)	961	SODIUM SULFATE PHASE V	(C)	J1266
NA2O4S (C)	962	SODIUM SULFATE PHASE III	(C)	J1266
NA2O4S (C)	963	SODIUM SULFATE PHASE I	(C)	J1266
NA2O4S (C)	964	SODIUM SULFATE PHASE DELTA	(C)	J1266
NA2O4S (L)	965	SODIUM SULFATE	(L)	J1266
NA2O4W (C)	989	SODIUM TUNGSTATE	(C)	J 667
NA2O5Si2 (C)	377	SODIUM DISILICATE	(C)	J 967
NA2O5Si2 (L)	378	SODIUM DISILICATE	(L)	J 967
NA2S (C)	379	SODIUM SULFIDE	(C)	J1260
NA2S (L)	380	SODIUM SULFIDE	(L)	J1260
O (G)	381	OXYGEN, MONATOMIC	(G)	J 662
O- (G)	863	OXYGEN UNINEGATIVE ION	(G)	J 665
OP (G)	382	PHOSPHORUS MONOXIDE	(G)	J 671
OPB (C)	638	LEAD OXIDE, RED	(C)	J 362
OPB (C)	639	LEAD OXIDE, YELLOW	(C)	J 362
OPB (L)	640	LEAD OXIDE	(L)	J 362
OPB (G)	641	LEAD OXIDE	(G)	J 362
OS (G)	383	SULFUR MONOXIDE	(G)	J 671
OS2 (G)	279	DISULFUR MONOXIDE	(G)	J 965
OSI (G)	384	SILICON MONOXIDE	(G)	J 967
OTI (C)	974	TITANIUM MONOXIDE, BETA	(C)	J 367
OTI (C)	385	TITANIUM MONOXIDE, ALPHA	(C)	J 367
OTI (L)	386	TITANIUM MONOXIDE	(L)	J 367
OTI (G)	387	TITANIUM MONOXIDE	(G)	J 367
OW (G)	676	TUNGSTEN MONOXIDE	(G)	J 966

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
OZR (G)	388	ZIRCONIUM MONOXIDE	(G)	J1265
O2 (R)	389	OXYGEN, DIATOMIC	(R)	J 965
O2- (G)	944	OXYGEN DIATOMIC UNINEGATIVE ION	(G)	J1266
O2P (G)	390	PHOSPHORUS DIOXIDE	(G)	J 962
O2PB (C)	642	LEAD DIOXIDE	(C)	J 362
O2S (G)	391	SULFUR DIOXIDE	(G)	J 661
O2SI (C)	392	QUARTZ	(C)	J 667
O2SI (L)	393	SILICON DIOXIDE	(L)	J 667
O2SI (G)	394	SILICON DIOXIDE	(G)	J 967
O2SI (C)	990	CRISTOBALITE, LOW	(C)	J 667
O2SI (C)	991	CRISTOBALITE, HIGH	(C)	J 667
O2TI (C)	395	TITANIUM DIOXIDE, ANATASE	(C)	J 367
O2TI (C)	396	TITANIUM DIOXIDE, RUTILE	(C)	J 367
O2TI (L)	397	TITANIUM DIOXIDE	(L)	J 367
O2TI (G)	398	TITANIUM DIOXIDE	(G)	J 367
O2W (C)	677	TUNGSTEN DIOXIDE	(C)	J 966
O2W (G)	678	TUNGSTEN DIOXIDE	(G)	J 966
O2ZR (C)	399	ZIRCONIUM DIOXIDE	(C)	J1265
O2ZR (L)	400	ZIRCONIUM DIOXIDE	(L)	J1265
O2ZR (G)	401	ZIRCONIUM DIOXIDE	(G)	J1265
O3 (G)	402	OZONE	(G)	J 661
O3PBSI (C)	864	LEAD METASILICATE	(C)	J 665
O3S (G)	403	SULFUR TRIOXIDE	(G)	J 965
O3TI2 (C)	404	DITITANIUM TRIOXIDE	(C)	J 667
O3TI2 (L)	405	DITITANIUM TRIOXIDE	(L)	J 667
O3W (C)	945	TUNGSTEN OXIDE W02.72	(C)	J 966
O3W (C)	946	TUNGSTEN OXIDE W02.90	(C)	J 966
O3W (C)	947	TUNGSTEN OXIDE W02.96	(C)	J 966
O3W (C)	679	TUNGSTEN TRIOXIDE	(C)	J 966
O3W (L)	680	TUNGSTEN TRIOXIDE	(L)	J 966
O3W (G)	681	TUNGSTEN TRIOXIDE	(G)	J 966
O4PB2SI (C)	865	LEAD ORTHOSILICATE	(C)	J 665
O4PB3 (C)	643	LEAD ORTHOPLUMBATE	(C)	J 362
O4SIZR (C)	492	ZIRCONIUM SILICATE	(C)	J 665
O5TI3 (C)	406	TRITITANIUM PENTAOXIDE, ALPHA	(C)	J 367
O5TI3 (C)	975	TRITITANIUM PENTAOXIDE, BETA	(C)	J 367
O5TI3 (L)	976	TRITITANIUM PENTAOXIDE	(L)	J 367
O6P4 (G)	407	PHOSPHORUS TRIOXIDE, DIMERIC	(G)	J1262
O6W2 (G)	948	TUNGSTEN TRIOXIDE DIMERIC	(G)	J 966
O8W3 (G)	949	TRITUNGSTEN OCTAOXIDE	(G)	J 966
O9W3 (G)	682	TUNGSTEN TRIOXIDE, TRIMERIC	(G)	J 966
O10P4 (C)	408	PHOSPHORUS PENTOXIDE, DIMERIC	(C)	J1265
O10P4 (G)	409	PHOSPHORUS PENTOXIDE, DIMERIC	(G)	J1265
O12W4 (G)	769	TUNGSTEN TRIOXIDE, TETRAMERIC	(G)	J 966
P (C)	411	PHOSPHORUS, RED, V	(C)	J 661
P (C)	412	PHOSPHORUS, WHITE	(C)	J 661
P (L)	413	PHOSPHORUS	(L)	J 661
P (G)	414	PHOSPHORUS, MONATOMIC	(G)	J 662
PS (G)	415	PHOSPHORUS MONOSULFIDE	(G)	J 667
P2 (G)	416	PHOSPHORUS, DIATOMIC	(G)	J 661

TABLE I. CONTINUED

FORMULA	KEY	SPECIES NAME		DATE
P ₄ (G)	417	PHOSPHORUS, TETRATOMIC	(G)	J 661
P ₄ S ₃ (C)	418	PHOSPHORUS SULFIDE	(C)	J1260
P ₄ S ₃ (L)	419	PHOSPHORUS SULFIDE	(L)	J1260
P ₄ S ₃ (G)	420	PHOSPHORUS SULFIDE	(G)	J1260
PB (C)	645	LEAD	(C)	J 362
PB (L)	646	LEAD	(L)	J 362
PB (G)	647	LEAD	(G)	J 362
PB ₂ (G)	648	LEAD, DIATOMIC	(G)	J 963
S (C)	422	SULFUR	(C)	J1265
S (L)	423	SULFUR	(L)	J1265
S (G)	424	SULFUR, MONATOMIC	(G)	J 671
SSI (G)	425	SILICON MONOSULFIDE	(G)	J1260
S ₂ (G)	426	SULFUR, DIATOMIC	(G)	J1265
S ₂ SI (C)	427	SILICON DISULFIDE	(C)	J1260
S ₂ SI (L)	428	SILICON DISULFIDE	(L)	J1260
S ₈ (G)	429	SULFUR OCTATOMIC	(G)	J 664
SI (C)	431	SILICON	(C)	J1266
SI (L)	432	SILICON	(L)	J 367
SI (G)	433	SILICON, MONATOMIC	(G)	J 367
SI ₂ (G)	434	SILICON, DIATOMIC	(G)	J 367
SI ₃ (G)	435	SILICON, TRIATOMIC	(G)	J 367
SR (C)	1118	STRONTIUM	(C)	J1270
SR (L)	1119	STRONTIUM	(L)	J1270
SR (G)	1120	STRONTIUM MONATOMIC	(G)	J1270
TI (C)	950	TITANIUM BETA PHASE	(C)	J 966
TI (C)	437	TITANIUM ALPHA PHASE	(C)	J 966
TI (L)	438	TITANIUM	(L)	J 966
TI (G)	439	TITANIUM, MONATOMIC	(G)	J 667
TI+ (G)	1007	TITANIUM UNIPOSITIVE ION	(G)	J1267
W (C)	562	TUNGSTEN	(C)	J 666
W (L)	563	TUNGSTEN	(L)	J 666
W (G)	564	TUNGSTEN	(G)	J 666
W+ (G)	966	TUNGSTEN UNIPOSITIVE ION	(G)	J1266
ZR (C)	1008	ZIRCONIUM, BETA	(C)	J1267
ZR (C)	441	ZIRCONIUM	(C)	J1267
ZR (L)	442	ZIRCONIUM	(L)	J1267
ZR (G)	443	ZIRCONIUM, MONATOMIC	(G)	J1267
ZR+ (G)	1009	ZIRCONIUM UNIPOSITIVE ION	(G)	J1270

TABLE II. SAMPLE COMPUTER OUTPUT

ALUMINUM TRICHLORIDE (G) AL 1CL 3 0 0 0 0 670
 MOL. WT.= 133.340 BLOCK= 66 NO. POINT = 62
 DATA FROM 0 TO 6000 K FORM(KCAL/(MOLE)) = -139.700 KEY = 14
 FITS FOR NOTS RMS = 0.003112
 1 13 3 17 0 0 0 0 0 0 0 ALUMINUM TRICHLORIDE (G) 10J 670 14
 +1.9842544E+1+2.3277394E-2-6.5898522E-3+6.0253520E-4 400 6000 11J 670 14
 -2.5972839E-1-1.4657540E+2+9.7580444E+1-1.3969999E+2ALCL3(G) 12J 670 14

FITS FOR EST RMS LOW = 0.001139 RMS HIGH = 0.006057
 1 13 3 17 0 0 0 0 0 0 0 ALUMINUM TRICHLORIDE (G) 10ALCL3
 -139699+6+528090+5+198507+2+656360-5-298768+6+119441+3 4003000J 67011ALCL3
 -139699+6+528126+5+200003+2-187778-4-115788+7+119441+330006000J 67012ALCL3

NOTS						EST					
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	18.166	80.319	1.805	80.344	-0.025	1.813	-0.008	80.345	-0.026	1.815	-0.010
600	19.034	87.878	5.540	87.873	0.005	5.533	0.007	87.876	0.002	5.537	0.003
800	19.383	93.408	9.386	93.403	0.005	9.360	0.006	93.406	0.001	9.384	0.002
1000	19.553	97.754	13.281	97.750	0.004	13.276	0.005	97.753	0.001	13.280	0.001
1200	19.648	101.328	17.202	101.326	0.002	17.199	0.003	101.328	-0.000	17.202	-0.000
1400	19.707	104.361	21.138	104.360	0.001	21.136	0.002	104.362	-0.001	21.139	-0.001
1600	19.745	106.956	25.084	106.995	0.001	25.082	0.002	106.996	-0.000	25.084	0.000
1800	19.771	109.323	29.035	109.322	0.001	29.034	0.001	109.323	-0.000	29.036	-0.001
2000	19.790	111.407	32.992	111.407	0.000	32.991	0.001	111.407	-0.000	32.992	0.000
2200	19.804	113.294	36.951	113.294	0.000	36.951	0.000	113.294	-0.000	36.951	0.000
2400	19.815	115.018	40.913	115.018	0.000	40.913	-0.000	115.018	0.000	40.913	0.000
2600	19.823	116.604	44.877	116.604	-0.000	44.877	-0.000	116.604	-0.000	44.877	0.000
2800	19.830	118.073	48.842	118.074	-0.001	48.843	-0.001	118.074	-0.001	48.842	-0.000
3000	19.835	119.442	52.809	119.442	0.000	52.810	-0.001	119.442	0.000	52.809	-0.000
3000	19.835	119.442	52.809	119.442	0.000	52.810	-0.001	119.442	0.000	52.813	-0.004
3200	19.840	120.722	56.776	120.722	-0.000	56.777	-0.001	120.721	0.001	56.777	-0.001
3400	19.843	121.925	60.743	121.925	-0.000	60.746	-0.001	121.924	0.001	60.743	0.002
3600	19.846	123.059	64.714	123.059	-0.000	64.715	-0.001	123.058	0.001	64.711	0.003
3800	19.849	124.132	68.683	124.132	-0.000	68.684	-0.001	124.131	0.001	68.681	0.002
4000	19.851	125.150	72.653	125.151	-0.001	72.654	-0.001	125.149	0.001	72.651	0.002
4200	19.853	126.119	76.624	126.119	-0.000	76.624	-0.000	126.117	0.001	76.622	0.002
4400	19.855	127.042	80.594	127.043	-0.001	80.595	-0.001	127.041	0.001	80.593	0.001
4600	19.856	127.925	84.565	127.925	-0.000	84.565	-0.000	127.924	0.001	84.565	0.000
4800	19.857	128.770	88.537	128.770	-0.000	88.536	0.001	128.769	0.001	88.537	0.000
5000	19.859	129.581	92.508	129.581	0.000	92.508	0.000	129.580	0.001	92.509	-0.001
5200	19.860	130.360	96.480	130.360	0.000	96.479	0.001	130.359	0.001	96.481	-0.001
5400	19.860	131.109	100.452	131.109	-0.000	100.451	0.001	131.108	0.001	100.453	-0.001
5600	19.861	131.832	104.424	131.832	0.000	104.424	0.000	131.831	0.001	104.424	-0.000
5800	19.862	132.528	108.397	132.529	-0.001	108.396	0.001	132.527	0.001	108.396	0.001
6000	19.863	133.202	112.369	133.202	-0.000	112.370	-0.001	133.201	0.001	112.367	0.002

ALUMINUM (C) AL 1 1265
 MOL. WT. = 26.980 BLCK = 7 NO. POINT = 17
 DATA FROM 0 TO 1500 K HPORN(KCAL/(MOLE)) = 0.000 KEY = 2
 FITS FOR NOTS RMS = 0.003475
 1 13 0 0 0 0 0 0 0 0 0 ALUMINUM (C) 30J1265 2
 -2.0250473E+0+1.4782323E+1-5.4400148E+0+4.7367000E-1 400 1500 31J1265 2
 +5.7951641E-1+1.7944679E+0+2.9794273E+0+0.0000000E+0AL(C) 32J1265 2

FITS FOR EST RMS LOW = 0.011642 RMS HIGH = 0.011642
 1 13 0 0 0 0 0 0 0 0 0 ALUMINUM (C) 30ALS
 +000000+0+282175+5+526416+1+322637-2-171435+6+270758+2 4001500J126531ALS
 +000000+0+282175+5+526416+1+322637-2-171435+6+270758+2 4001500J126532ALS

-----NOTS-----								-----EST-----				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
400	6.163	8.528	0.610	8.512	0.016	0.605	0.005	8.607	-0.079	0.642	-0.032	
500	6.450	9.934	1.241	9.955	-0.021	1.251	-0.010	9.911	0.023	1.227	0.014	
600	6.717	11.134	1.900	11.133	0.001	1.898	0.002	11.089	0.045	1.874	0.026	
700	6.999	12.190	2.585	12.179	0.011	2.577	0.008	12.160	0.030	2.569	0.016	
800	7.370	13.147	3.302	13.144	0.003	3.300	0.002	13.144	0.003	3.307	-0.005	
900	7.901	14.044	4.064	14.051	-0.007	4.071	-0.007	14.059	-0.015	4.084	-0.020	
1000	8.430	14.907	4.883	14.910	-0.003	4.886	-0.003	14.916	-0.009	4.898	-0.015	
1100	8.800	15.728	5.746	15.726	0.002	5.743	0.003	15.725	0.003	5.748	-0.002	
1200	9.080	16.506	6.640	16.504	0.002	6.637	0.003	16.495	0.011	6.632	0.008	
1300	9.350	17.243	7.561	17.244	-0.001	7.561	-0.000	17.230	0.013	7.551	0.010	
1400	9.600	17.945	8.509	17.947	-0.002	8.511	-0.002	17.936	0.009	8.503	0.006	
1500	9.850	18.616	9.481	18.616	0.000	9.480	0.001	18.616	0.000	9.489	-0.008	

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[Signature]
 Authorizing Official
 Date: 2/20/09

ALUMINUM (L) AL 1 0 0 0 0 0 667
 MOL. WT. = 26.980 BLOCK = 9 NO. POINT = 39
 DATA FROM 298 TO 4000 K HFORM(KCAL/(MOLE)) = 2.072 KEY = 3
 FITS FOR NOTS RMS = 0.001489
 1 13 0 0 0 0 0 0 0 0 0 ALUMINUM (L) 20J 667 3
 +7.5781927E+0+2.4757042E-2-1.4026254E-2+2.2232988E-3 400 4000 21J 667 3
 -1.3732910E-3-1.9165706E-1+1.7582412E+1+2.0719995E+0AL(L) 22J 667 3

FITS FOR EST RMS LOW = 0.000748 RMS HIGH = 0.000748
 1 13 0 0 0 0 0 0 0 0 0 ALUMINUM (L) 20AL*
 +207199+4+205016+5+758910+1-245731-6-172800+4+259389+2 4004000J 66721AL*
 +207199+4+205016+5+758910+1-245731-6-172800+4+259389+2 4004000J 66722AL*

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.032	400	7.588	10.650	0.773	10.652	-0.002	0.773	0.000	10.654	-0.004	0.775	-0.002	
0.014	600	7.588	13.727	2.290	13.726	0.001	2.289	0.001	13.728	-0.001	2.291	-0.001	
0.026	800	7.588	15.909	3.808	15.908	0.001	3.806	0.002	15.910	-0.001	3.808	-0.000	
0.016	1000	7.588	17.603	5.326	17.602	0.001	5.324	0.002	17.603	0.000	5.326	0.000	
0.005	1200	7.588	18.986	6.843	18.985	0.001	6.842	0.001	18.986	-0.000	6.843	-0.000	
0.020	1400	7.588	20.156	8.361	20.156	0.000	8.360	0.001	20.156	0.000	8.361	0.000	
0.015	1600	7.588	21.169	9.878	21.169	-0.000	9.878	-0.000	21.169	0.000	9.878	-0.000	
0.002	1800	7.588	22.063	11.396	22.063	-0.000	11.397	-0.001	22.063	0.000	11.396	0.000	
0.008	2000	7.588	22.862	12.914	22.863	-0.001	12.914	-0.000	22.862	-0.000	12.913	0.001	
0.010	2200	7.588	23.585	14.431	23.586	-0.001	14.432	-0.001	23.585	-0.000	14.431	-0.000	
0.006	2400	7.588	24.246	15.949	24.246	-0.000	15.950	-0.001	24.246	0.000	15.949	0.000	
0.008	2600	7.588	24.853	17.466	24.854	-0.001	17.467	-0.001	24.853	-0.000	17.466	-0.000	
	2800	7.588	25.415	18.984	25.416	-0.001	18.984	-0.000	25.415	-0.000	18.984	0.000	
	3000	7.588	25.939	20.502	25.939	-0.000	20.502	0.000	25.939	0.000	20.502	0.000	
	3200	7.588	26.429	22.019	26.429	0.000	22.019	0.000	26.429	0.000	22.019	-0.000	
	3400	7.588	26.889	23.537	26.889	0.000	23.536	0.001	26.889	0.000	23.537	0.000	
	3600	7.588	27.322	25.054	27.322	-0.000	25.054	0.000	27.322	-0.000	25.054	-0.001	
	3800	7.588	27.733	26.572	27.733	0.000	26.572	0.000	27.733	0.000	26.572	-0.000	
	4000	7.588	28.122	28.090	28.122	-0.000	28.091	-0.001	28.122	0.000	28.090	0.000	

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4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

FITS FOR EST RMS LOW = 0.001174 RMS HIGH = 0.003099
1 6 1 13 0 0 0 0 0 0 0 ALUMINUM CARBIDE (G) 10CAL
+164799+6+241582+5+891768+1+115697-3-163824+6+734939+2 4003000J 66311CAL
+164799+6+241601+5+899536+1+100035-3-543536+6+734939+230006000J 66312CAL

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
DH KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.001	400	8.106	55.705	0.807	55.726	-0.021	0.814	-0.007	55.728	-0.023	0.816	-0.009
0.000	600	8.540	59.085	2.477	59.081	0.004	2.473	0.004	59.082	0.003	2.474	0.003
0.000	800	8.747	61.574	4.208	61.570	0.004	4.204	0.004	61.571	0.003	4.206	0.002
0.000	1000	8.864	63.539	5.970	63.537	0.002	5.967	0.003	63.538	0.001	5.969	0.001
0.000	1200	8.940	65.163	7.751	65.161	0.002	7.749	0.002	65.162	0.001	7.751	-0.000
0.000	1400	8.996	66.545	9.545	66.544	0.001	9.544	0.001	66.545	-0.000	9.545	-0.000
0.000	1600	9.040	67.749	11.348	67.749	0.000	11.348	0.000	67.749	-0.000	11.349	-0.001
0.000	1800	9.077	68.816	13.160	68.816	0.000	13.160	0.000	68.816	0.000	13.160	-0.000
0.001	2000	9.109	69.774	14.979	69.774	0.000	14.978	0.001	69.774	0.000	14.979	0.000
0.000	2200	9.139	70.644	16.804	70.644	0.000	16.803	0.001	70.643	0.001	16.803	0.001
0.000	2400	9.167	71.440	18.634	71.440	-0.000	18.634	-0.000	71.440	0.000	18.634	0.000
0.000	2600	9.194	72.175	20.470	72.175	0.000	20.470	-0.001	72.175	0.000	20.470	-0.000
0.000	2800	9.219	72.857	22.312	72.857	-0.000	22.312	0.000	72.857	0.000	22.312	0.000
0.000	3000	9.244	73.494	24.158	73.494	-0.000	24.158	-0.000	73.494	0.000	24.158	-0.000
0.015	3000	9.244	73.494	24.158	73.494	-0.000	24.158	-0.000	73.494	0.000	24.160	-0.002
0.002	3200	9.268	74.091	26.009	74.092	-0.001	26.010	-0.001	74.091	0.000	26.010	-0.001
0.007	3400	9.292	74.654	27.865	74.654	-0.000	27.866	-0.001	74.653	0.001	27.865	0.000
0.007	3600	9.315	75.186	29.726	75.186	0.000	29.726	-0.000	75.185	0.001	29.725	0.001
0.003	3800	9.338	75.690	31.591	75.690	-0.000	31.592	-0.001	75.689	0.001	31.590	0.001
0.001	4000	9.361	76.170	33.461	76.170	0.000	33.462	-0.001	76.169	0.001	33.460	0.001
0.004	4200	9.384	76.627	35.336	76.627	-0.000	35.336	0.000	76.626	0.001	35.335	0.001
0.006	4400	9.406	77.064	37.215	77.064	-0.000	37.215	0.000	77.063	0.001	37.214	0.001
0.006	4600	9.429	77.483	39.098	77.483	0.000	39.098	0.000	77.482	0.001	39.098	0.000
0.004	4800	9.451	77.884	40.986	77.884	-0.000	40.986	0.000	77.883	0.001	40.986	-0.000
0.000	5000	9.473	78.271	42.878	78.271	0.000	42.878	-0.000	78.270	0.001	42.879	-0.001
0.003	5200	9.495	78.643	44.775	78.642	0.001	44.775	0.000	78.642	0.001	44.776	-0.001
0.005	5400	9.517	79.001	46.676	79.001	-0.000	46.676	0.000	79.001	0.000	46.677	-0.001
0.006	5600	9.539	79.348	48.582	79.348	0.000	48.582	0.000	79.347	0.001	48.582	-0.000

AL

DA3

7 6

+1.31

-2.7'

PII

1. 4

- 1200

-1201

-----EST-----

964

FITS FOR EST RMS LOW = 0.001511 RMS HIGH = 0.004258
 1 9 1 13 1 17 0 0 0 0 0 ALUMINUM CHLOROFLUORIDE (G) 10ALCLF
 -120000+6+367671+5+138817+2+915154-5-277616+6+980849+2 4003000J 96411ALCLF
 -120000+6+367698+5+140154+2-153572-4-983296+6+980849+230006000J 96412ALCLF

---		-----NOTS-----						-----EST-----					
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.001	400	12.372	70.913	1.223	70.944	-0.031	1.234	-0.011	70.943	-0.030	1.236	-0.013	
0.000	600	13.126	76.095	3.785	76.090	0.005	3.779	0.006	76.091	0.004	3.782	0.003	
-0.000	800	13.446	79.921	6.446	79.916	0.005	6.441	0.005	79.918	0.003	6.444	0.002	
-0.000	1000	13.606	82.941	9.153	82.938	0.003	9.149	0.004	82.939	0.002	9.152	0.001	
0.000	1200	13.696	85.430	11.884	85.428	0.002	11.882	0.002	85.430	0.000	11.884	-0.000	
0.000	1400	13.752	87.546	14.629	87.545	0.001	14.628	0.001	87.546	0.000	14.630	-0.001	
0.000	1600	13.789	89.385	17.384	89.384	0.001	17.383	0.001	89.385	0.000	17.384	-0.000	
0.000	1800	13.814	91.010	20.144	91.010	0.000	20.144	0.000	91.010	-0.000	20.144	-0.000	
-0.000	2000	13.832	92.467	22.909	92.466	0.001	22.909	0.000	92.467	0.000	22.909	0.000	
0.000	2200	13.846	93.786	25.677	93.785	0.001	25.677	0.000	93.785	0.001	25.676	0.001	
-0.000	2400	13.856	94.991	28.447	94.991	0.000	28.447	0.000	94.991	0.000	28.446	0.001	
0.000	2600	13.864	96.100	31.219	96.100	-0.000	31.219	-0.000	96.100	0.000	31.218	0.001	
-0.000	2800	13.870	97.128	33.992	97.128	0.000	33.993	-0.001	97.128	0.000	33.992	-0.000	
0.000	3000	13.876	98.085	36.767	98.085	-0.000	36.767	-0.000	98.085	0.000	36.767	-0.000	
0.012	3000	13.876	98.085	36.767	98.085	-0.000	36.767	-0.000	98.085	0.000	36.770	-0.003	
-0.002	3200	13.880	98.981	39.542	98.981	0.000	39.543	-0.001	98.980	0.001	39.543	-0.001	
-0.007	3400	13.883	99.822	42.319	99.822	-0.000	42.319	-0.000	99.821	0.001	42.318	0.001	
-0.006	3600	13.886	100.616	45.096	100.616	0.000	45.096	-0.000	100.614	0.002	45.094	0.002	
-0.002	3800	13.889	101.367	47.873	101.367	0.000	47.874	-0.001	101.365	0.002	47.871	0.002	
0.002	4000	13.891	102.079	50.651	102.079	-0.000	50.652	-0.001	102.078	0.001	50.650	0.001	
0.005	4200	13.893	102.757	53.430	102.757	0.000	53.430	0.000	102.756	0.001	53.428	0.002	
0.005	4400	13.894	103.403	56.208	103.403	-0.000	56.208	-0.000	103.402	0.001	56.208	0.000	
0.004	4600	13.896	104.021	58.987	104.021	0.000	58.987	-0.000	104.020	0.001	58.987	-0.000	
0.002	4800	13.897	104.612	61.767	104.612	-0.000	61.767	0.000	104.611	0.001	61.767	0.000	
-0.001	5000	13.898	105.180	64.546	105.180	0.000	64.546	0.000	105.179	0.001	64.547	-0.001	
-0.003	5200	13.899	105.725	67.326	105.725	0.000	67.326	0.000	105.724	0.001	67.327	-0.001	
-0.004	5400	13.900	106.249	70.106	106.249	-0.000	70.105	0.001	106.248	0.001	70.106	-0.000	
-0.003													

ALUMINUM CHLORODIFLUORIDE (G) AL 1CL 1F 2
 MOL. WT.= 100.430 BLOCK= 38 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -237.600 KEY = 8
 FITS FOR NOTS RMS = 0.003651

964

1.1745590E+1+8.357903E-2-1.9761141E-2+1.5762746E-3 400 6000 11J 964 8
 1.2743530E-1-2.4512919E+2+9.2527648E+1-2.3759999E+2ALCLF2(G) 12J 964 8

FITS FOR EST RMS LOW = 0.003448 RMS HIGH = 0.005908
 9 1 13 1 17 0 0 0 0 0 ALUMINUM CHLORODIFLUORIDE (G) 10ALCLF2
 17599+6+521142+5+197893+2+268170-4-532448+6+114425+3 4003000J 96411ALCLF2
 17599+6+521171+5+199994+2-184372-4-146585+7+114425+330006000J 96412ALCLF2

-----NOTS-----														-----EST-----													
----	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	----	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	----	T
DH	K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H		K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H		K
-0.013	100	16.993	76.046	1.668	76.115	-0.069	1.694	-0.026	76.117	-0.071	1.697	-0.029		40	16.993	76.046	1.668	76.115	-0.069	1.694	-0.026	76.117	-0.071	1.697	-0.029		40
0.003	100	18.349	83.232	5.222	83.220	0.012	5.211	0.011	83.222	0.010	5.214	0.008		60	18.349	83.232	5.222	83.220	0.012	5.211	0.011	83.222	0.010	5.214	0.008		60
0.002	100	18.955	88.604	8.960	88.594	0.010	8.950	0.010	88.597	0.007	8.954	0.006		80	18.955	88.604	8.960	88.594	0.010	8.950	0.010	88.597	0.007	8.954	0.006		80
0.001	100	19.266	92.871	12.785	92.866	0.005	12.779	0.006	92.868	0.003	12.783	0.002		100	19.266	92.871	12.785	92.866	0.005	12.779	0.006	92.868	0.003	12.783	0.002		100
-0.000	100	19.444	96.400	16.657	96.398	0.002	16.655	0.002	96.400	-0.000	16.658	-0.001		120	19.444	96.400	16.657	96.398	0.002	16.655	0.002	96.400	-0.000	16.658	-0.001		120
-0.001	100	19.554	99.406	20.558	99.405	0.001	20.557	0.001	99.407	-0.001	20.560	-0.002		140	19.554	99.406	20.558	99.405	0.001	20.557	0.001	99.407	-0.001	20.560	-0.002		140
-0.001	100	19.627	102.023	24.476	102.022	0.001	24.476	0.000	102.023	-0.000	24.478	-0.002		160	19.627	102.023	24.476	102.022	0.001	24.476	0.000	102.023	-0.000	24.478	-0.002		160
-0.000	100	19.677	104.337	28.407	104.337	0.000	28.407	0.000	104.337	-0.000	28.408	-0.001		180	19.677	104.337	28.407	104.337	0.000	28.407	0.000	104.337	-0.000	28.408	-0.001		180
-0.000	100	19.714	106.413	32.346	106.412	0.001	32.346	-0.000	106.412	0.001	32.347	-0.001		200	19.714	106.413	32.346	106.412	0.001	32.346	-0.000	106.412	0.001	32.347	-0.001		200
0.001	100	19.741	108.293	36.292	108.292	0.001	36.292	-0.000	108.292	0.001	36.291	0.001		220	19.741	108.293	36.292	108.292	0.001	36.292	-0.000	108.292	0.001	36.291	0.001		220
0.001	100	19.762	110.011	40.242	110.011	0.000	40.243	-0.001	110.011	0.000	40.242	0.000		240	19.762	110.011	40.242	110.011	0.000	40.243	-0.001	110.011	0.000	40.242	0.000		240
0.001	100	19.778	111.594	44.197	111.594	0.000	44.197	0.000	111.593	0.001	44.196	0.001		260	19.778	111.594	44.197	111.594	0.000	44.197	0.000	111.593	0.001	44.196	0.001		260
0.001	100	19.791	113.060	48.153	113.060	0.000	48.154	-0.001	113.060	0.000	48.153	-0.000		280	19.791	113.060	48.153	113.060	0.000	48.154	-0.001	113.060	0.000	48.153	-0.000		280
-0.000	100	19.801	114.426	52.113	114.426	0.000	52.114	-0.001	114.426	0.000	52.114	-0.001		300	19.801	114.426	52.113	114.426	0.000	52.114	-0.001	114.426	0.000	52.114	-0.001		300
-0.000	100	19.801	114.426	52.113	114.426	0.000	52.114	-0.001	114.426	0.000	52.117	-0.004		300	19.801	114.426	52.113	114.426	0.000	52.114	-0.001	114.426	0.000	52.117	-0.004		300
-0.003	100	19.810	115.704	56.074	115.704	0.000	56.075	-0.001	115.703	0.001	56.075	-0.001		320	19.810	115.704	56.074	115.704	0.000	56.075	-0.001	115.703	0.001	56.075	-0.001		320
-0.001	100	19.817	116.905	60.037	116.905	-0.000	60.038	-0.001	116.904	0.001	60.036	0.001		340	19.817	116.905	60.037	116.905	-0.000	60.038	-0.001	116.904	0.001	60.036	0.001		340
0.001	100	19.823	118.038	64.001	118.038	-0.000	64.002	-0.001	118.036	0.002	63.999	0.002		360	19.823	118.038	64.001	118.038	-0.000	64.002	-0.001	118.036	0.002	63.999	0.002		360
0.002	100	19.828	119.110	67.966	119.110	0.000	67.967	-0.001	119.108	0.002	67.964	0.002		380	19.828	119.110	67.966	119.110	0.000	67.967	-0.001	119.108	0.002	67.964	0.002		380
0.002	100	19.832	120.127	71.932	120.127	-0.000	71.933	-0.001	120.125	0.002	71.930	0.002		400	19.832	120.127	71.932	120.127	-0.000	71.933	-0.001	120.125	0.002	71.930	0.002		400
0.001	100	19.836	121.095	75.899	121.095	0.000	75.900	-0.001	121.093	0.002	75.897	0.002		420	19.836	121.095	75.899	121.095	0.000	75.900	-0.001	121.093	0.002	75.897	0.002		420
0.002	100	19.839	122.018	79.866	122.018	0.000	79.867	-0.001	122.016	0.002	79.865	0.001		440	19.839	122.018	79.866	122.018	0.000	79.867	-0.001	122.016	0.002	79.865	0.001		440
0.000	100	19.842	122.900	83.835	122.899	0.001	83.835	0.000	122.898	0.002	83.834	0.001		460	19.842	122.900	83.835	122.899	0.001	83.835	0.000	122.898	0.002	83.834	0.001		460
-0.000	100	19.845	123.744	87.803	123.744	0.000	87.803	0.000	123.743	0.001	87.803	-0.000		480	19.845	123.744	87.803	123.744	0.000	87.803	0.000	123.743	0.001	87.803	-0.000		480
0.000	100	19.847	124.554	91.772	124.554	-0.000	91.772	0.000	124.553	0.001	91.773	-0.001		500	19.847	124.554	91.772	124.554	-0.000	91.772	0.000	124.553	0.001	91.773	-0.001		500
-0.001	100	19.849	125.333	95.742	125.332	0.001	95.741	0.001	125.332	0.001	95.743	-0.001		520	19.849	125.333	95.742	125.332	0.001	95.741	0.001	125.332	0.001	95.743	-0.001		520
-0.001	100	19.851	126.082	99.712	126.082	0.000	99.711	0.001	126.081	0.001	99.713	-0.001		540	19.851	126.082	99.712	126.082	0.000	99.711	0.001	126.081	0.001	99.713	-0.001		540
-0.000	100	19.852	126.804	103.682	126.804	0.000	103.682	0.000	126.803	0.001	103.683	-0.001		560	19.852	126.804	103.682	126.804	0.000	103.682	0.000	126.803	0.001	103.683	-0.001		560
-0.000	100	19.853	127.501	107.653	127.500	0.001	107.653	0.000	127.499	0.002	107.652	0.001		580	19.853	127.501	107.653	127.500	0.001	107.653	0.000	127.499	0.002	107.652	0.001		580
0.000	100	19.855	128.174	111.624	128.174	0.000	111.625	-0.001	128.172	0.002	111.622	0.002		600	19.855	128.174	111.624	128.174	0.000	111.625	-0.001	128.172	0.002	111.622	0.002		600
0.001																											

ALUMINUM OXYCHLORIDE

(G) AL 1CL 10 1

964

MOL. WT. = 78.430 BLOCK = 44 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -83.200 KEY = 9

FITS FOR NOTS RMS = 0.002758

ALUMINUM OXYCHLORIDE (G) 10J 964 9
-3.5679626E-1-8.8739227E+1+7.5627822E+1-8.3199996E+1ALCLO (G) 12J 964 9

FITS FOR EST RMS LOW = 0.002231 RMS HIGH = 0.004589

1 8 1 13 1 17 0 0 0 0 0 ALUMINUM OXYCHLORIDE (G) 10ALCLO
-831999+5+392000+5+148541+2+159401-4-360928+6+920439+2 4003000J 96411ALCLO
-831999+5+392023+5+150024+2-143353-4-105856+7+920439+23C 006000J 96412ALCLO

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.029	400	12.935	63.135	1.272	63.177	-0.042	1.287	-0.015	63.181	-0.046	1.291	-0.019	
0.008	600	13.877	68.587	3.968	68.579	0.008	3.960	0.008	68.580	0.007	3.962	0.006	
0.006	800	14.288	72.642	6.789	72.636	0.006	6.782	0.007	72.637	0.005	6.785	0.004	
0.002	1000	14.498	75.855	9.670	75.852	0.003	9.666	0.004	75.854	0.001	9.669	0.001	
-0.001	1200	14.617	78.510	12.582	78.508	0.002	12.580	0.002	78.510	0.000	12.583	-0.001	
-0.002	1400	14.691	80.769	15.514	80.768	0.001	15.513	0.001	80.770	-0.001	15.515	-0.001	
-0.002	1600	14.740	82.734	18.457	82.734	0.000	18.456	0.001	82.735	-0.001	18.458	-0.001	
-0.001	1800	14.774	84.473	21.409	84.472	0.001	21.408	0.001	84.473	0.000	21.409	-0.000	
-0.001	2000	14.798	86.031	24.366	86.030	0.001	24.366	0.000	86.030	0.001	24.366	-0.000	
0.001	2200	14.816	87.442	27.328	87.442	0.000	27.328	0.000	87.441	0.001	27.327	0.001	
0.000	2400	14.830	88.732	30.292	88.732	0.000	30.292	-0.000	88.731	0.001	30.292	0.000	
0.001	2600	14.841	89.919	33.259	89.919	-0.000	33.260	-0.001	89.919	0.000	33.259	-0.000	
-0.000	2800	14.850	91.019	36.229	91.019	-0.000	36.229	-0.000	91.019	0.000	36.229	0.000	
-0.001	3000	14.857	92.044	39.199	92.044	-0.000	39.200	-0.001	92.044	0.000	39.200	-0.001	
-0.004	3000	14.857	92.044	39.199	92.044	-0.000	39.200	-0.001	92.044	0.000	39.202	-0.003	
-0.001	3200	14.863	93.003	42.171	93.003	-0.000	42.172	-0.001	93.002	0.001	42.172	-0.001	
0.001	3400	14.867	93.904	45.144	93.904	-0.000	45.145	-0.001	93.903	0.001	45.143	0.001	
0.002	3600	14.871	94.754	48.118	94.754	-0.000	48.119	-0.001	94.753	0.001	48.117	0.001	
0.002	3800	14.875	95.558	51.093	95.558	-0.000	51.093	-0.000	95.557	0.001	51.091	0.002	
0.002	4000	14.878	96.321	54.068	96.321	-0.000	54.069	-0.001	96.320	0.001	54.066	0.002	
0.002	4200	14.880	97.047	57.044	97.047	-0.000	57.044	-0.000	97.046	0.001	57.043	0.001	
0.001	4400	14.882	97.740	60.020	97.740	0.000	60.020	-0.000	97.738	0.002	60.019	0.001	
0.001	4600	14.884	98.401	62.997	98.401	-0.000	62.997	0.000	98.400	0.001	62.996	0.001	
-0.000	4800	14.886	99.035	65.974	99.035	0.000	65.973	0.001	99.034	0.001	65.974	0.000	
-0.001	5000	14.887	99.642	68.951	99.642	-0.000	68.951	0.000	99.641	0.001	68.951	-0.001	
-0.001	5200	14.889	100.226	71.929	100.226	-0.000	71.928	0.001	100.225	0.001	71.929	-0.000	
-0.001	5400	14.890	100.788	74.906	100.788	-0.000	74.906	0.000	100.787	0.001	74.907	-0.001	
-0.001	5600	14.891	101.330	77.884	101.330	0.000	77.884	0.000	101.329	0.001	77.885	-0.001	
0.001	5800	14.892	101.852	80.863	101.852	-0.000	80.863	0.000	101.851	0.001	80.862	0.001	
0.002	6000	14.892	102.357	83.841	102.357	-0.000	83.842	-0.001	102.356	0.001	83.840	0.001	

ALUMINUM DICHLORIDE (G) AL 1CL 2 964
 MOL. WT. = 97.880 BLOCK = 50 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -75.000 KEY = 10
 TS FOR NOTS RMS = 0.002290
 13 2 17 0 0 0 0 0 0 0 ALUMINUM DICHLORIDE (G) 10J 964 10
 11.7 964 10

ALU/
 MO/
 DATA
 FITS
 1 9
 +1.980

TS FOR EST RMS LOW = 0.000702 RMS HIGH = 0.004372
 13 2 17 0 0 0 0 0 0 0 ALUMINUM DICHLORIDE (G) 10ALCL2
 0000+5+370930+5+139047+2+165027-5-167520+6+100055+3 4003000J 96411ALCL2
 0000+5+370962+5+140102+2-145056-4-817664+6+100055+330006000J 96412ALCL2

FITS
 1 9
 -18859
 -18859

		-----NOTS-----												-----EST-----		
H		CP	S	R	SC	DS	HC	DH	SC	DS	HC	DH	T			
C/M		C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K			
.019	0	12.943	72.536	1.291	72.550	-0.014	1.295	-0.004	72.549	-0.013	1.296	-0.005	400	1		
.006	0	13.446	77.897	3.939	77.894	0.003	3.935	0.004	77.897	0.000	3.938	0.001	600	1		
.004	0	13.642	81.796	6.650	81.793	0.003	6.646	0.004	81.795	0.001	6.649	0.001	800	1		
.001	0	13.737	84.851	9.389	84.849	0.002	9.386	0.003	84.851	-0.000	9.389	0.000	1000	1		
.001	0	13.789	87.361	12.142	87.359	0.002	12.140	0.002	87.361	-0.000	12.142	0.000	1200	1		
.001	0	13.821	89.489	14.903	89.488	0.001	14.901	0.002	89.489	-0.000	14.903	-0.000	1400	1		
.001	0	13.842	91.336	17.670	91.335	0.001	17.668	0.002	91.336	-0.000	17.670	0.000	1600	1		
.000	0	13.856	92.967	20.440	92.967	0.000	20.439	0.001	92.968	-0.001	20.440	0.000	1800	1		
.000	0	13.866	94.428	23.212	94.427	0.001	23.212	0.000	94.428	-0.000	23.212	-0.000	2000	1		
.001	0	13.874	95.750	25.986	95.750	0.000	25.986	0.000	95.750	-0.000	25.986	-0.000	2200	1		
.000	0	13.880	96.957	28.761	96.957	-0.000	28.762	-0.001	96.957	-0.000	28.761	-0.000	2400	1		
.000	0	13.885	98.068	31.538	98.068	-0.000	31.538	-0.000	98.069	-0.001	31.538	0.000	2600	1		
.000	0	13.888	99.097	34.315	99.098	-0.001	34.316	-0.001	99.098	-0.001	34.315	-0.000	2800	1		
.001	0	13.891	100.056	37.093	100.056	0.000	37.094	-0.001	100.056	0.000	37.093	-0.000	3000	1		
.003	0	13.891	100.056	37.093	100.056	0.000	37.094	-0.001	100.056	0.000	37.096	-0.003	3000	1		
.001	0	13.893	100.952	39.872	100.952	-0.000	39.872	-0.000	100.952	0.000	39.872	-0.000	3200	1		
.001	0	13.895	101.794	42.650	101.795	-0.001	42.651	-0.001	101.794	0.000	42.650	0.000	3400	1		
.001	0	13.897	102.589	45.430	102.589	-0.000	45.430	-0.000	102.588	0.001	45.428	0.002	3600	1		
.002	0	13.898	103.340	48.209	103.340	-0.000	48.210	-0.001	103.339	0.001	48.208	0.001	3800	1		
.002	0	13.900	104.053	50.989	104.053	-0.000	50.989	-0.000	104.052	0.001	50.988	0.001	4000	1		
.001	0	13.901	104.731	53.769	104.731	-0.000	53.769	-0.000	104.730	0.001	53.768	0.001	4200	1		
.001	0	13.902	105.378	56.549	105.378	-0.000	56.549	-0.000	105.377	0.001	56.549	0.000	4400	1		
.001	0	13.902	105.996	59.330	105.996	-0.000	59.330	0.000	105.995	0.001	59.330	0.000	4600	1		
.000	0	13.903	106.588	62.110	106.588	0.000	62.110	-0.000	106.587	0.001	62.111	-0.001	4800	1		
.001	0	13.904	107.155	64.891	107.155	-0.000	64.891	0.000	107.155	0.000	64.892	-0.001	5000	1		
.000	0	13.904	107.701	67.672	107.701	0.000	67.671	0.001	107.700	0.001	67.672	-0.000	5200	1		
.001	0	13.905	108.225	70.453	108.225	-0.000	70.452	0.001	108.225	0.000	70.453	-0.000	5400	1		
.001	0	13.905	108.731	73.234	108.731	-0.000	73.233	0.001	108.730	0.001	73.234	-0.000	5600	1		
.001	0	13.906	109.219	76.015	109.219	-0.000	76.015	0.000	109.218	0.001	76.014	0.001	5800	1		
.001	0	13.906	109.690	78.796	109.690	-0.001	78.796	-0.000	109.690	0.000	78.795	0.001	6000	1		

ALUMINUM DICHLOROFLUORIDE (G) AL 1CL 2F 1 964
 MOL. WT.= 116.880 BLOCK= 57 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -188.600 KEY = 11
 FITS FOR NOTS RMS = 0.003356
 1 9 1 13 2 17 0 0 0 0 0 ALUMINUM DICHLOROFLUORIDE (G) 10J 964 11
 +1.9801910E+1+4.8322826E-2-1.1920731E-2+9.8449923E-4 400 6000 11J 964 11

FITS FOR EST RMS LOW = 0.002261 RMS HIGH = 0.006008
 1 9 1 13 2 17 0 0 0 0 0 ALUMINUM DICHLOROFLUORIDE (G) 10ALCL2F
 -188599+6+524697+5+198265+2+145149-4-414960+6+118116+3 4003000J 96411ALCL2F
 -188599+6+524731+5+200024+2-190333-4-131097+7+118116+330006000J 96412ALCL2F

	-----NOTS-----												-----EST-----			
	T	CP	S	H	SC	DS	HC	DB	SC	DS	HC	DB	SC	DS	HC	DB
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
005	400	17.582	79.357	1.736	79.402	-0.045	1.751	-0.015	79.404	-0.047	1.756	-0.020				
001	600	18.700	86.732	5.382	86.724	0.008	5.373	0.009	86.726	0.006	5.377	0.005				
001	800	19.176	92.186	9.175	92.178	0.008	9.167	0.008	92.180	0.006	9.171	0.004				
000	1000	19.415	96.493	13.037	96.489	0.004	13.031	0.006	96.491	0.002	13.035	0.002				
000	1200	19.550	100.046	16.934	100.043	0.003	16.931	0.003	100.045	0.001	16.935	-0.001				
000	1400	19.633	103.066	20.853	103.065	0.001	20.851	0.002	103.066	0.000	20.854	-0.001				
000	1600	19.688	105.692	24.786	105.691	0.001	24.785	0.001	105.692	0.000	24.787	-0.001				
000	1800	19.727	108.013	28.728	108.013	0.000	28.727	0.001	108.013	0.000	28.728	-0.000				
000	2000	19.754	110.093	32.676	110.093	0.000	32.675	0.001	110.092	0.001	32.676	-0.000				
000	2200	19.774	111.977	36.629	111.977	0.000	36.629	0.000	111.976	0.001	36.629	0.000				
000	2400	19.790	113.698	40.585	113.698	0.000	40.585	-0.000	113.697	0.001	40.585	0.000				
000	2600	19.802	115.282	44.545	115.283	-0.001	44.545	0.000	115.282	0.000	44.544	0.001				
000	2800	19.812	116.750	48.506	116.751	-0.001	48.507	-0.001	116.750	0.000	48.506	0.000				
000	3000	19.820	118.117	52.469	118.118	-0.001	52.470	-0.001	118.117	0.000	52.470	-0.001				
003	3000	19.820	118.117	52.469	118.118	-0.001	52.470	-0.001	118.117	0.000	52.473	-0.004				
000	3200	19.826	119.397	56.434	119.397	-0.000	56.435	-0.001	119.395	0.002	56.435	-0.001				
000	3400	19.831	120.599	60.399	120.599	-0.000	60.400	-0.001	120.597	0.002	60.398	0.001				
002	3600	19.836	121.733	64.366	121.733	0.000	64.367	-0.001	121.730	0.003	64.364	0.002				
001	3800	19.839	122.805	68.334	122.805	-0.000	68.335	-0.001	122.803	0.002	68.331	0.003				
001	4000	19.843	123.823	72.302	123.823	-0.000	72.303	-0.001	123.820	0.003	72.300	0.002				
001	4200	19.845	124.791	76.271	124.791	-0.000	76.271	-0.000	124.789	0.002	76.269	0.002				
000	4400	19.848	125.714	80.240	125.714	-0.000	80.240	-0.000	125.712	0.002	80.239	0.001				
000	4600	19.850	126.597	84.210	126.597	0.000	84.210	0.000	126.595	0.002	84.209	0.001				
001	4800	19.852	127.441	88.180	127.441	-0.000	88.180	0.000	127.440	0.001	88.180	-0.000				
001	5000	19.853	128.252	92.150	128.252	0.000	92.150	0.000	128.250	0.002	92.151	-0.001				
000	5200	19.855	129.031	96.121	129.030	0.001	96.120	0.000	129.029	0.002	96.122	-0.001				
000	5400	19.856	129.780	100.092	129.780	0.000	100.092	0.000	129.778	0.002	100.093	-0.001				
000	5600	19.857	130.502	104.064	130.502	0.000	104.063	0.001	130.500	0.002	104.064	0.000				
001	5800	19.858	131.199	108.035	131.199	0.000	108.035	0.000	131.197	0.002	108.035	0.000				
001	6000	19.859	131.872	112.007	131.872	-0.000	112.007	-0.000	131.870	0.002	112.005	0.002				

7089843E-2-1.7409370E+2+3.8152114E+1-1.6864999E+2ALCL3 (C)	32J	670	12	+3.93
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FITS FOR EST										RMS LOW = 0.000166										RMS HIGH = 0.000166										FIT									
13	3	17	0	0	0	0	0	0	0	ALUMINUM TRICHLORIDE										(C) 30ALCL3\$										1 13									
168649	+	6	+	135487	+	6	+	155336	+	2	+	209909	-	1	-	356800	+	4	+	118685	+	3	+	4001500J	+	67031	ALCL3\$	-	1612										
168649	+	6	+	135487	+	6	+	155336	+	2	+	209909	-	1	-	356800	+	4	+	118685	+	3	+	4001500J	+	67032	ALCL3\$	-	1612										

T K	NOTS-----								EST-----				T K
	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M		
100	23.920	32.820	2.327	32.819	0.001	2.327	0.000	32.822	-0.002	2.328	-0.001	400	
200	26.020	38.383	4.824	38.383	-0.000	4.824	-0.000	38.383	0.000	4.824	-0.000	500	
300	28.120	43.313	7.531	43.312	0.001	7.531	0.000	43.312	0.001	7.531	0.000	600	
400	30.220	47.805	10.448	47.805	0.000	10.448	0.000	47.804	0.001	10.448	0.000	700	
500	32.320	51.977	13.575	51.977	-0.000	13.575	0.000	51.977	0.000	13.575	0.000	800	
600	34.420	55.905	16.912	55.906	-0.001	16.912	-0.000	55.905	0.000	16.912	0.000	900	
700	36.520	59.641	20.459	59.641	0.000	20.459	-0.000	59.640	0.001	20.459	0.000	1000	
800	38.620	63.220	24.216	63.220	-0.000	24.216	-0.000	63.219	0.001	24.216	0.000	1100	
900	40.720	66.670	28.183	66.670	-0.000	28.183	-0.000	66.670	0.000	28.183	-0.000	1200	
1000	42.820	70.012	32.360	70.012	-0.000	32.360	0.000	70.012	-0.000	32.360	-0.000	1300	
1100	44.920	73.263	36.747	73.262	0.000	36.747	0.000	73.262	0.001	36.747	-0.000	1400	
1200	47.020	76.433	41.344	76.434	-0.001	41.344	-0.000	76.433	0.000	41.344	0.000	1500	

R	C/M
	.020
	.005
	.004
	.002
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	.002

ALUMINUM TRICHLORIDE (G) AL 1CL 3 0 0 0 0 670 ALU
 MOL. WT.= 133.340 BLOCK= 66 NO. POINT = 62 MC
 DATA FROM 0 TO 6000 K BFORM(KCAL/(MOLE)) = -139.700 KEY = 14 DATI
 FITS FOR NOTS RMS = 0.003112 FIT:
 1 13 3 17 0 0 0 0 0 0 ALUMINUM TRICHLORIDE (G) 10J 670 14 1 9
 +1.9842544E+1+2.3277394E-2-6.5898522E-3+6.0253520E-4 400 6000 11J 670 14 +8.886
 -2.9972839E-1-1.4657540E+2+9.7580444E+1-1.3969999E+2ALCL3 (G) 12J 670 14 -1.721

FITS FOR EST RMS LOW = 0.001139 RMS HIGH = 0.006057 FIT:
 1 13 3 17 0 0 0 0 0 0 ALUMINUM TRICHLORIDE (G) 10ALCL3 1 9
 -139699+6+528090+5+198507+2+656360-5-298768+6+119441+3 4003000J 67011ALCL3 -6339
 -139699+6+528126+5+200003+2-187778-4-115788+7+119441+330006000J 67012ALCL3 -6339

-----NOTS-----													-----EST-----	
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T		
K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	K		
400	18.166	80.319	1.805	80.344	-0.025	1.813	-0.008	80.345	-0.026	1.815	-0.010	400		
600	19.034	87.878	5.540	87.873	0.005	5.533	0.007	87.876	0.002	5.537	0.003	600		
800	19.383	93.408	9.386	93.403	0.005	9.380	0.006	93.406	0.001	9.384	0.002	800		
1000	19.553	97.754	13.281	97.750	0.004	13.276	0.005	97.753	0.001	13.280	0.001	1000		
1200	19.648	101.328	17.202	101.326	0.002	17.199	0.003	101.328	-0.000	17.202	-0.000	1200		
1400	19.707	104.361	21.138	104.360	0.001	21.136	0.002	104.362	-0.001	21.139	-0.001	1400		
1600	19.745	106.996	25.084	106.995	0.001	25.082	0.002	106.996	-0.000	25.084	0.000	1600		
1800	19.771	109.323	29.035	109.322	0.001	29.034	0.001	109.323	-0.000	29.036	-0.001	1800		
2000	19.790	111.407	32.992	111.407	0.000	32.991	0.001	111.407	-0.000	32.992	0.000	2000		
2200	19.804	113.294	36.951	113.294	0.000	36.951	0.000	113.294	-0.000	36.951	0.000	2200		
2400	19.815	115.018	40.913	115.018	0.000	40.913	-0.000	115.018	0.000	40.913	0.000	2400		
2600	19.823	116.604	44.877	116.604	-0.000	44.877	-0.000	116.604	-0.000	44.877	0.000	2600		
2800	19.830	118.073	48.842	118.074	-0.001	48.843	-0.001	118.074	-0.001	48.842	-0.000	2800		
3000	19.835	119.442	52.809	119.442	0.000	52.810	-0.001	119.442	0.000	52.809	-0.000	3000		
3000	19.835	119.442	52.809	119.442	0.000	52.810	-0.001	119.442	0.000	52.813	-0.004	3000		
3200	19.840	120.722	56.776	120.722	-0.000	56.777	-0.001	120.721	0.001	56.777	-0.001	3200		
3400	19.843	121.925	60.745	121.925	-0.000	60.746	-0.001	121.924	0.001	60.743	0.002	3400		
3600	19.846	123.059	64.714	123.059	-0.000	64.715	-0.001	123.058	0.001	64.711	0.003	3600		
3800	19.849	124.132	68.683	124.132	-0.000	68.684	-0.001	124.131	0.001	68.681	0.002	3800		
4000	19.851	125.150	72.653	125.151	-0.001	72.654	-0.001	125.149	0.001	72.651	0.002	4000		
4200	19.853	126.119	76.624	126.119	-0.000	76.624	-0.000	126.117	0.001	76.622	0.002	4200		
4400	19.855	127.042	80.594	127.043	-0.001	80.595	-0.001	127.041	0.001	80.593	0.001	4400		
4600	19.856	127.925	84.565	127.925	-0.000	84.565	-0.000	127.924	0.001	84.565	0.000	4600		
4800	19.857	128.770	88.537	128.770	-0.000	88.536	0.001	128.769	0.001	88.537	0.000	4800		
5000	19.859	129.581	92.508	129.581	0.000	92.508	0.000	129.580	0.001	92.509	-0.001	5000		
5200	19.860	130.360	96.480	130.360	0.000	96.479	0.001	130.359	0.001	96.481	-0.001	5200		
5400	19.860	131.109	100.452	131.109	-0.000	100.451	0.001	131.108	0.001	100.453	-0.001	5400		
5600	19.861	131.832	104.424	131.832	0.000	104.424	0.000	131.831	0.001	104.424	-0.000	5600		
5800	19.862	132.528	108.397	132.529	-0.001	108.396	0.001	132.527	0.001	108.396	0.001	5800		
6000	19.863	133.202	112.369	133.202	-0.000	112.370	-0.001	133.201	0.001	112.367	0.002	6000		

ALUMINUM MONOFLUORIDE

(G) AL 1F 1 0 0 0 0

669

MOL. WT. = 45.980 BLOCK = 73 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -63.400 KEY = 15

FITS FOR NOTS RMS = 0.001755

1 9 1 13 0 0 0 0 0 0 0 ALUMINUM MONOFLUORIDE (G) 10J 669 15
 +8.8808555E+0+1.3618206E-1-1.2221429E-2+1.1082338E-3 400 6000 11J 669 15
 -1.7280578E-1-6.6588882E+1+6.1265243E+1-6.3399993E+1ALF(G) 12J 669 15

FITS FOR EST RMS LOW = 0.001245 RMS HIGH = 0.003174

1 9 1 13 0 0 0 0 0 0 0 ALUMINUM MONOFLUORIDE (G) 10ALF
 -633999+5+240364+5+891214+1+100127-3-178576+6+713949+2 4003000J 66911ALF
 -633999+5+240378+5+894739+1+911217-4-336336+6+713949+230006000J 66912ALF

-----NOTS-----														-----EST-----													
DN	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	SC	DS	HC	DH	SC	DS	HC	DH	SC	DS	HC	DH			
KC/H	K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H			
0.010	400	8.031	53.699	0.799	53.721	-0.022	0.806	-0.007	53.726	-0.027	0.809	-0.010	53.726	-0.027	0.809	-0.010	53.726	-0.027	0.809	-0.010	53.726	-0.027	0.809	-0.010			
0.003	600	8.485	57.053	2.456	57.048	0.005	2.451	0.005	57.049	0.004	2.453	0.003	57.049	0.004	2.453	0.003	57.049	0.004	2.453	0.003	57.049	0.004	2.453	0.003			
0.002	800	8.704	59.527	4.177	59.524	0.003	4.173	0.004	59.525	0.002	4.175	0.002	59.525	0.002	4.175	0.002	59.525	0.002	4.175	0.002	59.525	0.002	4.175	0.002			
0.001	1000	8.827	61.484	5.932	61.482	0.002	5.929	0.003	61.483	0.001	5.931	0.001	61.483	0.001	5.931	0.001	61.483	0.001	5.931	0.001	61.483	0.001	5.931	0.001			
0.000	1200	8.905	63.101	7.705	63.100	0.001	7.704	0.001	63.101	0.000	7.705	-0.000	63.101	0.000	7.705	-0.000	63.101	0.000	7.705	-0.000	63.101	0.000	7.705	-0.000			
0.001	1400	8.960	64.478	9.492	64.477	0.001	9.491	0.001	64.478	-0.000	9.493	-0.001	64.478	-0.000	9.493	-0.001	64.478	-0.000	9.493	-0.001	64.478	-0.000	9.493	-0.001			
0.000	1600	9.003	65.677	11.289	65.677	0.000	11.288	0.001	65.677	-0.001	11.289	-0.000	65.677	-0.001	11.289	-0.000	65.677	-0.001	11.289	-0.000	65.677	-0.001	11.289	-0.000			
0.001	1800	9.039	66.740	13.093	66.739	0.001	13.092	0.001	66.740	0.000	13.093	-0.000	66.740	0.000	13.093	-0.000	66.740	0.000	13.093	-0.000	66.740	0.000	13.093	-0.000			
0.000	2000	9.069	67.694	14.904	67.693	0.001	14.903	0.001	67.694	0.000	14.904	0.000	67.694	0.000	14.904	0.000	67.694	0.000	14.904	0.000	67.694	0.000	14.904	0.000			
0.000	2200	9.097	68.559	16.720	68.559	-0.000	16.720	-0.000	68.559	-0.000	16.720	-0.000	68.559	-0.000	16.720	-0.000	68.559	-0.000	16.720	-0.000	68.559	-0.000	16.720	-0.000			
0.000	2400	9.122	69.352	18.542	69.352	0.000	18.542	-0.000	69.352	0.000	18.542	0.000	69.352	0.000	18.542	0.000	69.352	0.000	18.542	0.000	69.352	0.000	18.542	0.000			
0.000	2600	9.145	70.083	20.369	70.083	-0.000	20.369	-0.000	70.083	0.000	20.369	0.000	70.083	0.000	20.369	0.000	70.083	0.000	20.369	0.000	70.083	0.000	20.369	0.000			
0.000	2800	9.168	70.762	22.200	70.762	0.000	22.201	-0.001	70.762	0.000	22.200	-0.000	70.762	0.000	22.200	-0.000	70.762	0.000	22.200	-0.000	70.762	0.000	22.200	-0.000			
0.000	3000	9.190	71.395	24.036	71.395	0.000	24.037	-0.001	71.395	0.000	24.036	-0.000	71.395	0.000	24.036	-0.000	71.395	0.000	24.036	-0.000	71.395	0.000	24.036	-0.000			
0.004	3000	9.190	71.395	24.036	71.395	0.000	24.037	-0.001	71.395	0.000	24.038	-0.002	71.395	0.000	24.038	-0.002	71.395	0.000	24.038	-0.002	71.395	0.000	24.038	-0.002			
0.001	3200	9.211	71.989	25.876	71.989	0.000	25.877	-0.001	71.988	0.001	25.877	-0.001	71.988	0.001	25.877	-0.001	71.988	0.001	25.877	-0.001	71.988	0.001	25.877	-0.001			
0.002	3400	9.231	72.548	27.720	72.548	0.000	27.721	-0.001	72.547	0.001	27.720	-0.000	72.547	0.001	27.720	-0.000	72.547	0.001	27.720	-0.000	72.547	0.001	27.720	-0.000			
0.003	3600	9.251	73.076	29.569	73.076	0.000	29.569	-0.000	73.075	0.001	29.568	0.001	73.075	0.001	29.568	0.001	73.075	0.001	29.568	0.001	73.075	0.001	29.568	0.001			
0.002	3800	9.271	73.577	31.421	73.577	0.000	31.421	-0.000	73.576	0.001	31.420	0.001	73.576	0.001	31.420	0.001	73.576	0.001	31.420	0.001	73.576	0.001	31.420	0.001			
0.002	4000	9.291	74.053	33.277	74.053	0.000	33.277	-0.000	74.052	0.001	33.276	0.001	74.052	0.001	33.276	0.001	74.052	0.001	33.276	0.001	74.052	0.001	33.276	0.001			
0.002	4200	9.310	74.506	35.137	74.506	-0.000	35.137	-0.000	74.506	0.000	35.136	0.001	74.506	0.000	35.136	0.001	74.506	0.000	35.136	0.001	74.506	0.000	35.136	0.001			
0.001	4400	9.330	74.940	37.001	74.940	0.000	37.001	-0.000	74.939	0.001	37.001	0.000	74.939	0.001	37.001	0.000	74.939	0.001	37.001	0.000	74.939	0.001	37.001	0.000			
0.000	4600	9.349	75.355	38.869	75.355	-0.000	38.869	0.000	75.355	0.000	38.869	0.000	75.355	0.000	38.869	0.000	75.355	0.000	38.869	0.000	75.355	0.000	38.869	0.000			
0.000	4800	9.369	75.753	40.741	75.753	-0.000	40.741	0.000	75.753	0.000	40.741	0.000	75.753	0.000	40.741	0.000	75.753	0.000	40.741	0.000	75.753	0.000	40.741	0.000			
0.001	5000	9.388	76.136	42.616	76.136	-0.000	42.616	-0.000	76.136	0.000	42.617	-0.001	76.136	0.000	42.617	-0.001	76.136	0.000	42.617	-0.001	76.136	0.000	42.617	-0.001			
0.001	5200	9.408	76.505	44.496	76.505	0.000	44.496	0.000	76.504	0.001	44.497	-0.001	76.504	0.001	44.497	-0.001	76.504	0.001	44.497	-0.001	76.504	0.001	44.497	-0.001			
0.001	5400	9.428	76.860	46.380	76.860	-0.000	46.379	0.001	76.860	0.000	46.380	-0.000	76.860	0.000	46.380	-0.000	76.860	0.000	46.380	-0.000	76.860	0.000	46.380	-0.000			
0.000	5600	9.449	77.204	48.267	77.203	0.001	48.267	-0.000	77.203	0.001	48.268	-0.001	77.203	0.001	48.268	-0.001	77.203	0.001	48.268	-0.001	77.203	0.001	48.268	-0.001			
0.001	5800	9.470	77.535	50.159	77.535	-0.000	50.159	-0.000	77.535	0.000	50.159	-0.000	77.535	0.000	50.159	-0.000	77.535	0.000	50.159	-0.000	77.535	0.000	50.159	-0.000			
0.002	6000	9.492	77.857	52.055	77.857	0.000	52.055	-0.000	77.856	0.001	52.054	0.001	77.856	0.001	52.054	0.001	77.856	0.001	52.054	0.001	77.856	0.001	52.054	0.001			

ALUMINUM OXYFLUORIDE (G) AL 1P 10 1
 MOL. WT.= 61.970 BLOCK= 79 NO. POINT = 62
 ATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -140.200 KEY = 16
 ITS FOR NOTS RMS = 0.003139
 8 1 9 1 13 0 0 0 0 0 ALUMINUM OXYFLUORIDE (G) 10J 364 16
 4783485E+1+7.7213943E-2-1.7693940E-2+1.3718428E-3 400 6000 11J 364 16
 2745056E-1-1.4625157E+2+7.1262695E+1-1.4019999E+2ALFO (G) 12J 364 16

364

ALU
 MO
 DATA
 FITS

2 9
 +1.380
 -3.950

ITS FOR EST RMS LOW = 0.003386 RMS HIGH = 0.004459
 8 1 9 1 13 0 0 0 0 0 ALUMINUM OXYFLUORIDE (G) 10ALFO
 0199+6+386914+5+148269+2+245666-4-534176+6+876979+2 4003000J 36411ALFO
 0199+6+386935+5+150053+2-148037-4-128409+7+876979+230006000J 36412ALFO

FITS
 2 9
 -16500
 -16500

-----NOTS-----

-----EST-----

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	K
010	12.018	59.328	1.162	59.395	-0.067	1.186	-0.024	59.399	-0.071	1.190	-0.028	400 1
003	13.381	64.498	3.721	64.487	0.011	3.710	0.011	64.488	0.010	3.713	0.008	600 1
002	13.989	68.441	6.465	68.432	0.009	6.456	0.009	68.434	0.007	6.459	0.006	800 1
001	14.299	71.600	9.297	71.595	0.005	9.292	0.005	71.597	0.003	9.295	0.002	1000 1
000	14.477	74.224	12.176	74.222	0.002	12.174	0.002	74.224	0.000	12.177	-0.001	1200 1
001	14.587	76.464	15.084	76.463	0.001	15.083	0.001	76.465	-0.001	15.085	-0.001	1400 1
000	14.659	78.417	18.009	78.417	0.000	18.009	0.000	78.418	-0.001	18.010	-0.001	1600 1
000	14.710	80.147	20.946	80.147	0.000	20.946	0.000	80.147	-0.000	20.947	-0.001	1800 1
000	14.746	81.699	23.892	81.698	0.001	23.892	0.000	81.699	0.000	23.892	-0.000	2000 1
000	14.773	83.106	26.844	83.105	0.001	26.844	0.000	83.105	0.001	26.843	0.001	2200 1
000	14.794	84.392	29.801	84.392	0.000	29.801	0.000	84.391	0.001	29.800	0.001	2400 1
000	14.810	85.577	32.761	85.576	0.001	32.761	-0.000	85.576	0.001	32.760	0.000	2600 1
000	14.823	86.675	35.725	86.675	0.000	35.725	0.000	86.674	0.000	35.724	0.001	2800 1
000	14.834	87.698	38.690	87.698	0.000	38.691	-0.001	87.698	0.000	38.691	-0.001	3000 1
002	14.834	87.698	38.690	87.698	0.000	38.691	-0.001	87.698	0.000	38.694	-0.004	3000 1
001	14.842	88.656	41.658	88.655	0.001	41.658	-0.000	88.655	0.001	41.659	-0.001	3200 1
000	14.849	89.556	44.627	89.555	0.001	44.628	-0.001	89.554	0.002	44.626	0.001	3400 1
001	14.855	90.405	47.598	90.404	0.001	47.598	-0.000	90.403	0.002	47.596	0.002	3600 1
001	14.860	91.208	50.569	91.208	0.000	50.570	-0.001	91.206	0.002	50.567	0.002	3800 1
001	14.864	91.970	53.542	91.970	0.000	53.542	-0.000	91.969	0.001	53.540	0.002	4000 1
001	14.868	92.696	56.515	92.695	0.001	56.515	-0.000	92.694	0.002	56.514	0.001	4200 1
000	14.871	93.387	59.489	93.387	0.000	59.489	-0.000	93.386	0.001	59.488	0.001	4400 1
000	14.874	94.048	62.463	94.048	-0.000	62.463	-0.000	94.047	0.001	62.463	-0.000	4600 1
001	14.877	94.682	65.438	94.681	0.001	65.438	-0.000	94.680	0.002	65.439	-0.001	4800 1
001	14.879	95.289	68.414	95.288	0.001	68.414	0.000	95.288	0.001	68.415	-0.001	5000 1
000	14.881	95.872	71.390	95.872	0.000	71.389	0.001	95.871	0.001	71.391	-0.001	5200 1
001	14.882	96.434	74.366	96.434	0.000	74.366	0.000	96.433	0.001	74.367	-0.001	5400 1
000	14.884	96.975	77.343	96.975	0.000	77.342	0.001	96.974	0.001	77.343	-0.000	5600 1
001	14.885	97.498	80.320	97.497	0.001	80.320	0.000	97.496	0.002	80.319	0.001	5800 1
001	14.887	98.002	83.297	98.002	-0.000	83.298	-0.001	98.001	0.001	83.296	0.001	6000 1

ALUMINUM DIFLUORIDE (G) AL 1F 2 964
 MOL. WT. = 64.970 BLOCK = 85 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = -165.000 KEY = 17
 FITS FOR NOTS RMS = 0.002915
 2 9 1 13 0 0 0 0 0 0 0 ALUMINUM DIFLUORIDE (G) 10J 964 17
 +1.3800271E+1+7.0112824E-2-1.5966184E-2+1.2319693E-3 400 6000 11J 964 17
 -3.9503479E-1-1.7032954E+2+7.8168304E+1-1.6500000E+2ALP2 (G) 12J 964 17

FITS FOR EST RMS LOW = 0.003028 RMS HIGH = 0.004365
 2 9 1 13 0 0 0 0 0 0 0 ALUMINUM DIFLUORIDE (G) 10ALP2
 -165000+6+364003+5+138378+2+232164-4-400016+6+935009+2 4003000J 96411ALP2
 -165000+6+364022+5+140073+2-141366-4-111395+7+935009+230006000J 96412ALP2

	-----NOTS-----								-----EST-----			
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M
8	400	11.802	66.725	1.161	66.785	-0.060	1.183	-0.022	66.786	-0.061	1.186	-0.025
8	600	12.761	71.717	3.630	71.707	0.010	3.621	0.009	71.707	0.010	3.623	0.007
6	800	13.210	75.457	6.232	75.449	0.008	6.224	0.008	75.450	0.007	6.227	0.005
2	1000	13.445	78.432	8.900	78.428	0.004	8.896	0.004	78.430	0.002	8.898	0.002
1	1200	13.580	80.897	11.604	80.895	0.002	11.602	0.002	80.896	0.001	11.604	-0.000
1	1400	13.665	82.997	14.329	82.996	0.001	14.328	0.001	82.997	-0.000	14.330	-0.001
1	1600	13.721	84.825	17.068	84.825	-0.000	17.068	0.000	84.826	-0.001	17.069	-0.001
1	1800	13.760	86.444	19.816	86.444	0.000	19.816	-0.000	86.444	0.000	19.817	-0.001
0	2000	13.788	87.895	22.571	87.895	0.000	22.571	-0.000	87.895	0.000	22.571	-0.000
1	2200	13.809	89.210	25.331	89.210	-0.000	25.331	0.000	89.210	0.000	25.330	0.001
1	2400	13.825	90.413	28.094	90.412	0.001	28.094	-0.000	90.412	0.001	28.093	0.001
0	2600	13.838	91.520	30.861	91.519	0.001	30.861	0.000	91.519	0.001	30.860	0.001
1	2800	13.848	92.546	33.629	92.545	0.001	33.629	-0.000	92.545	0.001	33.629	0.000
1	3000	13.856	93.501	36.399	93.501	0.000	36.400	-0.001	93.501	0.000	36.400	-0.001
4	3000	13.856	93.501	36.399	93.501	0.000	36.400	-0.001	93.501	0.000	36.402	-0.003
1	3200	13.862	94.396	39.171	94.395	0.001	39.172	-0.001	94.395	0.001	39.172	-0.001
1	3400	13.868	95.236	41.944	95.236	-0.000	41.945	-0.001	95.235	0.001	41.943	0.001
2	3600	13.872	96.029	44.718	96.029	0.000	44.719	-0.001	96.027	0.002	44.717	0.001
2	3800	13.876	96.779	47.493	96.779	0.000	47.494	-0.001	96.778	0.001	47.492	0.001
2	4000	13.880	97.491	50.269	97.491	0.000	50.269	-0.000	97.489	0.002	50.267	0.002
1	4200	13.883	98.168	53.045	98.168	-0.000	53.046	-0.001	98.167	0.001	53.044	0.001
1	4400	13.885	98.814	55.822	98.814	0.000	55.822	-0.000	98.813	0.001	55.821	0.001
0	4600	13.887	99.431	58.599	99.431	-0.000	58.599	-0.000	99.430	0.001	58.599	0.000
1	4800	13.889	100.023	61.377	100.022	0.001	61.377	0.000	100.021	0.002	61.377	-0.000
1	5000	13.891	100.590	64.155	100.589	0.001	64.154	0.001	100.588	0.002	64.155	-0.000
1	5200	13.892	101.134	66.933	101.134	0.000	66.933	0.000	101.133	0.001	66.934	-0.001
1	5400	13.894	101.659	69.712	101.658	0.001	69.711	0.001	101.658	0.001	69.712	-0.000
0	5600	13.895	102.164	72.491	102.164	0.000	72.490	0.001	102.163	0.001	72.491	0.000
1	5800	13.896	102.652	75.270	102.651	0.001	75.270	0.000	102.650	0.002	75.269	0.001
1	6000	13.897	103.123	78.049	103.123	0.000	78.050	-0.001	103.121	0.002	78.048	0.001

DATA F
 FITS F
 9 1
 .96637
 .37432

FITS F
 9 1
 .51000+
 .51000+

T
 K C/
 400 20.
 600 22.
 800 23.
 1000 25.
 1200 23.
 1400 24.
 1600 24.
 1800 24.
 2000 25.
 2200 25.
 2400 25.
 2600 25.
 2800 25.
 3000 26.
 3200 26.
 3400 26.
 3600 27.
 3800 27.
 4000 27

DA
FI
3
+1.9
-6.4

FI
3
-2890
-2890

[illegible]

ALUMINUM TRIFLUORIDE (G) AL 1P 3 0 0 0 0 670
 MOL. WT. = 83.970 BLOCK = 94 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -289.035 KEY = 19
 FITS FOR NOTS RMS = 0.004340
 3 9 1 13 0 0 0 0 0 0 0 ALUMINUM TRIFLUORIDE (G) 10J 670 19
 +1.9684295E+1+1.1880284E-1-2.6996824E-2+2.0765941E-3 400 6000 11J 670 19
 -6.4556884E-1-2.9689453E+2+8.6828735E+1-2.8903491E+2ALF3(G) 12J 670 19

FITS FOR EST RMS LOW = 0.004701 RMS HIGH = 0.005988
 3 9 1 13 0 0 0 0 0 0 0 ALUMINUM TRIFLUORIDE (G) 10ALF3
 -289034+6+517438+5+197463+2+403943-4-653488+6+108743+3 4003000J 67011ALF3
 -289034+6+517461+5+200123+2-205662-4-172313+7+108743+330006000J 67012ALF3

H C/M	-----NOTS-----												-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M				
.171	400	16.402	70.760	1.601	70.855	-0.095	1.637	-0.036	70.858	-0.098	1.641	-0.040				
.047	600	17.985	77.753	5.061	77.737	0.016	5.046	0.015	77.738	0.015	5.049	0.012				
.140	800	18.723	83.040	8.741	83.027	0.013	8.728	0.013	83.030	0.010	8.732	0.009				
.093	1000	19.107	87.264	12.527	87.258	0.006	12.521	0.006	87.260	0.004	12.525	0.002				
.066	1200	19.329	90.769	16.373	90.766	0.003	16.371	0.002	90.768	0.001	16.374	-0.001				
.040	1400	19.468	93.760	20.254	93.758	0.002	20.253	0.001	93.760	-0.000	20.256	-0.002				
.023	1600	19.560	96.365	24.157	96.365	0.000	24.157	-0.000	96.366	-0.001	24.159	-0.002				
.012	1800	19.624	98.673	28.076	98.673	0.000	28.076	-0.000	98.673	-0.000	28.077	-0.001				
.004	2000	19.670	100.743	32.005	100.743	0.000	32.006	-0.001	100.742	0.001	32.005	-0.000				
.000	2200	19.704	102.620	35.943	102.619	0.001	35.943	-0.000	102.618	0.002	35.942	0.001				
.003	2400	19.731	104.335	39.886	104.335	0.000	39.887	-0.001	104.334	0.001	39.885	0.001				
.004	2600	19.751	105.916	43.835	105.915	0.001	43.835	0.000	105.914	0.002	43.834	0.001				
.003	2800	19.768	107.380	47.787	107.379	0.001	47.787	-0.000	107.379	0.001	47.787	0.000				
.003	3000	19.781	108.744	51.742	108.744	0.000	51.742	-0.000	108.744	0.000	51.744	-0.002				
.003	3000	19.781	108.744	51.742	108.744	0.000	51.742	-0.000	108.744	0.000	51.746	-0.004				
.001	3200	19.792	110.021	55.699	110.021	0.000	55.700	-0.001	110.020	0.001	55.700	-0.001				
.001	3400	19.801	111.221	59.658	111.221	0.000	59.659	-0.001	111.219	0.002	59.657	0.001				
.000	3600	19.809	112.353	63.619	112.353	0.000	63.620	-0.001	112.351	0.002	63.617	0.002				
.000	3800	19.815	113.425	67.582	113.424	0.001	67.583	-0.001	113.422	0.003	67.579	0.003				
.001	4000	19.821	114.441	71.545	114.441	0.000	71.546	-0.001	114.439	0.002	71.543	0.002				
.001	4200	19.825	115.408	75.510	115.408	0.000	75.511	-0.001	115.406	0.002	75.508	0.002				
.001	4400	19.829	116.331	79.475	116.330	0.001	79.476	-0.001	116.329	0.002	79.474	0.001				
	4600	19.833	117.212	83.442	117.212	0.000	83.442	0.000	117.210	0.002	83.441	0.001				
	4800	19.836	118.056	87.408	118.056	0.000	87.408	-0.000	118.054	0.002	87.409	-0.001				
	5000	19.839	118.866	91.376	118.865	0.001	91.376	0.000	118.864	0.002	91.376	-0.001				
	5200	19.841	119.644	95.344	119.643	0.001	95.343	0.001	119.643	0.001	95.345	-0.001				
	5400	19.844	120.393	99.312	120.392	0.001	99.312	0.000	120.391	0.002	99.313	-0.001				
	5600	19.846	121.115	103.281	121.114	0.001	103.281	0.000	121.113	0.002	103.282	-0.001				
	5800	19.847	121.811	107.251	121.811	0.000	107.251	0.000	121.809	0.002	107.250	0.001				
	6000	19.849	122.484	111.220	122.484	0.000	111.221	-0.001	122.482	0.002	111.218	0.002				

ALUMINUM MONOHYDRIDE (G) AL 1H 1
 MOL. WT. = 27.980 BLOCK = 101 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 62.000 KEY = 20
 FITS FOR NOTS RMS = 0.006584
 1 1 13 0 0 0 0 0 0 0 ALUMINUM MONOHYDRIDE (G) 10J 663 20
 .3867998E+0+4.9508106E-1-7.2360992E-2+5.3098388E-3 400 6000 11J 663 20
 .9401245E-1+5.8410171E+1+5.3383926E+1+6.2000000E+1ALH(G) 12J 663 20

663

ALUMINI
 MOL. 1
 DATA FRO
 FITS FOI
 1 1 1
 +1.411406
 -1.076461

FITS FOR EST RMS LOW = 0.010330 RMS HIGH = 0.003066
 1 1 13 0 0 0 0 0 0 0 ALUMINUM MONOHYDRIDE (G) 10ALH
 20000+5+233918+5+859583+1+268116-3-434112+6+638289+2 4003000J 66311ALH
 20000+5+233894+5+899979+1+151458-3-130427+7+638289+230006000J 66312ALH

FITS FOI
 1 1 1
 +800000+4
 +800000+4

-----NOTS-----

-----EST-----

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C
K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	K	C/H
400	7.180	46.958	0.722	47.123	-0.165	0.788	-0.066	47.145	-0.187	0.798	-0.076	400	9.5
600	7.650	49.956	2.204	49.931	0.025	2.133	0.021	49.930	0.026	2.182	0.022	600	11.4
800	8.068	52.217	3.778	52.194	0.023	3.759	0.019	52.193	0.024	3.758	0.020	800	12.6
1000	8.370	54.051	5.424	54.042	0.009	5.416	0.008	54.042	0.009	5.417	0.007	1000	13.3
1200	8.585	55.598	7.120	55.595	0.003	7.120	-0.000	55.597	0.001	7.123	-0.003	1200	13.7
1400	8.742	56.933	8.854	56.933	-0.000	8.857	-0.003	56.935	-0.002	8.860	-0.006	1400	14.0
1600	8.863	58.109	10.615	58.109	-0.000	10.619	-0.004	58.111	-0.002	10.621	-0.006	1600	14.2
1800	8.959	59.158	12.397	59.159	-0.001	12.401	-0.004	59.159	-0.001	12.401	-0.004	1800	14.3
2000	9.039	60.107	14.197	60.106	0.001	14.199	-0.002	60.106	0.001	14.198	-0.001	2000	14.4
2200	9.107	60.971	16.012	60.970	0.001	16.013	-0.001	60.969	0.002	16.010	0.002	2200	14.5
2400	9.168	61.767	17.840	61.765	0.002	17.839	0.001	61.764	0.003	17.836	0.004	2400	14.5
2600	9.222	62.503	19.679	62.500	0.003	19.677	0.002	62.500	0.003	19.675	0.004	2600	14.6
2800	9.272	63.188	21.528	63.186	0.002	21.527	0.001	63.186	0.002	21.527	0.001	2800	14.6
3000	9.319	63.829	23.387	63.827	0.002	23.386	0.001	63.829	0.000	23.392	-0.005	3000	14.7
3200	9.319	63.829	23.387	63.827	0.002	23.386	0.001	63.829	0.000	23.389	-0.002	3200	14.7
3400	9.363	64.432	25.256	64.430	0.002	25.255	0.001	64.431	0.001	25.256	-0.000	3400	14.7
3600	9.405	65.001	27.132	64.999	0.002	27.132	-0.000	65.000	0.001	27.132	-0.000	3600	14.7
3800	9.446	65.540	29.018	65.538	0.002	29.018	0.000	65.539	0.001	29.017	0.001	3800	14.7
4000	9.485	66.051	30.911	66.050	0.001	30.911	-0.000	66.050	0.001	30.910	0.001	4000	14.7
4200	9.523	66.539	32.811	66.538	0.001	32.813	-0.002	66.538	0.001	32.811	0.000	4200	14.7
4400	9.561	67.004	34.720	67.003	0.001	34.721	-0.001	67.003	0.001	34.719	0.001	4400	14.8
4600	9.597	67.450	36.636	67.449	0.001	36.637	-0.001	67.449	0.001	36.635	0.001	4600	14.8
4800	9.633	67.877	38.559	67.876	0.001	38.560	-0.001	67.877	0.000	38.559	0.000	4800	14.8
5000	9.669	68.288	40.489	68.287	0.001	40.489	-0.000	68.287	0.001	40.489	-0.000	5000	14.8
5200	9.704	68.684	42.426	68.682	0.002	42.426	-0.000	68.683	0.001	42.427	-0.001	5200	14.8
5400	9.739	69.065	44.371	69.063	0.002	44.370	0.001	69.064	0.001	44.371	-0.000	5400	14.8
5600	9.773	69.433	46.322	69.431	0.002	46.321	0.001	69.432	0.001	46.322	-0.000	5600	14.8
5800	9.808	69.789	48.280	69.787	0.002	48.279	0.001	69.788	0.001	48.280	-0.000	5800	14.8
6000	9.842	70.134	50.245	70.132	0.002	50.245	0.000	70.133	0.001	50.245	0.000	6000	14.8
	9.876	70.468	52.217	70.467	0.001	52.218	-0.001	70.467	0.001	52.216	0.001		

ALUMINUM MONOXYHYDRIDE (G) AL 1H 10 1 364
 MOL. WT.= 43.980 BLOCK= 107 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 8.000 KEY = 21
 FITS FOR NOTS RMS = 0.010658
 1 1 1 8 1 13 0 0 0 0 0 ALUMINUM MONOXYHYDRIDE (G) 10J 364 21
 +1.4114069E+1+4.8304510E-1-1.0525059E-1+7.7737793E-3 400 6000 11J 364 21
 -1.0764617E+0+6.4682006E-1+6.3739898E+1+8.0000000E+0ALHO (G) 12J 364 21

FITS FOR EST RMS LOW = 0.016273 RMS HIGH = 0.004627
 1 1 1 8 1 13 0 0 0 0 0 ALUMINUM MONOXYHYDRIDE (G) 10ALHO
 +800000+4+367407+5+144102+2+156551-3-113124+7+803549+2 4003000J 36411ALHO
 +800000+4+367372+5+150049+2-147895-4-245964+7+803549+230006000J 36412ALHO

LUM:
 MOL.
 TA 1
 TS 1
 1 2
 934
 766

TS
 1 2
 000
 000

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	C
76	400	9.541	54.072	0.907	54.356	-0.284	1.020	-0.113	54.385	-0.313	1.033	-0.126	13
22	600	11.495	58.341	3.026	58.297	0.044	2.989	0.037	58.295	0.046	2.988	0.038	15
20	800	12.656	61.822	5.452	61.785	0.036	5.421	0.031	61.785	0.037	5.421	0.031	16
07	1000	13.342	64.726	8.057	64.711	0.015	8.046	0.011	64.713	0.013	8.048	0.009	17
03	1200	13.767	67.199	10.771	67.195	0.004	10.772	-0.001	67.199	-0.000	10.776	-0.005	17
06	1400	14.043	69.344	13.554	69.344	0.000	13.560	-0.006	69.348	-0.004	13.564	-0.010	18
06	1600	14.232	71.232	16.383	71.233	-0.001	16.389	-0.006	71.236	-0.004	16.392	-0.009	18
04	1800	14.366	72.916	19.243	72.916	-0.000	19.248	-0.005	72.918	-0.002	19.249	-0.006	18
01	2000	14.464	74.435	22.127	74.434	0.001	22.130	-0.003	74.434	0.001	22.128	-0.001	18
02	2200	14.538	75.817	25.027	75.815	0.002	25.028	-0.001	75.814	0.003	25.024	0.003	18
04	2400	14.594	77.085	27.941	77.082	0.003	27.940	0.001	77.081	0.004	27.935	0.006	19
04	2600	14.639	78.255	30.864	78.251	0.004	30.862	0.002	78.251	0.004	30.859	0.005	19
01	2800	14.675	79.341	33.796	79.337	0.004	33.793	0.003	79.339	0.002	33.795	0.001	19
05	3000	14.704	80.355	36.734	80.351	0.004	36.732	0.002	80.355	0.000	36.741	-0.007	19
02	3000	14.704	80.355	36.734	80.351	0.004	36.732	0.002	80.355	0.000	36.737	-0.003	19
00	3200	14.728	81.304	39.677	81.301	0.003	39.676	0.001	81.304	0.000	39.678	-0.001	19
00	3400	14.748	82.198	42.624	82.195	0.003	42.624	-0.000	82.197	0.001	42.624	0.000	19
01	3600	14.764	83.041	45.576	83.038	0.003	45.576	-0.000	83.040	0.001	45.574	0.002	19
01	3800	14.779	83.840	48.530	83.837	0.003	48.531	-0.001	83.839	0.001	48.528	0.002	19
00	4000	14.791	84.598	51.487	84.596	0.002	51.489	-0.002	84.597	0.001	51.485	0.002	19
01	4200	14.801	85.320	54.446	85.318	0.002	54.448	-0.002	85.319	0.001	54.445	0.001	19
01	4400	14.810	86.009	57.407	86.006	0.003	57.409	-0.002	86.008	0.001	57.407	0.000	19
00	4600	14.818	86.668	60.370	86.665	0.003	60.371	-0.001	86.667	0.001	60.370	0.000	19
00	4800	14.825	87.298	63.335	87.295	0.003	63.335	0.000	87.297	0.001	63.335	0.000	19
01	5000	14.831	87.904	66.300	87.901	0.003	66.300	0.000	87.903	0.001	66.301	-0.001	19
00	5200	14.837	88.485	69.267	88.482	0.003	69.266	0.001	88.485	0.000	69.268	-0.001	19
00	5400	14.842	89.045	72.235	89.042	0.003	72.233	0.002	89.045	0.000	72.235	-0.001	19
00	5600	14.846	89.585	75.204	89.582	0.003	75.202	0.002	89.584	0.001	75.204	0.000	19
00	5800	14.850	90.106	78.173	90.103	0.003	78.173	0.000	90.105	0.001	78.173	0.000	19
01	6000	14.854	90.610	81.144	90.607	0.003	81.146	-0.002	90.609	0.001	81.142	0.002	19

ALUMINUM DIOXYHYDRIDE (G) AL 1H 10 2 0 0 0 1268
 MOL. WT.= 59.980 BLOCK= 113 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -110.000 KEY = 22
 FITS FOR NOTS RMS = 0.017800
 1 2 8 1 13 0 0 0 0 0 ALUMINUM DIOXYHYDRIDE (G) 10J1268 22
 6934783E+1+1.6223306E+0-3.2938760E-1+2.3111522E-2 400 6000 11J1268 22
 7766113E-1-1.1789151E+2+7.6714996E+1-1.1000000E+2ALHO2 (G) 12J1268 22

LITHI
 MOL.
 DATA F
 FITS F
 2 8 1
 +1.96784
 -1.52877

FITS FOR EST RMS LOW = 0.031487 RMS HIGH = 0.005796
 1 2 8 1 13 0 0 0 0 0 ALUMINUM DIOXYHYDRIDE (G) 10ALHO2
 000+6+480648+5+179630+2+550930-3-118857+7+989729+2 4003000J126811ALHO2
 000+6+480523+5+199312+2-103753-4-515251+7+989729+23000000J126812ALHO2

FITS F
 2 8 1
 -284328+
 -284328+

-----NOTS-----

-----EST-----

CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	
C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K C/	
6	13.483	64.512	1.301	64.876	-0.364	1.449	-0.148	64.995	-0.483	1.501	-0.200	400 19.
8	15.360	70.373	4.204	70.338	0.035	4.168	0.036	70.325	0.048	4.158	0.046	600 22.
1	16.436	74.951	7.392	74.896	0.055	7.344	0.048	74.881	0.070	7.333	0.059	800 23.
9	17.154	78.700	10.755	78.669	0.031	10.728	0.027	78.665	0.035	10.727	0.028	1000 24.
5	17.681	81.877	14.241	81.865	0.012	14.235	0.006	81.869	0.008	14.243	-0.002	1200 25.
0	18.081	84.634	17.819	84.632	0.002	17.826	-0.007	84.638	-0.004	17.838	-0.019	1400 25.
9	18.391	87.069	21.468	87.071	-0.002	21.480	-0.012	87.076	-0.007	21.489	-0.021	1600 26.
6	18.632	89.250	25.171	89.251	-0.001	25.183	-0.012	89.253	-0.003	25.187	-0.016	1800 27.
1	18.823	91.223	28.917	91.223	-0.000	28.926	-0.009	91.221	0.002	28.923	-0.006	2000 27.
3	18.976	93.025	32.698	93.022	0.003	32.702	-0.004	93.018	0.007	32.693	0.005	2200 28.
6	19.099	94.681	36.506	94.677	0.004	36.505	0.001	94.671	0.010	36.494	0.012	2400 28.
5	19.199	96.214	40.336	96.209	0.005	40.333	0.003	96.204	0.010	40.324	0.012	2600 28.
1	19.282	97.640	44.184	97.634	0.006	44.179	0.005	97.633	0.007	44.181	0.003	2800 28.
7	19.351	98.973	48.048	98.967	0.006	48.043	0.005	98.973	0.000	48.065	-0.017	3000 28.
3	19.351	98.973	48.048	98.967	0.006	48.043	0.005	98.973	0.000	48.052	-0.004	
1	19.408	100.223	51.924	100.218	0.005	51.920	0.004	100.223	0.000	51.925	-0.001	
0	19.457	101.402	55.810	101.396	0.006	55.808	0.002	101.400	0.002	55.809	0.001	
2	19.499	102.515	59.706	102.510	0.005	59.706	0.000	102.513	0.002	59.704	0.002	
2	19.535	103.570	63.610	103.566	0.004	63.611	-0.001	103.568	0.002	63.608	0.002	
2	19.566	104.573	67.520	104.569	0.004	67.523	-0.003	104.571	0.002	67.518	0.002	
1	19.593	105.528	71.436	105.525	0.003	71.440	-0.004	105.527	0.001	71.434	0.002	
0	19.617	106.440	75.357	106.437	0.003	75.361	-0.004	106.439	0.001	75.356	0.001	
0	19.637	107.313	79.282	107.309	0.004	79.285	-0.003	107.311	0.002	79.282	0.000	
0	19.656	108.149	83.211	108.145	0.004	83.213	-0.002	108.148	0.001	83.212	-0.001	
1	19.672	108.952	87.144	108.947	0.005	87.144	0.000	108.950	0.002	87.145	-0.001	
1	19.687	109.723	91.080	109.719	0.004	91.078	0.002	109.722	0.001	91.081	-0.001	
0	19.700	110.467	95.019	110.462	0.005	95.015	0.004	110.466	0.001	95.019	-0.000	
0	19.711	111.183	98.960	111.178	0.005	98.956	0.004	111.182	0.001	98.960	-0.000	
0	19.722	111.875	102.903	111.871	0.004	102.902	0.001	111.874	0.001	102.903	0.000	
2	19.731	112.544	106.849	112.541	0.003	106.854	-0.005	112.542	0.002	106.847	0.002	


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LITHIUM ALUMINATE (C) AL 1LI 10 2 961
MOL. WT.= 65.910 BLOCK= 120 NO. POINT = 32
DATA FROM 0 TO 3000 K HFORM(KCAL/(MOLE)) = -284.329 KEY = 23
FITS FOR NOTS RMS = 0.028761
2 8 1 13 1 71 0 0 0 0 0 LITHIUM ALUMINATE (C) 30J 961 23
+1.9678451E+1+4.9983749E+0+2.1827280E-2-2.6433062E-1 400 3000 31J 961 23
-1.5287780E-1-2.9120849E+2+3.3418197E+1-2.8432885E+2ALLIO2(C) 32J 961 23

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PITS FOR EST RMS LOW = 0.141462 RMS HIGH = 0.141462
 2 8 1 13 1 71 0 0 0 0 0 LITHIUM ALUMINATE (C) 30ALLIO2\$
 -284328+6+696448+5+258633+2+101233-2-208232+7+677619+2 4003000J 96131ALLIO2\$
 -284328+6+696448+5+258633+2+101233-2-208232+7+677619+2 4003000J 96132ALLIO2\$

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ALUMINUM NITRIDE (G) AL 1N 1 0 0 0 0 367
 MOL. WT. = 40.980 BLOCK = 126 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = 104.000 KEY = 25
 FITS FOR NOTS RMS = 0.002048
 1 7 1 13 0 0 0 0 0 0 ALUMINUM NITRIDE (G) 10J 367 25
 +8.8662967E+0+1.3864386E-1-1.0863937E-2+8.3924527E-4 400 6000 11J 367 25
 -2.2158813E-1+1.0068357E+2+6.0237106E+1+1.0400000E+2ALN(G) 12J 367 25

FITS FOR EST RMS LOW = 0.002161 RMS HIGH = 0.003010
 1 7 1 13 0 0 0 0 0 0 ALUMINUM NITRIDE (G) 10ALN
 +104000+6+239001+5+889003+1+107563-3-224032+6+703649+2 4003000J 36711ALN
 +104000+6+239015+5+900808+1+812431-4-720688+6+703649+230006000J 36712ALN

-----NOTS-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
5 0.028	400	7.838	52.818	0.779	52.860	-0.042	0.795	-0.016	52.860	-0.042	0.796	-0.017	
3 -0.001	600	8.347	56.104	2.403	56.097	0.007	2.397	0.006	56.098	0.006	2.398	0.005	
3 -0.017	800	8.612	58.545	4.102	58.539	0.006	4.096	0.006	58.540	0.005	4.098	0.004	
3 -0.011	1000	8.763	60.484	5.840	60.481	0.003	5.837	0.003	60.483	0.001	5.839	0.001	
2 0.003	1200	8.858	62.091	7.603	62.090	0.001	7.602	0.001	62.091	0.000	7.603	-0.000	
1 0.008	1400	8.925	63.462	9.382	63.461	0.001	9.381	0.001	63.462	-0.000	9.383	-0.001	
8 0.006	1600	8.976	64.657	11.172	64.657	0.000	11.172	-0.000	64.657	-0.000	11.173	-0.001	
0 0.003	1800	9.017	65.717	12.971	65.716	0.001	12.972	-0.001	65.717	0.000	12.972	-0.001	
2 -0.001	2000	9.052	66.668	14.778	66.668	-0.000	14.779	-0.001	66.668	-0.000	14.779	-0.001	
2 -0.003	2200	9.082	67.533	16.592	67.532	0.001	16.592	0.000	67.532	0.001	16.592	0.000	
9 -0.003	2400	9.110	68.324	18.411	68.324	0.000	18.411	-0.000	68.324	0.000	18.411	0.000	
1 -0.001	2600	9.135	69.054	20.236	69.054	-0.000	20.236	0.000	69.054	0.000	20.235	0.001	
0 -0.001	2800	9.159	69.732	22.065	69.732	0.000	22.065	-0.000	69.732	0.000	22.065	-0.000	
2 0.003	3000	9.182	70.365	23.899	70.365	0.000	23.899	-0.000	70.365	0.000	23.900	-0.001	
	3000	9.182	70.365	23.899	70.365	0.000	23.899	-0.000	70.365	0.000	23.902	-0.003	
	3200	9.204	70.958	25.738	70.958	0.000	25.738	-0.000	70.958	0.000	25.738	-0.001	
	3400	9.226	71.517	27.581	71.517	0.000	27.581	-0.000	71.516	0.001	27.580	0.001	
	3600	9.247	72.045	29.428	72.045	0.000	29.428	-0.000	72.044	0.001	29.427	0.001	
	3800	9.267	72.545	31.279	72.545	-0.000	31.280	-0.001	72.544	0.001	31.278	0.001	
	4000	9.287	73.021	33.135	73.021	0.000	33.135	-0.000	73.020	0.001	33.134	0.001	
	4200	9.307	73.475	34.994	73.474	0.001	34.995	-0.001	73.474	0.001	34.994	0.000	
	4400	9.327	73.908	36.858	73.908	0.000	36.858	0.000	73.907	0.001	36.857	0.001	
	4600	9.346	74.323	38.725	74.323	0.000	38.725	0.000	74.322	0.001	38.725	0.000	
	4800	9.365	74.721	40.596	74.721	0.000	40.596	0.000	74.721	0.000	40.596	-0.000	
	5000	9.385	75.104	42.471	75.104	0.000	42.471	0.000	75.103	0.001	42.472	-0.001	
	5200	9.404	75.472	44.350	75.472	-0.000	44.350	0.000	75.472	0.000	44.350	-0.001	
	5400	9.423	75.828	46.233	75.827	0.001	46.232	0.001	75.827	0.001	46.233	-0.000	
	5600	9.441	76.171	48.119	76.170	0.001	48.119	0.000	76.170	0.001	48.119	-0.000	
	5800	9.460	76.502	50.009	76.502	-0.000	50.009	-0.000	76.502	0.000	50.009	-0.000	
	6000	9.479	76.823	51.903	76.823	-0.000	51.904	-0.001	76.823	0.000	51.902	0.001	

363

ALUMINUM
MOL. W
DATA FROM
PITS FOR
1 8 1 1
+4.7808904
+1.0780334

(C)	30J	363	26
	31J	363	26
	32J	363	26

FITS FOI
1 8 1 1
+200000+5
+200000+5

-----NOTS-----

-----EST-----

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ALUMINUM MONOXIDE

(G) AL 10 1 0 0 0 0

670

MOL. WT. = 42.980 BLOCK = 136 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 20.000 KEY = 27

FITS FOR NOTS RMS = 0.057855

1 8 1 13 0 0 0 0 0 0 0 ALUMINUM MONOXIDE (G) 10J 670 27
 +4.7808904E+0+5.2257099E+0-1.3354873E+0+1.0521769E-1 400 6000 11J 670 27
 +1.0780334E-1+1.8879287E+1+5.7419876E+1+2.0000000E+1ALO(G) 12J 670 27

FITS FOR EST RMS LOW = 0.071990 RMS HIGH = 0.018926

1 8 1 13 0 0 0 0 0 0 0 ALUMINUM MONOXIDE (G) 10ALO
 +200000+5+268864+5+869951+1+104466-2-649472+6+732929+2 4003000J 67011ALO
 +200000+5+268222+5+109983+2-106919-3+684761+7+732929+230006000J 67012ALO

--		-----NOTS-----								-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
(C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.147	400	7.765	54.392	0.772	54.688	-0.296	0.912	-0.140	55.042	-0.650	1.057	-0.285	
0.120	600	8.290	57.651	2.382	57.731	-0.080	2.416	-0.034	57.650	0.001	2.361	0.021	
0.203	800	8.601	60.081	4.073	60.040	0.041	4.024	0.049	59.967	0.114	3.976	0.097	
0.129	1000	8.882	62.030	5.821	61.959	0.071	5.746	0.075	61.935	0.095	5.742	0.079	
0.046	1200	9.224	63.678	7.631	63.624	0.054	7.574	0.057	63.631	0.047	7.603	0.028	
0.022	1400	9.628	65.130	9.515	65.104	0.026	9.496	0.019	65.121	0.009	9.537	-0.022	
0.063	1600	10.051	66.443	11.483	66.441	0.002	11.499	-0.016	66.453	-0.010	11.533	-0.050	
0.068	1800	10.445	67.650	13.533	67.661	-0.011	13.571	-0.038	67.660	-0.010	13.583	-0.050	
0.043	2000	10.774	68.768	15.656	68.781	-0.013	15.698	-0.042	68.766	0.002	15.683	-0.027	
0.002	2200	11.022	69.807	17.837	69.816	-0.009	17.871	-0.034	69.790	0.017	17.833	0.004	
0.043	2400	11.190	70.774	20.060	70.776	-0.002	20.077	-0.017	70.745	0.029	20.028	0.032	
0.053	2600	11.286	71.674	22.309	71.669	0.005	22.309	0.000	71.642	0.032	22.270	0.039	
0.020	2800	11.323	72.512	24.570	72.502	0.010	24.557	0.013	72.489	0.023	24.556	0.014	
0.068	3000	11.317	73.293	26.835	73.281	0.012	26.813	0.022	73.293	0.000	26.886	-0.051	
	3000	11.317	73.293	26.835	73.281	0.012	26.813	0.022	73.293	0.000	26.822	0.013	
	3200	11.281	74.023	29.095	74.009	0.014	29.071	0.024	74.027	-0.004	29.098	-0.003	
	3400	11.225	74.705	31.346	74.693	0.012	31.326	0.020	74.711	-0.006	31.353	-0.007	
	3600	11.158	75.345	33.585	75.335	0.010	33.572	0.013	75.350	-0.005	33.590	-0.005	
	3800	11.086	75.946	35.809	75.939	0.007	35.806	0.003	75.951	-0.005	35.811	-0.002	
	4000	11.014	76.513	38.019	76.508	0.005	38.025	-0.006	76.517	-0.004	38.017	0.002	
	4200	10.945	77.049	40.215	77.045	0.004	40.228	-0.013	77.052	-0.003	40.211	0.004	
	4400	10.880	77.556	42.398	77.554	0.002	42.414	-0.016	77.559	-0.003	42.392	0.006	
	4600	10.822	78.039	44.568	78.036	0.003	44.583	-0.015	78.042	-0.003	44.563	0.005	
	4800	10.770	78.498	46.727	78.494	0.004	46.737	-0.010	78.502	-0.004	46.725	0.002	
	5000	10.724	78.937	48.876	78.931	0.006	48.877	-0.003	78.941	-0.004	48.877	-0.001	
	5200	10.685	79.357	51.017	79.349	0.008	51.010	0.007	79.361	-0.004	51.020	-0.003	
	5400	10.653	79.759	53.151	79.751	0.008	53.137	0.014	79.764	-0.005	53.155	-0.004	
	5600	10.628	80.146	55.279	80.137	0.009	55.264	0.015	80.151	-0.005	55.282	-0.003	
	5800	10.608	80.519	57.402	80.512	0.007	57.397	0.005	80.523	-0.004	57.402	-0.000	
	6000	10.594	80.878	59.522	80.876	0.002	59.545	-0.023	80.881	-0.003	59.515	0.007	

ALUMINUM SULFIDE (G) AL 1S 1 364
 MOL. WT.= 59.040 BLOCK= 142 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 48.000 KEY = 28
 FITS FOR NOTS RMS = 0.001692
 1 13 1 16 0 0 0 0 0 0 0 ALUMINUM SULFIDE (G) 10J 364 28
 +8.9343490E+0+1.0076618E-1-1.8497456E-3+1.7215288E-4 400 6000 11J 364 28 +4
 -1.1779785E-1+4.4960159E+1+6.5280990E+1+4.8000000E+1ALS(G) 12J 364 28 -6

FITS FOR EST RMS LOW = 0.000813 RMS HIGH = 0.003058
 1 13 1 16 0 0 0 0 0 0 0 ALUMINUM SULFIDE (G) 10ALS 2
 +480000+5+242424+5+893291+1+974274-4-115888+6+753979+2 4003000J 36411ALS -3
 +480000+5+242443+5+901135+1+842379-4-566416+6+753979+230006000J 36412ALS -3

-----NOTS-----								-----EST-----				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
400	8.334	57.489	0.832	57.503	-0.014	0.836	-0.004	57.501	-0.012	0.837	-0.005	4
600	8.674	60.943	2.538	60.941	0.002	2.535	0.003	60.942	0.001	2.537	0.001	1
800	8.827	63.462	4.290	63.459	0.003	4.287	0.003	63.461	0.001	4.289	0.001	1
1000	8.912	65.442	6.065	65.440	0.002	6.062	0.003	65.441	0.001	6.064	0.001	10
1200	8.968	67.072	7.853	67.070	0.001	7.851	0.002	67.071	0.001	7.853	0.000	11
1400	9.010	68.457	9.651	68.457	0.000	9.650	0.001	68.457	-0.000	9.651	0.000	11
1600	9.043	69.663	11.456	69.662	0.001	11.455	0.001	69.662	0.001	11.456	-0.000	11
1800	9.073	70.730	13.268	70.729	0.001	13.268	0.000	70.729	0.001	13.268	-0.000	11
2000	9.099	71.687	15.085	71.687	0.000	15.085	-0.000	71.687	0.000	15.085	-0.000	21
2200	9.124	72.555	16.908	72.555	-0.000	16.908	0.000	72.555	0.000	16.908	0.000	21
2400	9.147	73.350	18.735	73.350	-0.000	18.735	0.000	73.350	0.000	18.735	0.000	21
2600	9.169	74.083	20.566	74.083	-0.000	20.566	-0.000	74.083	0.000	20.566	-0.000	21
2800	9.190	74.763	22.402	74.764	-0.001	22.402	-0.000	74.763	-0.000	22.402	-0.000	21
3000	9.211	75.398	24.242	75.398	-0.000	24.243	-0.001	75.398	0.000	24.242	-0.000	31
3000	9.211	75.398	24.242	75.398	-0.000	24.243	-0.001	75.398	0.000	24.244	-0.002	31
3200	9.232	75.993	26.087	75.994	-0.001	26.087	-0.000	75.993	0.000	26.087	-0.000	31
3400	9.252	76.554	27.935	76.554	0.000	27.935	-0.000	76.553	0.001	27.935	0.000	31
3600	9.272	77.083	29.787	77.083	-0.000	29.788	-0.001	77.082	0.001	29.786	0.000	31
3800	9.292	77.585	31.644	77.585	-0.000	31.644	-0.000	77.584	0.001	31.643	0.001	31
4000	9.312	78.062	33.504	78.062	-0.000	33.505	-0.001	78.061	0.001	33.503	0.001	41
4200	9.332	78.517	35.369	78.517	-0.000	35.369	0.000	78.516	0.001	35.368	0.001	41
4400	9.351	78.951	37.237	78.952	-0.001	37.237	-0.000	78.950	0.001	37.237	0.000	41
4600	9.371	79.368	39.109	79.368	0.000	39.109	-0.000	79.367	0.001	39.109	-0.000	41
4800	9.390	79.767	40.985	79.767	0.000	40.985	-0.000	79.766	0.001	40.985	-0.000	41
5000	9.409	80.150	42.865	80.150	-0.001	42.865	0.000	80.150	0.000	42.865	-0.000	51
5200	9.428	80.520	44.749	80.520	0.000	44.749	0.000	80.519	0.001	44.749	-0.000	51
5400	9.448	80.876	46.636	80.876	-0.000	46.636	-0.000	80.875	0.001	46.637	-0.001	51
5600	9.467	81.220	48.528	81.220	-0.000	48.528	0.000	81.219	0.001	48.528	-0.000	51
5800	9.486	81.553	50.423	81.553	0.000	50.423	0.000	81.551	0.002	50.423	0.000	51
6000	9.505	81.874	52.322	81.874	-0.001	52.322	-0.000	81.873	0.001	52.321	0.001	61

ALUMINUM TRICHLORIDE DIMER (G) AL 2CL 6 0 0 0 0 670
 MOL. WT. = 266.680 BLCK = 148 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -309.640 KEY = 29
 FITS FOR NOTS RMS = 0.006695

8 2 13 6 17 0 0 0 0 0 0 0 ALUMINUM TRICHLORIDE DIMER (G) 10J 670 29
 8 +4.3682907E+1+3.2395169E-2-1.0273709E-2+1.0060183E-3 400 6000 11J 670 29
 8 -6.4575195E-1-3.2474194E+2+1.6314015E+2-3.0963989E+2AL2CL6(G) 12J 670 29

FITS FOR EST RMS LOW = 0.002091 RMS HIGH = 0.013289
 2 13 6 17 0 0 0 0 0 0 0 ALUMINUM TRICHLORIDE DIMER (G) 10AL2CL6
 -309639+6+116232+6+436836+2+107643-4-638832+6+211224+3 4003000J 67011AL2CL6
 -309639+6+116243+6+440173+2-436021-4-263526+7+211224+330006000J 67012AL2CL6

-----NOTS-----														-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		C/M-K	KC/M	KC/M	
7 -0.005	400	40.019	125.093	3.972	125.144	-0.051	3.988	-0.016	125.140	-0.047	3.992	-0.020					
7 0.001	600	41.935	141.749	12.201	141.740	0.009	12.189	0.012	141.745	0.004	12.198	0.003					
9 0.001	800	42.685	153.930	20.673	153.920	0.010	20.660	0.013	153.926	0.004	20.670	0.003					
4 0.001	1000	43.047	163.498	29.250	163.491	0.007	29.240	0.010	163.496	0.002	29.249	0.001					
3 0.000	1200	43.248	171.366	37.881	171.361	0.005	37.873	0.008	171.365	0.001	37.881	-0.000					
1 0.000	1400	43.371	178.043	46.544	178.039	0.004	46.539	0.005	178.042	0.001	46.545	-0.001					
6 -0.000	1600	43.452	183.840	55.227	183.837	0.003	55.223	0.004	183.839	0.001	55.228	-0.001					
8 -0.000	1800	43.507	188.961	63.923	188.960	0.001	63.921	0.002	188.960	0.001	63.924	-0.001					
5 -0.000	2000	43.547	193.547	72.629	193.546	0.001	72.628	0.001	193.546	0.001	72.629	0.000					
8 0.000	2200	43.576	197.699	81.341	197.699	0.000	81.342	-0.001	197.698	0.001	81.341	-0.000					
15 0.000	2400	43.599	201.492	90.059	201.492	0.000	90.060	-0.001	201.491	0.001	90.059	0.000					
6 -0.000	2600	43.616	204.982	98.781	204.983	-0.001	98.783	-0.002	204.981	0.001	98.780	0.001					
12 -0.000	2800	43.630	208.215	107.505	208.216	-0.001	107.508	-0.003	208.214	0.001	107.505	-0.000					
12 -0.000	3000	43.641	211.225	116.232	211.227	-0.002	116.236	-0.004	211.225	0.000	116.233	-0.001					
14 -0.002	3000	43.641	211.225	116.232	211.227	-0.002	116.236	-0.004	211.225	0.000	116.243	-0.011					
17 -0.000	3200	43.651	214.042	124.962	214.044	-0.002	124.965	-0.003	214.039	0.003	124.965	-0.003					
15 0.000	3400	43.658	216.689	133.693	216.690	-0.001	133.696	-0.003	216.684	0.005	133.691	0.002					
16 0.000	3600	43.665	219.185	142.425	219.186	-0.001	142.428	-0.003	219.179	0.006	142.421	0.004					
13 0.001	3800	43.670	221.545	151.158	221.546	-0.001	151.161	-0.003	221.540	0.005	151.153	0.005					
13 0.001	4000	43.675	223.786	159.893	223.787	-0.001	159.895	-0.002	223.780	0.006	159.888	0.005					
18 0.001	4200	43.679	225.917	168.628	225.917	-0.000	168.630	-0.002	225.912	0.005	168.624	0.003					
17 0.000	4400	43.682	227.949	177.364	227.949	-0.000	177.366	-0.002	227.944	0.005	177.362	0.002					
19 -0.000	4600	43.685	229.890	186.101	229.891	-0.001	186.102	-0.001	229.886	0.004	186.100	0.001					
15 -0.000	4800	43.688	231.750	194.838	231.750	-0.000	194.838	-0.000	231.746	0.004	194.839	-0.001					
15 -0.000	5000	43.690	233.533	203.576	233.533	-0.000	203.576	0.000	233.529	0.004	203.578	-0.002					
19 -0.000	5200	43.692	235.247	212.314	235.247	0.000	212.314	0.000	235.243	0.004	212.316	-0.002					
17 -0.001	5400	43.694	236.896	221.053	236.896	0.000	221.052	0.001	236.892	0.004	221.055	-0.002					
18 -0.000	5600	43.696	238.485	229.792	238.485	-0.000	229.791	0.001	238.481	0.004	229.793	-0.001					
23 0.000	5800	43.697	240.018	238.531	240.019	-0.001	238.531	-0.000	240.014	0.004	238.530	0.001					
21 0.001	6000	43.699	241.500	247.271	241.500	-0.000	247.272	-0.001	241.495	0.005	247.267	0.004					

```

ALUM
MOL
DATA
FITS
  1  8  2
+1.3778
-4.0884

```

PITS
1 8 2
-313999
-313999

T	K	C
400	11	
600	12	
800	13	
1000	14	
1200	15	
1400	16	
1600	17	
1800	18	
2000	19	
2200	20	
2400	21	
2600	22	
2800	23	
3000	24	
3000	25	
3200	26	
3400	27	
3600	28	
3800	29	
4000	30	
4200	31	
4400	32	
4600	33	
4800	34	
5000	35	
5200	36	
5400	37	
5600	38	
5800	39	
6000	40	

H 20
 03 03
 01 00
 01 01
 01 01
 00 00
 00 00
 01 00
 01 11
 03 02
 04 05
 05 03
 02 01
 01 02
 02 02
 02 01
 01 01
 04

ALUMINUM SUBOXIDE

(G) AL 20 1

965

MOL. WT. = 69.960 BLOCK = 158 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -31.400 KEY = 31

FITS FOR NOTS RMS = 0.003273

1 8 2 13 0 0 0 0 0 0 0 ALUMINUM SUBOXIDE (G) 10J 965 31
+1.3778163E+1+8.4998011E-2-1.9550811E-2+1.5224767E-3 400 6000 11J 965 31
-4.0884399E-1-3.6758285E+1+7.6678298E+1-3.1399993E+1AL2O(G) 12J 965 31

FITS FOR EST RMS LOW = 0.003242 RMS HIGH = 0.004360

1 8 2 13 0 0 0 0 0 0 0 ALUMINUM SUBOXIDE (G) 10AL2O
-313999+5+363512+5+138214+2+289923-4-413984+6+920189+2 4003000J 96511AL2O
-313999+5+363528+5+140059+2-138385-4-114908+7+920189+230006000J 96512AL2O

-----NOTS-----

-----EST-----

H	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
.459	400	11.749	65.297	1.157	65.364	-0.067	1.181	-0.024	65.365	-0.068	1.184	-0.027
.045	600	12.711	70.267	3.615	70.255	0.012	3.604	0.011	70.257	0.010	3.606	0.009
.143	800	13.174	73.994	6.208	73.985	0.009	6.199	0.009	73.987	0.007	6.202	0.006
.112	1000	13.418	76.963	8.870	76.958	0.005	8.865	0.005	76.961	0.002	8.868	0.002
.044	1200	13.561	79.423	11.569	79.421	0.002	11.567	0.002	79.423	-0.000	11.570	-0.001
.023	1400	13.650	81.521	14.291	81.520	0.001	14.290	0.001	81.521	-0.000	14.293	-0.002
.067	1600	13.709	83.347	17.027	83.347	0.000	17.027	0.000	83.348	-0.001	17.029	-0.002
.079	1800	13.750	84.965	19.773	84.964	0.001	19.773	-0.000	84.965	0.000	19.774	-0.001
.052	2000	13.780	86.415	22.526	86.415	0.000	22.526	-0.000	86.415	0.000	22.526	-0.000
.002	2200	13.802	87.730	25.285	87.729	0.001	25.285	0.000	87.729	0.001	25.284	0.001
.048	2400	13.820	88.931	28.047	88.931	0.000	28.047	0.000	88.930	0.001	28.046	0.001
.065	2600	13.833	90.038	30.812	90.038	0.000	30.812	-0.000	90.037	0.001	30.811	0.001
.028	2800	13.843	91.063	33.580	91.063	-0.000	33.580	-0.000	91.063	-0.000	33.580	0.000
.088	3000	13.852	92.019	36.350	92.019	0.000	36.350	0.000	92.019	0.000	36.351	-0.001
	3000	13.852	92.019	36.350	92.019	0.000	36.350	0.000	92.019	0.000	36.353	-0.003
	3200	13.859	92.913	39.121	92.913	0.000	39.121	-0.000	92.912	0.001	39.122	-0.001
	3400	13.865	93.754	41.893	93.753	0.001	41.894	-0.001	93.752	0.002	41.892	0.001
	3600	13.870	94.546	44.667	94.546	0.000	44.667	-0.000	94.545	0.001	44.665	0.002
	3800	13.874	95.296	47.441	95.296	0.000	47.442	-0.001	95.295	0.001	47.439	0.002
	4000	13.878	96.008	50.216	96.008	0.000	50.217	-0.001	96.006	0.002	50.215	0.001
	4200	13.881	96.685	52.992	96.685	0.000	52.993	-0.001	96.684	0.001	52.991	0.001
	4400	13.883	97.331	55.768	97.331	0.000	55.769	-0.001	97.330	0.001	55.768	0.000
	4600	13.886	97.948	58.545	97.948	0.000	58.545	-0.000	97.947	0.001	58.545	-0.000
	4800	13.888	98.539	61.323	98.539	0.000	61.323	0.000	98.538	0.001	61.323	0.000
	5000	13.890	99.106	64.100	99.106	0.000	64.100	-0.000	99.105	0.001	64.101	-0.001
	5200	13.891	99.651	66.879	99.650	0.001	66.878	0.001	99.650	0.001	66.879	-0.000
	5400	13.893	100.175	69.657	100.175	0.000	69.656	0.001	100.174	0.001	69.657	-0.000
	5600	13.894	100.680	72.436	100.680	0.000	72.435	0.001	100.679	0.001	72.436	0.000
	5800	13.895	101.168	75.214	101.168	0.000	75.214	-0.000	101.167	0.001	75.214	-0.000
	6000	13.896	101.639	77.994	101.639	0.000	77.994	-0.000	101.638	0.001	77.992	0.002

ALUM
MOI
DATA
FITS
8 8
2.710
3.827

FITS
3 8
-40039
-40039

ALUMINUM OXIDE (L) AL 20 3
 MOL. WT. = 101.960 BLOCK = 174 NO. POINT = 34
 DATA FROM 298 TO 3500 K HFORM(KCAL/(MOLE)) = -373.356 KEY = 34
 FITS FOR NOTS RMS = 0.107000

364

ALUMI
 MOL.
 DATA F
 FITS F

8 2 13 0 0 0 0 0 0 0 ALUMINUM OXIDE (L) 20J 364 34
 .1420440E+0+3.3311401E+1-1.2158157E+1+1.4671478E+0 400 3500 21J 364 34
 .4668121E+0-3.6948095E+2+2.8049530E+1-3.7335595E+2AL2O3(L) 22J 364 34

5 8 2
 +4.05782
 -1.25085

FITS FOR EST RMS LOW = 0.297081 RMS HIGH = 0.297081

8 2 13 0 0 0 0 0 0 0 ALUMINUM OXIDE (L) 20AL2O3*
 73355+6+856118+5+351141+2+544346-4-449843+7+908739+2 4003500J 36421AL2O3*
 73355+6+856118+5+351141+2+544346-4-449843+7+908739+2 4003500J 36422AL2O3*

FITS F
 5 8 2
 -618809+
 -618809+

-----NOTS-----

-----EST-----

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/
0	22.986	29.894	2.147	28.929	0.965	1.780	0.367	33.788	-3.895	3.821	-1.674	400	35.
0	26.889	40.062	7.189	40.412	-0.350	7.417	-0.228	40.227	-0.165	7.101	0.088	600	41.
0	28.758	48.081	12.773	48.207	-0.126	12.840	-0.067	47.606	0.475	12.257	0.516	800	44.
0	29.814	54.622	18.640	54.537	0.085	18.520	0.120	54.188	0.434	18.165	0.475	1000	46.
0	30.464	60.119	24.672	60.013	0.106	24.531	0.141	59.913	0.206	24.450	0.222	1200	47.
0	31.290	64.889	30.863	64.877	0.012	30.845	0.018	64.923	-0.034	30.951	-0.088	1400	49.
0	34.623	69.110	37.186	69.253	-0.143	37.403	-0.217	69.353	-0.243	37.589	-0.403	1600	51.
0	34.623	73.188	44.111	73.220	-0.032	44.140	-0.029	73.316	-0.128	44.318	-0.207	1800	52.
0	34.623	76.836	51.036	76.831	0.005	50.995	0.041	76.894	-0.058	51.111	-0.075	2000	54.
0	34.623	80.136	57.960	80.130	0.006	57.919	0.041	80.154	-0.018	57.953	0.007	2200	55.
0	34.623	83.148	64.885	83.154	-0.006	64.869	0.016	83.146	0.002	64.830	0.055	2400	56.
0	34.623	85.920	71.809	85.935	-0.015	71.819	-0.010	85.910	0.010	71.736	0.073	2600	58.
0	34.623	88.486	78.734	88.504	-0.018	78.752	-0.018	88.477	0.009	78.664	0.070	2800	59.
0	34.623	90.874	85.659	90.890	-0.016	85.666	-0.007	90.874	0.000	85.612	0.047	3000	61.
0	34.623	93.109	92.583	93.119	-0.010	92.574	0.009	93.121	-0.012	92.575	0.008		
0	34.623	95.208	99.508	95.218	-0.010	99.499	0.009	95.235	-0.027	99.551	-0.043		

BORON,
MOL. W
DATA PRO
FITS FOR
1 5 0 0
+3.5681362
-1.0795593

FITS FOR
1 5 0 0
+000000+0+
+000000+0+

T K	CF C/H-
400	3.72
600	4.99
800	5.56
1000	5.95
1200	6.26
1400	6.54
1600	6.79
1800	7.00
2000	7.15
2200	7.22
2400	7.30
2600	7.35
2800	7.40
3000	7.44
3200	7.46
3400	7.48

BORON, BETA-RHOMBOHEDRAL (C) B 1 1264
 MOL. WT.= 10.810 BLOCK= 191 NO. POINT = 37
 DATA FROM 0 TO 3500 K HFORM(KCAL/(MOLE)) = 0.000 KEY = 38
 FITS FOR NOTS RMS = 0.003080
 1 5 0 0 0 0 0 0 0 0 0 BORON, BETA-RHOMBOHEDRAL (C) 30J1264 38
 +3.5681362E+0+3.3768043E+0-9.9588882E-1+1.0097885E-1 400 3500 31J1264 38
 -1.0795593E-1-1.6354980E+0+3.9565572E+0+0.0000000E+0B (C) 32J1264 38

FITS FOR EST RMS LOW = 0.043998 RMS HIGH = 0.043998
 1 5 0 0 0 0 0 0 0 0 BORON, BETA-RHOMBOHEDRAL (C) 30B\$
 +000000+0+173672+5+679450+1+260477-3-944336+6+144399+2 4003500J126431B\$
 +000000+0+173672+5+679450+1+260477-3-944336+6+144399+2 4003500J126432B\$

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M	
-0.299	400	3.720	2.339	0.327	2.298	0.041	0.311	0.016	2.971	-0.632	0.596	-0.269	
0.071	600	4.990	4.122	1.215	4.138	-0.016	1.225	-0.010	4.139	-0.017	1.194	0.021	
0.084	800	5.560	5.644	2.276	5.645	-0.001	2.275	0.001	5.572	0.072	2.196	0.080	
0.038	1000	5.950	6.927	3.427	6.923	0.004	3.422	0.005	6.874	0.053	3.366	0.061	
-0.002	1200	6.260	8.041	4.650	8.038	0.003	4.646	0.004	8.021	0.020	4.625	0.025	
-0.026	1400	6.540	9.028	5.931	9.029	-0.001	5.932	-0.001	9.033	-0.005	5.939	-0.008	
-0.031	1600	6.790	9.918	7.265	9.921	-0.003	7.269	-0.004	9.936	-0.018	7.292	-0.027	
-0.023	1800	7.000	10.730	8.645	10.732	-0.002	8.647	-0.002	10.750	-0.020	8.674	-0.029	
-0.007	2000	7.120	11.474	10.057	11.474	-0.000	10.057	0.000	11.490	-0.016	10.079	-0.022	
0.009	2200	7.228	12.158	11.492	12.158	-0.000	11.492	0.000	12.169	-0.011	11.504	-0.012	
0.018	2400	7.314	12.791	12.947	12.791	-0.000	12.947	0.000	12.797	-0.006	12.947	-0.000	
0.018	2600	7.374	13.379	14.416	13.379	-0.000	14.416	0.000	13.381	-0.002	14.406	0.010	
0.004	2800	7.416	13.927	15.895	13.927	-0.000	15.895	-0.000	13.927	0.000	15.880	0.015	
-0.024	3000	7.450	14.440	17.382	14.440	-0.000	17.382	-0.000	14.440	0.000	17.367	0.015	
	3200	7.476	14.921	18.875	14.922	-0.001	18.875	0.000	14.924	-0.003	18.868	0.007	
	3400	7.494	15.375	20.372	15.376	-0.001	20.372	0.000	15.383	-0.008	20.381	-0.009	

BOR
MO
DATA
FITS
1 5
+4.879
+1.757

PITS
1 5
+ 13279
+ 13279

[illegible]

BORON, MONATOMIC

(G) B 1

1264

MOL. WT. = 10.810 BLOCK = 200 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 132.800 KEY = 40

FITS FOR NOTS RMS = 0.001406

1 5 0 0 0 0 0 0 0 0 0 BORON, MONATOMIC (G) 10J1264 40
 +4.8796510E+0+1.0218650E-1-3.9830692E-2+5.1440745E-3 400 6000 11J1264 40
 +1.7578125E-2+1.3138600E+2+4.2588058E+1+1.3279998E+2B (G) 12J1264 40

FITS FOR EST RMS LOW = 0.000515 RMS HIGH = 0.007016

1 5 0 0 0 0 0 0 0 0 0 BORON, MONATOMIC (G) 10B
 +132799+6+134238+5+496932+1-464140-6-478000+3+481209+2 4003000J126411B
 +132799+6+134206+5+417107+1+146575-3+350102+7+481209+230006000J126412B

DH (C/M	-----NOTS-----								-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
1.482	400	4.970	38.110	0.506	38.100	0.010	0.501	0.005	38.111	-0.001	0.507	-0.001
1.030	600	4.969	40.125	1.500	40.126	-0.001	1.500	-0.000	40.125	0.000	1.500	-0.000
1.143	800	4.969	41.554	2.494	41.555	-0.001	2.494	-0.000	41.554	-0.000	2.494	0.000
1.118	1000	4.968	42.663	3.487	42.663	-0.000	3.487	-0.000	42.663	0.000	3.487	-0.000
1.054	1200	4.968	43.569	4.481	43.569	0.000	4.480	0.001	43.569	0.000	4.481	-0.000
1.017	1400	4.968	44.335	5.475	44.334	0.001	5.474	0.001	44.334	0.001	5.475	0.000
1.075	1600	4.968	44.998	6.468	44.998	0.000	6.467	0.001	44.998	0.000	6.468	-0.000
1.053	1800	4.968	45.583	7.462	45.583	0.000	7.461	0.001	45.583	-0.000	7.462	-0.000
1.024	2000	4.968	46.107	8.456	46.107	0.000	8.455	0.001	46.107	0.000	8.456	0.000
1.005	2200	4.968	46.580	9.449	46.580	-0.000	9.449	-0.000	46.580	-0.000	9.449	-0.000
1.005	2400	4.968	47.012	10.443	47.013	-0.001	10.443	-0.000	47.012	-0.000	10.443	0.000
1.010	2600	4.968	47.410	11.437	47.411	-0.001	11.437	-0.000	47.410	-0.000	11.437	0.000
1.011	2800	4.969	47.778	12.430	47.779	-0.001	12.431	-0.001	47.778	-0.000	12.430	-0.000
1.011	3000	4.969	48.121	13.424	48.122	-0.001	13.425	-0.001	48.121	0.000	13.424	0.000
1.008	3000	4.969	48.121	13.424	48.122	-0.001	13.425	-0.001	48.121	0.000	13.421	0.003
0.005	3200	4.970	48.442	14.418	48.442	-0.000	14.418	-0.000	48.443	-0.001	14.419	-0.001
0.002	3400	4.971	48.743	15.412	48.743	-0.000	15.412	-0.000	48.745	-0.002	15.414	-0.002
0.001	3600	4.973	49.027	16.406	49.028	-0.001	16.407	-0.001	49.029	-0.002	16.408	-0.002
0.003	3800	4.977	49.296	17.401	49.297	-0.001	17.401	-0.000	49.298	-0.002	17.402	-0.001
0.004	4000	4.982	49.552	18.397	49.552	0.000	18.397	-0.000	49.553	-0.001	18.397	0.000
0.004	4200	4.988	49.795	19.394	49.795	-0.000	19.394	-0.000	49.796	-0.001	19.393	0.001
0.003	4400	4.997	50.027	20.393	50.027	-0.000	20.393	0.000	50.028	-0.001	20.391	0.002
0.000	4600	5.008	50.250	21.393	50.250	0.000	21.393	-0.000	50.250	-0.000	21.391	0.002
0.005	4800	5.022	50.463	22.396	50.463	-0.000	22.396	-0.000	50.464	-0.001	22.395	0.001
	5000	5.039	50.668	23.402	50.669	-0.001	23.402	-0.000	50.669	-0.001	23.402	-0.000
	5200	5.058	50.866	24.412	50.867	-0.001	24.412	0.000	50.867	-0.001	24.413	-0.001
	5400	5.081	51.058	25.426	51.058	0.000	25.426	0.000	51.059	-0.001	25.427	-0.001
	5600	5.107	51.243	26.444	51.243	-0.000	26.444	-0.000	51.244	-0.001	26.446	-0.002
	5800	5.136	51.423	27.469	51.423	0.000	27.469	0.000	51.424	-0.001	27.469	0.000
	6000	5.168	51.597	28.499	51.598	-0.001	28.499	-0.000	51.598	-0.001	28.496	0.003

BORON C
MOL. W
DATA FRO
PITS POR
1 5 1 9
+1.3616421
-5.6855773

PITS FOR
1 5 1 9
-750000+5+
-750000+5+

BORON CHLOROFLUORIDE (G) B 1CL 1F 1 1264
 MOL. WT.= 65.260 BLOCK= 212 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -75.000 KEY = 42
 FITS FOR NOTS RMS = 0.004946
 1 5 1 9 1 17 0 0 0 0 0 BORON CHLOROFLUORIDE (G) 10J1264 42
 +1.3616421E+1+1.8350982E-1-4.0804110E-2+3.0718529E-3 4C0 6000 11J1264 42
 -5.6855773E-1-8.0752243E+1+7.7096038E+1-7.5000000E+1BCLP(G) 12J1264 42

FITS FOR EST RMS LOW = 0.006645 RMS HIGH = 0.004310
 1 5 1 9 1 17 0 0 0 0 0 BORON CHLOROFLUORIDE (G) 10BCLP
 -750000+5+358104+5+137233+2+599351-4-585888+6+924829+2 4003000J126411BCLP
 -750000+5+358109+5+140043+2-136682-4-144168+7+924829+23C J06000J126412BCLP

/M	-----NOTS-----												-----EST-----			
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
012	400	11.025	66.341	1.081	66.466	-0.125	1.130	-0.049	66.474	-0.133	1.134	-0.053				
004	600	12.181	71.053	3.412	71.033	0.020	3.395	0.017	71.033	0.020	3.397	0.015				
002	800	12.809	74.652	5.918	74.636	0.016	5.904	0.014	74.637	0.015	5.905	0.013				
001	1000	13.160	77.551	8.518	77.544	0.007	8.512	0.006	77.547	0.004	8.514	0.004				
000	1200	13.371	79.971	11.173	79.969	0.002	11.171	0.002	79.971	-0.000	11.175	-0.002				
001	1400	13.506	82.043	13.861	82.042	0.001	13.862	-0.001	82.045	-0.002	13.865	-0.004				
000	1600	13.596	83.853	16.572	83.852	0.001	16.574	-0.002	83.854	-0.001	16.576	-0.004				
000	1800	13.660	85.458	19.298	85.458	0.000	19.299	-0.001	85.459	-0.001	19.300	-0.002				
000	2000	13.706	86.900	22.035	86.899	0.001	22.035	-0.000	86.899	0.001	22.035	0.000				
000	2200	13.741	88.208	24.779	88.207	0.001	24.780	-0.001	88.207	0.001	24.778	0.001				
001	2400	13.767	89.404	27.530	89.403	0.001	27.530	0.000	89.403	0.001	27.528	0.002				
000	2600	13.788	90.507	30.286	90.506	0.001	30.285	0.001	90.506	0.001	30.284	0.002				
000	2800	13.805	91.530	33.045	91.528	0.002	33.045	0.000	91.529	0.001	33.045	0.000				
001	3000	13.818	92.483	35.808	92.481	0.002	35.807	0.001	92.483	0.000	35.810	-0.002				
002	3000	13.818	92.483	35.808	92.481	0.002	35.807	0.001	92.483	0.000	35.811	-0.003				
001	3200	13.829	93.375	38.572	93.374	0.001	38.572	-0.000	93.374	0.001	38.573	-0.001				
000	3400	13.839	94.213	41.339	94.212	0.001	41.340	-0.001	94.213	0.000	41.339	0.000				
001	3600	13.846	95.005	44.108	95.004	0.001	44.108	-0.000	95.004	0.001	44.106	0.002				
001	3800	13.853	95.753	46.878	95.753	0.000	46.878	-0.000	95.752	0.001	46.876	0.002				
001	4000	13.858	96.464	49.649	96.463	0.001	49.650	-0.001	96.463	0.001	49.647	0.002				
001	4200	13.863	97.140	52.421	97.140	0.000	52.422	-0.001	97.139	0.001	52.420	0.001				
000	4400	13.867	97.785	55.194	97.785	0.000	55.195	-0.001	97.785	0.000	55.193	0.001				
000	4600	13.871	98.402	57.968	98.401	0.001	57.968	-0.000	98.401	0.001	57.968	0.000				
000	4800	13.874	98.992	60.742	98.991	0.001	60.742	-0.000	98.992	0.000	60.743	-0.001				
001	5000	13.877	99.559	63.518	99.558	0.001	63.517	0.001	99.558	0.001	63.518	-0.000				
001	5200	13.880	100.103	66.293	100.102	0.001	66.293	0.000	100.103	0.000	66.294	-0.001				
001	5400	13.882	100.627	69.070	100.626	0.001	69.069	0.001	100.626	0.001	69.070	-0.000				
000	5600	13.884	101.132	71.846	101.131	0.001	71.845	0.001	101.131	0.001	71.846	-0.000				
001	5800	13.886	101.619	74.623	101.618	0.001	74.623	0.000	101.618	0.001	74.623	0.000				
001	6000	13.887	102.090	77.400	102.089	0.001	77.402	-0.002	102.089	0.001	77.399	0.001				

BORON CHLORODIFLUORIDE (G) B 1CL 1P 2 1264
 MOL. WT. = 84.260 BLOCK = 218 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -211.600 KEY = 43
 FITS FOR NOTS RMS = 0.008961
 1 5 2 9 1 17 0 0 0 0 BORON CHLORODIFLUORIDE (G) 10J1264 43
 +1.9233993E+1+3.9292263E-1-8.6200475E-2+6.4073130E-3 400 6000 11J1264 43
 -1.0274047E+0-2.2036537E+2+8.4227890E+1-2.1159999E+2BCLP2(G) 12J1264 43

FITS FOR EST RMS LOW = 0.013496 RMS HIGH = 0.005977
 1 5 2 9 1 17 0 0 0 0 BORON CHLORODIFLUORIDE (G) 10BCLP2
 -211599+6+503883+5+194732+2+126733-3-107123+7+106266+3 4003000J126411BCLP2
 -211599+6+503866+5+200040+2-193314-4-245811+7+106266+330006000J126412BCLP2

-----NOTS-----												-----EST-----															
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	CP	S	H	SC	DS	HC	DH	T	CP	S	H	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	14.637	69.726	1.413	69.965	-0.239	1.506	-0.093	69.989	-0.263	1.519	-0.106	400	14.637	69.726	1.413	69.965	-0.239	1.506	-0.093	400	14.637	69.726	1.413	69.965	-0.239	1.506	-0.093
600	16.683	76.089	4.565	76.050	0.039	4.532	0.033	76.050	0.039	4.533	0.032	600	16.683	76.089	4.565	76.050	0.039	4.532	0.033	600	16.683	76.089	4.565	76.050	0.039	4.533	0.032
800	17.807	81.058	8.025	81.026	0.032	7.998	0.027	81.027	0.031	8.000	0.025	800	17.807	81.058	8.025	81.026	0.032	7.998	0.027	800	17.807	81.058	8.025	81.026	0.031	8.000	0.025
1000	18.451	85.107	11.656	85.094	0.013	11.645	0.011	85.096	0.011	11.649	0.007	1000	18.451	85.107	11.656	85.094	0.013	11.645	0.011	1000	18.451	85.107	11.656	85.096	0.011	11.649	0.007
1200	18.844	88.508	15.389	88.505	0.003	15.388	0.001	88.508	-0.000	15.393	-0.004	1200	18.844	88.508	15.389	88.505	0.003	15.388	0.001	1200	18.844	88.508	15.389	88.508	-0.000	15.393	-0.004
1400	19.097	91.433	19.185	91.433	-0.000	19.188	-0.003	91.437	-0.004	19.193	-0.008	1400	19.097	91.433	19.185	91.433	-0.000	19.188	-0.003	1400	19.097	91.433	19.185	91.437	-0.004	19.193	-0.008
1600	19.268	93.995	23.022	93.996	-0.001	23.027	-0.005	93.998	-0.003	23.030	-0.008	1600	19.268	93.995	23.022	93.996	-0.001	23.027	-0.005	1600	19.268	93.995	23.022	93.998	-0.003	23.030	-0.008
1800	19.389	96.272	26.889	96.272	0.000	26.892	-0.003	96.273	-0.001	26.894	-0.005	1800	19.389	96.272	26.889	96.272	0.000	26.892	-0.003	1800	19.389	96.272	26.889	96.273	-0.001	26.894	-0.005
2000	19.478	98.320	30.776	98.319	0.001	30.778	-0.002	98.319	0.001	30.777	-0.001	2000	19.478	98.320	30.776	98.319	0.001	30.778	-0.002	2000	19.478	98.320	30.776	98.319	0.001	30.777	-0.001
2200	19.544	100.180	34.679	100.178	0.002	34.679	0.000	100.177	0.003	34.676	0.003	2200	19.544	100.180	34.679	100.178	0.002	34.679	0.000	2200	19.544	100.180	34.679	100.177	0.003	34.676	0.003
2400	19.595	101.883	38.553	101.880	0.003	38.592	0.001	101.879	0.004	38.588	0.005	2400	19.595	101.883	38.553	101.880	0.003	38.592	0.001	2400	19.595	101.883	38.553	101.879	0.004	38.588	0.005
2600	19.635	103.453	42.516	103.450	0.003	42.514	0.002	103.449	0.004	42.512	0.004	2600	19.635	103.453	42.516	103.450	0.003	42.514	0.002	2600	19.635	103.453	42.516	103.449	0.004	42.512	0.004
2800	19.668	104.909	46.446	104.906	0.003	46.445	0.001	104.907	0.002	46.446	0.000	2800	19.668	104.909	46.446	104.906	0.003	46.445	0.001	2800	19.668	104.909	46.446	104.907	0.002	46.446	0.000
3000	19.694	106.267	50.383	106.264	0.003	50.381	0.002	106.267	0.000	50.388	-0.005	3000	19.694	106.267	50.383	106.264	0.003	50.381	0.002	3000	19.694	106.267	50.383	106.267	0.000	50.388	-0.005
3200	19.694	106.267	50.383	106.264	0.003	50.381	0.002	106.267	0.000	50.387	-0.004	3200	19.694	106.267	50.383	106.264	0.003	50.381	0.002	3200	19.694	106.267	50.383	106.267	0.000	50.387	-0.004
3400	19.715	107.539	54.323	107.536	0.003	54.323	0.000	107.538	0.001	54.324	-0.001	3400	19.715	107.539	54.323	107.536	0.003	54.323	0.000	3400	19.715	107.539	54.323	107.538	0.001	54.324	-0.001
3600	19.733	108.734	58.268	108.732	0.002	58.268	-0.000	108.733	0.001	58.267	0.001	3600	19.733	108.734	58.268	108.732	0.002	58.268	-0.000	3600	19.733	108.734	58.268	108.733	0.001	58.267	0.001
3800	19.748	109.863	62.216	109.861	0.002	62.217	-0.001	109.861	0.002	62.214	0.002	3800	19.748	109.863	62.216	109.861	0.002	62.217	-0.001	3800	19.748	109.863	62.216	109.861	0.002	62.214	0.002
4000	19.760	110.931	66.167	110.929	0.002	66.168	-0.001	110.929	0.002	66.165	0.002	4000	19.760	110.931	66.167	110.929	0.002	66.168	-0.001	4000	19.760	110.931	66.167	110.929	0.002	66.165	0.002
4200	19.771	111.945	70.120	111.943	0.002	70.122	-0.002	111.943	0.002	70.118	0.002	4200	19.771	111.945	70.120	111.943	0.002	70.122	-0.002	4200	19.771	111.945	70.120	111.943	0.002	70.118	0.002
4400	19.780	112.909	74.076	112.908	0.001	74.077	-0.001	112.908	0.001	74.074	0.002	4400	19.780	112.909	74.076	112.908	0.001	74.077	-0.001	4400	19.780	112.909	74.076	112.908	0.001	74.074	0.002
4600	19.789	113.830	78.032	113.828	0.002	78.034	-0.002	113.828	0.002	78.031	0.001	4600	19.789	113.830	78.032	113.828	0.002	78.034	-0.002	4600	19.789	113.830	78.032	113.828	0.002	78.031	0.001
4800	19.796	114.710	81.991	114.708	0.002	81.992	-0.001	114.708	0.002	81.990	0.001	4800	19.796	114.710	81.991	114.708	0.002	81.992	-0.001	4800	19.796	114.710	81.991	114.708	0.002	81.990	0.001
5000	19.802	115.552	85.951	115.550	0.002	85.951	0.000	115.551	0.001	85.951	0.000	5000	19.802	115.552	85.951	115.550	0.002	85.951	0.000	5000	19.802	115.552	85.951	115.551	0.001	85.951	0.000
5200	19.807	116.361	89.912	116.358	0.003	89.911	0.001	116.359	0.001	89.912	-0.000	5200	19.807	116.361	89.912	116.358	0.003	89.911	0.001	5200	19.807	116.361	89.912	116.359	0.001	89.912	-0.000
5400	19.812	117.138	93.874	117.135	0.003	93.872	0.002	117.136	0.002	93.874	-0.000	5400	19.812	117.138	93.874	117.135	0.003	93.872	0.002	5400	19.812	117.138	93.874	117.136	0.002	93.874	-0.000
5600	19.817	117.885	97.836	117.883	0.002	97.835	0.001	117.884	0.001	97.837	-0.001	5600	19.817	117.885	97.836	117.883	0.002	97.835	0.001	5600	19.817	117.885	97.836	117.884	0.001	97.837	-0.001
5800	19.821	118.606	101.800	118.604	0.002	101.799	0.001	118.605	0.001	101.801	-0.001	5800	19.821	118.606	101.800	118.604	0.002	101.799	0.001	5800	19.821	118.606	101.800	118.605	0.001	101.801	-0.001
6000	19.824	119.302	105.765	119.299	0.002	105.764	0.001	119.300	0.002	105.764	0.001	6000	19.824	119.302	105.765	119.299	0.002	105.764	0.001	6000	19.824	119.302	105.765	119.300	0.002	105.764	0.001
6000	19.827	119.974	109.730	119.972	0.002	109.732	-0.002	119.972	0.002	109.728	0.002	6000	19.827	119.974	109.730	119.972	0.002	109.732	-0.002	6000	19.827	119.974	109.730	119.972	0.002	109.728	0.002

BORON OXYCHLORIDE

(G)

B 1CL 10 1

365

MOL. WT. = 62.260 BLCK = 225 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -75.600 KEY = 44

FITS FOR NOTS RMS = 0.008888

1 5 1 8 1 17 0 0 0 0 BORON OXYCHLORIDE (G) 10J 365 44
 +1.4133598E+1+4.645C138E-1-1.0039830E-1+7.3810555E-3 400 6000 11J 365 44
 -6.4683532E-1-8.1674880E+1+7.0983703E+1-7.5599990E+1BCLO(G) 12J 365 44

FITS FOR EST RMS LOW = 0.013839 RMS HIGH = 0.004553

1 5 1 8 1 17 0 0 0 0 BORON OXYCHLORIDE (G) 10BCLO
 -755999+5+378855+5+144227+2+149875-3-702176+6+875579+2 4003000J 36511BCLO
 -755999+5+378824+5+149925+2-130011-4-197862+7+875579+230006000J 36512BCLO

-----NOTS-----

-----EST-----

	DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
19	-0.106	400	11.642	60.015	1.144	60.232	-0.217	1.231	-0.087	60.263	-0.248	1.245	-0.101
13	0.032	600	12.703	64.955	3.588	64.923	0.032	3.560	0.028	64.922	0.033	3.560	0.028
10	0.025	800	13.363	68.707	6.199	68.676	0.031	6.173	0.026	68.674	0.033	6.173	0.026
19	0.007	1000	13.790	71.738	8.918	71.724	0.014	8.906	0.012	71.725	0.013	8.909	0.009
13	-0.004	1200	14.072	74.279	11.706	74.275	0.004	11.705	0.001	74.278	0.001	11.709	-0.003
13	-0.008	1400	14.263	76.463	14.541	76.463	0.000	14.545	-0.004	76.466	-0.003	14.549	-0.008
10	-0.008	1600	14.398	78.377	17.407	78.378	-0.001	17.413	-0.006	78.380	-0.003	17.416	-0.009
14	-0.005	1800	14.495	80.079	20.297	80.079	0.000	20.302	-0.005	80.080	-0.001	20.303	-0.006
17	-0.001	2000	14.568	81.610	23.204	81.609	0.001	23.206	-0.003	81.609	0.001	23.205	-0.001
16	0.003	2200	14.623	83.001	26.123	82.999	0.002	26.124	-0.001	82.998	0.003	26.121	0.002
18	0.005	2400	14.666	84.275	29.052	84.273	0.002	29.052	0.000	84.272	0.003	29.048	0.004
12	0.004	2600	14.699	85.451	31.989	85.448	0.003	31.987	0.002	85.447	0.004	31.985	0.004
16	0.000	2800	14.727	86.541	34.932	86.538	0.003	34.930	0.002	86.539	0.002	34.931	0.001
18	-0.005	3000	14.749	87.558	37.879	87.555	0.003	37.878	0.001	87.558	0.000	37.886	-0.007
17	-0.004	3000	14.749	87.558	37.879	87.555	0.003	37.878	0.001	87.558	0.000	37.882	-0.003
14	-0.001	3200	14.767	88.510	40.831	88.508	0.002	40.830	0.001	88.510	0.000	40.832	-0.001
17	0.001	3400	14.782	89.406	43.786	89.404	0.002	43.786	0.000	89.405	0.001	43.785	0.001
14	0.002	3600	14.795	90.251	46.744	90.249	0.002	46.744	-0.000	90.250	0.001	46.742	0.002
15	0.002	3800	14.806	91.052	49.704	91.050	0.002	49.705	-0.001	91.050	0.002	49.702	0.002
18	0.002	4000	14.816	91.811	52.666	91.809	0.001	52.668	-0.002	91.810	0.001	52.665	0.001
14	0.002	4200	14.824	92.534	55.630	92.533	0.001	55.632	-0.002	92.533	0.001	55.629	0.001
11	0.001	4400	14.831	93.224	58.596	93.222	0.002	58.597	-0.001	93.223	0.001	58.595	0.001
10	0.001	4600	14.837	93.883	61.562	93.882	0.001	61.563	-0.001	93.882	0.001	61.562	-0.000
11	0.000	4800	14.842	94.515	64.530	94.513	0.002	64.531	-0.001	94.514	0.001	64.530	-0.000
12	-0.000	5000	14.847	95.121	67.499	95.119	0.002	67.499	0.000	95.120	0.001	67.500	-0.001
14	-0.000	5200	14.852	95.703	70.469	95.701	0.002	70.468	0.001	95.703	0.000	70.470	-0.001
17	-0.001	5400	14.855	96.264	73.440	96.262	0.002	73.438	0.002	96.263	0.001	73.440	-0.000
11	-0.001	5600	14.859	96.804	76.411	96.802	0.002	76.410	0.001	96.803	0.001	76.411	-0.001
14	0.001	5800	14.862	97.326	79.383	97.324	0.002	79.383	0.000	97.325	0.001	79.383	0.000
18	0.002	6000	14.865	97.830	82.356	97.828	0.002	82.358	-0.002	97.829	0.001	82.355	0.001

BORON DICHLORIDE (G) B 1CL 2
 MOL. WT.= 81.710 BLOCK= 231 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -20.000 KEY = 45
 TS FOR NOTS RMS = 0.003081
 5 2 17 0 0 0 0 0 0 BORON DICHLORIDE (G) 10J1264 45
 3777868E+1+8.5120618E-2-1.9480336E-2+1.5063378E-3 400 6000 11J1264 45
 408325E-1-2.5347351E+1+7.9681289E+1-2.0000000E+1BCL2(G) 12J1264 45

1264

BORON
 MOL.
 DATA FR
 FITS FO
 1 5 1
 +1.947128
 -8.210906

TS FOR EST RMS LOW = 0.003252 RMS HIGH = 0.004281
 5 2 17 0 0 0 0 0 0 BORON DICHLORIDE (G) 10BCL2
 0000+5+363601+5+138259+2+271920-4-411504+6+950219+2 4003000J126411BCL2
 0000+5+363619+5+140043+2-136824-4-112329+7+950219+230006000J126412BCL2

FITS FO
 1 5 1
 -154000+6
 -154000+6

-----NOTS-----												-----EST-----	
CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		T	C
C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		K	C/M
11.758	68.289	1.157	68.352	-0.063	1.180	-0.023	68.356	-0.067	1.184	-0.027		400	15.6
12.721	73.263	3.617	73.252	0.011	3.607	0.010	73.253	0.010	3.609	0.008		600	17.3
13.181	76.993	6.213	76.985	0.008	6.204	0.009	76.986	0.007	6.207	0.006		800	18.2
13.424	79.963	8.875	79.959	0.004	8.871	0.004	79.961	0.002	8.874	0.001		1000	18.8
13.565	82.424	11.575	82.423	0.001	11.574	0.001	82.424	-0.000	11.576	-0.001		1200	19.1
13.653	84.522	14.298	84.522	0.000	14.297	0.001	84.523	-0.001	14.300	-0.002		1400	19.2
13.711	86.350	17.035	86.349	0.001	17.035	0.000	86.350	-0.000	17.036	-0.001		1600	19.4
13.752	87.967	19.781	87.967	0.000	19.781	-0.000	87.967	-0.000	19.782	-0.001		1800	19.5
13.782	89.418	22.535	89.417	0.001	22.535	0.000	89.417	0.001	22.535	0.000		2000	19.5
13.804	90.732	25.293	90.732	0.000	25.293	-0.000	90.732	0.000	25.293	0.000		2200	19.6
13.821	91.934	28.056	91.934	0.000	28.056	0.000	91.933	0.001	28.055	0.001		2400	19.6
13.834	93.041	30.821	93.040	0.001	30.821	-0.000	93.040	0.001	30.820	0.001		2600	19.6
13.844	94.066	33.589	94.066	-0.000	33.589	-0.000	94.066	-0.000	33.589	0.000		2800	19.7
13.853	95.022	36.359	95.022	0.000	36.359	-0.000	95.022	0.000	36.360	-0.001		3000	19.7
13.853	95.022	36.359	95.022	0.000	36.359	-0.000	95.022	0.000	36.362	-0.003		3000	19.7
13.860	95.916	39.130	95.916	0.000	39.131	-0.001	95.915	0.001	39.131	-0.001		3200	19.7
13.866	96.757	41.903	96.756	0.001	41.903	-0.000	96.756	0.001	41.902	0.001		3400	19.7
13.870	97.549	44.676	97.549	-0.000	44.677	-0.001	97.548	0.001	44.675	0.001		3600	19.7
13.875	98.299	47.451	98.299	-0.000	47.452	-0.001	98.298	0.001	47.449	0.002		3800	19.7
13.878	99.011	50.226	99.011	0.000	50.227	-0.001	99.010	0.001	50.225	0.001		4000	19.7
13.881	99.688	53.002	99.688	0.000	53.003	-0.001	99.687	0.001	53.001	0.001		4200	19.8
13.884	100.334	55.779	100.334	0.000	55.779	-0.000	100.333	0.001	55.778	0.001		4400	19.8
13.886	100.951	58.556	100.951	0.000	58.556	0.000	100.950	0.001	58.555	0.001		4600	19.8
13.888	101.542	61.333	101.542	0.000	61.333	0.000	101.541	0.001	61.333	-0.000		4800	19.8
13.890	102.109	64.111	102.109	0.000	64.110	0.001	102.108	0.001	64.111	-0.000		5000	19.8
13.891	102.654	66.889	102.654	0.000	66.888	0.001	102.653	0.001	66.890	-0.001		5200	19.8
13.893	103.178	69.667	103.178	0.000	69.667	0.000	103.178	0.000	69.668	-0.001		5400	19.8
13.894	103.684	72.446	103.683	0.001	72.446	0.000	103.683	0.001	72.446	-0.000		5600	19.8
13.895	104.171	75.225	104.171	0.000	75.225	0.000	104.170	0.001	75.225	0.000		5800	19.8
13.896	104.642	78.004	104.642	-0.000	78.005	-0.001	104.641	0.001	78.003	0.001		6000	19.8

BORON DICHLOROFLUORIDE (G) B 1CL 2F 1 1264
 MOL. WT. = 100.710 BLOCK = 237 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -154.000 KEY = 46
 FITS FOR NOTS RMS = 0.006622
 1 5 1 9 2 17 0 0 0 0 0 BORON DICHLOROFLUORIDE (G) 10J1264 46
 +1.9471282E+1+2.4890816E-1-5.5185578E-2+4.1478089E-3 400 6000 11J1264 46
 -8.2109069E-1-1.6227752E+2+8.8448822E+1-1.5400000E+2BCL2F (G) 12J1264 46

FITS FOR EST RMS LOW = 0.009033 RMS HIGH = 0.005965
 1 5 1 9 2 17 0 0 0 0 0 BORON DICHLOROFLUORIDE (G) 10BCL2F
 -154000+6+511216+5+196166+2+815012-4-845984+6+110422+3 4003000J126411BCL2F
 -154000+6+511223+5+200058+2-194449-4-205593+7+110422+330006000J126412BCL2F

H C/M	-----NOTS-----								-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
.027	400	15.616	73.103	1.519	73.269	-0.166	1.582	-0.063	73.282	-0.179	1.591	-0.072
.008	600	17.385	79.810	4.839	79.783	0.027	4.815	0.024	79.784	0.026	4.818	0.021
.006	800	18.297	84.950	8.417	84.928	0.022	8.397	0.020	84.929	0.021	8.400	0.017
.001	1000	18.801	89.092	12.131	89.082	0.010	12.122	0.009	89.085	0.007	12.126	0.005
.001	1200	19.103	92.549	15.924	92.545	0.004	15.922	0.002	92.548	0.001	15.927	-0.003
.002	1400	19.295	95.509	19.765	95.508	0.001	19.766	-0.001	95.511	-0.002	19.770	-0.005
.001	1600	19.424	98.094	23.638	98.094	-0.000	23.640	-0.002	98.096	-0.002	23.643	-0.005
.001	1800	19.515	100.388	27.532	100.387	0.001	27.534	-0.002	100.388	-0.000	27.535	-0.003
.000	2000	19.581	102.447	31.442	102.446	0.001	31.443	-0.001	102.446	0.001	31.442	-0.000
.000	2200	19.630	104.316	35.363	104.315	0.001	35.363	-0.000	104.314	0.002	35.361	0.002
.001	2400	19.668	106.026	39.293	106.024	0.002	39.293	0.000	106.023	0.003	39.290	0.003
.001	2600	19.698	107.601	43.230	107.599	0.002	43.229	0.001	107.599	0.002	43.227	0.003
.000	2800	19.721	109.062	47.172	109.060	0.002	47.171	0.001	109.060	0.002	47.171	0.001
.001	3000	19.741	110.423	51.118	110.422	0.001	51.117	0.001	110.423	0.000	51.122	-0.004
.003	3000	19.741	110.423	51.118	110.422	0.001	51.117	0.001	110.423	0.000	51.122	-0.004
.001	3200	19.756	111.698	55.068	111.696	0.002	55.067	0.001	111.696	0.002	55.069	-0.001
.001	3400	19.769	112.896	59.020	112.894	0.002	59.021	-0.001	112.894	0.002	59.019	0.001
.001	3600	19.781	114.026	62.975	114.025	0.001	62.976	-0.001	114.024	0.002	62.973	0.002
.002	3800	19.790	115.096	66.932	115.095	0.001	66.933	-0.001	115.094	0.002	66.930	0.002
.001	4000	19.798	116.111	70.891	116.110	0.001	70.892	-0.001	116.109	0.002	70.889	0.002
.001	4200	19.805	117.077	74.851	117.076	0.001	74.852	-0.001	117.075	0.002	74.849	0.002
.001	4400	19.811	117.999	78.813	117.997	0.002	78.814	-0.001	117.997	0.002	78.812	0.001
.001	4600	19.816	118.879	82.776	118.878	0.001	82.776	-0.000	118.878	0.001	82.775	0.001
.000	4800	19.821	119.723	86.739	119.721	0.002	86.739	-0.000	119.721	0.002	86.739	-0.000
.000	5000	19.825	120.532	90.704	120.531	0.001	90.703	0.001	120.530	0.002	90.704	-0.000
.001	5200	19.828	121.310	94.669	121.308	0.002	94.668	0.001	121.308	0.002	94.670	-0.001
.001	5400	19.831	122.058	98.635	122.056	0.002	98.634	0.001	122.056	0.002	98.636	-0.001
.000	5600	19.834	122.779	102.602	122.778	0.001	102.600	0.002	122.778	0.001	102.602	0.000
.000	5800	19.837	123.475	106.569	123.474	0.001	106.568	0.001	123.474	0.001	106.568	0.001
.001	6000	19.839	124.148	110.536	124.147	0.001	110.538	-0.002	124.146	0.002	110.535	0.001

BORON TRICHLORIDE (G) B 1CL 3
 MOL. WT. = 117.170 BLOCK = 244 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -96.310 KEY = 47
 FITS FOR NOTS RMS = 0.004589
 5 3 17 0 0 0 0 0 0 BORON TRICHLORIDE (G) 10J1264 47
 .0658813E+1+1.3583159E-1-3.0922953E-2+2.3832414E-3 400 6000 11J1264 47
 .5919494E-1-1.0419595E+2+8.9930084E+1-9.6309997E+1BCL3 (G) 12J1264 47

1264

BO
 M
 DAT
 FIT
 1 5
 +8.60
 -3.53

FITS FOR EST RMS LOW = 0.005248 RMS HIGH = 0.005937
 5 3 17 0 0 0 0 0 0 BORON TRICHLORIDE (G) 10BCL3
 .63099+5+516933+5+197334+2+446325-4-670048+6+111854+3 400 3000J126411BCL3
 .63099+5+516953+5+200008+2-186927-4-168422+7+111854+330006000J126412BCL3

FIT
 1 5
 -2769
 -2769

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 H
 C/H
 .072
 .021
 .017
 .005
 .003
 .005
 .005
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-----NOTS-----												-----EST-----												T
K	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	K	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	K
400	16.353	73.926	1.597	74.029	-0.103	1.636	-0.039	74.035	-0.109	1.641	-0.044	400	16.353	73.926	1.597	74.029	-0.103	1.636	-0.039	74.035	-0.109	1.641	-0.044	400
600	17.935	80.897	5.047	80.880	0.017	5.030	0.017	80.881	0.016	5.034	0.013	600	17.935	80.897	5.047	80.880	0.017	5.030	0.017	80.881	0.016	5.034	0.013	600
800	18.684	86.172	8.717	86.158	0.014	8.704	0.013	86.160	0.012	8.707	0.010	800	18.684	86.172	8.717	86.158	0.014	8.704	0.013	86.160	0.012	8.707	0.010	800
1000	19.079	90.388	12.497	90.381	0.007	12.490	0.007	90.384	0.004	12.495	0.002	1000	19.079	90.388	12.497	90.381	0.007	12.490	0.007	90.384	0.004	12.495	0.002	1000
1200	19.308	93.888	16.338	93.885	0.003	16.335	0.003	93.888	-0.000	16.339	-0.001	1200	19.308	93.888	16.338	93.885	0.003	16.335	0.003	93.888	-0.000	16.339	-0.001	1200
1400	19.452	96.876	20.215	96.875	0.001	20.214	0.001	96.878	-0.002	20.218	-0.003	1400	19.452	96.876	20.215	96.875	0.001	20.214	0.001	96.878	-0.002	20.218	-0.003	1400
1600	19.547	99.480	24.115	99.480	0.000	24.116	-0.001	99.482	-0.002	24.118	-0.003	1600	19.547	99.480	24.115	99.480	0.000	24.116	-0.001	99.482	-0.002	24.118	-0.003	1600
1800	19.614	101.787	28.032	101.786	0.001	28.032	-0.000	101.787	-0.000	28.034	-0.002	1800	19.614	101.787	28.032	101.786	0.001	28.032	-0.000	101.787	-0.000	28.034	-0.002	1800
2000	19.662	103.856	31.960	103.855	0.001	31.960	0.000	103.856	0.000	31.960	-0.000	2000	19.662	103.856	31.960	103.855	0.001	31.960	0.000	103.856	0.000	31.960	-0.000	2000
2200	19.698	105.731	35.896	105.731	0.000	35.896	0.000	105.731	0.000	35.895	0.001	2200	19.698	105.731	35.896	105.731	0.000	35.896	0.000	105.731	0.000	35.895	0.001	2200
2400	19.725	107.447	39.838	107.446	0.001	39.838	-0.000	107.446	0.001	39.837	0.001	2400	19.725	107.447	39.838	107.446	0.001	39.838	-0.000	107.446	0.001	39.837	0.001	2400
2600	19.747	109.026	43.786	109.026	0.000	43.786	0.000	109.026	0.000	43.784	0.002	2600	19.747	109.026	43.786	109.026	0.000	43.786	0.000	109.026	0.000	43.784	0.002	2600
2800	19.764	110.490	47.737	110.490	0.000	47.737	0.000	110.490	-0.000	47.737	0.000	2800	19.764	110.490	47.737	110.490	0.000	47.737	0.000	110.490	-0.000	47.737	0.000	2800
3000	19.778	111.855	51.691	111.854	0.001	51.691	-0.000	111.855	0.000	51.693	-0.002	3000	19.778	111.855	51.691	111.854	0.001	51.691	-0.000	111.855	0.000	51.693	-0.002	3000
3000	19.778	111.855	51.691	111.854	0.001	51.691	-0.000	111.855	0.000	51.695	-0.004	3000	19.778	111.855	51.691	111.854	0.001	51.691	-0.000	111.855	0.000	51.695	-0.004	3000
3200	19.789	113.131	55.648	113.131	0.000	55.648	-0.000	113.131	0.000	55.649	-0.001	3200	19.789	113.131	55.648	113.131	0.000	55.648	-0.000	113.131	0.000	55.649	-0.001	3200
3400	19.799	114.331	59.607	114.331	0.000	59.607	-0.000	114.330	0.001	59.606	0.001	3400	19.799	114.331	59.607	114.331	0.000	59.607	-0.000	114.330	0.001	59.606	0.001	3400
3600	19.807	115.463	63.567	115.463	0.000	63.568	-0.001	115.462	0.001	63.565	0.002	3600	19.807	115.463	63.567	115.463	0.000	63.568	-0.001	115.462	0.001	63.565	0.002	3600
3800	19.813	116.534	67.529	116.534	0.000	67.530	-0.001	116.533	0.001	67.527	0.002	3800	19.813	116.534	67.529	116.534	0.000	67.530	-0.001	116.533	0.001	67.527	0.002	3800
4000	19.819	117.551	71.493	117.550	0.001	71.494	-0.001	117.549	0.002	71.490	0.003	4000	19.819	117.551	71.493	117.550	0.001	71.494	-0.001	117.549	0.002	71.490	0.003	4000
4200	19.824	118.518	75.457	118.517	0.001	75.458	-0.001	118.516	0.002	75.455	0.002	4200	19.824	118.518	75.457	118.517	0.001	75.458	-0.001	118.516	0.002	75.455	0.002	4200
4400	19.828	119.440	79.422	119.440	0.000	79.423	-0.001	119.439	0.001	79.421	0.001	4400	19.828	119.440	79.422	119.440	0.000	79.423	-0.001	119.439	0.001	79.421	0.001	4400
4600	19.832	120.322	83.388	120.321	0.001	83.388	-0.000	120.321	0.001	83.388	0.000	4600	19.832	120.322	83.388	120.321	0.001	83.388	-0.000	120.321	0.001	83.388	0.000	4600
4800	19.835	121.166	87.355	121.165	0.001	87.355	0.000	121.165	0.001	87.355	-0.000	4800	19.835	121.166	87.355	121.165	0.001	87.355	0.000	121.165	0.001	87.355	-0.000	4800
5000	19.838	121.976	91.322	121.975	0.001	91.322	0.000	121.975	0.001	91.323	-0.001	5000	19.838	121.976	91.322	121.975	0.001	91.322	0.000	121.975	0.001	91.323	-0.001	5000
5200	19.841	122.754	95.290	122.753	0.001	95.289	0.001	122.753	0.001	95.291	-0.001	5200	19.841	122.754	95.290	122.753	0.001	95.289	0.001	122.753	0.001	95.291	-0.001	5200
5400	19.843	123.503	99.259	123.502	0.001	99.258	0.001	123.502	0.001	99.259	-0.001	5400	19.843	123.503	99.259	123.502	0.001	99.258	0.001	123.502	0.001	99.259	-0.001	5400
5600	19.845	124.224	103.228	124.223	0.001	103.227	0.001	124.223	0.001	103.228	0.000	5600	19.845	124.224	103.228	124.223	0.001	103.227	0.001	124.223	0.001	103.228	0.000	5600
5800	19.847	124.921	107.197	124.920	0.001	107.197	0.000	124.920	0.001	107.196	0.001	5800	19.847	124.921	107.197	124.920	0.001	107.197	0.000	124.920	0.001	107.196	0.001	5800
6000	19.849	125.594	111.166	125.593	0.001	111.167	-0.001	125.592	0.002	111.165	0.001	6000	19.849	125.594	111.166	125.593	0.001	111.167	-0.001	125.592	0.002	111.165	0.001	6000

BORON MONOFLUORIDE

(G) B 1P 1

1264

MOL. WT. = 29.800 BLOCK = 250 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -27.700 KEY = 48

FITS FOR NOTS RMS = 0.004576

1 5 1 9 0 0 0 0 0 0 0 BORON MONOFLUORIDE (G) 10J1264 48
 +8.6098957E+0+2.7630782E-1-4.4392939E-2+3.2870443E-3 400 6000 11J1264 48
 -3.5372924E-1-3.1270584E+1+5.6795532E+1-2.7699996E+1BF (G) 12J1264 48

FITS FOR EST RMS LOW = 0.006831 RMS HIGH = 0.003040

1 5 1 9 0 0 0 0 0 0 0 BORON MONOFLUORIDE (G) 10BF
 -276999+5+232908+5+873386+1+138810-3-376208+6+669339+2 4003000J126411BF
 -276999+5+232900+5+900292+1+640691-4-105432+7+669339+230006000J126412BF

-----NOTS-----

-----EST-----

DH KC/M	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
-0.044	400	7.309	50.000	0.732	50.119	-0.119	0.779	-0.047	50.130	-0.130	0.784	-0.052
0.013	600	7.832	53.065	2.247	53.047	0.018	2.232	0.015	53.046	0.019	2.232	0.015
0.010	800	8.211	55.374	3.854	55.358	0.016	3.841	0.013	55.358	0.016	3.841	0.013
0.002	1000	8.457	57.234	5.523	57.228	0.006	5.517	0.006	57.228	0.006	5.519	0.004
-0.001	1200	8.620	58.792	7.231	58.790	0.002	7.231	-0.000	58.791	0.001	7.233	-0.002
-0.003	1400	8.732	60.129	8.967	60.129	-0.000	8.969	-0.002	60.131	-0.002	8.971	-0.004
-0.003	1600	8.814	61.301	10.722	61.301	-0.000	10.725	-0.003	61.302	-0.001	10.726	-0.004
-0.002	1800	8.877	62.343	12.492	62.343	0.000	12.494	-0.002	62.343	-0.000	12.494	-0.002
-0.000	2000	8.927	63.281	14.272	63.280	0.001	14.273	-0.001	63.280	0.001	14.273	-0.001
0.001	2200	8.969	64.134	16.062	64.133	0.001	16.062	-0.000	64.132	0.002	16.061	0.001
0.001	2400	9.004	64.916	17.859	64.914	0.002	17.859	0.000	64.914	0.002	17.857	0.002
0.002	2600	9.035	65.638	19.663	65.636	0.002	19.663	0.000	65.636	0.002	19.661	0.002
0.000	2800	9.062	66.308	21.473	66.307	0.001	21.472	0.001	66.307	0.001	21.473	0.000
-0.002	3000	9.088	66.934	23.288	66.933	0.001	23.287	0.001	66.934	0.000	23.291	-0.003
-0.004	3000	9.088	66.934	23.288	66.933	0.001	23.287	0.001	66.934	0.000	23.290	-0.002
-0.001	3200	9.111	67.521	25.108	67.520	0.001	25.108	0.000	67.521	0.000	25.108	-0.000
0.001	3400	9.133	68.075	26.932	68.073	0.002	26.932	-0.000	68.073	0.002	26.932	0.000
0.002	3600	9.154	68.597	28.761	68.596	0.001	28.761	-0.000	68.596	0.001	28.760	0.001
0.002	3800	9.173	69.093	30.594	69.092	0.001	30.594	-0.000	69.091	0.002	30.593	0.001
0.003	4000	9.192	69.564	32.430	69.563	0.001	32.431	-0.001	69.562	0.002	32.429	0.001
0.002	4200	9.211	70.013	34.271	70.012	0.001	34.272	-0.001	70.011	0.002	34.270	0.001
0.001	4400	9.229	70.441	36.115	70.440	0.001	36.115	-0.000	70.440	0.001	36.114	0.001
0.000	4600	9.246	70.852	37.962	70.851	0.001	37.963	-0.001	70.851	0.001	37.962	-0.000
-0.000	4800	9.264	71.246	39.813	71.245	0.001	39.813	-0.000	71.245	0.001	39.813	-0.000
-0.001	5000	9.280	71.624	41.668	71.623	0.001	41.667	0.001	71.624	0.000	41.668	0.000
-0.001	5200	9.297	71.989	43.525	71.988	0.001	43.525	0.000	71.988	0.001	43.526	-0.001
-0.001	5400	9.313	72.340	45.386	72.339	0.001	45.386	0.000	72.339	0.001	45.387	-0.001
0.000	5600	9.330	72.679	47.251	72.678	0.001	47.250	0.001	72.678	0.001	47.251	0.000
0.001	5800	9.346	73.007	49.118	73.005	0.002	49.118	0.000	73.006	0.001	49.118	0.000
0.001	6000	9.362	73.324	50.989	73.323	0.001	50.990	-0.001	73.323	0.001	50.988	0.001

BORON OXYFLUORIDE (G) B 1F 10 1
 MOL. WT.= 45.800 BLOCK= 256 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -144.000 KEY = 49
 FITS FOR NOTS RMS = 0.010964
 5 1 8 1 9 0 0 0 0 0 BORON OXYFLUORIDE (G) 10J 365 49
 .3976180E+1+5.5698311E-1-1.1978995E-1+8.7636560E-3 400 6000 11J 365 49
 .2315063E-1-1.5052983E+2+6.7024078E+1-1.4400000E+2BFO(G) 12J 365 49

365

BORON
 MOL. W
 DATA FRO
 FITS FOR
 1 5 2
 +1.3381164
 -7.1347045

FITS FOR EST RMS LOW = 0.017187 RMS HIGH = 0.004512
 5 1 8 1 9 0 0 0 0 0 BORON OXYFLUORIDE (G) 10BFO
 .44000+6+372884+5+143228+2+180855-3-889472+6+836389+2 4003000J 36511BFO
 .44000+6+372846+5+150024+2-144630-4-237542+7+836389+230006000J 36512BFO

FITS FOR
 1 5 2
 -130000+6
 -130000+6

-----NOTS-----														-----EST-----													
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	CI														
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K														
400	10.792	56.730	1.051	57.004	-0.274	1.161	-0.110	57.040	-0.310	1.177	-0.126	400	10.4														
500	12.130	61.380	3.354	61.341	0.039	3.320	0.034	61.339	0.041	3.318	0.036	600	11.6														
600	12.975	64.995	5.871	64.957	0.038	5.839	0.032	64.955	0.040	5.838	0.033	800	12.4														
700	13.515	67.952	8.524	67.936	0.016	8.510	0.014	67.937	0.015	8.512	0.012	1000	12.8														
800	13.869	70.450	11.264	70.445	0.005	11.264	-0.000	70.449	0.001	11.269	-0.005	1200	13.1														
900	14.109	72.607	14.064	72.607	-0.000	14.069	-0.005	72.611	-0.004	14.074	-0.010	1400	13.3														
1000	14.277	74.503	16.903	74.503	-0.001	16.910	-0.007	74.507	-0.004	16.914	-0.011	1600	13.4														
1100	14.398	76.192	19.771	76.192	0.000	19.777	-0.006	76.193	-0.001	19.778	-0.007	1800	13.5														
1200	14.487	77.713	22.660	77.712	0.001	22.664	-0.004	77.712	0.001	22.662	-0.002	2000	13.6														
1300	14.556	79.098	25.565	79.095	0.003	25.566	-0.001	79.094	0.004	25.562	0.003	2200	13.6														
1400	14.609	80.366	28.482	80.363	0.003	28.481	0.001	80.362	0.004	28.476	0.006	2400	13.7														
1500	14.651	81.537	31.408	81.534	0.003	31.406	0.002	81.533	0.004	31.402	0.006	2600	13.7														
1600	14.685	82.625	34.341	82.621	0.004	34.339	0.002	82.622	0.003	34.340	0.001	2800	13.7														
1700	14.712	83.639	37.281	83.635	0.004	37.279	0.002	83.639	0.000	37.288	-0.007	3000	13.7														
1800	14.712	83.639	37.281	83.635	0.004	37.279	0.002	83.639	0.000	37.285	-0.004	3000	13.7														
1900	14.735	84.589	40.226	84.585	0.004	40.224	0.002	84.588	0.001	40.227	-0.001	3200	13.7														
2000	14.754	85.483	43.175	85.480	0.003	43.174	0.001	85.482	0.001	43.174	0.001	3400	13.8														
2100	14.770	86.326	46.127	86.324	0.002	46.127	-0.000	86.325	0.001	46.126	0.001	3600	13.8														
2200	14.783	87.125	49.082	87.123	0.002	49.083	-0.001	87.124	0.001	49.081	0.001	3800	13.8														
2300	14.795	87.884	52.040	87.881	0.003	52.042	-0.002	87.883	0.001	52.039	0.001	4000	13.8														
2400	14.805	88.606	55.000	88.604	0.002	55.002	-0.002	88.605	0.001	54.999	0.001	4200	13.8														
2500	14.813	89.295	57.962	89.292	0.003	57.964	-0.002	89.294	0.001	57.961	0.001	4400	13.8														
2600	14.821	89.954	60.925	89.951	0.003	60.927	-0.002	89.953	0.001	60.925	-0.000	4600	13.8														
2700	14.828	90.585	63.890	90.582	0.003	63.891	-0.001	90.584	0.001	63.891	-0.001	4800	13.8														
2800	14.834	91.190	66.857	91.187	0.003	66.856	0.001	91.189	0.001	66.857	-0.000	5000	13.8														
2900	14.839	91.772	69.824	91.769	0.003	69.822	0.002	91.771	0.001	69.825	-0.001	5200	13.8														
3000	14.844	92.332	72.792	92.329	0.003	72.790	0.002	92.331	0.001	72.793	-0.001	5400	13.8														
3100	14.848	92.872	75.761	92.869	0.003	75.760	0.001	92.871	0.001	75.762	-0.001	5600	13.8														
3200	14.852	93.393	78.731	93.390	0.003	78.731	0.000	93.392	0.001	78.731	-0.000	5800	13.8														
3300	14.855	93.897	81.702	93.894	0.003	81.705	-0.003	93.896	0.001	81.701	0.001	6000	13.8														

BORON DIFLUORIDE

(G)

B 1F 2

1264

MOL. WT. = 48.800 BLOCK = 263 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -130.000 KEY = 50

FITS FOR NOTS RMS = 0.007606

19 1 5 2 9 0 0 0 0 0 0 0 BORON DIFLUORIDE (G) 10J1264 50
 19 +1.3381164E+1+3.2415592E-1-7.075541E-2+5.2345246E-3 400 6000 11J1264 50
 19 -7.1347045E-1-1.3606123E+2+7.2042160E+1-1.3000000E+2BF2(G) 12J1264 50

FITS FOR EST RMS LOW = 0.011276 RMS HIGH = 0.004317

1 5 2 9 0 0 0 0 0 0 0 BORON DIFLUORIDE (G) 10BF2
 -130000+6+352538+5+135772+2+105655-3-748848+6+874859+2 4003000J126411BF2
 -130000+6+352521+5+140060+2-140514-4-181512+7+874859+230006000J126412BF2

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
17 -0.126	400	10.415	61.936	1.021	62.135	-0.199	1.099	-0.078	62.153	-0.217	1.108	-0.087	
18 0.036	600	11.654	66.411	3.236	66.380	0.031	3.210	0.026	66.379	0.032	3.210	0.026	
18 0.033	800	12.415	69.877	5.650	69.851	0.026	5.628	0.022	69.851	0.026	5.629	0.021	
12 0.012	1000	12.870	72.701	8.182	72.689	0.012	8.173	0.009	72.691	0.010	8.176	0.006	
19 -0.005	1200	13.152	75.074	10.787	75.071	0.003	10.786	0.001	75.073	0.001	10.790	-0.003	
14 -0.010	1400	13.337	77.116	13.437	77.116	0.000	13.440	-0.003	77.119	-0.003	13.444	-0.007	
14 -0.011	1600	13.463	78.906	16.117	78.906	0.000	16.121	-0.004	78.908	-0.002	16.124	-0.007	
18 -0.007	1800	13.552	80.497	18.819	80.497	0.000	18.823	-0.004	80.498	-0.001	18.823	-0.004	
12 -0.002	2000	13.617	81.928	21.537	81.927	0.001	21.538	-0.001	81.927	0.001	21.537	-0.000	
12 0.003	2200	13.666	83.228	24.265	83.227	0.001	24.266	-0.001	83.226	0.002	24.263	0.002	
16 0.006	2400	13.704	84.419	27.002	84.417	0.002	27.002	0.000	84.416	0.003	26.999	0.003	
12 0.006	2600	13.734	85.517	29.746	85.515	0.002	29.745	0.001	85.515	0.002	29.743	0.003	
10 0.001	2800	13.758	86.536	32.496	86.534	0.002	32.494	0.002	86.534	0.002	32.495	0.001	
18 -0.007	3000	13.777	87.486	35.249	87.484	0.002	35.248	0.001	87.486	0.000	35.254	-0.005	
15 -0.004	3000	13.777	87.486	35.249	87.484	0.002	35.248	0.001	87.486	0.000	35.252	-0.003	
17 -0.001	3200	13.793	88.376	38.006	88.374	0.002	38.005	0.001	88.375	0.001	38.007	-0.001	
14 0.001	3400	13.806	89.212	40.766	89.210	0.002	40.766	-0.000	89.211	0.001	40.765	0.001	
16 0.001	3600	13.817	90.002	43.529	90.000	0.002	43.529	-0.000	90.000	0.002	43.527	0.002	
11 0.001	3800	13.827	90.749	46.293	90.747	0.002	46.294	-0.001	90.748	0.001	46.291	0.002	
19 0.001	4000	13.835	91.459	49.059	91.457	0.002	49.061	-0.002	91.457	0.002	49.058	0.001	
19 0.001	4200	13.842	92.134	51.827	92.132	0.002	51.828	-0.001	92.132	0.002	51.826	0.001	
11 0.001	4400	13.848	92.778	54.596	92.776	0.002	54.597	-0.001	92.777	0.001	54.595	0.001	
15 -0.000	4600	13.853	93.393	57.366	93.392	0.001	57.367	-0.001	93.392	0.001	57.366	0.000	
11 -0.001	4800	13.858	93.983	60.137	93.981	0.002	60.138	-0.001	93.982	0.001	60.138	-0.001	
17 -0.000	5000	13.862	94.549	62.909	94.547	0.002	62.909	0.000	94.548	0.001	62.910	-0.001	
15 -0.001	5200	13.866	95.093	65.682	95.091	0.002	65.681	0.001	95.092	0.001	65.683	-0.001	
13 -0.001	5400	13.869	95.616	68.456	95.614	0.002	68.454	0.002	95.615	0.001	68.456	-0.000	
2 -0.001	5600	13.872	96.121	71.230	96.118	0.003	71.228	0.002	96.119	0.001	71.230	0.000	
11 -0.000	5800	13.875	96.607	74.004	96.605	0.002	74.004	0.000	96.606	0.001	74.004	0.000	
11 0.001	6000	13.877	97.078	76.779	97.076	0.002	76.781	-0.002	97.076	0.002	76.778	0.001	

BORON TRIFLUORIDE (G) B 1F 3 0 0 0 0 669 BOI
 MOL. WT.= 67.800 BLOCK= 269 NO. POINT = 62 MC
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -271.420 KEY = 51 DAT
 TS FOR NOTS RMS = 0.011920 FITS
 5 3 9 0 0 0 0 0 0 BORON TRIFLUORIDE (G) 10J 669 51 1 1
 +995529E+1+5.3739976E-1-1.1753475E-1+8.7098591E-3 400 6000 11J 669 51 +7.65
 -175445E+0-2.8065966E+2+7.8266479E+1-2.7141992E+2BF3(G) 12J 669 51 -3.85

TS FOR EST RMS LOW = 0.018156 RMS HIGH = 0.005867 FITS
 5 3 9 0 0 0 0 0 0 BORON TRIFLUORIDE (G) 10BF3 1 1
 +1419+6+496990+5+193262+2+172604-3-127852+7+100367+3 4003000J 66911BF3 +1057
 +1419+6+496959+5+199945+2-181108-4-282316+7+100367+330006000J 66912BF3 +1057

-----NOTS-----												-----EST-----												T
CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		CP	S	H	SC	DS	HC	DH						K
C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H		C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H						
087	13.753	64.556	1.318	64.872	-0.316	1.443	-0.125	64.903	-0.347	1.458	-0.140	087	13.753	64.556	1.318	64.872	-0.316	1.443	-0.125	64.903	-0.347	1.458	-0.140	400
026	16.030	70.605	4.317	70.556	0.049	4.275	0.042	70.554	0.051	4.275	0.042	026	16.030	70.605	4.317	70.556	0.049	4.275	0.042	70.554	0.051	4.275	0.042	600
021	17.344	75.413	7.666	75.373	0.040	7.631	0.035	75.372	0.041	7.632	0.034	021	17.344	75.413	7.666	75.373	0.040	7.631	0.035	75.372	0.041	7.632	0.034	800
006	18.117	79.374	11.219	79.357	0.017	11.205	0.014	79.359	0.015	11.209	0.010	006	18.117	79.374	11.219	79.357	0.017	11.205	0.014	79.359	0.015	11.209	0.010	1000
003	18.595	82.723	14.893	82.718	0.005	14.893	-0.000	82.722	0.001	14.899	-0.006	003	18.595	82.723	14.893	82.718	0.005	14.893	-0.000	82.722	0.001	14.899	-0.006	1200
007	18.905	85.614	18.646	85.614	0.000	18.651	-0.005	85.618	-0.004	18.657	-0.011	007	18.905	85.614	18.646	85.614	0.000	18.651	-0.005	85.618	-0.004	18.657	-0.011	1400
007	19.117	88.153	22.449	88.154	-0.001	22.456	-0.007	88.156	-0.003	22.459	-0.010	007	19.117	88.153	22.449	88.154	-0.001	22.456	-0.007	88.156	-0.003	22.459	-0.010	1600
004	19.268	90.414	26.288	90.414	0.000	26.294	-0.006	90.415	-0.001	26.295	-0.007	004	19.268	90.414	26.288	90.414	0.000	26.294	-0.006	90.415	-0.001	26.295	-0.007	1800
000	19.378	92.450	30.153	92.448	0.002	30.156	-0.003	92.448	0.002	30.154	-0.001	000	19.378	92.450	30.153	92.448	0.002	30.156	-0.003	92.448	0.002	30.154	-0.001	2000
002	19.460	94.301	34.038	94.298	0.003	34.038	-0.000	94.297	0.004	34.034	0.004	002	19.460	94.301	34.038	94.298	0.003	34.038	-0.000	94.297	0.004	34.034	0.004	2200
003	19.524	95.997	37.936	95.994	0.003	37.935	0.001	95.992	0.005	37.930	0.006	003	19.524	95.997	37.936	95.994	0.003	37.935	0.001	95.992	0.005	37.930	0.006	2400
003	19.574	97.562	41.846	97.558	0.004	41.844	0.002	97.557	0.005	41.841	0.005	003	19.574	97.562	41.846	97.558	0.004	41.844	0.002	97.557	0.005	41.841	0.005	2600
001	19.614	99.014	45.765	99.010	0.004	45.763	0.002	99.011	0.003	45.764	0.001	001	19.614	99.014	45.765	99.010	0.004	45.763	0.002	99.011	0.003	45.764	0.001	2800
005	19.647	100.368	49.691	100.364	0.004	49.690	0.001	100.368	0.000	49.699	-0.008	005	19.647	100.368	49.691	100.364	0.004	49.690	0.001	100.368	0.000	49.699	-0.008	3000
003	19.647	100.368	49.691	100.364	0.004	49.690	0.001	100.368	0.000	49.696	-0.005	003	19.647	100.368	49.691	100.364	0.004	49.690	0.001	100.368	0.000	49.696	-0.005	3000
001	19.674	101.637	53.624	101.634	0.003	53.622	0.002	101.636	0.001	53.625	-0.001	001	19.674	101.637	53.624	101.634	0.003	53.622	0.002	101.636	0.001	53.625	-0.001	3200
001	19.696	102.831	57.561	102.827	0.004	57.560	0.001	102.829	0.002	57.560	0.001	001	19.696	102.831	57.561	102.827	0.004	57.560	0.001	102.829	0.002	57.560	0.001	3400
002	19.715	103.957	61.502	103.954	0.003	61.502	-0.000	103.955	0.002	61.500	0.002	002	19.715	103.957	61.502	103.954	0.003	61.502	-0.000	103.955	0.002	61.500	0.002	3600
002	19.730	105.023	65.446	105.020	0.003	65.448	-0.002	105.021	0.002	65.444	0.002	002	19.730	105.023	65.446	105.020	0.003	65.448	-0.002	105.021	0.002	65.444	0.002	3800
001	19.744	106.036	69.394	106.033	0.003	69.396	-0.002	106.033	0.003	69.392	0.002	001	19.744	106.036	69.394	106.033	0.003	69.396	-0.002	106.033	0.003	69.392	0.002	4000
001	19.756	106.999	73.344	106.997	0.002	73.346	-0.002	106.997	0.002	73.342	0.002	001	19.756	106.999	73.344	106.997	0.002	73.346	-0.002	106.997	0.002	73.342	0.002	4200
001	19.766	107.919	77.256	107.916	0.003	77.298	-0.002	107.916	0.003	77.295	0.001	001	19.766	107.919	77.256	107.916	0.003	77.298	-0.002	107.916	0.003	77.295	0.001	4400
000	19.775	108.797	81.250	108.795	0.002	81.252	-0.002	108.795	0.002	81.250	0.000	000	19.775	108.797	81.250	108.795	0.002	81.252	-0.002	108.795	0.002	81.250	0.000	4600
001	19.783	109.639	85.206	109.636	0.003	85.206	-0.000	109.637	0.002	85.206	-0.000	001	19.783	109.639	85.206	109.636	0.003	85.206	-0.000	109.637	0.002	85.206	-0.000	4800
001	19.790	110.447	89.163	110.444	0.003	89.162	0.001	110.445	0.002	89.164	-0.001	001	19.790	110.447	89.163	110.444	0.003	89.162	0.001	110.445	0.002	89.164	-0.001	5000
001	19.796	111.223	93.122	111.220	0.003	93.120	0.002	111.221	0.002	93.122	-0.000	001	19.796	111.223	93.122	111.220	0.003	93.120	0.002	111.221	0.002	93.122	-0.000	5200
000	19.801	111.970	97.081	111.967	0.003	97.079	0.002	111.969	0.001	97.082	-0.001	000	19.801	111.970	97.081	111.967	0.003	97.079	0.002	111.969	0.001	97.082	-0.001	5400
000	19.806	112.691	101.042	112.687	0.004	101.040	0.002	112.689	0.002	101.042	-0.000	000	19.806	112.691	101.042	112.687	0.004	101.040	0.002	112.689	0.002	101.042	-0.000	5600
000	19.811	113.386	105.004	113.382	0.004	105.003	0.001	113.384	0.002	105.003	0.001	000	19.811	113.386	105.004	113.382	0.004	105.003	0.001	113.384	0.002	105.003	0.001	5800
001	19.815	114.057	108.966	114.055	0.002	108.969	-0.003	114.055	0.002	108.965	0.001	001	19.815	114.057	108.966	114.055	0.002	108.969	-0.003	114.055	0.002	108.965	0.001	6000

BORON MONOHYDRIDE

(G) B 1H 1

1264

MOL. WT. = 11.810 BLOCK = 275 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = 105.800 KEY = 52

FITS FOR NOTS RMS = 0.011391

1 1 1 5 0 0 0 0 0 0 BORON MONOHYDRIDE (G) 10J1264 52
 +7.6546888E+0+8.8847434E-1-1.5655696E-1+1.1222217E-2 400 6000 11J1264 52
 -3.8523864E-1+1.0252317E+2+4.8823089E+1+1.0579998E+2BH (G) 12J1264 52

FITS FOR EST RMS LOW = 0.018619 RMS HIGH = 0.003054

1 1 1 5 0 0 0 0 0 0 BORON MONOHYDRIDE (G) 10BH
 +105799+6+226444+5+812292+1+389596-3-477600+6+593199+2 4003000J126411BH
 +105799+6+226372+5+899549+1+133318-3-213185+7+593199+230006000J126412BH

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.140	400	7.014	43.101	0.712	43.356	-0.255	0.816	-0.104	43.406	-0.305	0.838	-0.126	
0.042	600	7.252	45.984	2.135	45.954	0.030	2.107	0.028	45.948	0.036	2.103	0.032	
0.034	800	7.599	48.117	3.620	48.079	0.038	3.587	0.033	48.073	0.044	3.583	0.037	
0.010	1000	7.926	49.848	5.173	49.830	0.018	5.158	0.015	49.829	0.019	5.159	0.014	
-0.006	1200	8.193	51.318	6.786	51.312	0.006	6.785	0.001	51.315	0.003	6.789	-0.003	
-0.011	1400	8.404	52.597	8.447	52.598	-0.001	8.453	-0.006	52.601	-0.004	8.458	-0.011	
-0.010	1600	8.571	53.731	10.145	53.733	-0.002	10.153	-0.008	53.735	-0.004	10.157	-0.012	
-0.007	1800	8.704	54.748	11.873	54.749	-0.001	11.880	-0.007	54.750	-0.002	11.881	-0.008	
-0.001	2000	8.814	55.671	13.625	55.671	0.000	13.630	-0.005	55.670	0.001	13.627	-0.002	
0.004	2200	8.905	56.516	15.397	56.514	0.002	15.399	-0.002	56.512	0.004	15.394	0.003	
0.006	2400	8.984	57.294	17.186	57.291	0.003	17.185	0.001	57.289	0.005	17.179	0.007	
0.005	2600	9.053	58.016	18.990	58.012	0.004	18.988	0.002	58.011	0.005	18.983	0.007	
0.001	2800	9.114	58.689	20.807	58.685	0.004	20.804	0.003	58.686	0.003	20.805	0.002	
-0.008	3000	9.169	59.320	22.635	59.316	0.004	22.632	0.003	59.320	0.000	22.644	-0.009	
-0.005	3000	9.169	59.320	22.635	59.316	0.004	22.632	0.003	59.320	0.000	22.637	-0.002	
-0.001	3200	9.220	59.913	24.474	59.910	0.003	24.472	0.002	59.913	0.000	24.475	-0.001	
0.001	3400	9.268	60.474	26.323	60.470	0.004	26.322	0.001	60.473	0.001	26.323	0.000	
0.002	3600	9.312	61.005	28.181	61.002	0.003	28.181	0.000	61.004	0.001	28.180	0.001	
0.002	3800	9.354	61.509	30.048	61.507	0.002	30.049	-0.001	61.508	0.001	30.047	0.001	
0.002	4000	9.394	61.990	31.923	61.988	0.002	31.924	-0.001	61.989	0.001	31.922	0.001	
0.002	4200	9.433	62.449	33.805	62.447	0.002	33.808	-0.003	62.449	0.000	33.805	0.000	
0.001	4400	9.470	62.889	35.696	62.887	0.002	35.698	-0.002	62.888	0.001	35.695	0.001	
0.000	4600	9.507	63.311	37.593	63.308	0.003	37.595	-0.002	63.310	0.001	37.593	-0.001	
-0.000	4800	9.542	63.716	39.498	63.714	0.002	39.499	-0.001	63.716	0.000	39.499	-0.001	
-0.001	5000	9.576	64.106	41.410	64.104	0.002	41.410	0.000	64.106	0.000	41.411	-0.001	
-0.000	5200	9.610	64.483	43.329	64.480	0.003	43.327	0.002	64.482	0.001	43.329	-0.000	
-0.001	5400	9.643	64.846	45.254	64.843	0.003	45.252	0.002	64.845	0.001	45.255	-0.001	
-0.000	5600	9.676	65.197	47.186	65.194	0.003	47.184	0.002	65.197	0.000	47.186	-0.000	
0.001	5800	9.708	65.537	49.124	65.534	0.003	49.124	0.000	65.537	0.000	49.124	-0.000	
0.001	6000	9.740	65.867	51.069	65.865	0.002	51.072	-0.003	65.866	0.001	51.068	0.001	

HYPOBOROUS ACID (G) B 1H 10 1
 MOL. WT. = 27.810 BLOCK = 281 NO. POINT = 62
 TA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -20.000 KEY = 53
 TS FOR NOTS RMS = 0.020481
 1 1 5 1 8 0 0 0 0 0 HYPOBOROUS ACID (G) 10J1264 53
 2797704E+1+1.2431716E+0-2.6385176E-1+1.9092828E-2 400 6000 11J1264 53
 669403E+0-2.6757659E+1+5.9647811E+1-2.0000000E+1BHO(G) 12J1264 53

1264

METAB

MOL.

DATA P

FITS P

1 1 1

+1.55040

-1.37428

ITS FOR EST RMS LOW = 0.033287 RMS HIGH = 0.004470

FITS P

1 1 5 1 8 0 0 0 0 0 HYPOBOROUS ACID (G) 10BHO

1 1 1

0000+5+356185+5+135818+2+405668-3-122089+7+764879+2 4003000J126411BHO

-134000+

0000+5+356060+5+149801+2-116528-4-374059+7+764879+230006000J126412BHO

-134000+

-----NOTS-----

-----EST-----

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	
	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	K	C/H
0	9.494	51.246	0.925	51.732	-0.486	1.123	-0.198	51.815	-0.569	1.158	-0.233	400	11.
0	10.802	55.355	2.960	55.292	0.063	2.905	0.055	55.283	0.072	2.897	0.063	600	13.
0	11.819	58.608	5.227	58.539	0.069	5.169	0.058	58.530	0.078	5.162	0.065	800	14.
0	12.571	61.331	7.670	61.299	0.032	7.645	0.025	61.298	0.033	7.646	0.024	1000	15.
0	13.110	63.673	10.241	63.664	0.009	10.242	-0.001	63.669	0.004	10.248	-0.007	1200	16.
0	13.496	65.724	12.904	65.725	-0.001	12.917	-0.013	65.731	-0.007	12.925	-0.021	1400	17.
0	13.776	67.546	15.632	67.549	-0.003	15.648	-0.016	67.553	-0.007	15.654	-0.022	1600	17.
0	13.984	69.181	18.409	69.182	-0.001	18.422	-0.013	69.184	-0.003	18.423	-0.014	1800	18.
0	14.141	70.663	21.223	70.661	0.002	21.230	-0.007	70.660	0.003	21.226	-0.003	2000	18.
0	14.263	72.017	24.064	72.013	0.004	24.066	-0.002	72.009	0.008	24.057	0.007	2200	18.
0	14.358	73.262	26.926	73.256	0.006	26.924	0.002	73.252	0.010	26.914	0.012	2400	18.
0	14.434	74.414	29.805	74.407	0.007	29.801	0.004	74.405	0.009	29.794	0.011	2600	18.
0	14.495	75.486	32.699	75.479	0.007	32.693	0.006	75.480	0.006	32.696	0.003	2800	19.
0	14.546	76.488	35.603	76.481	0.007	35.597	0.006	76.488	0.000	35.619	-0.016	3000	19.
0	14.546	76.488	35.603	76.481	0.007	35.597	0.006	76.488	0.000	35.606	-0.003	3000	19.
0	14.587	77.428	38.516	77.421	0.007	38.512	0.004	77.427	0.001	38.517	-0.001	3200	19.
0	14.622	78.314	41.437	78.307	0.007	41.435	0.002	78.312	0.002	41.436	0.001	3400	19.
0	14.652	79.150	44.365	79.145	0.005	44.364	0.001	79.149	0.001	44.363	0.002	3600	19.
0	14.677	79.943	47.298	79.938	0.005	47.299	-0.001	79.941	0.001	47.296	0.002	3800	19.
0	14.698	80.697	50.235	80.692	0.005	50.238	-0.003	80.695	0.002	50.234	0.001	4000	19.
0	14.717	81.414	53.177	81.409	0.005	53.181	-0.004	81.413	0.001	53.176	0.001	4200	19.
0	14.733	82.099	56.122	82.094	0.005	56.126	-0.004	82.098	0.001	56.121	0.001	4400	19.
0	14.748	82.754	59.070	82.750	0.004	59.073	-0.003	82.753	0.001	59.070	0.000	4600	19.
0	14.760	83.382	62.021	83.377	0.005	62.022	-0.001	83.381	0.001	62.021	0.000	4800	19.
0	14.771	83.985	64.974	83.979	0.006	64.973	0.001	83.984	0.001	64.974	-0.000	5000	19.
0	14.781	84.565	67.929	84.559	0.006	67.927	0.002	84.563	0.002	67.930	-0.001	5200	19.
0	14.790	85.123	70.886	85.116	0.007	70.883	0.003	85.121	0.002	70.887	-0.001	5400	19.
0	14.798	85.661	73.845	85.654	0.007	73.842	0.003	85.659	0.002	73.845	-0.000	5600	19.
0	14.805	86.180	76.805	86.174	0.006	76.804	0.001	86.179	0.001	76.805	0.000	5800	19.
0	14.811	86.682	79.767	86.677	0.005	79.772	-0.005	86.681	0.001	79.766	0.001	6000	19.

54

METABORIC ACID

MOL. WT.= 43.810

BLOCK= 288

NO. POINT = 62

DATA FROM 0 TO 6000 K

HFORM(KCAL/(MOLE) = -134.000

KEY = 54

FITS FOR NOTS RMS = 0.028469

1 1 1 5 2 8 0 0 0 0 0 METABORIC ACID

(G) 10J1264 54

+1.5504074E+1+2.4200477E+0-4.9196898E-1+3.4522026E-2 400 6000

11J1264 54

-1.3742828E+0-1.4247640E+2+7.0014373E+1-1.3400000E+2BH02 (G)

12J1264 54

FITS FOR EST RMS LOW = 0.049730 RMS HIGH = 0.005850

1 1 1 5 2 8 0 0 0 0 0 METABORIC ACID

(G) 10BH02

-134000+6+456901+5+170378+2+821613-3-168918+7+924899+2 4003000J126411BH02

-134000+6+456687+5+199089+2-796250-5-717875+7+924899+230006000J126412BH02

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M	
158 -0.233	400	11.366	60.420	1.094	61.032	-0.612	1.344	-0.250	61.209	-0.789	1.420	-0.326	
397 0.063	600	13.402	65.436	3.582	65.369	0.067	3.518	0.064	65.349	0.087	3.502	0.080	
162 0.065	800	14.851	69.502	6.415	69.413	0.089	6.339	0.076	69.388	0.114	6.321	0.094	
546 0.024	1000	15.895	72.934	9.495	72.887	0.047	9.457	0.038	72.880	0.054	9.454	0.041	
248 -0.007	1200	16.671	75.904	12.756	75.888	0.016	12.751	0.005	75.892	0.012	12.761	-0.005	
325 -0.021	1400	17.260	78.520	16.151	78.519	0.001	16.166	-0.015	78.527	-0.007	16.181	-0.030	
554 -0.022	1600	17.713	80.856	19.651	80.859	-0.003	19.672	-0.021	80.866	-0.010	19.684	-0.033	
423 -0.014	1800	18.066	82.963	23.230	82.966	-0.003	23.249	-0.019	82.967	-0.005	23.254	-0.024	
226 -0.003	2000	18.345	84.882	26.872	84.881	0.001	26.885	-0.013	84.877	0.005	26.880	-0.008	
357 0.007	2200	18.567	86.641	30.564	86.637	0.004	30.570	-0.006	86.629	0.012	30.556	0.008	
314 0.012	2400	18.746	88.264	34.296	88.257	0.007	34.295	0.001	88.248	0.016	34.277	0.019	
194 0.011	2600	18.892	89.771	38.060	89.762	0.009	38.055	0.005	89.754	0.017	38.041	0.019	
596 0.003	2800	19.012	91.175	41.851	91.165	0.010	41.843	0.008	91.164	0.011	41.846	0.005	
519 -0.016	3000	19.113	92.490	45.664	92.481	0.009	45.655	0.009	92.490	0.000	45.690	-0.026	
506 -0.003	3000	19.113	92.490	45.664	92.481	0.009	45.655	0.009	92.490	0.000	45.669	-0.005	
517 -0.001	3200	19.197	93.727	49.495	93.717	0.010	49.488	0.007	93.725	0.002	49.496	-0.001	
436 0.001	3400	19.268	94.893	53.342	94.884	0.009	53.337	0.005	94.890	0.003	53.341	0.001	
363 0.002	3600	19.329	95.996	57.202	95.988	0.008	57.200	0.002	95.993	0.003	57.200	0.002	
296 0.002	3800	19.381	97.042	61.073	97.035	0.007	61.075	-0.002	97.040	0.002	61.071	0.002	
234 0.001	4000	19.426	98.038	64.954	98.031	0.007	64.958	-0.004	98.035	0.003	64.952	0.002	
176 0.001	4200	19.466	98.986	68.843	98.981	0.005	68.849	-0.006	98.984	0.002	68.841	0.002	
121 0.001	4400	19.500	99.893	72.739	99.887	0.006	72.745	-0.006	99.890	0.003	72.739	0.000	
170 0.000	4600	19.530	100.760	76.643	100.754	0.006	76.647	-0.004	100.758	0.002	76.642	0.001	
121 0.000	4800	19.557	101.592	80.551	101.585	0.007	80.554	-0.003	101.590	0.002	80.552	-0.001	
374 -0.000	5000	19.581	102.391	84.465	102.384	0.007	84.465	0.000	102.389	0.002	84.466	-0.001	
330 -0.001	5200	19.602	103.159	88.384	103.152	0.007	88.380	0.004	103.157	0.002	88.384	-0.000	
387 -0.001	5400	19.621	103.899	92.306	103.891	0.008	92.300	0.006	103.897	0.002	92.306	-0.000	
345 -0.000	5600	19.638	104.613	96.232	104.605	0.008	96.227	0.005	104.611	0.002	96.232	-0.000	
305 0.000	5800	19.654	105.303	100.161	105.295	0.008	100.160	0.001	105.300	0.003	100.161	0.000	
766 0.000	6000	19.668	105.969	104.093	105.963	0.006	104.101	-0.008	105.967	0.002	104.092	0.001	

BORON DIHYDRIDE (G) B 1H 2
 MOL. WT.= 12.820 BLOCK= 294 NO. POINT = 62
 TA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 48.000 KEY = 55
 ITS FOR NOTS RMS = 0.026428
 1 1 5 0 0 0 0 0 0 0 BORON DIHYDRIDE (G) 10J 64 55
 1698677E+1+1.8481702E+0-3.8574832E-1+2.7565985E-2 400 6000 11J1264 55
 627288E+0+4.1631378E+1+5.2817733E+1+4.8000000E+1BH2(G) 12J1264 55

1264

BORON
 MOL.
 DATA FR
 FITS FO
 2 1 1
 +2.148078
 -2.009521

ITS FOR EST RMS LOW = 0.043748 RMS HIGH = 0.004367
 1 1 5 0 0 0 0 0 0 0 BORON DIHYDRIDE (G) 10BH2
 000+5+345149+5+128651+2+613266-3-129483+7+697949+2 4003000J126411BH2
 000+5+344965+5+149674+2-103611-4-505249+7+697949+230006000J126412BH2

FITS FO
 2 1 1
 -114000+6
 -114000+6

-----NOTS-----												-----EST-----	
CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		T	C
C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		K	C/M
0 8.947	45.553	0.871	46.128	-0.575	1.107	-0.236	46.253	-0.700	1.160	-0.289		400	14.6
0 10.160	49.422	2.788	49.359	0.063	2.728	0.060	49.344	0.078	2.716	0.072		600	17.7
0 11.136	52.483	4.920	52.397	0.086	4.847	0.073	52.381	0.102	4.835	0.085		800	19.8
0 11.930	55.057	7.230	55.014	0.043	7.195	0.035	55.010	0.047	7.195	0.035		1000	21.2
0 12.545	57.289	9.680	57.276	0.013	9.678	0.002	57.281	0.008	9.687	-0.007		1200	22.2
0 13.012	59.259	12.238	59.260	-0.001	12.253	-0.015	59.267	-0.008	12.265	-0.027		1400	22.6
0 13.365	61.021	14.877	61.025	-0.004	14.898	-0.021	61.030	-0.009	14.907	-0.030		1600	23.6
0 13.634	62.611	17.578	62.613	-0.002	17.596	-0.018	62.615	-0.004	17.598	-0.020		1800	23.9
0 13.842	64.059	20.327	64.058	0.001	20.338	-0.011	64.055	0.004	20.332	-0.005		2000	24.2
0 14.005	65.386	23.112	65.382	0.004	23.116	-0.004	65.376	0.010	23.104	0.008		2200	24.4
0 14.134	66.610	25.927	66.603	0.007	25.925	0.002	66.597	0.013	25.910	0.017		2400	24.6
0 14.239	67.746	28.764	67.737	0.009	28.758	0.006	67.732	0.013	28.748	0.016		2600	24.8
0 14.323	68.805	31.621	68.795	0.010	31.613	0.008	68.795	0.010	31.617	0.004		2800	24.9
0 14.393	69.795	34.493	69.786	0.009	34.485	0.008	69.795	0.000	34.515	-0.022		3000	25.0
0 14.393	69.795	34.493	69.786	0.009	34.485	0.008	69.795	0.000	34.497	-0.004		3000	25.0
0 14.452	70.726	37.377	70.717	0.009	37.371	0.006	70.725	0.001	37.378	-0.001		3200	25.1
0 14.501	71.604	40.273	71.596	0.008	40.269	0.004	71.602	0.002	40.272	0.001		3400	25.2
0 14.542	72.434	43.177	72.426	0.008	43.176	0.001	72.432	0.002	43.176	0.001		3600	25.2
0 14.578	73.221	46.089	73.214	0.007	46.091	-0.002	73.219	0.002	46.088	0.001		3800	25.3
0 14.609	73.970	49.008	73.963	0.007	49.012	-0.004	73.968	0.002	49.007	0.001		4000	25.3
0 14.635	74.683	51.933	74.677	0.006	51.938	-0.005	74.681	0.002	51.931	0.002		4200	25.4
0 14.658	75.364	54.862	75.359	0.005	54.867	-0.005	75.363	0.001	54.861	0.001		4400	25.4
0 14.679	76.016	57.796	76.010	0.006	57.800	-0.004	76.015	0.001	57.796	0.000		4600	25.4
0 14.697	76.641	60.733	76.635	0.006	60.735	-0.002	76.640	0.001	60.734	-0.001		4800	25.5
0 14.713	77.242	63.674	77.235	0.007	63.674	0.000	77.240	0.002	63.675	-0.001		5000	25.5
0 14.727	77.819	66.618	77.812	0.007	66.615	0.003	77.818	0.001	66.619	-0.001		5200	25.5
0 14.739	78.375	69.565	78.367	0.008	69.560	0.005	78.374	0.001	69.565	-0.000		5400	25.5
0 14.751	78.911	72.514	78.904	0.007	72.509	0.005	78.910	0.001	72.514	0.000		5600	25.5
0 14.761	79.429	75.465	79.422	0.007	75.464	0.001	79.428	0.001	75.465	0.000		5800	25.5
0 14.770	79.930	78.418	79.924	0.006	78.425	-0.007	79.928	0.002	78.417	0.001		6000	25.5

BORON DIHYDROXIDE (G) B 1H 20 L
 MOL. WT. = 44.820 BLOCK = 300 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = -114.000 KEY = 56
 FITS FOR NOTS RMS = 0.035709
 2 1 1 5 2 8 0 0 0 0 0 BORON DIHYDROXIDE (G) 10J1264 56
 +2.1480789E+1+2.5011558E+0-5.2117520E-1+3.7217304E-2 400 6000 11J1264 56
 -2.0095214E+0-1.2609466E+2+7.5335388E+1-1.1400000E+2BH2O2 (G) 12J1264 56

FITS FOR EST RMS LOW = 0.059439 RMS HIGH = 0.007692
 2 1 1 5 2 8 0 0 0 0 0 BOPCN DIHYDROXIDE (G) 10BH2O2
 -114000+6+603755+5+230590+2+831327-3-232440+7+104551+3 4003000J126411BH2O2
 -114000+6+603519+5+259525+2-189482-4-771507+7+104551+330006000J126412BH2O2

/M	-----NOTS-----								-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
289	400	14.625	62.085	1.381	62.892	-0.807	1.711	-0.330	63.063	-0.978	1.784	-0.403
072	600	17.769	68.658	4.644	68.563	0.095	4.557	0.087	68.544	0.114	4.542	0.102
085	800	19.813	74.069	8.416	73.953	0.116	8.317	0.099	73.931	0.138	8.301	0.115
035	1000	21.226	78.651	12.528	78.593	0.058	12.482	0.046	78.589	0.062	12.482	0.046
007	1200	22.235	82.615	16.879	82.597	0.018	16.877	0.002	82.605	0.010	16.889	-0.010
027	1400	22.970	86.100	21.404	86.101	-0.001	21.424	-0.020	86.111	-0.011	21.440	-0.036
030	1600	23.514	89.205	26.055	89.209	-0.004	26.081	-0.026	89.218	-0.013	26.094	-0.039
020	1800	23.925	91.999	30.800	92.002	-0.003	30.823	-0.023	92.005	-0.006	30.827	-0.027
005	2000	24.240	94.537	35.618	94.535	0.002	35.633	-0.015	94.532	0.005	35.626	-0.008
008	2200	24.486	96.859	40.492	96.853	0.006	40.497	-0.005	96.846	0.013	40.481	0.011
017	2400	24.681	98.998	45.409	98.989	0.009	45.407	0.002	98.980	0.018	45.387	0.022
016	2600	24.837	100.980	50.361	100.969	0.011	50.354	0.007	100.962	0.018	50.340	0.021
004	2800	24.965	102.826	55.342	102.813	0.013	55.332	0.010	102.814	0.012	55.337	0.005
022	3000	25.069	104.552	60.346	104.539	0.013	60.336	0.010	104.552	0.000	60.376	-0.030
004	3000	25.069	104.552	60.346	104.539	0.013	60.336	0.010	104.552	0.000	60.352	-0.006
001	3200	25.157	106.173	65.369	106.161	0.012	65.361	0.008	106.171	0.002	65.370	-0.001
001	3400	25.230	107.700	70.408	107.689	0.011	70.403	0.005	107.698	0.002	70.406	0.002
001	3600	25.293	109.144	75.460	109.134	0.010	75.459	0.001	109.141	0.003	75.457	0.003
001	3800	25.346	110.513	80.524	110.504	0.009	80.527	-0.003	110.510	0.003	80.521	0.003
001	4000	25.392	111.814	85.598	111.806	0.008	85.604	-0.006	111.812	0.002	85.595	0.003
002	4200	25.432	113.054	90.680	113.046	0.008	90.688	-0.008	113.052	0.002	90.678	0.002
001	4400	25.466	114.238	95.770	114.230	0.008	95.777	-0.007	114.236	0.002	95.769	0.001
000	4600	25.497	115.371	100.867	115.363	0.008	100.872	-0.005	115.369	0.002	100.866	0.001
001	4800	25.524	116.456	105.969	116.448	0.008	105.972	-0.003	116.454	0.002	105.969	-0.000
001	5000	25.547	117.499	111.076	117.489	0.010	111.075	0.001	117.497	0.002	111.077	-0.001
001	5200	25.568	118.501	116.187	118.491	0.010	116.183	0.004	118.499	0.002	116.189	-0.002
000	5400	25.587	119.466	121.303	119.456	0.010	121.297	0.006	119.465	0.001	121.304	-0.001
000	5600	25.604	120.397	126.422	120.387	0.010	126.416	0.006	120.395	0.002	126.423	-0.001
000	5800	25.620	121.296	131.545	121.286	0.010	131.543	0.002	121.294	0.002	131.544	0.001
001	6000	25.634	122.165	136.670	122.157	0.008	136.680	-0.010	122.163	0.002	136.668	0.002

BORIC
MOL.
DATA PE
FITS FC

FITS PC
3 1 1
-237159+6
-237159+6

-----NOTS-----								-----EST-----					
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K
400	9.304	47.512	0.914	48.649	-1.137	1.383	-0.469	48.925	-1.413	1.498	-0.584	400	18.3
600	10.863	51.569	2.926	51.447	0.122	2.809	0.117	51.415	0.154	2.782	0.144	600	22.4
800	12.509	54.922	5.264	54.753	0.169	5.121	0.143	54.716	0.206	5.092	0.172	800	25.2
1000	13.957	57.874	7.916	57.788	0.086	7.847	0.069	57.779	0.095	7.843	0.073	1000	27.1
1200	15.122	60.526	10.828	60.500	0.026	10.825	0.003	60.509	0.017	10.841	-0.013	1200	28.6
1400	16.026	62.928	13.947	62.929	-0.001	13.979	-0.032	62.944	-0.016	14.002	-0.055	1400	29.8
1600	16.721	65.115	17.225	65.124	-0.009	17.267	-0.042	65.135	-0.020	17.285	-0.060	1600	30.7
1800	17.258	67.117	20.625	67.122	-0.005	20.661	-0.036	67.126	-0.009	20.666	-0.041	1800	31.2
2000	17.677	68.958	24.120	68.956	0.002	24.144	-0.024	68.952	0.006	24.132	-0.012	2000	31.6
2200	18.008	70.659	27.690	70.650	0.009	27.699	-0.009	70.639	0.020	27.674	0.016	2200	32.2
2400	18.272	72.237	31.319	72.224	0.013	31.315	0.004	72.210	0.027	31.285	0.034	2400	32.6
2600	18.486	73.709	34.995	73.691	0.018	34.983	0.012	73.681	0.028	34.962	0.033	2600	32.9
2800	18.660	75.085	38.710	75.066	0.019	38.694	0.016	75.067	0.018	38.702	0.008	2800	33.2
3000	18.805	76.378	42.457	76.359	0.019	42.441	0.016	76.378	0.000	42.503	-0.046	3000	33.5
3000	18.805	76.378	42.457	76.359	0.019	42.441	0.016	76.378	0.000	42.462	-0.005	3000	33.5
3200	18.926	77.595	46.231	77.577	0.018	46.217	0.014	77.594	0.001	46.232	-0.001	3200	33.8
3400	19.027	78.746	50.026	78.729	0.017	50.018	0.008	78.744	0.002	50.025	0.001	3400	33.9
3600	19.114	79.836	53.841	79.821	0.015	53.838	0.003	79.834	0.002	53.839	0.002	3600	33.9
3800	19.188	80.871	57.671	80.858	0.013	57.674	-0.003	80.869	0.002	57.669	0.002	3800	33.9
4000	19.252	81.857	61.515	81.845	0.012	61.523	-0.008	81.855	0.002	61.513	0.002	4000	33.9
4200	19.307	82.798	65.371	82.786	0.012	65.381	-0.010	82.796	0.002	65.370	0.001	4200	34.1
4400	19.356	83.697	69.238	83.686	0.011	69.248	-0.010	83.696	0.001	69.237	0.001	4400	34.1
4600	19.398	84.559	73.113	84.547	0.012	73.122	-0.009	84.557	0.002	73.113	0.000	4600	34.1
4800	19.436	85.385	76.997	85.372	0.013	77.001	-0.004	85.384	0.001	76.997	0.000	4800	34.1
5000	19.469	86.179	80.887	86.165	0.014	80.886	0.001	86.178	0.001	80.888	-0.001	5000	34.1
5200	19.499	86.943	84.784	86.928	0.015	84.778	0.006	86.942	0.001	84.785	-0.001	5200	34.1

SODIUM BOROHYDRIDE (C) B 1H 4NA 1 1264 BORG
 MOL. WT.= 37.830 BLOCK= 319 NO. POINT = 22 MOI
 DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -45.850 KEY = 59 DATA
 FITS FOR NOTS RMS = 0.002712 FITS
 1 1 5 1 11 0 0 0 0 0 SODIUM BOROHYDRIDE (C) 30J1264 59 1 5
 670166E+0+4.5658660E+1-2.7566009E+1+5.5502319E+0 400 2000 31J1264 59 +9.906
 109741E-1-4.8667800E+1+2.1305755E+1-4.5849990E+1BH4NA(C) 32J1264 59 -1.056

 FITS FOR EST RMS LOW = 0.039521 RMS HIGH = 0.039521 FITS
 1 1 5 1 11 0 0 0 0 0 SODIUM BOROHYDRIDE (C) 30BH4NAS 1 5
 4499+5+822921+5+335704+2-419352-3-256364+7+898212+2 4002000J126431BH4NAS -59969
 4499+5+822921+5+335704+2-419352-3-256364+7+898212+2 4002000J126432BH4NAS -59969

/M	-----NOTS-----								-----EST-----				T
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		
631	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M	K	
150													
186	22.600	30.583	2.206	30.587	-0.004	2.206	-0.000	31.139	-0.556	2.417	-0.211	400	
082	24.330	35.814	4.553	35.806	0.008	4.549	0.004	35.704	0.110	4.473	0.080	600	
010	25.960	40.395	7.069	40.394	0.001	7.068	0.001	40.216	0.179	6.953	0.116	800	
058	27.550	44.517	9.745	44.519	-0.002	9.745	-0.000	44.405	0.112	9.672	0.073	1000	
066	28.740	48.276	12.561	48.274	0.002	12.559	0.002	48.232	0.044	12.540	0.021	1200	
047	29.700	51.720	15.486	51.718	0.002	15.484	0.002	51.724	-0.004	15.505	-0.019	1400	
014	30.460	54.889	18.494	54.891	-0.002	18.496	-0.002	54.918	-0.029	18.538	-0.044	1600	
018	31.080	57.821	21.571	57.825	-0.004	21.575	-0.004	57.854	-0.033	21.618	-0.047	1800	
037	31.490	60.544	24.700	60.545	-0.001	24.702	-0.002	60.563	-0.019	24.732	-0.032	2000	
037	31.710	63.074	27.862	63.073	0.001	27.860	0.002	63.077	-0.003	27.873	-0.011	2200	
009	31.820	65.429	31.039	65.428	0.001	31.037	0.002	65.418	0.011	31.032	0.007	2400	
051	31.860	67.626	34.224	67.626	-0.000	34.224	-0.000	67.608	0.018	34.206	0.018	2600	
008	31.890	69.683	37.411	69.685	-0.002	37.413	-0.003	69.664	0.019	37.392	0.019	2800	
002	31.910	71.617	40.601	71.618	-0.001	40.603	-0.002	71.600	0.017	40.585	0.016	3000	
002	31.920	73.441	43.793	73.441	0.000	43.791	0.002	73.429	0.012	43.785	0.008	3200	
004	31.950	75.167	46.986	75.166	0.001	46.983	0.003	75.162	0.005	46.990	-0.004	3400	
004	32.000	76.807	50.183	76.808	-0.001	50.185	-0.002	76.807	0.000	50.197	-0.014		
003													
003													
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BORON NITRIDE (C) B 1N 1 0 0 0 0 666
 MOL. WT.= 24.810 BLOCK= 321 NO. POINT = 37
 DATA FROM 0 TO 3500 K HPORN(KCAL/(MOLE)) = -59.970 KEY = 60
 FITS FOR NOTS RMS = 0.018372
 1 5 1 7 0 0 0 0 0 0 BORON NITRIDE (C) 30J 666 60
 +9.9069881E+0+3.0845165E+0-1.4181404E+0+1.9969654E-1 400 3500 31J 666 60
 -1.0564880E+0-6.6136230E+1+1.0043606E+1-5.9969985E+1BN(C) 32J 666 60

FITS FOR EST RMS LOW = 0.027479 RMS HIGH = 0.027479
 1 5 1 7 0 0 0 0 0 0 BOP^N NITRIDE (C) 30BN\$
 -599699+5+290770+5+124958+2-211357-3-147739+7+256589+2 4003500J 66631BN\$
 -599699+5+290770+5+124958+2-211357-3-147739+7+256589+2 4003500J 66632BN\$

H	-----NOTS-----								-----EST-----							
	T K	CP C/H-K	S C/H-K	H KC/H	SC C/H-K	DS C/H-K	HC KC/H	DH KC/H	SC C/H-K	DS C/H-K	HC KC/H	DH KC/H				
11	400	6.280	5.148	0.563	5.392	-0.244	0.656	-0.093	5.565	-0.417	0.723	-0.160				
80	600	8.420	8.138	2.052	8.060	0.078	1.998	0.054	8.025	0.113	1.970	0.082				
16	800	9.670	10.742	3.868	10.706	0.036	3.845	0.023	10.680	0.062	3.824	0.044				
73	1000	10.600	13.006	5.901	13.014	-0.008	5.917	-0.016	13.010	-0.004	5.916	-0.015				
21	1200	11.200	14.997	8.087	15.012	-0.015	8.110	-0.023	15.021	-0.024	8.122	-0.035				
19	1400	11.540	16.752	10.365	16.758	-0.006	10.376	-0.011	16.768	-0.016	10.391	-0.026				
44	1600	11.690	18.305	12.691	18.299	0.006	12.684	0.007	18.306	-0.001	12.694	-0.003				
47	1800	11.700	19.683	15.030	19.673	0.010	15.017	0.013	19.675	0.008	15.019	0.011				
32	2000	11.700	20.915	17.370	20.908	0.007	17.362	0.008	20.906	0.009	17.356	0.014				
11	2200	11.700	22.031	19.710	22.027	0.004	19.710	0.000	22.023	0.008	19.699	0.011				
07	2400	11.700	23.049	22.050	23.047	0.002	22.056	-0.006	23.044	0.005	22.045	0.005				
18	2600	11.700	23.985	24.390	23.984	0.001	24.397	-0.007	23.983	0.002	24.391	-0.001				
19	2800	11.700	24.852	26.730	24.850	0.002	26.734	-0.004	24.851	0.001	26.736	-0.006				
16	3000	11.700	25.659	29.070	25.655	0.004	29.068	0.002	25.659	0.000	29.077	-0.007				
08	3200	11.700	26.414	31.410	26.409	0.005	31.404	0.006	26.413	0.001	31.414	-0.004				
04	3400	11.700	27.124	33.750	27.120	0.004	33.749	0.001	27.120	0.004	33.747	0.003				
14																

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BORON NITRIDE (G) B 1N 1 0 0 0 0 666
 MOL. WT.= 24.810 BLOCK= 325 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 114.000 KEY = 61
 FITS FOR NOTS RMS = 0.004421
 1 5 1 7 0 0 0 0 0 0 BORON NITRIDE (G) 10J 666 61
 8.1013031E+0+5.7911801E-1-5.9631038E-2+2.3671025E-3 400 6000 11J 666 61
 -2.2979736E-1+1.1086895E+2+5.9316436E+1+1.1400000E+2BN(G) 12J 666 61

FITS FOR EST RMS LOW = 0.003893 RMS HIGH = 0.003155
 1 5 1 7 0 0 0 0 0 0 BORON NITRIDE (G) 10BN
 114000+6+233657+5+839472+1+329884-3-313280+6+697189+2 4003000J 66611BN
 114000+6+233677+5+944165+1+100375-3-380924+7+697189+230006000J 66612BN

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 -1.60

FIT
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 -2331
 -2331

-----NOTS-----

-----EST-----

T K	CP C/H-K	S C/H-K	H KC/H	SC C/H-K	DS C/H-K	HC KC/H	DH KC/H	SC C/H-K	DS C/H-K	HC KC/H	DH KC/H	T K
400	7.237	52.822	0.726	52.838	-0.016	0.729	-0.003	52.908	-0.086	0.760	-0.034	400
500	7.735	55.851	2.224	55.834	0.017	2.213	0.011	55.834	0.017	2.211	0.013	500
600	8.126	58.133	3.812	58.133	0.000	3.813	-0.001	58.125	0.008	3.806	0.006	600
700	8.390	59.976	5.466	59.981	-0.005	5.470	-0.004	59.976	0.000	5.466	0.000	700
800	8.570	61.523	7.163	61.527	-0.004	7.166	-0.003	61.525	-0.002	7.165	-0.002	800
900	8.701	62.854	8.890	62.855	-0.001	8.890	-0.000	62.856	-0.002	8.892	-0.002	900
1000	8.805	64.023	10.641	64.022	0.001	10.638	0.003	64.024	-0.001	10.642	-0.001	1000
1100	8.895	65.066	12.411	65.064	0.002	12.407	0.004	65.066	0.000	12.412	-0.001	1100
1200	8.978	66.007	14.199	66.006	0.001	14.195	0.004	66.007	-0.000	14.199	0.000	1200
1300	9.057	66.867	16.002	66.866	0.001	16.000	0.002	66.866	0.001	16.002	0.000	1300
1400	9.133	67.658	17.821	67.658	0.000	17.821	0.000	67.658	0.000	17.821	0.000	1400
1500	9.205	68.392	19.655	68.392	-0.000	19.656	-0.001	68.391	0.001	19.654	0.001	1500
1600	9.274	69.077	21.503	69.077	-0.000	21.505	-0.002	69.076	0.001	21.503	0.000	1600
1700	9.339	69.719	23.365	69.720	-0.001	23.367	-0.002	69.719	0.000	23.366	-0.001	1700
1800	9.339	69.719	23.365	69.720	-0.001	23.367	-0.002	69.719	0.000	23.368	-0.003	1800
1900	9.400	70.323	25.239	70.324	-0.001	25.241	-0.002	70.323	0.000	25.239	0.000	1900
2000	9.457	70.895	27.124	70.896	-0.001	27.126	-0.002	70.894	0.001	27.124	0.000	2000
2100	9.510	71.437	29.021	71.438	-0.001	29.022	-0.001	71.436	0.001	29.020	0.001	
2200	9.559	71.952	30.928	71.953	-0.001	30.928	-0.000	71.951	0.001	30.927	0.001	
2300	9.604	72.444	32.844	72.444	-0.000	32.844	0.000	72.443	0.001	32.843	0.001	
2400	9.646	72.914	34.769	72.914	0.000	34.768	0.001	72.913	0.001	34.769	0.000	
2500	9.685	73.363	36.702	73.363	-0.000	36.701	0.001	73.362	0.001	36.702	-0.000	
2600	9.722	73.795	38.643	73.795	0.000	38.642	0.001	73.794	0.001	38.643	-0.000	
2700	9.757	74.209	40.591	74.209	-0.000	40.590	0.001	74.208	0.001	40.591	-0.000	
2800	9.790	74.608	42.546	74.608	-0.000	42.546	0.000	74.607	0.001	42.546	-0.000	
2900	9.822	74.993	44.507	74.993	-0.000	44.507	-0.000	74.992	0.001	44.508	-0.001	
3000	9.853	75.364	46.475	75.364	-0.000	46.475	-0.000	75.363	0.001	46.475	-0.000	
3100	9.884	75.723	48.448	75.723	-0.000	48.449	-0.001	75.722	0.001	48.449	-0.001	
3200	9.913	76.070	50.428	76.071	-0.001	50.428	-0.000	76.069	0.001	50.428	-0.000	
3300	9.942	76.407	52.414	76.407	0.000	52.413	0.001	76.406	0.001	52.413	0.001	

SODIUM METABORATE

(C)

B 1NA 10 2 0 0 0

671

MOL. WT.= 65.800 BLOCK= 332 NO. POINT = 22

DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -233.200 KEY = 62

FITS FOR NOTS RMS = 0.005429

1 5 2 8 1 11 0 0 0 0 0 SODIUM METABORATE (C) 30J 671 62
 +9.9757537E+0+2.8560638E+1-1.7507110E+1+3.7654533E+0 400 2000 31J 671 62
 -1.6011047E-1-2.3779594E+2+2.1088699E+1-2.3319999E+2BNAO2(C) 32J 671 62

FITS FOR EST RMS LOW = 0.017093 RMS HIGH = 0.017093

1 5 2 8 1 11 0 0 0 0 0 SODIUM METABORATE (C) 30BNAO2S
 -233199+6+685673+5+250992+2+112207-2-159761+7+713579+2 4002000J 67131BNAO2S
 -233199+6+685673+5+250992+2+112207-2-159761+7+713579+2 4002000J 67132BNAO2S

-----NOTS-----

-----EST-----

T K	CP		S C/H-K	H KC/H	DS		HC KC/H	DH KC/H	SC		DS C/H-K	HC KC/H	DH KC/H
	C/H-K	C/H-K			C/H-K	C/H-K			C/H-K	C/H-K			
400	18.020	22.536	1.725	22.552	-0.016	1.730	-0.005	22.772	-0.236	1.811	-0.086		
500	19.770	26.751	3.617	26.743	0.008	3.612	0.005	26.687	0.064	3.573	0.044		
600	21.170	30.483	5.666	30.471	0.012	5.659	0.007	30.399	0.084	5.612	0.054		
700	22.300	33.834	7.841	33.828	0.006	7.838	0.003	33.792	0.042	7.814	0.027		
800	23.240	36.875	10.120	36.877	-0.002	10.122	-0.002	36.874	0.001	10.123	-0.003		
900	24.020	39.659	12.484	39.666	-0.007	12.491	-0.007	39.680	-0.021	12.507	-0.023		
1000	24.670	42.224	14.920	42.231	-0.007	14.926	-0.006	42.250	-0.026	14.946	-0.026		
1100	25.160	44.600	17.412	44.601	-0.001	17.413	-0.001	44.615	-0.015	17.428	-0.016		
1200	25.480	46.805	19.946	46.800	0.005	19.940	0.006	46.806	-0.001	19.946	-0.000		
1300	25.650	48.851	22.503	48.846	0.005	22.497	0.006	48.845	0.006	22.494	0.009		
1400	25.843	50.759	25.077	50.758	0.001	25.077	-0.000	50.752	0.007	25.067	0.010		
1500	26.036	52.548	27.671	52.551	-0.003	27.675	-0.004	52.544	0.004	27.664	0.007		
1600	26.229	54.235	30.284	54.238	-0.003	30.289	-0.005	54.233	0.002	30.281	0.003		
1700	26.422	55.831	32.917	55.832	-0.001	32.919	-0.002	55.831	0.000	32.918	-0.001		
1800	26.615	57.346	35.569	57.345	0.001	35.566	0.003	57.348	-0.002	35.572	-0.003		
1900	26.807	58.790	38.240	58.788	0.002	38.235	0.005	58.792	-0.002	38.243	-0.003		
2000	27.000	60.172	40.933	60.172	-0.002	40.933	-0.003	60.170	0.000	40.929	0.001		

BOBON
MOL.
DATA F
FITS F
1 5 1
+8.18984
-4.25613

PITS P
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+000000+

[illegible]

BORON MONOXIDE (G) B 10 1 0 0 0 0 668
 MOL. WT.= 26.810 BLOCK= 336 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 0.000 KEY = 64
 FITS FOR NOTS RMS = 0.010444
 1 5 1 8 0 0 0 0 0 0 BORON MONOXIDE (G) 10J 668 64
 +8.1898403E+0+5.2389669E-1-1.2369626E-1+1.2814629E-2 400 6000 11J 668 64
 -4.2561340E-1-3.5724029E+0+5.6866302E+1+0.0000000E+0BO(G) 12J 668 64

FITS FOR EST RMS LOW = 0.013177 RMS HIGH = 0.007705
 1 5 1 8 0 0 0 0 0 0 BORON MONOXIDE (G) 10BO
 +000000+0+226509+5+845134+1+196179-3-461312+6+670209+2 4003000J 66811BO
 +000000+0+226420+5+748743+1+328449-3+461059+7+670209+230006000J 66812BO

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	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
46	400	7.068	50.665	0.715	50.892	-0.227	0.807	-0.092	50.898	-0.233	0.810	-0.095
50	600	7.427	53.594	2.162	53.567	0.027	2.137	0.025	53.563	0.031	2.135	0.027
19	800	7.810	55.785	3.687	55.753	0.032	3.659	0.028	55.754	0.031	3.661	0.026
42	1000	8.108	57.561	5.280	57.545	0.016	5.267	0.013	57.549	0.012	5.271	0.009
71	1200	8.324	59.060	6.924	59.054	0.006	6.923	0.001	59.059	0.001	6.928	-0.004
36	1400	8.480	60.355	8.606	60.354	0.001	8.610	-0.004	60.358	-0.003	8.614	-0.008
44	1600	8.595	61.495	10.314	61.496	-0.001	10.320	-0.006	61.498	-0.003	10.322	-0.008
01	1800	8.682	62.513	12.042	62.513	-0.000	12.048	-0.006	62.514	-0.001	12.047	-0.005
77	2000	8.749	63.431	13.785	63.431	0.000	13.789	-0.004	63.430	0.001	13.786	-0.001
09	2200	8.803	64.268	15.540	64.266	0.002	15.543	-0.003	64.265	0.003	15.538	0.002
10	2400	8.847	65.036	17.305	65.033	0.003	17.306	-0.001	65.032	0.004	17.301	0.004
91	2600	8.884	65.745	19.079	65.742	0.003	19.077	0.002	65.742	0.003	19.074	0.005
63	2800	8.917	66.405	20.859	66.402	0.003	20.857	0.002	66.402	0.003	20.858	0.001
30	3000	8.947	67.021	22.645	67.018	0.003	22.643	0.002	67.021	0.000	22.651	-0.006
01	3000	8.947	67.021	22.645	67.018	0.003	22.643	0.002	67.021	0.000	22.642	0.003
28	3200	8.976	67.599	24.438	67.596	0.003	24.435	0.003	67.601	-0.002	24.439	-0.001
46	3400	9.004	68.144	26.236	68.141	0.003	26.234	0.002	68.146	-0.002	26.238	-0.002
54	3600	9.032	68.660	28.039	68.657	0.003	28.038	0.001	68.661	-0.001	28.041	-0.002
49	3800	9.063	69.149	29.849	69.147	0.002	29.849	-0.000	69.150	-0.001	29.849	0.000
29	4000	9.096	69.615	31.664	69.613	0.002	31.666	-0.002	69.615	-0.001	31.663	0.001
07	4200	9.131	70.059	33.487	70.057	0.002	33.489	-0.002	70.060	-0.001	33.485	0.002
61	4400	9.170	70.485	35.317	70.483	0.002	35.319	-0.002	70.485	-0.001	35.315	0.002
	4600	9.212	70.894	37.155	70.891	0.003	37.157	-0.002	70.894	-0.000	37.154	0.001
	4800	9.258	71.287	39.002	71.284	0.003	39.003	-0.001	71.287	-0.000	39.001	0.001
	5000	9.308	71.666	40.859	71.663	0.003	40.859	0.000	71.667	-0.001	40.859	-0.000
	5200	9.361	72.032	42.726	72.029	0.003	42.724	0.002	72.033	-0.001	42.727	-0.001
	5400	9.418	72.386	44.604	72.383	0.003	44.601	0.003	72.387	-0.001	44.606	-0.002
	5600	9.478	72.730	46.493	72.727	0.003	46.491	0.002	72.731	-0.001	46.495	-0.002
	5800	9.541	73.063	48.395	73.061	0.002	48.395	0.000	73.064	-0.001	48.395	-0.000
	6000	9.606	73.388	50.310	73.386	0.002	50.313	-0.003	73.388	-0.000	50.307	0.003

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68602

TS FC
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899+1

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[illegible]

BORON DICHLORIDE, DIMERIC (G) B 2CL 4
 MOL. WT.= 163.430 BLOCK= 355 NO. POINT = 61
 DATA FROM 100 TO 6000 K HFORM(KCAL/(MOLE)) = -116.900 KEY = 67
 TS FOR NOTS RMS = 0.007535
 5 4 17 0 0 0 0 0 0 BORON DICHLORIDE, DIMERIC (G) 10J1264 67
 397521E+1+2.5742030E-1-5.8334056E-2+4.4813528E-3 400 6000 11J1264 67
 686035E+0-1.2924794E+2+1.1736537E-2-1.1689999E+2B2CL4 (G) 12J1264 67

1264

DIB
 MO
 DATA
 FITS
 6 1
 +3.350
 -4.991

TS FOR EST RMS LOW = 0.009579 RMS HIGH = 0.009264
 5 4 17 0 0 0 0 0 0 BORON DICHLORIDE, DIMERIC (G) 10B2CL4
 6899+6+799272+5+305535+2+791383-4-109582+7+151370+3 4003000J126411B2CL4
 6899+6+799313+5+309930+2-272513-4-267699+7+151370+330006000J126412B2CL4

FITS
 6 1
 +97999
 +97999

-----NOTS-----

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H C/M	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	T K
.025	25.048	92.780	2.437	92.950	-0.170	2.502	-0.065	92.966	-0.186	2.513	-0.076	400 1
.007	27.649	103.493	7.739	103.466	0.027	7.714	0.025	103.468	0.025	7.718	0.021	600 2
.005	28.870	111.628	13.400	111.605	0.023	13.379	0.021	111.608	0.020	13.383	0.017	800 2
.001	29.511	118.143	19.242	118.129	0.014	19.229	0.013	118.133	0.010	19.234	0.008	1000 3
.001	29.840	123.554	25.178	123.548	0.006	25.174	0.004	123.552	0.002	25.180	-0.002	1200 3
.002	30.099	128.174	31.173	128.173	0.001	31.175	-0.002	128.177	-0.003	31.180	-0.007	1400 3
.002	30.263	132.205	37.212	132.204	0.001	37.213	-0.001	132.207	-0.002	37.217	-0.005	1600 3
.001	30.370	135.775	43.275	135.775	-0.000	43.277	-0.002	135.777	-0.002	43.279	-0.004	1800 3
.000	30.460	138.979	49.359	138.979	-0.000	49.359	0.000	138.980	-0.001	49.358	0.001	2000 4
.000	30.508	141.885	55.455	141.884	0.001	55.454	0.001	141.884	0.001	55.453	0.002	2200 4
.001	30.551	144.542	61.561	144.541	0.001	61.561	-0.000	144.540	0.002	61.558	0.003	2400 4
.001	30.589	146.989	67.676	146.988	0.001	67.676	-0.000	146.987	0.002	67.673	0.003	2600 4
.000	30.622	149.257	73.797	149.256	0.001	73.798	-0.001	149.256	0.001	73.797	0.000	2800 4
.001	30.650	151.371	79.924	151.370	0.001	79.925	-0.001	151.371	0.000	79.927	-0.003	3000 4
.002	30.650	151.371	79.924	151.370	0.001	79.925	-0.001	151.371	0.000	79.931	-0.007	3000 4
.000	30.666	153.349	86.056	153.348	0.001	86.056	-0.000	153.348	0.001	86.057	-0.001	3200 4
.001	30.680	155.209	92.190	155.208	0.001	92.191	-0.001	155.206	0.003	92.189	0.001	3400 4
.001	30.693	156.963	98.328	156.962	0.001	98.329	-0.001	156.960	0.003	98.324	0.004	3600 4
.001	30.705	158.623	104.467	158.622	0.001	104.469	-0.002	158.620	0.003	104.464	0.003	3800 4
.001	30.715	160.199	110.609	160.197	0.002	110.611	-0.002	160.195	0.004	110.606	0.003	4000 4
.001	30.722	161.697	116.753	161.696	0.001	116.754	-0.001	161.694	0.003	116.750	0.003	4200 4
.001	30.729	163.126	122.898	163.125	0.001	122.899	-0.001	163.123	0.003	122.896	0.001	4400 4
.000	30.736	164.493	129.045	164.491	0.002	129.045	-0.000	164.490	0.003	129.044	0.001	4600 4
.001	30.742	165.801	135.152	165.799	0.002	135.193	-0.001	165.798	0.003	135.193	-0.001	4800 4
.001	30.747	167.056	141.341	167.054	0.002	141.341	0.000	167.053	0.003	141.342	-0.001	5000 4
.000	30.752	168.262	147.491	168.260	0.002	147.490	0.001	168.259	0.003	147.493	-0.002	5200 4
.000	30.756	169.423	153.642	169.421	0.002	153.640	0.002	169.420	0.003	153.643	-0.001	5400 4
.000	30.760	170.541	159.794	170.539	0.002	159.792	0.002	170.538	0.002	159.794	-0.000	5600 4
.000	30.763	171.620	165.946	171.619	0.001	165.946	0.000	171.618	0.002	165.945	0.001	5800 4
.000	30.766	172.663	172.099	172.662	0.001	172.101	-0.002	172.660	0.003	172.096	0.003	6000 4

DIBORANE

(G) B 2H 6

1264

MOL. WT. = 27.670 BLOCK = 361 NO. POINT = 62

DATA FROM .0 TO 6000 K HFORM(KCAL/(MOLE)) = 9.800 KEY = 68

FITS FOR NOTS RMS = 0.094511

6 1 2 5 0 0 0 0 0 0 0 DIBORANE (G) 10J1264 68
 +3.3509338E+1+5.9662723E+0-1.2568893E+0+9.0417921E-2 400 6000 11J1264 68
 -4.9919433E+0-1.4021244E+1+7.5357864E+1+9.7999992E+0B2H6(G) 12J1264 68

FITS FOR EST RMS LOW = 0.154491 RMS HIGH = 0.012744

6 1 2 5 0 0 0 0 0 0 0 DIBORANE (G) 10B2H6
 +979999+4+958394+5+372762+2+196169-2-573855+7+125539+3 4003000J126411B2H6
 +979999+4+957756+5+439011+2-295223-4-170956+8+125539+330006000J126412B2H6

-----NOTS-----												
-----EST-----												
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.076	400	17.747	60.335	1.613	62.541	-2.206	2.513	-0.900	62.946	-2.611	2.684	-1.071
0.021	600	24.219	68.811	5.838	68.534	0.277	5.591	0.247	68.490	0.321	5.553	0.285
0.017	800	29.077	76.480	11.192	76.167	0.313	10.930	0.262	76.119	0.361	10.892	0.300
0.008	1000	32.600	83.368	17.379	83.222	0.146	17.267	0.112	83.215	0.153	17.266	0.113
-0.002	1200	35.123	89.547	24.165	89.507	0.040	24.168	-0.003	89.527	0.020	24.196	-0.031
-0.007	1400	36.941	95.106	31.382	95.110	-0.004	31.442	-0.060	95.137	-0.031	31.478	-0.096
-0.005	1600	38.271	100.130	38.909	100.143	-0.013	38.982	-0.074	100.163	-0.033	39.010	-0.101
-0.004	1800	39.262	104.697	46.667	104.703	-0.006	46.728	-0.061	104.711	-0.014	46.733	-0.066
0.001	2000	40.016	108.875	54.599	108.869	0.006	54.636	-0.037	108.863	0.012	54.615	-0.016
0.002	2200	40.599	112.717	62.662	112.699	0.018	62.675	-0.013	112.683	0.034	62.634	0.028
0.003	2400	41.058	116.270	70.830	116.243	0.027	70.822	0.008	116.224	0.046	70.774	0.056
0.003	2600	41.425	119.572	79.079	119.539	0.033	79.058	0.021	119.527	0.045	79.026	0.053
0.000	2800	41.722	122.653	87.395	122.618	0.035	87.368	0.027	122.623	0.030	87.383	0.012
-0.003	3000	41.966	125.540	95.765	125.505	0.035	95.738	0.027	125.540	0.000	95.839	-0.074
-0.007	3000	41.966	125.540	95.765	125.505	0.035	95.738	0.027	125.540	0.000	95.776	-0.011
-0.001	3200	42.169	128.255	104.179	128.222	0.033	104.158	0.021	128.252	0.003	104.181	-0.002
0.001	3400	42.338	130.817	112.630	130.787	0.030	112.618	0.012	130.813	0.004	112.628	0.007
0.004	3600	42.482	133.241	121.112	133.214	0.027	121.110	0.002	133.236	0.005	121.108	0.004
0.003	3800	42.605	135.541	129.621	135.517	0.024	129.628	-0.007	135.536	0.005	129.616	0.005
0.003	4000	42.710	137.729	138.153	137.707	0.022	138.167	-0.014	137.725	0.004	138.149	0.004
0.003	4200	42.802	139.815	146.705	139.794	0.021	146.723	-0.018	139.811	0.004	146.701	0.004
0.001	4400	42.881	141.808	155.273	141.787	0.021	155.291	-0.018	141.804	0.004	155.271	0.002
0.001	4600	42.951	143.716	163.856	143.693	0.022	163.871	-0.015	143.712	0.004	163.856	0.000
-0.001	4800	43.012	145.545	172.453	145.521	0.024	172.460	-0.007	145.542	0.003	172.453	-0.001
-0.001	5000	43.067	147.302	181.061	147.277	0.025	181.060	0.001	147.299	0.003	181.062	-0.001
-0.002	5200	43.115	148.992	189.679	148.965	0.027	189.669	0.010	148.989	0.003	189.681	-0.002
-0.001	5400	43.158	150.620	198.306	150.592	0.028	198.291	0.015	150.617	0.003	198.308	-0.002
-0.000	5600	43.197	152.191	206.942	152.162	0.029	206.927	0.015	152.187	0.004	206.943	-0.001
0.001	5800	43.232	153.707	215.585	153.681	0.026	215.582	0.003	153.703	0.004	215.584	0.001
0.003	6000	43.264	155.173	224.235	155.152	0.021	224.259	-0.024	155.169	0.004	224.231	0.004

BORON MONOXIDE, DIMERIC (G) B 20 2
 MOL. WT.= 53.620 BLOCK= 368 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -109.000 KEY = 69
 ITS FOR NOTS RMS = 0.019164
 5 2 8 0 0 0 0 0 0 0 BORON MONOXIDE, DIMERIC (G) 10J1264 69
 9057556E+1+1.0757741E+C-2.2980576E-1+1.6720339E-2 400 6000 11J1264 69
 1594696E+0-1.1794853E+2+7.6072586E+1-1.0900000E+2B2O2 (G) 12J1264 69

1264

BORON
 MOI
 DATA
 FITS
 2 5
 +1.3070
 -5.1550

ITS FOR EST RMS LOW = 0.030426 RMS HIGH = 0.006318
 5 2 8 0 0 0 0 0 0 0 BORON MONOXIDE, DIMERIC (G) 10B2O2
 9000+6+517403+5+197294+2+351021-3-128876+7+594239+2 4003000J126411B2O2
 9000+6+517310+5+209860+2-178837-4-377318+7+994239+230006000J126412B2O2

FITS
 2 5
 -304000
 -304000

-----NOTS-----

-----EST-----

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
1	0	15.027	62.184	1.468	62.646	-0.462	1.654	-0.186	62.714	-0.530	1.685	-0.217	400 1
5	0	16.688	68.615	4.651	68.553	0.062	4.596	0.055	68.547	0.068	4.592	0.059	500 2
0	0	17.824	73.581	8.109	73.516	0.065	8.054	0.055	73.510	0.071	8.050	0.059	600 2
3	0	18.613	77.649	11.758	77.619	0.030	11.734	0.024	77.620	0.029	11.737	0.021	700 2
1	0	19.157	81.093	15.538	81.085	0.008	15.538	0.000	81.090	0.003	15.545	-0.007	800 2
6	0	19.537	84.077	19.410	84.077	0.000	19.420	-0.010	84.083	-0.006	19.429	-0.019	900 2
1	0	19.808	86.704	23.346	86.706	-0.002	23.359	-0.013	86.711	-0.007	23.365	-0.019	1000 2
6	0	20.007	89.049	27.328	89.050	-0.001	27.339	-0.011	89.052	-0.003	27.341	-0.013	1100 2
8	0	20.157	91.165	31.345	91.164	0.001	31.352	-0.007	91.163	0.002	31.348	-0.003	1200 3
6	0	20.271	93.092	35.389	93.088	0.004	35.391	-0.002	93.086	0.006	35.383	0.006	1300 3
3	0	20.360	94.860	39.452	94.855	0.005	39.451	0.001	94.851	0.009	39.441	0.011	1400 3
2	0	20.431	96.493	43.532	96.486	0.007	43.528	0.004	96.484	0.009	43.522	0.010	1500 3
4	0	20.489	98.009	47.624	98.002	0.007	47.619	0.005	98.003	0.006	47.622	0.002	
1	0	20.535	99.424	51.726	99.417	0.007	51.722	0.004	99.424	0.000	51.740	-0.014	
2	0	20.535	99.424	51.726	99.417	0.007	51.722	0.004	99.424	0.000	51.731	-0.005	
2	0	20.574	100.751	55.837	100.744	0.007	55.834	0.003	100.749	0.002	55.839	-0.002	
4	0	20.606	101.999	59.956	101.993	0.006	59.954	0.002	101.997	0.002	59.955	0.001	
15	0	20.634	103.178	64.080	103.172	0.006	64.080	0.000	103.175	0.003	64.078	0.002	
4	0	20.657	104.294	68.209	104.289	0.005	68.211	-0.002	104.292	0.002	68.206	0.003	
4	0	20.677	105.354	72.342	105.350	0.004	72.345	-0.003	105.352	0.002	72.340	0.002	
12	0	20.694	106.363	76.479	106.359	0.004	76.483	-0.004	106.361	0.002	76.478	0.001	
10	0	20.709	107.326	80.620	107.322	0.004	80.623	-0.003	107.324	0.002	80.619	0.001	
11	0	20.722	108.247	84.763	108.243	0.004	84.765	-0.002	108.245	0.002	84.762	0.000	
11	0	20.734	109.129	88.908	109.124	0.005	88.910	-0.002	109.128	0.001	88.909	-0.001	
12	0	20.744	109.976	93.056	109.971	0.005	93.056	0.000	109.974	0.002	93.057	-0.001	
12	0	20.753	110.790	97.206	110.784	0.006	97.204	0.002	110.788	0.002	97.207	-0.001	
11	0	20.761	111.573	101.357	111.567	0.006	101.354	0.003	111.571	0.002	101.358	-0.001	
11	0	20.769	112.328	105.510	112.322	0.005	105.507	0.003	112.327	0.001	105.511	-0.001	
14	0	20.775	113.057	109.665	113.052	0.005	109.664	0.001	113.055	0.002	109.664	0.001	
10	0	20.781	113.761	113.820	113.757	0.004	113.825	-0.005	113.760	0.001	113.819	0.001	

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BORON OXIDE                                (C)      B 20 3 0 0 0 0      671
MOL. WT.=      69.620      BLOCK= 374      NO. POINT = 17
DATA FROM      0 TO 1500 K      HFORM(KCAL/(MOLE)) = -304.000      KEY = 70
FITS FOR NOTS      RMS =      C.000409
2 5 3 8 0 0 0 0 0 0 0 BORCN CXIDE                                (C)      30J 671 70
+1.3070907E+1+2.6588806E+1-1.3226806E+1+2.9128170E+0      400 1500      31J 671 70
-5.1556396E-1-3.1066137E+2+1.8556106E+1-3.0400000E+2B2O3 (C)      32J 671 70

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PITS FOR EST      RMS LOW =      0.008684 RMS  HIGH =      0.008684
 2  5  3  8  0  0  0  0  0  0  0 BORON OXIDE (C) 30B203$
-304000+6+894976+5+233966+2+677127-2-139094+7+783924+2 4001500J 67131B203$
-304000+6+894976+5+233966+2+677127-2-139094+7+783924+2 4001500J 67132B203$

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-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	18.630	17.830	1.719	17.830	-0.000	1.719	-0.000	17.915	-0.085	1.751	-0.032
500	21.340	22.292	3.724	22.290	0.002	3.723	0.001	22.248	0.044	3.700	0.024
600	23.450	26.377	5.968	26.377	-0.000	5.968	-0.000	26.340	0.037	5.948	0.020
700	25.150	30.124	8.401	30.125	-0.001	8.402	-0.001	30.112	0.012	8.397	0.004
800	26.570	33.578	10.989	33.578	0.000	10.989	-0.000	33.580	-0.002	10.996	-0.007
900	27.770	36.778	13.707	36.778	-0.000	13.707	-0.000	36.785	-0.007	13.718	-0.011
1000	28.830	39.760	16.539	39.760	-0.000	16.539	0.000	39.764	-0.004	16.547	-0.008
1100	29.760	42.552	19.469	42.553	-0.001	19.469	-0.000	42.551	0.001	19.471	-0.002
1200	30.610	45.179	22.488	45.179	-0.000	22.489	-0.001	45.172	0.007	22.484	0.004
1300	31.380	47.660	25.588	47.660	0.000	25.588	-0.000	47.650	0.010	25.581	0.007
1400	32.100	50.012	28.763	50.012	0.000	28.762	0.001	50.004	0.008	28.758	0.005
1500	32.770	52.250	32.007	52.250	-0.000	32.007	-0.000	52.250	0.000	32.013	-0.006

BORON OXIDE (L) B 20 3 0 0 0 0 671
 MOL. WT.= 69.620 BLOCK= 376 NO. POINT = 32
 DATA FROM 0 TO 3000 K HFORM(KCAL/(MOLE)) = -299.560 KEY = 71
 FITS FOR NOTS RMS = C.038875
 2 5 3 8 0 0 0 0 0 0 BORON OXIDE (L) 20J 671 71
 +4.3989135E+1-1.5538291E+1+6.5688314E+0-9.3968629E-1 400 3000 21J 671 71
 -2.8887023E+0-3.2178442E+2+6.0041717E+1-2.9955981E+2B2O3(L) 22J 671 71

FITS FOR EST RMS LOW = 0.072573 RMS HIGH = 0.072573
 2 5 3 8 0 0 0 0 0 0 C BORON OXIDE (L) 20B2O3*
 -299559+6+808661+5+318104+2-280847-3-766192+6+830119+2 4003000J 67121B2O3*
 -299559+6+808661+5+318104+2-280847-3-766192+6+830119+2 4003000J 67122B2O3*

-----NOTS-----								-----EST-----				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
400	18.500	23.662	1.711	23.052	0.610	1.484	0.227	21.999	1.663	1.060	0.651	40
600	31.750	33.066	6.450	33.375	-0.309	6.629	-0.179	33.511	-0.445	6.756	-0.306	60
800	31.000	42.037	12.684	41.994	0.043	12.630	0.054	42.140	-0.103	12.759	-0.076	80
1000	31.000	48.955	18.884	48.919	0.036	18.839	0.045	48.967	-0.012	18.879	0.005	100
1200	31.000	54.607	25.064	54.607	-0.000	25.079	0.005	54.593	0.014	25.052	0.032	120
1400	31.000	59.386	31.284	59.404	-0.018	31.302	-0.018	59.370	0.016	31.250	0.034	140
1600	31.000	63.525	37.484	63.545	-0.020	37.503	-0.019	63.516	0.009	37.459	0.025	160
1800	31.000	67.176	43.684	67.190	-0.014	43.692	-0.008	67.175	0.001	43.673	0.011	180
2000	31.000	70.443	49.884	70.449	-0.006	49.880	0.004	70.448	-0.005	49.885	-0.002	200
2200	31.000	73.397	56.064	73.401	-0.004	56.074	0.010	73.407	-0.010	56.095	-0.011	220
2400	31.000	76.094	62.284	76.100	-0.006	62.278	0.006	76.106	-0.012	62.299	-0.015	240
2600	31.000	78.576	68.484	78.585	-0.009	68.488	-0.004	78.586	-0.010	68.496	-0.012	260
2800	31.000	80.873	74.684	80.885	-0.012	74.693	-0.009	80.880	-0.007	74.685	-0.001	280
3000	31.000	83.012	80.884	83.017	-0.005	80.874	0.010	83.012	0.000	80.866	0.018	300

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-----NOTS-----

EST

3

BORON OXYCHLORIDE, TRIMERIC (G) B 3CL 30 3
 MOL. WT.= 186.790 BLOCK= 385 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -390.000 KEY = 73
 FITS FOR NOTS RMS = 0.018149
 5 3 8 3 17 0 0 0 0 0 BORON OXYCHLORIDE, TRIMERIC (G) 10J 365 73
 569534E+1+6.8984770E-1-1.5256816E-1+1.1421266E-2 400 6000 11J 365 73
 673828E+0-4.1224926E+2+1.3801551E+2-3.9000000E+2B3CL303(G) 12J 365 73

365

BOR
 NO
 DATA
 FITS
 3 5
 +4.749
 -3.406

FITS FOR EST RMS LOW = 0.025764 RMS HIGH = 0.014883
 5 3 8 3 17 0 0 0 0 0 BORON OXYCHLORIDE, TRIMERIC (G) 10B3CL303
 000+6+126288+6+489767+2+224775-3-263700+7+193007+3 4003000J 36511B3CL303
 000+6+126290+6+500324+2-513234-4-584985+7+193007+330006000J 36512B3CL303

FITS
 3 5
 -56529
 -56527

-----NOTS-----

-----EST-----

DB	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
KC/M	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
0.273	36.260	101.318	3.461	101.799	-0.481	3.649	-0.188	101.834	-0.516	3.669	-0.208	400 3
0.075	41.975	117.236	11.351	117.158	0.078	11.285	0.066	117.160	0.076	11.289	0.062	600 3
0.074	44.854	129.750	20.065	129.688	0.062	20.011	0.054	129.692	0.058	20.017	0.048	800 4
0.026	46.421	139.943	29.207	139.917	0.026	29.185	0.022	139.924	0.019	29.194	0.013	1000 4
0.008	47.347	148.496	38.591	148.487	0.009	38.588	0.003	148.496	0.000	38.599	-0.008	1200 4
0.024	47.934	155.842	48.124	155.839	0.003	48.129	-0.005	155.847	-0.005	48.139	-0.015	1400 4
0.024	48.327	162.270	57.752	162.269	0.001	57.760	-0.008	162.275	-0.005	57.766	-0.014	1600 4
0.015	48.602	167.978	67.447	167.977	0.001	67.453	-0.006	167.980	-0.002	67.455	-0.008	1800 4
0.004	48.802	173.110	77.188	173.107	0.003	77.192	-0.004	173.108	0.002	77.189	-0.001	2000 4
0.007	48.951	177.769	86.964	177.765	0.004	86.965	-0.001	177.764	0.005	86.959	0.005	2200 4
0.014	49.065	182.033	96.766	182.028	0.005	96.766	0.000	182.027	0.006	96.758	0.008	2400 4
0.012	49.155	185.964	106.588	185.959	0.005	106.587	0.001	185.958	0.006	106.581	0.007	2600 4
0.003	49.227	189.610	116.427	189.604	0.006	116.426	0.001	189.606	0.004	116.425	0.002	2800 4
0.018	49.285	193.008	126.278	193.003	0.005	126.278	0.000	193.008	0.000	126.288	-0.010	3000 4
0.006	49.285	193.008	126.278	193.003	0.005	126.278	0.000	193.008	0.000	126.290	-0.012	3000 4
0.001	49.332	196.190	136.140	196.186	0.004	136.140	-0.000	196.187	0.003	136.143	-0.003	3200 4
0.002	49.372	199.182	146.011	199.178	0.004	146.012	-0.001	199.178	0.004	146.008	0.003	3400 4
0.003	49.405	202.005	155.888	202.001	0.004	155.891	-0.003	202.000	0.005	155.883	0.005	3600 4
0.003	49.433	204.677	165.772	204.673	0.003	165.776	-0.004	204.672	0.005	165.766	0.006	3800 4
0.002	49.457	207.213	175.661	207.210	0.003	175.666	-0.005	207.208	0.005	175.656	0.005	4000 4
0.003	49.478	209.627	185.555	209.623	0.004	185.559	-0.004	209.622	0.005	185.551	0.004	4200 4
0.001	49.496	211.929	195.452	211.925	0.004	195.456	-0.004	211.924	0.005	195.450	0.002	4400 4
0.001	49.512	214.129	205.353	214.126	0.003	205.356	-0.003	214.125	0.004	205.352	0.001	4600 4
0.000	49.525	216.237	215.257	216.233	0.004	215.258	-0.001	216.233	0.004	215.257	-0.000	4800 4
0.001	49.538	218.259	225.163	218.255	0.004	225.163	0.000	218.255	0.004	225.165	-0.002	5000 4
0.001	49.548	220.202	235.072	220.197	0.005	235.070	0.002	220.198	0.004	235.074	-0.002	5200 4
0.001	49.558	222.072	244.982	222.067	0.005	244.979	0.003	222.069	0.003	244.984	-0.002	5400 4
0.000	49.567	223.875	254.895	223.870	0.005	254.892	0.003	223.871	0.004	254.896	-0.001	5600 4
0.001	49.574	225.614	264.809	225.610	0.004	264.808	0.001	225.610	0.004	264.808	0.001	5800 4
0.002	49.581	227.295	274.724	227.291	0.004	274.728	-0.004	227.290	0.005	274.720	0.004	6000 4

BORON OXYFLUORIDE, TRIMERIC (G) B 3F 30 3

365

MOL. WT.= 137.420 BLOCK= 392 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -565.300 KEY = 74

FITS FOR NOTS RMS = 0.030607

3 5 3 8 3 9 0 0 0 0 0 BORON OXYFLUORIDE, TRIMERIC (G) 10J 365 74
 +4.7497070E+1+1.3393573E+0-2.9253834E-1+2.1642848E-2 400 6000 11J 365 74
 -3.4062500E+0-5.8952856E+2+1.2380926E+2-5.6529980E+2B3F303(G) 12J 365 74

FITS FOR EST RMS LOW = 0.046742 RMS HIGH = 0.014697

3 5 3 8 3 9 0 0 0 0 0 BORON OXYFLUORIDE, TRIMERIC (G) 10B3F303
 -565299+6+123254+6+483195+2+431735-3-355960+7+179085+3 4003000J 36511B3F303
 -565299+6+123246+6+500166+2-492795-4-758016+7+179085+330006000J 36512B3F303

-----NOTS-----

-----EST-----

TH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
1.208	400	32.456	90.626	3.063	91.446	-0.820	3.387	-0.324	91.530	-0.904	3.428	-0.365
1.062	600	39.066	105.161	10.277	105.030	0.131	10.167	0.110	105.029	0.132	10.168	0.109
1.048	800	42.783	116.959	18.497	116.853	0.106	18.408	0.089	116.853	0.106	18.409	0.088
1.013	1000	44.927	126.757	27.287	126.713	0.044	27.252	0.035	126.720	0.037	27.261	0.026
1.008	1200	46.237	135.073	36.413	135.061	0.012	36.413	-0.000	135.072	0.001	36.427	-0.014
1.015	1400	47.083	142.268	45.751	142.268	0.000	45.766	-0.015	142.279	-0.011	45.779	-0.028
1.014	1600	47.657	148.595	55.228	148.596	-0.001	55.246	-0.018	148.605	-0.010	55.255	-0.027
1.008	1800	48.062	154.233	64.802	154.232	0.001	64.816	-0.014	154.237	-0.004	64.818	-0.016
1.001	2000	48.358	159.313	74.446	159.309	0.004	74.454	-0.008	159.310	0.003	74.449	-0.003
1.005	2200	48.581	163.933	84.141	163.926	0.007	84.143	-0.002	163.924	0.009	84.132	0.009
1.008	2400	48.752	168.168	93.875	168.159	0.009	93.872	0.003	168.156	0.012	93.860	0.015
1.007	2600	48.886	172.075	103.639	172.066	0.009	103.634	0.005	172.064	0.011	103.625	0.014
1.002	2800	48.994	175.702	113.427	175.692	0.010	113.422	0.005	175.695	0.007	113.425	0.002
1.010	3000	49.081	179.086	123.235	179.076	0.010	123.230	0.005	179.086	0.000	123.254	-0.019
1.012	3000	49.081	179.086	123.235	179.076	0.010	123.230	0.005	179.086	0.000	123.247	-0.012
1.003	3200	49.153	182.256	133.059	182.246	0.010	133.056	0.003	182.253	0.003	133.062	-0.003
1.003	3400	49.212	185.237	142.895	185.229	0.008	142.895	0.000	185.233	0.004	142.893	0.002
1.005	3600	49.262	188.052	152.743	188.044	0.008	152.745	-0.002	188.047	0.005	152.738	0.005
1.006	3800	49.305	190.716	162.600	190.709	0.007	162.604	-0.004	190.711	0.005	162.594	0.006
1.005	4000	49.341	193.246	172.465	193.239	0.007	172.470	-0.005	193.241	0.005	172.459	0.006
1.004	4200	49.373	195.654	182.336	195.648	0.006	182.342	-0.006	195.650	0.004	182.332	0.004
1.002	4400	49.400	197.952	192.213	197.945	0.007	192.219	-0.006	197.948	0.004	192.211	0.002
1.001	4600	49.424	200.148	202.096	200.141	0.007	202.100	-0.004	200.144	0.004	202.095	0.001
1.000	4800	49.444	202.252	211.983	202.244	0.008	211.984	-0.001	202.249	0.003	211.983	-0.000
1.002	5000	49.463	204.271	221.873	204.263	0.008	221.872	0.001	204.268	0.003	221.875	-0.002
1.002	5200	49.479	206.211	231.768	206.203	0.008	231.764	0.004	206.208	0.003	231.770	-0.002
1.002	5400	49.494	208.079	241.665	208.070	0.009	241.660	0.005	208.076	0.003	241.667	-0.002
1.001	5600	49.507	209.879	251.565	209.870	0.009	251.560	0.005	209.876	0.003	251.566	-0.001
1.001	5800	49.519	211.617	261.468	211.608	0.009	261.466	0.002	211.613	0.004	261.466	0.001
1.004	6000	49.529	213.296	271.372	213.289	0.007	271.379	-0.007	213.291	0.005	271.368	0.004

BORAZI
MOL.
DATA FE
FITS PO

$$\begin{array}{r} 6 \quad 1 \quad 3 \\ + 5.183074 \\ - 6.426757 \end{array}$$

FITS PC
6 1 3
121899+6
121899+6

-----NOTS-----												-----EST-----			
T	CP	S	R	SC	DS	HC	DH	SC	DS	HC	DH	T	C		
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M		
400	40.477	93.820	3.753	95.101	-1.281	4.276	-0.523	95.486	-1.666	4.442	-0.689	400	30.1		
400	49.633	112.174	12.868	112.042	0.132	12.737	0.131	112.000	0.174	12.705	0.163	600	40.4		
400	54.509	127.185	23.327	127.000	0.185	23.165	0.162	126.950	0.235	23.129	0.198	800	47.1		
400	57.522	139.695	34.551	139.593	0.102	34.463	0.088	139.580	0.115	34.461	0.090	1000	51.1		
400	59.602	150.377	46.274	150.339	0.038	46.257	0.017	150.351	0.026	46.283	-0.009	1200	55.0		
400	61.123	159.684	58.354	159.679	0.005	58.379	-0.025	159.700	-0.016	58.416	-0.062	1400	57.9		
400	62.270	167.924	70.699	167.930	-0.006	70.740	-0.041	167.947	-0.023	70.770	-0.071	1600	59.1		
400	63.153	175.312	83.245	175.317	-0.005	83.284	-0.039	175.323	-0.011	83.296	-0.051	1800	60.1		
400	63.844	182.003	95.947	182.002	0.001	95.975	-0.028	181.996	0.007	95.964	-0.017	2000	61.1		
400	64.392	188.115	108.773	188.106	0.009	108.786	-0.013	188.091	0.024	108.755	0.018	2200	62.1		
400	64.832	193.737	121.697	193.723	0.014	121.696	0.001	193.704	0.033	121.656	0.041	2400	63.1		
400	65.190	198.941	134.700	198.923	0.018	134.690	0.010	198.907	0.034	134.659	0.041	2600	63.1		
400	65.484	203.783	147.768	203.763	0.020	147.753	0.015	203.760	0.023	147.757	0.010	2800	64.1		
400	65.728	208.310	160.890	208.289	0.021	160.874	0.016	208.310	0.000	160.946	-0.056	3000	64.1		
400	65.728	208.310	160.890	208.289	0.021	160.874	0.016	208.310	0.000	160.908	-0.018	3000	64.1		
400	65.933	212.558	174.057	212.539	0.019	174.044	0.013	212.554	0.004	174.061	-0.004	3200	65.1		
400	66.106	216.561	187.261	216.543	0.018	187.254	0.007	216.555	0.006	187.258	0.003	3400	65.1		
400	66.254	220.344	200.498	220.328	0.016	200.497	0.001	220.336	0.008	200.491	0.007	3600	65.1		
400	66.380	223.929	213.761	223.915	0.014	213.767	-0.006	223.922	0.007	213.754	0.007	3800	65.1		
400	66.490	227.337	227.049	227.324	0.013	227.059	-0.010	227.330	0.007	227.042	0.007	4000	65.1		
400	66.585	230.583	240.356	230.572	0.011	240.370	-0.014	230.576	0.007	240.351	0.005	4200	66.1		
400	66.668	233.683	253.682	233.671	0.012	253.695	-0.013	233.676	0.007	253.679	0.003	4400	66.1		
400	66.742	236.648	267.023	236.636	0.012	267.033	-0.010	236.642	0.006	267.022	0.001	4600	66.1		
400	66.807	239.490	280.378	239.476	0.014	280.383	-0.005	239.484	0.006	280.379	-0.001	4800	66.1		
400	66.864	242.218	293.745	242.203	0.015	293.744	0.001	242.213	0.005	293.747	-0.002	5000	66.1		
400	66.915</														

BORAZINE (G) B 3H 6M 3 365
 MOL. WT. = 80.500 BLOCK= 404 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -121.900 KEY = 76
 FITS FOR NOTS RMS = 0.117541
 6 1 3 5 3 7 0 0 0 0 0 BORAZINE (G) 10J 365 76
 +5.1830749E+1+8.9067459E+0-1.8369598E+0+1.3020676E-1 400 6000 11J 365 76
 -6.4267578E+0-1.5557138E+2+1.0341787E+2-1.2189999E+2B3H6M3(G) 12J 365 76

FITS FOR EST RMS LOW = 0.199793 RMS HIGH = 0.019866
 6 1 3 5 3 7 0 0 0 0 0 BORAZINE (G) 10B3H6M3
 -121899+6+150283+6+574728+2+298295-2-756953+7+180383+3 4003000J 36511B3H6M3
 -121899+6+150198+6+677568+2-349725-4-264199+8+180383+330006000J 36512B3H6M3

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
.689	400	30.302	76.821	2.734	79.428	-2.607	3.802	-1.068	80.060	-3.239	4.070	-1.336
.163	600	40.486	91.187	9.889	90.890	0.297	9.613	0.276	90.819	0.368	9.555	0.334
.198	800	47.140	103.808	18.695	103.433	0.375	18.377	0.318	103.350	0.458	18.313	0.382
.090	1000	51.758	114.852	28.611	114.663	0.189	28.460	0.151	114.642	0.210	28.452	0.159
.009	1200	55.089	124.599	39.313	124.540	0.059	39.303	0.010	124.561	0.038	39.341	-0.029
.062	1400	57.545	133.285	50.589	133.285	-0.000	50.656	-0.067	133.319	-0.034	50.710	-0.122
.071	1600	59.389	141.095	62.291	141.111	-0.016	62.380	-0.089	141.138	-0.043	62.424	-0.133
.051	1800	60.795	148.175	74.315	148.184	-0.009	74.394	-0.079	148.193	-0.018	74.407	-0.092
.017	2000	61.885	154.639	86.588	154.634	0.005	86.639	-0.051	154.623	0.016	86.615	-0.027
.018	2200	62.742	160.579	99.053	160.560	0.019	99.074	-0.021	160.534	0.045	99.018	0.035
.041	2400	63.425	166.068	111.673	166.038	0.030	111.667	0.006	166.006	0.062	111.598	0.075
.041	2600	63.978	171.168	124.415	171.130	0.038	124.391	0.024	171.106	0.062	124.341	0.074
.010	2800	64.430	175.926	137.257	175.884	0.042	137.223	0.033	175.884	0.042	137.239	0.018
.056	3000	64.803	180.384	150.181	180.343	0.041	150.147	0.034	180.384	0.000	150.283	-0.102
.018	3000	64.803	180.384	150.181	180.343	0.041	150.147	0.034	180.384	0.000	150.199	-0.018
.004	3200	65.115	184.577	163.174	184.537	0.040	163.147	0.027	184.572	0.005	163.178	-0.004
.003	3400	65.378	188.533	176.224	188.496	0.037	176.208	0.016	188.526	0.007	176.221	0.003
.007	3600	65.602	192.276	189.323	192.243	0.033	189.319	0.004	192.268	0.008	189.316	0.007
.007	3800	65.793	195.828	202.463	195.799	0.029	202.472	-0.009	195.820	0.008	202.455	0.008
.007	4000	65.958	199.207	215.638	199.180	0.027	215.657	-0.019	199.199	0.008	215.632	0.006
.005	4200	66.102	202.429	228.845	202.403	0.026	228.869	-0.024	202.421	0.008	228.840	0.005
.003	4400	66.227	205.507	242.078	205.482	0.025	242.103	-0.025	205.500	0.007	242.075	0.003
.001	4600	66.337	208.453	255.335	208.427	0.026	255.354	-0.019	208.447	0.006	255.334	0.001
.001	4800	66.434	211.279	268.612	211.250	0.029	268.623	-0.011	211.273	0.006	268.613	-0.001
.002	5000	66.521	213.992	281.908	213.962	0.030	281.906	0.002	213.987	0.005	281.910	-0.002
.003	5200	66.597	216.603	295.220	216.570	0.033	295.206	0.014	216.597	0.006	295.222	-0.002
.002	5400	66.666	219.118	308.546	219.083	0.035	308.525	0.021	219.112	0.006	308.549	-0.003
.000	5600	66.728	221.543	321.886	221.509	0.034	321.865	0.021	221.537	0.006	321.887	-0.001
.001	5800	66.784	223.886	335.237	223.854	0.032	335.232	0.005	223.879	0.007	335.236	0.001
.005	6000	66.834	226.151	348.599	226.125	0.026	348.631	-0.032	226.144	0.007	348.594	0.005

BORON CARBIDE (C) C 1B 4 1265
 MOL. WT. = 55.250 BLOCK = 411 NO. POINT = 37
 DATA FROM 0 TO 3500 K HPORH(KCAL/(HOLE)) = -9.236 KEY = 77
 ITS FOR NOTS RMS = 0.004284
 5 1 6 0 0 0 0 0 0 0 BORON CARBIDE (C) 30J1265 77
 1074295E+1+5.2796897E+0+4.7777038E-2-5.7966336E-3 400 3500 31J1265 77
 1424804E+0-1.9977874E+1+2.6772338E+1-9.2959995E+0CB4(C) 32J1265 77

ITS FOR EST RMS LOW = 0.003365 RMS HIGH = 0.003365
 5 1 6 0 0 0 0 0 0 0 BORON CARBIDE (C) 30CB4\$
 1599+4+829599+5+229598+2+540848-2-102694+7+681809+2 4003500J126531CB4\$
 1599+4+829599+5+229598+2+540848-2-102694+7+681809+2 4003500J126532CB4\$

NOTS-----EST-----											
CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	K
18.250	11.047	1.596	11.003	0.044	1.577	0.019	11.009	0.038	1.584	0.012	400
23.510	19.591	5.846	19.609	-0.018	5.854	-0.008	19.617	-0.026	5.861	-0.015	600
25.730	26.687	10.790	26.676	0.011	10.778	0.012	26.680	0.007	10.782	0.008	800
27.318	32.601	16.095	32.595	0.006	16.089	0.006	32.596	0.005	16.091	0.004	1000
28.726	37.708	21.703	37.708	0.000	21.702	0.001	37.707	0.001	21.702	0.001	1200
30.003	42.233	27.577	42.235	-0.002	27.579	-0.002	42.234	-0.001	27.577	-0.000	1400
31.211	46.319	33.699	46.322	-0.003	33.702	-0.003	46.320	-0.001	33.700	-0.001	1600
32.379	50.063	40.059	50.066	-0.003	40.062	-0.003	50.064	-0.001	40.060	-0.001	1800
33.522	53.534	46.649	53.536	-0.002	46.652	-0.003	53.534	-0.000	46.650	-0.001	2000
34.649	56.782	53.467	56.783	-0.001	53.468	-0.001	56.782	-0.000	53.467	0.000	2200
35.764	59.844	60.508	59.846	-0.002	60.508	-0.000	59.845	-0.001	60.508	0.000	2400
36.871	62.751	67.771	62.752	-0.001	67.771	-0.000	62.751	0.000	67.771	-0.000	2600
37.973	65.524	75.256	65.525	-0.001	75.255	0.001	65.524	0.000	75.255	0.001	2800
39.071	68.181	82.961	68.182	-0.001	82.960	0.001	68.181	0.000	82.960	0.001	3000
40.165	70.738	90.884	70.738	-0.000	90.884	0.000	70.738	0.000	90.884	0.000	3200
41.257	73.205	99.026	73.206	-0.001	99.026	-0.000	73.205	-0.000	99.026	-0.000	3400

B
 DA
 FI
 4
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-----NOTS-----

-----EST-----

0
51
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51
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51
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62
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60
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70
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72
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7
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70
0
70
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70
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8
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8

SODIUM TETRABORON HEPTAOXIDE (C) B 4NA 20 7
 MOL. WT.= 201.210 BLOCK= 418 NO. POINT = 22
 ATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -783.160 KEY = 79
 ITS FOR NOTS RMS = 0.008671
 5 7 8 2 11 0 0 0 0 0 SODIUM TETRABORON HEPTAOXIDE (C) 30J 365 79
 .1983367E+1+5.7037384E+1-2.8849136E+1+6.6091804E+0 400 2000 31J 365 79
 .2922668E-1-7.9472729E+2+6.8426620E+1-7.8315991E+2B4NA207 (C) 32J 365 79

365

SOD
 NO
 DATA
 FITS
 4 5
 +1.825
 -2.489

ITS FOR EST RMS LOW = 0.027945 RMS HIGH = 0.027945
 5 7 8 2 11 0 0 0 0 0 SODIUM TETRABORON HEPTAOXIDE (C) 30B4NA207\$
 .3159+6+206346+6+535033+2+148896-1-162254+7+201047+3 4002000J 36531B4NA207\$
 .3159+6+206346+6+535033+2+148896-1-162254+7+201047+3 4002000J 36532B4NA207\$

FITS
 4 5
 -77835
 -77835

-----NOTS-----

-----EST-----

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
00	51.100	59.383	4.901	59.365	0.018	4.893	0.008	59.511	-0.128	4.941	-0.040	400 5
00	54.621	71.172	10.190	71.187	-0.015	10.197	-0.007	71.113	0.059	10.150	0.040	600 6
00	57.720	81.411	15.811	81.415	-0.004	15.811	0.000	81.366	0.045	15.778	0.033	800 10
00	60.396	90.515	21.720	90.501	0.014	21.709	0.011	90.504	0.011	21.710	0.010	1000 10
00	62.650	98.728	27.873	98.715	0.013	27.863	0.010	98.750	-0.022	27.888	-0.015	1200 10
00	64.822	106.234	34.248	106.233	0.001	34.248	0.000	106.274	-0.040	34.278	-0.030	1400 10
00	66.850	113.170	40.833	113.178	-0.008	40.841	-0.008	113.210	-0.040	40.863	-0.030	1600 10
00	68.734	119.631	47.613	119.641	-0.010	47.624	-0.011	119.658	-0.027	47.629	-0.016	1800 10
00	70.474	125.687	54.575	125.693	-0.006	54.581	-0.006	125.695	-0.008	54.569	0.006	2000 10
00	72.070	131.392	61.703	131.391	0.001	61.700	0.003	131.383	0.009	61.676	0.027	2200 10
00	73.522	136.787	68.984	136.781	0.006	68.974	0.010	136.771	0.016	68.948	0.036	2400 10
00	74.830	141.902	76.399	141.902	-0.000	76.398	0.001	141.898	0.004	76.380	0.019	2600 10
00	76.485	146.784	83.964	146.790	-0.006	83.973	-0.009	146.796	-0.012	83.970	-0.006	2800 10
00	78.159	151.471	91.697	151.476	-0.005	91.702	-0.005	151.493	-0.022	91.718	-0.021	3000 10
00	79.853	155.986	99.597	155.986	0.000	99.594	0.003	156.009	-0.023	99.621	-0.024	
00	81.567	160.350	107.668	160.346	0.004	107.660	0.008	160.366	-0.016	107.678	-0.010	
00	83.300	164.577	115.911	164.581	-0.004	115.915	-0.004	164.577	0.000	115.889	0.022	

365

DATA FROM 298 TO 3000 K HFORM (KCAL/ (MOLE) = -778.360 KEY = 80

FITS FOR NOTS RMS = 0.277207

4	5	7	8	2	1	0	0	0	0	0	0	SODIUM TETRABORON HEPTAOXIDE	(L)	20J	365	80	
+1.8258473E+2-7.8742187E+1+2.9371215E+1-3.7724876E+0													400	3000	21J	365	80
-2.4890625E+1-9.0156933E+2+1.8446539E+2-7.7835986E+2													B4NA207 (L)	22J	365	80	

FITS FOR EST RMS LOW = 0.541156 RMS HIGH = 0.541156

4 5 7 8 2 11 0 0 0 0 0 SODIUM TETRABORON HEPTAOXIDE (L) 2084NA207*
-778359+6+266246+6+117903+3-389015-2-122199+8+248463+3 4003000J 36521B4NA207*
-778359+6+266246+6+117903+3-389015-2-122199+8+248463+3 4003000J 36522B4NA207*

[illegible]

PENTABORANE (G) B 5H 9 365 DE
 MOL. WT.= 63.120 BLOCK= 423 NO. POINT = 62 M
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 17.500 KEY = 81 DAT
 FITS FOR NOTS RMS = 0.151069 FIT
 1 5 5 0 0 0 0 0 0 PENTABORANE (G) 10J 365 81 14 1
 4139190E+1+9.0278663E+0-1.9107341E+0+1.3793748E-1 400 6000 11J 365 81 +1.16
 4396972E+0-2.8218505E+1+1.0308917E+2+1.7500000E+1B5H9 (G) 12J 365 81 -1.52
 FITS FOR EST RMS LOW = 0.244764 RMS HIGH = 0.022971 FIT
 1 5 5 0 0 0 0 0 0 PENTABORANE (G) 10B5H9 14 1
 5000+5+176224+6+698253+2+295969-2-105577+8+193859+3 4003000J 36511B5H9 +1129
 75000+5+176128+6+798694+2-594988-4-280007+8+193859+330006000J 36512B5H9 +1129

/M	-----NOTS-----								-----EST-----				T
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
630	31.120	73.631	2.735	77.279	-3.648	4.219	-1.484	77.880	-4.249	4.472	-1.737	400	
401	44.841	89.000	10.409	88.519	0.481	9.990	0.419	88.454	0.546	9.935	0.474	600	
791	54.342	103.289	20.388	102.786	0.503	19.969	0.419	102.718	0.571	19.915	0.473	800	
351	60.805	116.155	31.944	115.927	0.228	31.772	0.172	115.922	0.233	31.773	0.170	10001	
227	65.245	127.658	44.576	127.598	0.060	44.586	-0.010	127.632	0.026	44.630	-0.054	12001	
378	68.361	137.964	57.954	137.971	-0.007	58.051	-0.097	138.015	-0.051	58.108	-0.154	14001	
322	70.600	147.246	71.862	147.266	-0.020	71.977	-0.115	147.299	-0.053	72.018	-0.156	16001	
178	72.250	155.661	86.155	155.669	-0.008	86.249	-0.094	155.683	-0.022	86.256	-0.101	18001	
020	73.494	163.341	100.735	163.329	0.012	100.792	-0.057	163.322	0.019	100.759	-0.025	20001	
105	74.450	170.393	115.533	170.362	0.031	115.552	-0.019	170.340	0.053	115.488	0.045	22001	
167	75.199	176.904	130.501	176.860	0.044	130.488	0.013	176.833	0.071	130.414	0.087	24001	
146	75.796	182.948	145.603	182.895	0.053	145.570	0.033	182.878	0.070	145.521	0.082	26001	
024	76.279	188.583	160.812	188.527	0.056	160.770	0.042	188.537	0.046	160.794	0.018	28001	
208	76.574	193.860	176.109	193.804	0.056	176.068	0.041	193.860	0.000	176.224	-0.115	30001	
	76.674	193.860	176.109	193.804	0.056	176.068	0.041	193.860	0.000	176.129	-0.020	30001	
	77.001	198.819	191.477	198.766	0.053	191.445	0.032	198.814	0.005	191.482	-0.005	32001	
	77.275	203.495	206.906	203.447	0.048	206.887	0.019	203.488	0.007	206.902	0.004	34001	
	77.507	207.919	222.384	207.875	0.044	222.382	0.002	207.911	0.008	222.377	0.007	36001	
	77.704	212.115	237.906	212.075	0.040	237.917	-0.011	212.107	0.008	237.897	0.009	38001	
	77.874	216.105	253.464	216.068	0.037	253.487	-0.023	216.097	0.008	253.456	0.008	40001	
	78.021	219.908	269.054	219.873	0.035	269.082	-0.028	219.900	0.008	269.048	0.006	42001	
	78.148	223.541	284.671	223.505	0.036	284.699	-0.028	223.534	0.007	284.668	0.003	44001	
	78.260	227.017	300.312	226.980	0.037	300.334	-0.022	227.010	0.007	300.311	0.000	46001	
	78.359	230.350	315.975	230.311	0.039	315.985	-0.010	230.344	0.006	315.976	-0.001	48001	
	78.446	233.551	331.655	233.509	0.042	331.652	0.003	233.545	0.006	331.658	-0.003	50001	
	78.524	236.629	347.352	236.584	0.045	347.336	0.016	236.623	0.006	347.356	-0.004	52001	
	78.593	239.594	363.064	239.547	0.047	363.039	0.025	239.588	0.006	363.067	-0.003	54001	
	78.655	242.453	378.789	242.407	0.046	378.765	0.024	242.447	0.006	378.791	-0.002	56001	
	78.711	245.214	394.526	245.171	0.043	394.520	0.006	245.207	0.007	394.524	0.002	58001	
	78.761	247.883	410.273	247.848	0.035	410.310	-0.037	247.876	0.007	410.267	0.006	60001	

DECABORANE

(G) B 10H 14

1264

MOL. WT. = 122.220 BLOCK = 430 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = 11.300 KEY = 82

FITS FOR NOTS RMS = 0.225091

14 110 5 0 0 0 0 0 0 0 DECABORANE (G) 10J1264 82
 +1.1622463E+2+1.3451885E+1-2.8469005E+0+2.0555055E-1 400 6000 11J1264 82
 -1.5290039E+1-6.6961471E+1+1.5819978E+2+1.1299999E+1B10H14(G) 12J1264 82

FITS FOR EST RMS LOW = 0.365225 RMS HIGH = 0.040295

14 110 5 0 0 0 0 0 0 0 DECABORANE (G) 10B10H14
 +112999+5+314814+6+124686+3+441366-2-169510+8+316210+3 4003000J126411B10H14
 +112999+5+314678+6+139823+3-110822-3-439664+8+316210+330006000J126412B10H14.

H C/M	-----NOTS-----												-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M				
.737	400	59.738	99.182	5.253	104.643	-5.461	7.470	-2.217	105.534	-6.352	7.849	-2.596				
.474	600	84.050	128.362	19.811	127.639	0.723	19.180	0.631	127.544	0.818	19.101	0.710				
.473	800	99.711	154.848	38.299	154.096	0.752	37.671	0.628	153.997	0.851	37.594	0.705				
.170	1000	110.031	178.284	59.342	177.942	0.342	59.082	0.260	177.935	0.349	59.088	0.254				
.054	1200	117.019	199.002	82.091	198.910	0.092	82.102	-0.011	198.961	0.041	82.171	-0.080				
.154	1400	121.885	217.428	106.009	217.437	-0.009	106.151	-0.142	217.503	-0.075	106.238	-0.229				
.156	1600	125.369	233.943	130.753	233.972	-0.029	130.922	-0.169	234.022	-0.079	130.986	-0.233				
.101	1800	127.929	248.865	156.096	248.876	-0.011	156.234	-0.138	248.896	-0.031	156.247	-0.151				
.025	2000	129.854	262.447	181.883	262.430	0.017	181.967	-0.084	262.418	0.029	181.919	-0.036				
.045	2200	131.334	274.896	208.008	274.852	0.044	208.035	-0.027	274.817	0.079	207.940	0.068				
.087	2400	132.492	286.375	234.395	286.311	0.064	234.376	0.019	286.269	0.106	234.265	0.130				
.082	2600	133.414	297.018	260.989	296.941	0.077	260.940	0.049	296.915	0.103	260.866	0.123				
.018	2800	134.158	306.933	287.748	306.851	0.082	287.686	0.062	306.865	0.068	287.721	0.027				
.115	3000	134.768	316.211	314.643	316.129	0.082	314.583	0.060	316.211	0.000	314.815	-0.172				
.020	3000	134.768	316.211	314.643	316.129	0.082	314.583	0.060	316.211	0.000	314.679	-0.036				
.005	3200	135.273	324.925	341.649	324.848	0.077	341.601	0.048	324.917	0.008	341.658	-0.010				
.004	3400	135.696	333.139	368.747	333.068	0.071	368.719	0.027	333.126	0.013	368.742	0.005				
.007	3600	136.053	340.906	395.923	340.841	0.065	395.918	0.005	340.891	0.015	395.910	0.012				
.009	3800	136.357	348.270	423.164	348.211	0.059	423.181	-0.017	348.254	0.016	423.150	0.014				
.008	4000	136.618	355.271	450.463	355.217	0.054	450.496	-0.033	355.256	0.015	450.450	0.013				
.006	4200	136.845	361.942	477.809	361.890	0.052	477.851	-0.042	361.928	0.014	477.800	0.009				
.003	4400	137.041	368.313	505.198	368.260	0.053	505.239	-0.041	368.300	0.013	505.194	0.004				
.000	4600	137.214	374.408	532.624	374.354	0.054	532.656	-0.032	374.396	0.012	532.624	-0.000				
.001	4800	137.366	380.252	560.083	380.193	0.059	560.098	-0.015	380.240	0.012	560.086	-0.003				
.003	5000	137.500	385.862	587.569	385.800	0.062	587.564	0.005	385.851	0.011	587.576	-0.007				
.004	5200	137.619	391.257	615.082	391.191	0.066	615.056	0.026	391.246	0.010	615.089	-0.007				
.003	5400	137.726	396.453	642.616	396.384	0.069	642.578	0.038	396.442	0.011	642.623	-0.007				
.002	5600	137.822	401.463	670.171	401.395	0.068	670.135	0.036	401.452	0.011	670.175	-0.004				
.002	5800	137.908	406.301	697.744	406.238	0.063	697.736	0.008	406.289	0.012	697.743	0.001				
.006	6000	137.986	410.978	725.334	410.925	0.052	725.389	-0.055	410.964	0.014	725.324	0.010				

BER
MO
DATA
FITS
1 4
+4.984
+5.796

FITS
1 4
+28809
+28809

-----EST-----

T K	C
400	5
600	6
800	6
1000	6
1200	6
1400	6
1600	6
1800	7
2000	7
2200	7
2400	7
2600	7
2800	7
3000	7
3200	7
3400	7
3600	7
3800	7
4000	7
4200	7
4400	7
4600	7
4800	7
5000	7
5200	7
5400	7
5600	7
5800	7
6000	7

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BERYLLIUM

(L) BE 1

961

MOL. WT.= 9.010 BLOCK= 445 NO. POINT = 59

DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 2.881 KEY = 85

FITS FOR NOTS RMS = 0.020352

1 4 0 0 0 0 0 0 0 0 0 BERYLLIUM (L) 20J 961 85
 +4.9842796E+0+1.7666807E+0-4.0470868E-1+3.0272006E-2 400 6000 21J 961 85
 +5.7968139E-2+1.3048582E+0+9.2059822E+0+2.8809995E+0BE (L) 22J 961 85

FITS FOR EST RMS LOW = 0.090655 RMS HIGH = 0.090655

1 4 0 0 0 0 0 0 0 0 0 BERYLLIUM (L) 20BE*
 +288099+4+183099+5+756410+1-809805-6-117537+7+184299+2 4006000J 96121BE*
 +288099+4+183099+5+756410+1-809805-6-117537+7+184299+2 4006000J 96122BE*

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
010	400	5.027	5.270	0.459	5.133	0.137	0.406	0.053	6.799	-1.529	1.193	-0.734
006	600	6.017	7.534	1.583	7.569	-0.035	1.608	-0.025	7.825	-0.291	1.727	-0.144
001	800	6.317	9.316	2.823	9.337	-0.021	2.838	-0.015	9.287	0.029	2.750	0.073
001	1000	6.499	10.745	4.105	10.751	-0.006	4.106	-0.001	10.644	0.101	3.969	0.136
001	1200	6.657	11.945	5.421	11.941	0.004	5.411	0.010	11.843	0.102	5.285	0.136
000	1400	6.791	12.981	6.766	12.973	0.008	6.751	0.015	12.901	0.080	6.658	0.108
000	1600	6.901	13.895	8.136	13.887	0.008	8.121	0.015	13.841	0.054	8.066	0.070
000	1800	7.004	14.714	9.526	14.710	0.004	9.518	0.008	14.693	0.031	9.497	0.029
000	2000	7.106	15.457	10.937	15.458	-0.001	10.939	-0.002	15.445	0.012	10.944	-0.007
000	2200	7.209	16.140	12.369	16.145	-0.005	12.379	-0.010	16.141	-0.001	12.403	-0.034
000	2400	7.309	16.771	13.821	16.778	-0.007	13.836	-0.015	16.779	-0.008	13.871	-0.050
000	2600	7.407	17.360	15.292	17.367	-0.007	15.307	-0.015	17.370	-0.010	15.345	-0.053
000	2800	7.500	17.912	16.783	17.916	-0.004	16.788	-0.005	17.918	-0.006	16.826	-0.043
000	3000	7.500	18.430	18.283	18.430	0.000	18.278	0.005	18.430	0.000	18.310	-0.027
000	3200	7.500	18.914	19.783	18.913	0.001	19.774	0.009	18.910	0.004	19.798	-0.015
000	3400	7.500	19.369	21.283	19.367	0.002	21.274	0.009	19.362	0.007	21.288	-0.005
000	3600	7.500	19.797	22.783	19.797	0.000	22.776	0.007	19.789	0.008	22.781	0.002
000	3800	7.500	20.203	24.283	20.203	-0.000	24.280	0.003	20.193	0.010	24.276	0.007
000	4000	7.500	20.587	25.783	20.589	-0.002	25.784	-0.001	20.577	0.010	25.773	0.010
000	4200	7.500	20.953	27.283	20.955	-0.002	27.286	-0.003	20.942	0.011	27.271	0.012
000	4400	7.500	21.302	28.783	21.305	-0.003	28.788	-0.005	21.291	0.011	28.771	0.012
000	4600	7.500	21.636	30.283	21.638	-0.002	30.288	-0.005	21.624	0.012	30.271	0.012
000	4800	7.500	21.955	31.783	21.957	-0.002	31.787	-0.004	21.944	0.011	31.773	0.010
000	5000	7.500	22.261	33.283	22.263	-0.002	33.284	-0.001	22.250	0.010	33.275	0.008
000	5200	7.500	22.555	34.783	22.556	-0.001	34.781	0.002	22.545	0.010	34.778	0.005
000	5400	7.500	22.838	36.283	22.839	-0.001	36.279	0.004	22.829	0.009	36.281	0.002
000	5600	7.500	23.111	37.783	23.111	-0.000	37.779	0.004	23.102	0.009	37.786	-0.003
000	5800	7.500	23.374	39.283	23.375	-0.001	39.281	0.002	23.366	0.008	39.290	-0.007
000	6000	7.500	23.628	40.783	23.631	-0.003	40.789	-0.006	23.622	0.006	40.795	-0.012

BERY
MOI
DATA
FITS
1 4 2
+1.3577
-9.0229

PITS
1 4 2
+ 135000
+ 135000

NOTS								EST				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	4.968	34.005	0.506	34.301	-0.296	6.634	-0.128	33.986	0.019	0.498	0.008	400
600	4.968	36.019	1.500	36.017	0.002	1.487	0.013	36.020	-0.001	1.500	-0.000	600
800	4.968	37.449	2.493	37.407	0.042	2.454	0.039	37.452	-0.003	2.496	-0.003	800
1000	4.968	38.557	3.487	38.524	0.033	3.456	0.031	38.560	-0.003	3.489	-0.002	1000
1200	4.968	39.463	4.481	39.444	0.019	4.465	0.016	39.465	-0.002	4.481	-0.000	1200
1400	4.968	40.229	5.474	40.221	0.008	5.474	0.000	40.230	-0.001	5.474	0.000	1400
1600	4.968	40.892	6.468	40.892	0.000	6.478	-0.010	40.893	-0.001	6.467	0.001	1600
1800	4.968	41.477	7.461	41.480	-0.003	7.476	-0.015	41.478	-0.001	7.460	0.001	1800
2000	4.969	42.001	8.455	42.004	-0.003	8.470	-0.015	42.001	-0.000	8.454	0.001	2000
2200	4.970	42.474	9.449	42.476	-0.002	9.461	-0.012	42.475	-0.001	9.449	0.000	2200
2400	4.974	42.907	10.443	42.906	0.001	10.450	-0.007	42.908	-0.001	10.444	-0.001	2400
2600	4.982	43.306	11.439	43.302	0.004	11.439	-0.000	43.307	-0.001	11.440	-0.001	2600
2800	4.997	43.675	12.437	43.670	0.005	12.432	0.005	43.677	-0.002	12.438	-0.001	2800
3000	5.021	44.021	13.438	44.014	0.007	13.430	0.008	44.021	0.000	13.436	0.002	3000
3000	5.021	44.021	13.438	44.014	0.007	13.430	0.008	44.021	0.000	13.426	0.012	3000
3200	5.057	44.346	14.446	44.339	0.007	14.436	0.010	44.351	-0.005	14.449	-0.003	3200
3400	5.109	44.654	15.462	44.647	0.007	15.453	0.009	44.660	-0.006	15.469	-0.007	3400
3600	5.179	44.948	16.491	44.942	0.006	16.484	0.007	44.953	-0.005	16.495	-0.004	3600
3800	5.268	45.230	17.535	45.225	0.005	17.533	0.002	45.235	-0.005	17.535	-0.000	3800
4000	5.378	45.503	18.599	45.499	0.004	18.601	-0.002	45.507	-0.004	18.596	0.003	4000
4200	5.508	45.768	19.687	45.765	0.003	19.693	-0.006	45.772	-0.004	19.683	0.004	4200
4400	5.658	46.028	20.804	46.025	0.003	20.811	-0.007	46.031	-0.003	20.800	0.004	4400
4600	5.828	46.283	21.952	46.281	0.002	21.960	-0.008	46.287	-0.004	21.950	0.002	4600
4800	6.014	46.535	23.136	46.532	0.003	23.142	-0.006	46.539	-0.004	23.136	0.000	4800
5000	6.215	46.785	24.359	46.781	0.004	24.360	-0.001	46.789	-0.004	24.360	-0.001	5000
5200	6.428	47.033	25.623	47.028	0.005	25.620	0.003	47.037	-0.004	25.625	-0.002	5200
5400	6.650	47.279	26.930	47.274	0.005	26.924	0.006	47.284	-0.005	26.933	-0.003	5400
5600	6.877	47.525	28.283	47.519	0.006	28.275	0.008	47.530	-0.005	28.284	-0.001	5600
5800	7.109	47.771	29.681	47.766	0.005	29.679	0.002	47.775	-0.004	29.681	0.000	5800
6000	7.340	48.015	31.126	48.013	0.002	31.138	-0.012	48.019	-0.004	31.123	0.003	6000

BERYLLIUM CARBIDE (G) C 2BE 1 1263
 MOL. WT.= 33.030 BLOCK= 458 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 135.000 KEY = 87
 FITS FOR NOTS RMS = 0.014790
 1 4 2 6 0 0 0 0 0 0 0 BERYLLIUM CARBIDE (G) 10J1263 87
 +1.3577410E+1+7.9585814E-1-1.7095130E-1+1.2486465E-2 400 6000 11J1263 87
 -9.0229797E-1+1.2844226E+2+6.4915390E+1+1.3500000E+2C2BE (G) 12J1263 87

FITS FOR EST RMS LOW = 0.023562 RMS HIGH = 0.004508
 1 4 2 6 0 0 0 0 0 0 0 BERYLLIUM CARBIDE (G) 10C2BE
 +135000+6+367848+5+140768+2+257293-3-999120+6+816179+2 4003000J126311C2BE
 +135000+6+367774+5+149878+2-124476-4-274944+7+816179+230006000J126312C2BE

H C/M	-----NOTS-----								-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
.008	400	10.553	55.231	1.041	55.599	-0.368	1.189	-0.148	55.652	-0.421	1.212	-0.171
.000	600	11.696	59.733	3.269	59.681	0.052	3.224	0.045	59.677	0.056	3.221	0.048
.003	800	12.580	63.226	5.702	63.175	0.051	5.659	0.043	63.171	0.055	5.656	0.046
.002	1000	13.197	66.103	8.283	66.081	0.022	8.266	0.017	66.082	0.021	8.268	0.015
.000	1200	13.618	68.549	10.968	68.543	0.006	10.968	-0.000	68.548	0.001	10.973	-0.005
.000	1400	13.909	70.672	13.722	70.672	-0.000	13.731	-0.009	70.677	-0.005	13.737	-0.015
.001	1600	14.115	72.543	16.526	72.545	-0.002	16.536	-0.010	72.549	-0.006	16.540	-0.014
.001	1800	14.266	74.215	19.364	74.215	-0.000	19.373	-0.009	74.217	-0.002	19.374	-0.010
.001	2000	14.378	75.724	22.229	75.722	0.002	22.234	-0.005	75.722	0.002	22.231	-0.002
.000	2200	14.463	77.098	25.114	77.095	0.003	25.115	-0.001	77.094	0.004	25.109	0.005
.001	2400	14.530	78.360	28.013	78.356	0.004	28.012	0.001	78.354	0.006	28.005	0.008
.001	2600	14.583	79.525	30.925	79.520	0.005	30.922	0.003	79.519	0.006	30.917	0.008
.001	2800	14.625	80.607	33.846	80.602	0.005	33.842	0.004	80.604	0.003	33.844	0.002
.002	3000	14.660	81.618	36.774	81.612	0.006	36.771	0.003	81.618	0.000	36.785	-0.011
.012	3000	14.660	81.618	36.774	81.612	0.006	36.771	0.003	81.618	0.000	36.777	-0.003
.003	3200	14.689	82.565	39.709	82.560	0.005	39.707	0.002	82.564	0.001	39.710	-0.001
.007	3400	14.713	83.456	42.650	83.451	0.005	42.648	0.002	83.455	0.001	42.649	0.001
.004	3600	14.733	84.297	45.594	84.293	0.004	45.594	-0.000	84.296	0.001	45.593	0.001
.000	3800	14.750	85.094	48.543	85.091	0.003	48.544	-0.001	85.093	0.001	48.541	0.002
.003	4000	14.765	85.851	51.494	85.848	0.003	51.496	-0.002	85.850	0.001	51.493	0.001
.004	4200	14.778	86.572	54.448	86.569	0.003	54.451	-0.003	86.571	0.001	54.447	0.001
.004	4400	14.789	87.260	57.405	87.257	0.003	57.408	-0.003	87.259	0.001	57.404	0.001
.002	4600	14.798	87.917	60.364	87.914	0.003	60.366	-0.002	87.917	0.000	60.364	0.000
.000	4800	14.807	88.547	63.324	88.544	0.003	63.325	-0.001	88.547	0.000	63.325	-0.001
.001	5000	14.814	89.152	66.287	89.148	0.004	66.286	0.001	89.152	0.000	66.287	0.000
.002	5200	14.821	89.733	69.250	89.729	0.004	69.248	0.002	89.733	0.000	69.251	-0.001
.003	5400	14.827	90.293	72.215	90.288	0.005	72.212	0.003	90.292	0.001	72.216	-0.001
.001	5600	14.833	90.832	75.181	90.828	0.004	75.179	0.002	90.831	0.001	75.181	-0.000
.000	5800	14.837	91.353	78.148	91.349	0.004	78.147	0.001	91.352	0.001	78.148	0.000
.003	6000	14.842	91.856	81.116	91.852	0.004	81.120	-0.004	91.855	0.001	81.115	0.001

BERYLLIUM MONOCHLORIDE (G) BE 1CL 1 0 0 0 0 966 BERYLL
 MOL. WT.= 44.460 BLOCK= 464 NO. POINT = 62 MOL.
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = 14.500 KEY = 88 DATA FR
 FITS FOR NOTS RMS = 0.002031 FITS FO
 4 1 17 0 0 0 0 0 0 0 BERYLLIUM MONOCHLORIDE (G) 10J 966 88 1 4 1
 218584E+0+2.0625793E-1-4.2801618E-2+5.4604746E-3 400 6000 11J 966 88 +1.463451
 135070E-1+1.1303421E+1+6.1729354E+1+1.4500000E+1BECL (G) 12J 966 88 -4.573974

 FITS FOR EST RMS LOW = 0.001384 RMS HIGH = 0.006588 FITS FO
 4 1 17 0 0 0 0 0 0 0 BERYLLIUM MONOCHLORIDE (G) 10BECL 1 4 1
 5000+5+239832+5+890219+1+102099-3-192592+6+719069+2 4003000J 96611BECL -137000+6
 5000+5+239806+5+813741+1+240280-3+314772+7+719069+230006000J 96612BECL -137000+6

-----NOTS-----												-----EST-----	
CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		T	C
C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		K	C/M
7.963	54.265	0.792	54.292	-0.027	0.801	-0.009	54.296	-0.031	0.804	-0.012		400	12.5
8.437	57.595	2.437	57.591	0.004	2.433	0.004	57.591	0.004	2.434	0.003		600	13.4
8.672	60.058	4.151	60.055	0.003	4.147	0.004	60.056	0.002	4.148	0.003		800	13.9
8.804	62.009	5.900	62.007	0.002	5.897	0.003	62.008	0.001	5.899	0.001		1000	14.2
8.888	63.622	7.669	63.621	0.001	7.667	0.002	63.622	-0.000	7.670	-0.001		1200	14.4
8.947	64.997	9.453	64.996	0.001	9.452	0.001	64.997	-0.000	9.454	-0.001		1400	14.5
8.992	66.194	11.247	66.194	0.000	11.246	0.001	66.195	-0.001	11.248	-0.001		1600	14.6
9.029	67.256	13.049	67.255	0.001	13.049	0.000	67.256	-0.000	13.049	-0.000		1800	14.6
9.060	68.208	14.858	68.208	-0.000	14.858	-0.000	68.209	-0.001	14.858	0.000		2000	14.7
9.088	69.073	16.673	69.073	-0.000	16.673	-0.000	69.073	-0.000	16.673	0.000		2200	14.7
9.114	69.865	18.493	69.865	-0.000	18.493	-0.001	69.865	-0.000	18.493	0.000		2400	14.7
9.138	70.596	20.318	70.596	0.000	20.319	-0.001	70.596	0.000	20.318	0.000		2600	14.8
9.161	71.274	22.148	71.274	0.000	22.149	-0.001	71.274	0.000	22.148	-0.000		2800	14.8
9.183	71.907	23.983	71.907	0.000	23.983	0.000	71.907	0.000	23.983	-0.000		3000	14.8
9.183	71.907	23.983	71.907	0.000	23.983	0.000	71.907	0.000	23.981	0.002		3000	14.8
9.205	72.500	25.821	72.500	0.000	25.822	-0.001	72.501	-0.001	25.823	-0.002		3200	14.8
9.228	73.059	27.665	73.059	0.000	27.665	0.000	73.060	-0.001	27.667	-0.002		3400	14.8
9.251	73.587	29.513	73.587	0.000	29.513	0.000	73.588	-0.001	29.514	-0.001		3600	14.8
9.275	74.087	31.365	74.087	-0.000	31.365	-0.000	74.089	-0.002	31.365	0.000		3800	14.8
9.300	74.564	33.222	74.564	0.000	33.223	-0.001	74.565	-0.001	33.221	0.001		4000	14.8
9.327	75.018	35.085	75.018	-0.000	35.085	-0.000	75.019	-0.001	35.083	0.002		4200	14.8
9.356	75.453	36.953	75.453	0.000	36.954	-0.001	75.453	-0.001	36.951	0.002		4400	14.8
9.388	75.869	38.828	75.869	-0.000	38.828	-0.000	75.870	-0.001	38.826	0.002		4600	14.8
9.422	76.270	40.709	76.270	0.000	40.709	0.000	76.271	-0.001	40.708	0.001		4800	14.8
9.459	76.655	42.597	76.655	0.000	42.597	0.000	76.656	-0.001	42.597	-0.000		5000	14.8
9.499	77.027	44.493	77.027	0.000	44.493	0.000	77.028	-0.001	44.494	-0.001		5200	14.8
9.542	77.386	46.397	77.386	0.000	46.396	0.001	77.388	-0.002	46.399	-0.002		5400	14.8
9.587	77.734	48.310	77.734	0.000	48.309	0.001	77.735	-0.001	48.311	-0.001		5600	14.8
9.636	78.071	50.232	78.071	-0.000	50.232	0.000	78.072	-0.001	50.232	-0.000		5800	14.8
9.686	78.399	52.164	78.399	0.000	52.165	-0.001	78.399	-0.000	52.161	0.003		6000	14.8

BERYLLIUM CHLOROFLUORIDE

(G)

BE 1CL 1F 1

665

MOL. WT. = 63.460

BLOCK = 470

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -137.000 KEY = 89

FITS FOR NOTS RMS = 0.004362

1 4 1 9 1 17 0 0 0 0 0 BERYLLIUM CHLOROFLUORIDE (G) 10J 665 89
 +1.4634510E+1+1.6826367E-1-3.7464927E-2+2.8243837E-3 400 6000 11J 665 89
 -4.5739746E-1-1.4272575E+2+7.4491241E+1-1.3700000E+2BECLF (G) 12J 665 89

FITS FOR EST RMS LOW = 0.005728 RMS HIGH = 0.004620

1 4 1 9 1 17 0 0 0 0 0 BERYLLIUM CHLOROFLUORIDE (G) 10BECLF
 -137000+6+388100+5+147334+2+544216-4-474032+6+909569+2 4003000J 66511BECLF
 -137000+6+388110+5+150088+2-153146-4-137523+7+909569+230006000J 66512BECLF

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.012	400	12.572	62.471	1.244	62.576	-0.105	1.284	-0.040	62.584	-0.113	1.289	-0.045
0.003	600	13.495	67.763	3.860	67.745	0.018	3.845	0.015	67.746	0.017	3.847	0.013
0.003	800	13.996	71.720	6.614	71.706	0.014	6.601	0.013	71.707	0.013	6.603	0.011
0.001	1000	14.281	74.877	9.445	74.870	0.007	9.439	0.006	74.872	0.005	9.441	0.004
-0.001	1200	14.454	77.497	12.319	77.495	0.002	12.318	0.001	77.497	-0.000	12.321	-0.002
-0.001	1400	14.565	79.734	15.222	79.733	0.001	15.223	-0.001	79.736	-0.002	15.225	-0.003
-0.001	1600	14.640	81.684	18.143	81.684	0.000	18.144	-0.001	81.685	-0.001	18.146	-0.003
-0.000	1800	14.693	83.412	21.077	83.411	0.001	21.078	-0.001	83.412	-0.000	21.078	-0.001
0.000	2000	14.732	84.962	24.019	84.961	0.001	24.020	-0.001	84.962	0.000	24.019	-0.000
0.000	2200	14.761	86.368	26.969	86.367	0.001	26.969	0.000	86.366	0.002	26.967	0.002
0.000	2400	14.783	87.653	29.923	87.652	0.001	29.923	-0.000	87.651	0.002	29.921	0.002
0.000	2600	14.801	88.837	32.882	88.836	0.001	32.881	0.001	88.836	0.001	32.880	0.002
-0.000	2800	14.815	89.934	35.843	89.933	0.001	35.843	-0.000	89.933	0.001	35.843	-0.000
-0.000	3000	14.826	90.957	38.808	90.956	0.001	38.807	0.001	90.957	0.000	38.810	-0.002
0.002	3000	14.826	90.957	38.808	90.956	0.001	38.807	0.001	90.957	0.000	38.811	-0.003
-0.002	3200	14.836	91.914	41.774	91.913	0.001	41.774	0.000	91.913	0.001	41.775	-0.001
-0.002	3400	14.843	92.814	44.742	92.813	0.001	44.742	-0.000	92.812	0.002	44.741	0.001
-0.001	3600	14.850	93.662	47.711	93.662	0.000	47.712	-0.001	93.661	0.001	47.710	0.001
0.000	3800	14.855	94.465	50.682	94.465	0.000	50.683	-0.001	94.464	0.001	50.680	0.002
0.001	4000	14.860	95.227	53.653	95.227	0.000	53.654	-0.001	95.226	0.001	53.652	0.001
0.002	4200	14.864	95.953	56.626	95.952	0.001	56.627	-0.001	95.951	0.002	56.624	0.002
0.002	4400	14.868	96.644	59.599	96.643	0.001	59.600	-0.001	96.643	0.001	59.598	0.001
0.002	4600	14.871	97.305	62.573	97.304	0.001	62.573	-0.000	97.304	0.001	62.573	0.000
0.001	4800	14.874	97.938	65.547	97.937	0.001	65.547	-0.000	97.937	0.001	65.547	-0.000
-0.000	5000	14.876	98.545	68.522	98.544	0.001	68.522	0.000	98.544	0.001	68.523	-0.001
-0.001	5200	14.878	99.129	71.498	99.128	0.001	71.497	0.001	99.128	0.001	71.498	-0.000
-0.002	5400	14.880	99.690	74.473	99.689	0.001	74.473	0.000	99.689	0.001	74.474	-0.001
-0.001	5600	14.882	100.231	77.450	100.230	0.001	77.449	0.001	100.230	0.001	77.450	0.000
-0.000	5800	14.883	100.754	80.426	100.753	0.001	80.426	0.000	100.753	0.001	80.426	0.000
0.003	6000	14.885	101.258	83.403	101.258	0.000	83.404	-0.001	101.257	0.001	83.401	0.002

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      BE
      M
    DAT
    FIT
      1  4
+8.71
-3.22

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FIT
1 4
-4967
-4967

-----EST-----

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
/M	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
045	13.025	63.988	1.294	64.058	-0.070	1.320	-0.026	64.064	-0.076	1.324	-0.030	400
013	13.822	69.439	3.988	69.427	0.012	3.976	0.012	69.428	0.010	3.979	0.009	600
011	14.225	73.477	6.797	73.467	0.010	6.787	0.010	73.469	0.008	6.790	0.007	800
004	14.446	76.677	9.666	76.672	0.005	9.661	0.005	76.674	0.003	9.664	0.002	1000
002	14.576	79.324	12.569	79.321	0.003	12.567	0.002	79.323	0.001	12.570	-0.001	1200
003	14.658	81.577	15.493	81.576	0.001	15.493	0.000	81.578	-0.001	15.495	-0.002	1400
003	14.714	83.538	18.431	83.538	0.000	18.431	0.000	83.539	-0.001	18.433	-0.002	1600
001	14.752	85.274	21.378	85.273	0.001	21.378	0.000	85.274	0.000	21.379	-0.001	1800
000	14.781	86.829	24.331	86.829	-0.000	24.331	-0.000	86.829	-0.000	24.331	-0.000	2000
002	14.802	88.239	27.289	88.239	0.000	27.289	-0.000	88.239	0.000	27.289	0.000	2200
002	14.818	89.528	30.251	89.527	0.001	30.251	-0.000	89.527	0.001	30.250	0.001	2400
000	14.830	90.714	33.216	90.714	0.000	33.216	-0.000	90.714	0.000	33.215	0.001	2600
002	14.840	91.814	36.183	91.813	0.001	36.183	-0.000	91.813	0.001	36.183	-0.000	2800
003	14.849	92.838	39.152	92.838	0.000	39.153	-0.001	92.838	0.000	39.154	-0.002	3000
001	14.849	92.838	39.152	92.838	0.000	39.153	-0.001	92.838	0.000	39.155	-0.003	3000
001	14.855	93.797	42.123	93.796	0.001	42.123	-0.000	93.796	0.001	42.123	-0.000	3200
001	14.861	94.697	45.094	94.697	-0.000	45.095	-0.001	94.696	0.001	45.094	0.000	3400
002	14.865	95.547	48.067	95.547	0.000	48.068	-0.001	95.545	0.002	48.066	0.001	3600
001	14.869	96.351	51.040	96.350	0.001	51.041	-0.001	96.349	0.002	51.039	0.001	3800
002	14.873	97.114	54.015	97.113	0.001	54.015	-0.000	97.112	0.002	54.013	0.002	4000
001	14.876	97.839	56.990	97.839	-0.000	56.990	-0.000	97.838	0.001	56.988	0.002	4200
000	14.878	98.531	59.965	98.531	-0.000	59.965	-0.000	98.530	0.001	59.964	0.001	4400
000	14.881	99.193	62.941	99.192	0.001	62.941	-0.000	99.192	0.001	62.941	0.000	4600
001	14.882	99.826	65.917	99.826	0.000	65.917	-0.000	99.825	0.001	65.917	-0.000	4800
000	14.884	100.434	68.894	100.433	0.001	68.893	0.001	100.433	0.001	68.894	-0.000	5000
001	14.886	101.017	71.871	101.017	0.000	71.870	0.001	101.016	0.001	71.871	-0.000	5200
000	14.887	101.579	74.848	101.579	0.000	74.847	0.001	101.578	0.001	74.849	-0.001	5400
000	14.888	102.121	77.825	102.120	0.001	77.825	0.001	102.120	0.001	77.826	0.000	5600
002	14.889											

BERYLLIUM MONOFLUORIDE

(G) BE 1F 1

363

MOL. WT. = 28.010 BLOCK = 483 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -49.678 KEY = 91

FITS FOR NOTS RMS = 0.003753

1 4 1 9 0 0 0 0 0 0 0 BERYLLIUM MONOFLUORIDE (G) 10J 363 91
+8.7108736E+0+2.2008001E-1-3.1271070E-2+2.3294435E-3 400 6000 11J 363 91
-3.2212829E-1-5.3206710E+1+5.6272338E+1-4.9677993E+1BEF(G) 12J 363 91

FITS FOR EST RMS LOW = 0.005130 RMS HIGH = 0.003014

1 4 1 9 0 0 0 0 0 0 0 BERYLLIUM MONOFLUORIDE (G) 10BEF
-496779+5+234700+5+879244+1+125543-3-335408+6+684019+2 4003000J 36311BEF
-496779+5+234703+5+901037+1+677735-4-978448+6+684019+230006000J 36312BEF

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
.030	400	7.431	51.289	0.741	51.383	-0.094	0.778	-0.037	51.389	-0.100	0.781	-0.040
.009	600	7.977	54.411	2.285	54.397	0.014	2.272	0.013	54.397	0.014	2.273	0.012
.007	800	8.333	56.759	3.919	56.747	0.012	3.908	0.011	56.748	0.011	3.909	0.010
.002	1000	8.554	58.644	5.609	58.639	0.005	5.604	0.005	58.640	0.004	5.607	0.002
.001	1200	8.696	60.217	7.335	60.215	0.002	7.334	0.001	60.217	-0.000	7.337	-0.002
.002	1400	8.794	61.566	9.085	61.565	0.001	9.086	-0.001	61.567	-0.001	9.088	-0.003
.002	1600	8.866	62.745	10.851	62.745	0.000	10.853	-0.002	62.746	-0.001	10.854	-0.003
.001	1800	8.922	63.792	12.630	63.792	-0.000	12.632	-0.002	63.793	-0.001	12.632	-0.002
.000	2000	8.967	64.735	14.419	64.734	0.001	14.420	-0.001	64.735	0.000	14.420	-0.001
.000	2200	9.004	65.591	16.217	65.591	0.000	16.217	0.000	65.591	0.000	16.216	0.001
.001	2400	9.037	66.376	18.021	66.375	0.001	18.021	0.000	66.375	0.001	18.019	0.002
.001	2600	9.066	67.101	19.831	67.100	0.001	19.831	0.000	67.100	0.001	19.830	0.001
.000	2800	9.092	67.773	21.647	67.772	0.001	21.646	0.001	67.773	0.000	21.647	0.000
.002	3000	9.116	68.402	23.468	68.401	0.001	23.467	0.001	68.402	0.000	23.470	-0.002
.003	3000	9.116	68.402	23.468	68.401	0.001	23.467	0.001	68.402	0.000	23.470	-0.002
.000	3200	9.139	68.991	25.293	68.990	0.001	25.293	-0.000	68.990	0.001	25.294	-0.001
.000	3400	9.160	69.545	27.123	69.544	0.001	27.123	-0.000	69.545	0.000	27.123	0.000
.001	3600	9.181	70.069	28.957	70.069	0.000	28.957	-0.001	70.069	0.000	28.956	0.001
.001	3800	9.200	70.566	30.795	70.566	0.000	30.796	-0.001	70.566	0.000	30.794	0.001
.002	4000	9.220	71.039	32.637	71.038	0.001	32.638	-0.001	71.038	0.001	32.636	0.001
.002	4200	9.238	71.489	34.483	71.488	0.001	34.484	-0.001	71.488	0.001	34.482	0.001
.001	4400	9.256	71.919	36.332	71.919	0.000	36.333	-0.001	71.919	0.000	36.332	-0.000
.000	4600	9.274	72.331	38.186	72.330	0.001	38.186	0.000	72.331	0.000	38.186	0.000
.000	4800	9.292	72.726	40.042	72.725	0.001	40.042	-0.000	72.726	0.000	40.042	-0.000
.000	5000	9.309	73.106	41.902	73.105	0.001	41.902	-0.000	73.105	0.001	41.903	-0.001
.000	5200	9.326	73.471	43.766	73.470	0.001	43.765	0.001	73.471	0.000	43.766	-0.000
.001	5400	9.343	73.824	45.633	73.823	0.001	45.632	0.001	73.823	0.001	45.633	-0.000
.000	5600	9.360	74.164	47.503	74.163	0.001	47.503	0.000	74.163	0.001	47.504	-0.001
.000	5800	9.377	74.492	49.377	74.492	0.000	49.377	0.000	74.492	0.000	49.377	0.000
.001	6000	9.394	74.811	51.254	74.810	0.001	51.255	-0.001	74.810	0.001	51.253	0.001

BERYLLIUM DIFLUORIDE (G) BE 1F 2 0 0 0 0 670
 MOL. WT.= 47.000 BLOCK= 489 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -190.250 KEY = 92
 BITS FOR NOTS RMS = 0.006148
 4 2 9 0 0 0 0 0 0 BERYLLIUM DIFLUORIDE (G) 10J 670 92
 .4441834E+1+2.8322958E-1-6.2027994E-2+4.6050883E-3 400 6000 11J 670 92
 .8526611E-1-1.9627310E+2+6.9200424E+1-1.9025000E+2BEF2 (G) 12J 670 92

BITS FOR EST RMS LOW = 0.009161 RMS HIGH = 0.004510
 4 2 9 0 0 0 0 0 0 BERYLLIUM DIFLUORIDE (G) 10BEF2
 .00250+6+383116+5+146156+2+907653-4-617056+6+857129+2 4003000J 67011BEF2
 .00250+6+383109+5+150013+2-144347-4-163891+7+857129+230006000J 67012BEF2

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.00	00	11.955	57.747	1.176	57.905	-0.158	1.238	-0.062	57.922	-0.175	1.247	-0.071	40
0.040	00	13.038	62.819	3.685	62.795	0.024	3.664	0.021	62.795	0.024	3.665	0.020	60
0.012	00	13.663	66.664	6.361	66.643	0.021	6.342	0.019	66.643	0.021	6.343	0.018	80
0.010	00	14.036	69.756	9.134	69.747	0.009	9.126	0.008	69.749	0.007	9.129	0.005	100
0.002	00	14.269	72.337	11.966	72.335	0.002	11.965	0.001	72.337	-0.000	11.969	-0.003	120
0.002	00	14.422	74.549	14.837	74.549	0.000	14.839	-0.002	74.552	-0.003	14.842	-0.005	140
0.003	00	14.527	76.482	17.732	76.482	-0.001	17.735	-0.003	76.485	-0.003	17.737	-0.005	160
0.003	00	14.602	78.198	20.645	78.198	0.000	20.648	-0.003	78.199	-0.001	20.649	-0.004	180
0.002	00	14.656	79.739	23.571	79.739	0.000	23.573	-0.002	79.739	0.000	23.572	-0.001	200
0.001	00	14.698	81.138	26.507	81.137	0.001	26.507	-0.000	81.137	0.001	26.505	0.002	220
0.001	00	14.729	82.419	29.450	82.417	0.002	29.449	0.001	82.416	0.003	29.447	0.003	240
0.002	00	14.755	83.599	32.398	83.597	0.002	32.397	0.001	83.597	0.002	32.395	0.003	260
0.001	00	14.775	84.693	35.351	84.691	0.002	35.350	0.001	84.692	0.001	35.351	0.000	280
0.000	00	14.791	85.713	38.308	85.711	0.002	38.307	0.001	85.713	0.000	38.312	-0.004	300
0.002	00	14.791	85.713	38.308	85.711	0.002	38.307	0.001	85.713	0.000	38.311	-0.003	300
0.002	00	14.804	86.668	41.267	86.666	0.002	41.267	0.000	86.667	0.001	41.268	-0.001	320
0.001	00	14.815	87.566	44.229	87.564	0.002	44.229	-0.001	87.565	0.001	44.229	0.000	340
0.000	00	14.825	88.413	47.194	88.411	0.002	47.194	-0.000	88.412	0.001	47.192	0.002	360
0.001	00	14.833	89.214	50.159	89.213	0.001	50.160	-0.001	89.213	0.001	50.158	0.001	380
0.001	00	14.840	89.975	53.127	89.974	0.001	53.128	-0.001	89.974	0.001	53.125	0.002	400
0.001	00	14.846	90.700	56.095	90.698	0.002	56.096	-0.001	90.699	0.001	56.094	0.001	420
0.001	00	14.851	91.390	59.065	91.389	0.001	59.066	-0.001	91.389	0.001	59.064	0.001	440
0.000	00	14.855	92.051	62.035	92.049	0.002	62.036	-0.001	92.050	0.001	62.035	-0.000	460
0.000	00	14.859	92.683	65.007	92.681	0.002	65.007	0.000	92.682	0.001	65.007	-0.000	480
0.000	00	14.863	93.290	67.979	93.288	0.002	67.979	0.000	93.289	0.001	67.979	-0.001	500
0.001	00	14.866	93.873	70.952	93.871	0.002	70.951	0.001	93.872	0.001	70.952	-0.000	520
0.000	00	14.868	94.434	73.925	94.432	0.002	73.924	0.001	94.433	0.001	73.926	-0.001	540
0.001	00	14.871	94.974	76.899	94.973	0.001	76.898	0.001	94.974	0.000	76.899	-0.000	560
0.000	00	14.873	95.496	79.873	95.495	0.001	79.873	-0.000	95.495	0.001	79.873	0.000	580
0.000	00	14.875	96.001	82.848	95.999	0.002	82.850	-0.002	95.999	0.001	82.847	0.001	600

BERYLLIUM MONOHYDRIDE

(G) BE 1H 1

363

MOL. WT. = 10.020 BLOCK = 496 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 76.768 KEY = 93

FITS FOR NOTS RMS = 0.009463

1 1 1 4 0 0 0 0 0 0 BERYLLIUM MONOHYDRIDE (G) 10J 363 93
 +8.0065364E+0+6.9610607E-1-1.1712610E-1+8.4731504E-3 400 6000 11J 363 93
 -4.0867614E-1+7.3295959E+1+5.0312423E+1+7.6767990E+1BEH(G) 12J 363 93

FITS FOR EST RMS LOW = 0.015134 RMS HIGH = 0.003031

1 1 1 4 0 0 0 0 0 0 BERYLLIUM MONOHYDRIDE (G) 10BEH
 +767679+5+229432+5+835052+1+325920-3-475424+6+607719+2 4003000J 36311BEH
 +767679+5+229384+5+900576+1+134525-3-178552+7+607719+230006000J 36312BEH

-----NOTS-----

-----EST-----

DR KC/M	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
7 -0.071	400	7.060	44.298	0.715	44.522	-0.224	0.806	-0.091	44.558	-0.260	0.821	-0.106
5 0.020	600	7.393	47.217	2.157	47.187	0.030	2.130	0.027	47.184	0.033	2.128	0.029
3 0.018	800	7.785	49.398	3.675	49.366	0.032	3.648	0.027	49.363	0.035	3.646	0.029
9 0.005	1000	8.111	51.172	5.266	51.157	0.015	5.254	0.012	51.157	0.015	5.255	0.011
9 -0.003	1200	8.361	52.674	6.915	52.670	0.004	6.914	0.001	52.672	0.002	6.918	-0.003
2 -0.005	1400	8.550	53.978	8.607	53.978	-0.000	8.612	-0.005	53.981	-0.003	8.616	-0.009
7 -0.005	1600	8.697	55.130	10.332	55.131	-0.001	10.339	-0.007	55.133	-0.003	10.342	-0.010
9 -0.004	1800	8.813	56.161	12.083	56.161	-0.000	12.089	-0.006	56.162	-0.001	12.090	-0.007
2 -0.001	2000	8.908	57.094	13.856	57.094	0.000	13.859	-0.003	57.093	0.001	13.857	-0.001
5 0.002	2200	8.988	57.947	15.645	57.946	0.001	15.647	-0.002	57.944	0.003	15.643	0.002
7 0.003	2400	9.057	58.732	17.450	58.730	0.002	17.449	0.001	58.728	0.004	17.445	0.005
5 0.003	2600	9.118	59.460	19.267	59.457	0.003	19.266	0.001	59.455	0.005	19.262	0.005
1 0.000	2800	9.172	60.137	21.097	60.134	0.003	21.094	0.003	60.135	0.002	21.095	0.002
2 -0.004	3000	9.222	60.772	22.936	60.769	0.003	22.934	0.002	60.772	0.000	22.943	-0.007
1 -0.003	3000	9.222	60.772	22.936	60.769	0.003	22.934	0.002	60.772	0.000	22.938	-0.002
8 -0.001	3200	9.269	61.369	24.785	61.366	0.003	24.783	0.002	61.368	0.001	24.786	-0.001
9 0.000	3400	9.312	61.932	26.643	61.929	0.003	26.642	0.001	61.931	0.001	26.643	0.000
2 0.002	3600	9.354	62.465	28.510	62.463	0.002	28.510	0.000	62.464	0.001	28.509	0.001
8 0.001	3800	9.393	62.972	30.385	62.970	0.002	30.386	-0.001	62.971	0.001	30.384	0.001
5 0.002	4000	9.431	63.455	32.267	63.453	0.002	32.269	-0.002	63.454	0.001	32.266	0.001
4 0.001	4200	9.468	63.916	34.157	63.914	0.002	34.159	-0.002	63.915	0.001	34.156	0.001
4 0.001	4400	9.504	64.357	36.054	64.355	0.002	36.056	-0.002	64.356	0.001	36.054	0.000
5 -0.000	4600	9.539	64.780	37.959	64.778	0.002	37.960	-0.001	64.780	0.000	37.959	0.000
7 -0.000	4800	9.573	65.187	39.870	65.185	0.002	39.870	-0.000	65.186	0.001	39.870	0.000
9 -0.001	5000	9.606	65.579	41.788	65.576	0.003	41.787	0.001	65.578	0.001	41.788	-0.000
2 -0.000	5200	9.639	65.956	43.712	65.953	0.003	43.711	0.001	65.955	0.001	43.713	-0.001
6 -0.001	5400	9.672	66.320	45.643	66.318	0.002	45.642	0.001	66.320	0.000	45.644	-0.001
9 -0.000	5600	9.704	66.673	47.581	66.670	0.003	47.579	0.002	66.672	0.001	47.581	-0.000
3 0.000	5800	9.736	67.014	49.525	67.011	0.003	49.524	0.001	67.013	0.001	49.525	0.000
7 0.001	6000	9.767	67.344	51.475	67.342	0.002	51.477	-0.002	67.343	0.001	51.474	0.001

963

$$\begin{array}{r} 2 \\ +1 \\ -1 \end{array}$$
$$\begin{array}{r} 2 \\ + 3 \\ + 3 \end{array}$$

-----NOTS-----										-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.106	100	8.722	55.769	0.862	56.154	-0.385	1.020	-0.158	56.289	-0.520	1.078	-0.216	4
0.029	100	9.760	59.507	2.713	59.471	0.036	2.676	0.037	59.456	0.051	2.663	0.049	6
0.029	100	10.565	62.431	4.749	62.374	0.057	4.699	0.050	62.354	0.077	4.685	0.064	8
0.011	100	11.179	64.857	6.926	64.825	0.032	6.898	0.028	64.818	0.038	6.896	0.030	10
-0.003	100	11.662	66.940	9.212	66.928	0.012	9.207	0.005	66.931	0.009	9.214	-0.002	12
-0.009	100	12.046	68.768	11.585	68.766	0.002	11.593	-0.008	68.772	-0.004	11.605	-0.020	14
-0.010	100	12.352	70.397	14.026	70.399	-0.002	14.039	-0.013	70.404	-0.007	14.049	-0.023	16
-0.007	100	12.596	71.866	16.521	71.868	-0.002	16.534	-0.013	71.870	-0.004	16.538	-0.017	18
-0.001	100	12.791	73.204	19.061	73.204	0.000	19.070	-0.009	73.201	0.003	19.066	-0.005	20
0.002	100	12.950	74.431	21.635	74.428	0.003	21.639	-0.004	74.423	0.008	21.629	0.006	22
0.005	100	13.078	75.563	24.238	75.559	0.004	24.238	-0.000	75.552	0.011	24.225	0.013	24
0.005	100	13.184	76.614	26.865	76.609	0.005	26.861	0.004	76.603	0.011	26.851	0.014	26
0.002	100	13.272	77.595	29.511	77.588	0.007	29.505	0.006	77.587	0.008	29.507	0.004	28
-0.007	100	13.345	78.513	32.173	78.506	0.007	32.167	0.006	78.513	0.000	32.192	-0.019	30
-0.002	100	13.345	78.513	32.173	78.506	0.007	32.167	0.006	78.513	0.000	32.176	-0.003	30
-0.001	100	13.407	79.376	34.848	79.370	0.006	34.843	0.005	79.375	0.001	34.849	-0.001	32
0.000	100	13.460	80.191	37.535	80.185	0.006	37.532	0.003	80.189	0.002	37.534	0.001	34
0.001	100	13.505	80.961	40.232	80.956	0.005	40.230	0.001	80.960	0.001	40.230	0.002	36
0.001	100	13.543	81.692	42.937	81.688	0.004	42.938	-0.001	81.691	0.001	42.935	0.002	38
0.001	100	13.577	82.388	45.649	82.384	0.004	45.651	-0.003	82.387	0.001	45.647	0.002	40
0.001	100	13.606	83.051	48.367	83.047	0.004	48.371	-0.004	83.050	0.001	48.366	0.001	42
0.000	100	13.632	83.685	51.091	83.681	0.004	51.095	-0.004	83.684	0.001	51.090	0.001	44
0.000	100	13.654	84.291	53.819	84.287	0.004	53.823	-0.004	84.290	0.001	53.819	-0.000	46
0.000	100	13.674	84.873	56.552	84.869	0.004	56.554	-0.002	84.872	0.001	56.553	-0.001	48
-0.000	100	13.692	85.431	59.289	85.427	0.004	59.289	0.000	85.430	0.001	59.290	-0.001	50
-0.001	100	13.708	85.969	62.029	85.964	0.005	62.027	0.002	85.968	0.001	62.030	-0.001	52
-0.001	100	13.722											

BERYLLIUM DIHYDRIDE (G) BE 1H 2 1260
 MOL. WT.= 11.020 BLOCK= 508 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 30.000 KEY = 95
 FITS FOR NOTS RMS = 0.024611
 2 1 1 4 0 0 0 0 0 0 BERYLLIUM DIHYDRIDE (G) 10J1260 95
 +1.2692868E+1+1.3191595E+0-2.8191643E-1+2.0496949E-2 400 6000 11J1260 95
 -1.4595642E+0+2.2192718E+1+5.0745620E+1+3.0000000E+1BEH2 (G) 12J1260 95

FITS FOR EST RMS LOW = 0.038957 RMS HIGH = 0.004492
 2 1 1 4 0 0 0 0 0 0 BERYLLIUM DIHYDRIDE (G) 10BEH2
 +300000+5+345958+5+135179+2+430460-3-161902+7+676529+2 4003000J126011BEH2
 +300000+5+345818+5+149896+2-128450-4-421923+7+676529+230006000J126012BEH2

H C/M	-----NOTS-----												-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M				
.216	400	7.943	43.571	0.771	44.182	-0.611	1.018	-0.247	44.266	-0.695	1.054	-0.283				
.049	600	9.667	47.117	2.532	47.031	0.086	2.459	0.073	47.022	0.095	2.452	0.080				
.064	800	11.098	50.105	4.616	50.022	0.083	4.548	0.068	50.013	0.092	4.541	0.075				
.030	1000	12.102	52.696	6.943	52.660	0.036	6.916	0.027	52.661	0.035	6.917	0.026				
.002	1200	12.788	54.967	9.436	54.958	0.009	9.438	-0.002	54.964	0.003	9.446	-0.010				
.020	1400	13.264	56.977	12.044	56.978	-0.001	12.060	-0.016	56.985	-0.008	12.069	-0.025				
.023	1600	13.603	58.771	14.733	58.774	-0.003	14.751	-0.018	58.779	-0.008	14.757	-0.024				
.017	1800	13.849	60.388	17.479	60.389	-0.001	17.493	-0.015	60.391	-0.003	17.494	-0.015				
.005	2000	14.034	61.858	20.268	61.855	0.003	20.277	-0.009	61.854	0.004	20.272	-0.004				
.006	2200	14.175	63.202	23.090	63.197	0.005	23.092	-0.002	63.193	0.009	23.082	0.008				
.013	2400	14.285	64.440	25.936	64.433	0.007	25.934	0.002	64.429	0.011	25.923	0.013				
.014	2600	14.372	65.587	28.802	65.579	0.008	28.797	0.005	65.576	0.011	28.790	0.012				
.004	2800	14.442	66.655	31.684	66.646	0.009	31.677	0.007	66.648	0.007	31.681	0.003				
.019	3000	14.500	67.653	34.578	67.645	0.008	34.572	0.006	67.653	0.000	34.596	-0.018				
.003	3000	14.500	67.653	34.578	67.645	0.008	34.572	0.006	67.653	0.000	34.582	-0.004				
.001	3200	14.547	68.591	37.483	68.582	0.009	37.478	0.005	68.589	0.002	37.484	-0.001				
.001	3400	14.587	69.474	40.397	69.466	0.008	40.394	0.003	69.472	0.002	40.396	0.001				
.002	3600	14.620	70.309	43.317	70.302	0.007	43.317	0.000	70.307	0.002	43.316	0.001				
.002	3800	14.649	71.100	46.244	71.093	0.007	46.246	-0.002	71.098	0.002	46.243	0.001				
.002	4000	14.673	71.852	49.177	71.846	0.006	49.180	-0.003	71.850	0.002	49.175	0.002				
.001	4200	14.694	72.568	52.113	72.562	0.006	52.118	-0.005	72.566	0.002	52.112	0.001				
.001	4400	14.713	73.252	55.054	73.246	0.006	55.058	-0.004	73.250	0.002	55.053	0.001				
.000	4600	14.729	73.907	57.998	73.901	0.006	58.001	-0.003	73.905	0.002	57.998	0.000				
.001	4800	14.743	74.534	60.945	74.527	0.007	60.947	-0.002	74.532	0.002	60.946	-0.001				
.001	5000	14.755	75.136	63.895	75.129	0.007	63.895	0.000	75.134	0.002	63.896	-0.001				
.001	5200	14.766	75.715	66.847	75.708	0.007	66.845	0.002	75.713	0.002	66.848	-0.001				
.001	5400	14.776	76.272	69.802	76.265	0.007	69.798	0.004	76.271	0.001	69.802	-0.000				
.000	5600	14.785	76.810	72.758	76.802	0.008	72.754	0.004	76.808	0.002	72.758	-0.000				
.000	5800	14.793	77.329	75.716	77.322	0.007	75.715	0.001	77.327	0.002	75.715	0.000				
.001	6000	14.800	77.830	78.675	77.825	0.005	78.681	-0.006	77.829	0.001	78.674	0.001				

BERYLLIUM HYDROXIDE (G) BE 1H 20 2 0 0 0 367 B
 MOL. WT.= 43.020 BLOCK= 515 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -156.400 KEY = 97 DA
 FITS FOR NOTS RMS = 0.036516 FI
 1 1 4 2 8 0 0 0 0 BERYLLIUM HYDROXIDE (G) 10J 367 97 1
 .0192092E+1+3.1464729E+0-6.4240944E-1+4.5211657E-2 400 6000 11J 367 97 +1.0
 .6389160E+0-1.6703874E+2+7.6369674E+1-1.5639999E+2BEH2O2 (G) 12J 367 97 -6.1

 FITS FOR EST RMS LOW = 0.063676 RMS HIGH = 0.007700 FI
 1 1 4 2 8 0 0 0 0 BERYLLIUM HYDROXIDE (G) 10BEH2O2 1
 56399+6+598220+5+221889+2+106229-2-204638+7+105611+3 4003000J 36711BEH2O2 -145
 56399+6+597941+5+258905+2-113263-4-904217+7+105611+330006000J 36712BEH2O2 -145

-----NOTS-----													-----EST-----													T
CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	SC	DH	T													
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K														
00	15.284	63.444	1.463	64.198	-0.754	1.774	-0.311	64.423	-0.979	1.869	-0.406	400														
0.283	17.899	70.178	4.802	70.107	0.071	4.730	0.072	70.079	0.099	4.708	0.094	600														
0.080	19.605	75.576	8.563	75.464	0.112	8.465	0.098	75.432	0.144	8.442	0.121	800														
0.075	20.852	80.091	12.614	80.029	0.062	12.563	0.051	80.020	0.071	12.559	0.055	1000														
0.026	21.805	83.981	16.884	83.959	0.022	16.876	0.008	83.965	0.016	16.890	-0.006	1200														
0.010	22.542	87.400	21.322	87.399	0.001	21.340	-0.018	87.410	-0.010	21.360	-0.038	1400														
0.025	23.114	90.449	25.890	90.454	-0.005	25.917	-0.027	90.463	-0.014	25.934	-0.044	1600														
0.024	23.561	93.198	30.559	93.202	-0.004	30.585	-0.026	93.205	-0.007	30.591	-0.032	1800														
0.015	23.914	95.700	35.308	95.699	0.001	35.326	-0.018	95.695	0.005	35.318	-0.010	2000														
0.004	24.195	97.993	40.120	97.988	0.005	40.128	-0.008	97.978	0.015	40.109	0.011	2200														
0.008	24.422	100.108	44.983	100.099	0.009	44.982	0.001	100.087	0.021	44.958	0.025	2400														
0.013	24.606	102.070	49.886	102.059	0.011	49.879	0.007	102.049	0.021	49.862	0.024	2600														
0.012	24.758	103.900	54.823	103.887	0.013	54.813	0.010	103.885	0.015	54.817	0.006	2800														
0.003	24.884	105.612	59.788	105.599	0.013	59.777	0.011	105.612	0.000	59.822	-0.034	3000														
0.018	24.884	105.612	59.788	105.599	0.013	59.777	0.011	105.612	0.000	59.794	-0.006	3200														
0.004	24.990	107.222	64.775	107.210	0.012	64.766	0.009	107.220	0.002	64.777	-0.002	3400														
0.001	25.079	108.739	69.783	108.728	0.011	69.777	0.006	108.737	0.002	69.781	0.002															
0.001	25.155	110.175	74.806	110.165	0.010	74.805	0.001	110.172	0.003	74.804	0.002															
0.001	25.221	111.537	79.844	111.528	0.009	79.847	-0.003	111.534	0.003	79.841	0.003															
0.001	25.277	112.832	84.894	112.824	0.008	84.900	-0.006	112.829	0.003	84.892	0.002															
0.002	25.327	114.067	89.955	114.059	0.008	89.962	-0.007	114.064	0.003	89.953	0.002															
0.001	25.370	115.246	95.024	115.238	0.008	95.032	-0.008	115.243	0.003	95.023	0.001															
0.001	25.407	116.374	100.102	116.367	0.007	100.108	-0.006	116.372	0.002	100.102	0.000															
0.000	25.441	117.456	105.187	117.448	0.008	105.190	-0.003	117.454	0.002	105.187	-0.000															
0.001	25.471	118.496	110.278	118.486	0.010	110.278	0.000	118.493	0.003	110.279	-0.001															
0.001	25.497	119.495	115.375	119.485	0.010	115.371	0.004	119.493	0.002	115.376	-0.001															
0.001	25.521	120.458	120.477	120.447	0.011	120.470	0.007	120.456	0.002	120.478	-0.001															
0.000	25.542	121.386	125.583	121.376	0.010	125.576	0.007	121.384	0.002	125.584	-0.001															
0.000	25.561	122.283	130.694	122.273	0.010	130.692	0.002	122.281	0.002	130.693	0.001															
0.000	25.579	123.150	135.808	123.142	0.008	135.819	-0.011	123.147	0.003	135.806	0.002															


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BERYLLIUM OXIDE,ALPHA (C) BE 10 1 0 0 0 0 671
MOL. WT.= 25.010 BLOCK= 522 NO. POINT = 37
DATA FROM 0 TO 3500 K HFORM(KCAL/(MOLE)) = -145.400 KEY = 98
FITS FOR NOTS RMS = 0.001966
1 4 1 8 0 0 0 0 0 0 0 BERYLLIUM OXIDE,ALPHA (C) 30J 671 98
+1.0883911E+1+1.6971187E+0-2.0206958E-1+2.4573221E-2 400 3500 31J 671 98
-6.1029052E-1-1.5067097E+2+1.2814668E+1-1.4539999E+2BEO(C) 32J 671 98

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FITS FOR EST      RMS LOW =      0.005530 RMS  HIGH =      0.005530
 1  4  1  8  0  0  0  0  0  0  0 BERYLLIUM OXIDE,ALPHA      (C) 30BE0$
-145399+6+338993+5+113941+2+114780-2-727616+6+292089+2 4003500J 67131BE0$
-145399+6+338993+5+113941+2+114780-2-727616+6+292089+2 4003500J 67132BE0$

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[illegible]

BERYLLIUM OXIDE (L) BE 10 1 0 0 0 0 671
 MOL. WT.= 25.010 BLOCK= 526 NO. POINT = 49
 DATA FROM 298 TO 5000 K HFORM(KCAL/(MOLE)) = -130.594 KEY = 99
 FITS FOR NOTS RMS = 0.105166
 4 1 8 0 0 0 0 0 0 0 BERYLLIUM OXIDE (L) 20J 671 99
 .2308387E+0+1.0087354E+1-2.8233318E+0+2.5761485E-1 400 5000 21J 671 99
 .5341186E-1-1.3038206E+2+1.1710036E+1-1.3059399E+2BEO(L) 22J 671 99

BERY
 MOL
 DATA
 FITS
 1 4 1
 +8.5487
 -3.6740

FITS FOR EST RMS LOW = 0.263204 RMS HIGH = 0.263204
 4 1 8 0 0 0 0 0 0 0 BERYLLIUM OXIDE (L) 20BEO*
 30593+6+348950+5+155160+2-632708-4-362560+7+351059+2 4005000J 67121BEO*
 30593+6+348950+5+155160+2-632708-4-362560+7+351059+2 4005000J 67122BEO*

FITS
 1 4 1
 +310000
 +310000

-----NOTS-----												-----EST-----											
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T											
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K											
400	8.070	10.835	0.729	10.522	0.313	0.619	0.110	15.136	-4.301	2.688	-1.959	400											
600	10.124	14.551	2.576	14.715	-0.164	2.682	-0.106	15.120	-0.569	2.764	-0.188	600											
800	11.150	17.618	4.713	17.689	-0.071	4.752	-0.039	17.368	0.250	4.348	0.365	800											
1000	11.786	20.178	7.010	20.145	0.033	6.956	0.054	19.798	0.380	6.533	0.477	1000											
1200	12.248	22.370	9.416	22.293	0.077	9.315	0.101	22.060	0.310	9.018	0.398	1200											
1400	12.622	24.287	11.904	24.221	0.065	11.819	0.085	24.105	0.182	11.673	0.231	1400											
1600	12.945	25.994	14.461	25.979	0.015	14.452	0.009	25.948	0.046	14.434	0.027	1600											
1800	13.239	27.535	17.080	27.592	-0.057	17.193	-0.113	27.614	-0.079	17.264	-0.184	1800											
2000	15.000	29.024	19.911	29.083	-0.059	20.023	-0.112	29.130	-0.106	20.141	-0.230	2000											
2200	15.000	30.454	22.911	30.464	-0.010	22.922	-0.011	30.517	-0.063	23.053	-0.142	2200											
2400	15.000	31.759	25.911	31.747	0.012	25.872	0.039	31.795	-0.036	25.990	-0.079	2400											
2600	15.000	32.960	28.911	32.942	0.018	28.858	0.053	32.978	-0.018	28.945	-0.034	2600											
2800	15.000	34.071	31.911	34.057	0.014	31.867	0.044	34.078	-0.007	31.915	-0.004	2800											
3000	15.000	35.106	34.911	35.099	0.007	34.886	0.025	35.106	0.000	34.895	0.016	3000											
3200	15.000	36.074	37.911	36.074	0.000	37.909	0.002	36.070	0.004	37.884	0.027	3200											
3400	15.000	36.984	40.911	36.989	-0.005	40.927	-0.016	36.978	0.006	40.878	0.033	3400											
3600	15.000	37.841	43.911	37.849	-0.008	43.936	-0.025	37.835	0.006	43.878	0.033	3600											
3800	15.000	38.652	46.911	38.660	-0.008	46.936	-0.025	38.647	0.005	46.881	0.030	3800											
4000	15.000	39.422	49.911	39.427	-0.005	49.927	-0.016	39.418	0.004	49.888	0.023	4000											
4200	15.000	40.153	52.911	40.155	-0.002	52.912	-0.001	40.152	0.001	52.896	0.015	4200											
4400	15.000	40.851	55.911	40.849	0.002	55.896	0.015	40.852	-0.001	55.905	0.006	4400											
4600	15.000	41.518	58.911	41.514	0.004	58.888	0.023	41.521	-0.003	58.916	-0.005	4600											
4800	15.000	42.156	61.911	42.155	0.001	61.899	0.012	42.162	-0.006	61.927	-0.016	4800											
5000	15.000	42.769	64.911	42.776	-0.007	64.941	-0.030	42.777	-0.008	64.938	-0.027	5000											
5200												5200											
5400												5400											
5600												5600											
5800												5800											
6000												6000											

BERYLLIUM OXIDE

(G) BE 10 1

963

MOL. WT.= 25.010 BLOCK= 531 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 31.000 KEY = 100

FITS FOR NOTS RMS = 0.005137

1 4 1 8 0 0 0 0 0 0 0 BERYLLIUM OXIDE (G) 10J 963 100
 +8.5487365E+0+3.0846810E-1-5.2184242E-2+3.8465410E-3 400 6000 11J 963 100
 -3.6740112E-1+2.7418075E+1+5.6003326E+1+3.1000000E+1BEO(G) 12J 963 100

FITS FOR EST RMS LOW = 0.007776 RMS HIGH = 0.003006

1 4 1 8 0 0 0 0 0 0 0 BERYLLIUM OXIDE (G) 10BEO
 +310000+5+231873+5+869528+1+146495-3-394256+6+661419+2 4003000J 96311BEO
 +310000+5+231861+5+900795+1+587749-4-115385+7+661419+230006000J 96312BEO

-----NOTS-----

-----EST-----

M	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
59	400	7.254	49.306	0.727	49.438	-0.132	0.780	-0.053	49.451	-0.145	0.786	-0.059
88	600	7.757	52.343	2.229	52.323	0.020	2.212	0.017	52.322	0.021	2.211	0.018
65	800	8.145	54.631	3.822	54.613	0.018	3.807	0.015	54.613	0.018	3.807	0.015
77	1000	8.402	56.478	5.478	56.471	0.007	5.472	0.006	56.471	0.007	5.474	0.004
98	1200	8.575	58.026	7.177	58.024	0.002	7.177	0.000	58.026	0.000	7.179	-0.002
31	1400	8.695	59.358	8.905	59.358	0.000	8.907	-0.002	59.359	-0.001	8.909	-0.004
27	1600	8.782	60.525	10.653	60.525	-0.000	10.656	-0.003	60.526	-0.001	10.657	-0.004
84	1800	8.848	61.563	12.416	61.563	-0.000	12.418	-0.002	61.563	-0.000	12.419	-0.003
30	2000	8.901	62.498	14.191	62.498	0.000	14.192	-0.001	62.497	0.001	14.192	-0.001
42	2200	8.944	63.349	15.976	63.348	0.001	15.976	-0.000	63.347	0.002	15.974	0.002
79	2400	8.981	64.129	17.768	64.127	0.002	17.768	0.000	64.126	0.003	17.766	0.002
34	2600	9.013	64.849	19.568	64.847	0.002	19.567	0.001	64.846	0.003	19.565	0.003
04	2800	9.041	65.518	21.373	65.516	0.002	21.372	0.001	65.516	0.002	21.373	0.000
16	3000	9.066	66.142	23.184	66.141	0.001	23.183	0.001	66.142	0.000	23.187	-0.003
27	3000	9.066	66.142	23.184	66.141	0.001	23.183	0.001	66.142	0.000	23.186	-0.002
33	3200	9.090	66.728	25.000	66.727	0.001	24.999	0.001	66.727	0.001	25.000	-0.000
33	3400	9.111	67.280	26.820	67.279	0.001	26.820	0.000	67.279	0.001	26.819	0.001
30	3600	9.132	67.801	28.644	67.800	0.001	28.644	-0.000	67.800	0.001	28.643	0.001
23	3800	9.151	68.296	30.472	68.294	0.002	30.473	-0.001	68.294	0.002	30.471	0.001
15	4000	9.170	68.765	32.305	68.764	0.001	32.306	-0.001	68.764	0.001	32.304	0.001
06	4200	9.188	69.213	34.140	69.212	0.001	34.141	-0.001	69.212	0.001	34.140	0.000
05	4400	9.205	69.641	35.980	69.640	0.001	35.981	-0.001	69.640	0.001	35.979	0.001
16	4600	9.222	70.051	37.822	70.049	0.002	37.823	-0.001	70.050	0.001	37.822	-0.000
27	4800	9.239	70.443	39.669	70.442	0.001	39.669	0.000	70.442	0.001	39.669	0.000
	5000	9.255	70.821	41.518	70.820	0.001	41.518	0.000	70.820	0.001	41.518	-0.000
	5200	9.271	71.184	43.371	71.183	0.001	43.370	0.001	71.183	0.001	43.371	-0.000
	5400	9.287	71.534	45.226	71.533	0.001	45.225	0.001	71.533	0.001	45.227	-0.001
	5600	9.302	71.872	47.085	71.871	0.001	47.084	0.001	71.871	0.001	47.085	-0.000
	5800	9.318	72.199	48.947	72.196	0.001	48.947	0.000	72.198	0.001	48.947	0.000
	6000	9.333	72.515	50.812	72.514	0.001	50.813	-0.001	72.514	0.001	50.811	0.001

BERYLLIUM CARBIDE (C) C 1BE 2 663
 MOL. WT. = 30.030 BLOCK = 537 NO. POINT = 34
 DATA FROM 298 TO 3500 K HFORM(KCAL/(MOLE)) = -21.700 KEY = 101
 FITS FOR NOTS RMS = 0.057050
 2 4 1 6 0 0 0 0 0 0 0 BERYLLIUM CARBIDE (C) 30J 663 101
 +6.1001586E+0+1.9697509E+1-7.8684711E+0+1.0278406E+0 400 3500 31J 663 101
 -9.4134521E-1-2.6568069E+1+3.0666189E+0-2.1699996E+1CBE2 (C) 32J 663 101

BERYLLI
 MOL. W
 DATA PRO
 FITS FOR
 2 4 1 6
 +4.0127868
 -6.6659545

FITS FOR EST RMS LOW = 0.129968 RMS HIGH = 0.129968
 2 4 1 6 0 0 0 0 0 0 0 BERYLLIUM CARBIDE (C) 30CBE2\$
 -216999+5+523901+5+233338+2-225629-3-436865+7+427649+2 4003500J 66331CBE2\$
 -216999+5+523901+5+233338+2-225629-3-436865+7+427649+2 4003500J 66332CBE2\$

FITS FOR
 2 4 1 6
 -379799+4+
 -379799+4+

-----NOTS-----												-----EST-----											
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	CP	S	H	SC	DS	HC	DH	T	CP	S	H
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K	C/M-K	KC/M
400	11.380	7.084	1.106	7.690	-0.606	1.340	-0.234	9.746	-2.662	2.185	-1.079	400	11.380	7.084	1.106	7.690	-0.606	1.340	-0.234	400	11.380	7.084	1.106
600	12.402	11.891	3.484	11.734	0.157	3.373	0.111	11.577	0.314	3.189	0.295	600	12.402	11.891	3.484	11.734	0.157	3.373	0.111	600	12.402	11.891	3.484
800	15.465	15.976	6.339	15.856	0.120	6.254	0.085	15.590	0.386	6.004	0.335	800	15.465	15.976	6.339	15.856	0.120	6.254	0.085	800	15.465	15.976	6.339
1000	17.507	19.646	9.636	19.643	0.003	9.656	-0.020	19.523	0.123	9.537	0.099	1000	17.507	19.646	9.636	19.643	0.003	9.656	-0.020	1000	17.507	19.646	9.636
1200	19.550	23.019	13.342	23.069	-0.050	13.419	-0.077	23.065	-0.046	13.426	-0.084	1200	19.550	23.019	13.342	23.069	-0.050	13.419	-0.077	1200	19.550	23.019	13.342
1400	20.860	26.142	17.398	26.165	-0.023	17.438	-0.040	26.214	-0.072	17.515	-0.117	1400	20.860	26.142	17.398	26.165	-0.023	17.438	-0.040	1400	20.860	26.142	17.398
1600	21.517	28.976	21.643	28.965	0.011	21.634	0.009	29.024	-0.048	21.724	-0.081	1600	21.517	28.976	21.643	28.965	0.011	21.634	0.009	1600	21.517	28.976	21.643
1800	21.833	31.531	25.983	31.504	0.027	25.946	0.037	31.548	-0.017	26.010	-0.027	1800	21.833	31.531	25.983	31.504	0.027	25.946	0.037	1800	21.833	31.531	25.983
2000	21.922	33.838	30.361	33.812	0.026	30.327	0.034	33.833	0.005	30.349	0.012	2000	21.922	33.838	30.361	33.812	0.026	30.327	0.034	2000	21.922	33.838	30.361
2200	21.961	35.929	34.749	35.915	0.014	34.740	0.009	35.917	0.012	34.722	0.027	2200	21.961	35.929	34.749	35.915	0.014	34.740	0.009	2200	21.961	35.929	34.749
2400	22.000	37.841	39.145	37.838	0.003	39.161	-0.016	37.830	0.011	39.119	0.026	2400	22.000	37.841	39.145	37.838	0.003	39.161	-0.016	2400	22.000	37.841	39.145
2600	22.049	39.604	43.550	39.605	-0.001	43.576	-0.026	39.597	0.007	43.533	0.017	2600	22.049	39.604	43.550	39.605	-0.001	43.576	-0.026	2600	22.049	39.604	43.550
2800	22.094	41.240	47.965	41.237	0.003	47.981	-0.016	41.236	0.004	47.958	0.007	2800	22.094	41.240	47.965	41.237	0.003	47.981	-0.016	2800	22.094	41.240	47.965
3000	22.137	42.765	52.388	42.756	0.009	52.383	0.005	42.765	0.000	52.390	-0.002	3000	22.137	42.765	52.388	42.756	0.009	52.383	0.005	3000	22.137	42.765	52.388
3200	22.177	44.195	56.819	44.180	0.015	56.797	0.022	44.196	-0.001	56.826	-0.007	3200	22.177	44.195	56.819	44.180	0.015	56.797	0.022	3200	22.177	44.195	56.819
3400	22.213	45.541	61.258	45.530	0.011	61.252	0.006	45.542	-0.001	61.264	-0.006	3400	22.213	45.541	61.258	45.530	0.011	61.252	0.006	3400	22.213	45.541	61.258

BERYLLIUM CARBIDE

(L) C 1BE 2

663

MOL. WT.= 30.030 BLOCK= 540 NO. POINT = 34

DATA FROM 298 TO 3500 K HFORM(KCAL/(MOLE)) = -3.798 KEY = 102

FITS FOR NOTS RMS = 0.059686

2 4 1 6 0 0 0 0 0 0 0 BERYLLIUM CARBIDE (L) 20J 663 102
 +4.0127868E+0+2.2509819E+1-9.0449609E+0+1.1782903E+0 400 3500 21J 663 102
 -6.6659545E-1-7.3661603E+0+8.3663911E+0-3.7979993E+0CBE2 (L) 22J 663 102

FITS FOR EST RMS LOW = 0.149375 RMS HIGH = 0.148375

2 4 1 6 0 0 0 0 0 0 0 BERYLLIUM CARBIDE (L) 20CBE2*
 -379799+4+524448+5+239387+2-459151-3-465011+7+502500+2 4003500J 66321CBE2*
 -379799+4+524448+5+239387+2-459151-3-465011+7+502500+2 4003500J 66322CBE2*

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
079	400	11.380	14.529	1.106	15.078	-0.549	1.319	-0.213	17.483	-2.954	2.309	-1.203
295	600	12.402	19.336	3.484	19.204	0.132	3.389	0.095	19.024	0.312	3.176	0.308
335	800	15.465	23.421	6.339	23.305	0.116	6.255	0.084	22.994	0.427	5.961	0.378
099	1000	17.507	27.091	9.636	27.079	0.012	9.645	-0.009	26.936	0.155	9.504	0.132
084	1200	19.550	30.464	13.342	30.506	-0.042	13.410	-0.068	30.498	-0.034	13.416	-0.074
117	1400	20.860	33.587	17.398	33.613	-0.026	17.443	-0.045	33.668	-0.081	17.531	-0.133
081	1600	22.000	36.421	21.643	36.428	-0.007	21.661	-0.018	36.495	-0.074	21.765	-0.122
027	1800	22.000	39.012	26.043	38.982	0.030	25.998	0.045	39.032	-0.020	26.074	-0.031
012	2000	22.000	41.330	30.443	41.301	0.029	30.402	0.041	41.326	0.004	30.429	0.014
027	2200	22.000	43.427	34.843	43.412	0.015	34.831	0.012	43.415	0.012	34.813	0.030
026	2400	22.000	45.341	39.243	45.339	0.002	39.260	-0.017	45.329	0.012	39.213	0.030
017	2600	22.000	47.102	43.643	47.104	-0.002	43.671	-0.028	47.094	0.008	43.622	0.021
007	2800	22.000	48.732	48.043	48.731	0.001	48.061	-0.018	48.728	0.004	48.034	0.009
002	3000	22.000	50.250	52.443	50.241	0.009	52.438	0.005	50.250	0.000	52.445	-0.002
007	3200	22.000	51.670	56.843	51.654	0.016	56.819	0.024	51.672	-0.002	56.851	-0.008
006	3400	22.000	53.004	61.243	52.993	0.011	61.236	0.007	53.005	-0.001	61.250	-0.007

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---DH		-----NOTS-----						-----EST-----						
DH	CP	S	H	SC	ES	HC	DH	SC	DS	HC	DH	T		
KC/M	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K		
-1.203	29.054	99.481	2.891	99.535	-0.054	2.909	-0.018	99.536	-0.055	2.914	-0.023	400		
0.308	30.406	111.561	8.859	111.552	0.009	8.848	0.011	111.555	0.006	8.853	0.005	600		
0.378	30.973	120.396	15.004	120.387	0.009	14.993	0.011	120.391	0.005	14.999	0.005	800		
0.132	31.256	127.342	21.230	127.336	0.006	21.222	0.008	127.339	0.003	21.228	0.002	1000		
-0.074	31.416	133.056	27.498	133.052	0.004	27.493	0.005	133.055	0.001	27.498	-0.000	1200		
-0.133	31.514	137.906	33.792	137.904	0.002	33.788	0.004	137.906	-0.000	33.793	-0.001	1400		
-0.122	31.579	142.119	40.102	142.117	0.001	40.099	0.003	142.119	-0.000	40.103	-0.001	1600		
-0.031	31.624	145.841	46.422	145.840	0.001	46.421	0.001	145.841	-0.000	46.423	-0.001	1800		
0.014	31.656	149.175	52.751	149.174	0.001	52.750	0.001	149.175	0.000	52.751	0.000	2000		
0.030	31.680	152.193	59.084	152.193	-0.000	59.084	-0.000	152.193	0.000	59.084	-0.000	2200		
0.030	31.699	154.951	65.422	154.951	0.000	65.423	-0.001	154.950	0.001	65.422	0.000	2400		
0.021	31.713	157.488	71.764	157.489	-0.001	71.765	-0.001	157.488	0.000	71.763	0.001	2600		
0.009	31.724	159.839	78.107	159.839	-0.000	78.109	-0.002	159.839	0.000	78.107	-0.000	2800		
-0.002	31.734	162.028	84.453	162.029	-0.001	84.455	-0.002	162.028	0.000	84.454	-0.001	3000		
-0.008	31.734	162.028	84.453	162.029	-0.001	84.455	-0.002	162.028	0.000	84.460	-0.007	3000		
-0.007	31.741	164.076	90.801	164.077	-0.001	90.803	-0.002	164.075	0.001	90.802	-0.001	3200		
	31.747	166.001	97.150	166.001	-0.001	97.152	-0.002	165.998	0.003	97.148	0.002	3400		
	31.753	167.816	103.500	167.816	-0.000	103.502	-0.002	167.812	0.004	103.496	0.004	3600		
	31.757	169.533	109.851	169.533	-0.000	109.852	-0.001	169.529	0.004	109.847	0.004	3800		
	31.761	171.162	116.202	171.162	-0.000	116.204	-0.002	171.158	0.004	116.199	0.003	4000		
	31.764	172.711	122.555	172.712	-0.001	122.556	-0.001	172.708	0.003	122.552	0.003	4200		
	31.767	174.189	128.908	174.189	-0.000	128.909	-0.001	174.186	0.003	128.906	0.002	4400		
	31.769	175.601	135.262	175.601	-0.000	135.262	0.000	175.598	0.003	135.261	0.001	4600		
	31.772	176.953	141.616	176.953	-0.000	141.615	0.001	176.951	0.002	141.616	-0.000	4800		
	31.774	178.250	147.970	178.250	-0.000	147.970	0.000	178.248	0.002	147.971	-0.001	5000		
	31.775	179.497	154.325	179.496	0.001	154.324	0.001	179.494	0.003	154.327	-0.002	5200		
	31.777	180.696	160.680	180.696	0.000	160.679	0.001	180.693	0.003	160.682	-0.002			

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-----NOTS-----

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	C/I
1	20.
2	25.
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12	30.
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-----NOTS-----

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400	1
600	1
800	1
1000	3
1200	3
1400	3
1600	3
1800	3
2000	3
2200	3
2400	3
2600	3
2800	3
3000	3
3200	3
3400	3
3600	3
3800	3
4000	3

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BERYLLIUM OXIDE, TRIMERIC (G) BE 30 3 963
 MOL. WT. = 75.030 BLOCK = 564 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -252.000 KEY = 107
 TESTS FOR NOTS RMS = 0.028167
 4 3 8 0 0 0 0 0 0 0 BERYLLIUM OXIDE, TRIMERIC (G) 10J 963 107
 0690109E+1+1.2866468E+0-2.7994054E-1+2.0636826E-2 400 6000 11J 963 107
 7314453E+0-2.6879467E+2+8.9137207E+1-2.5200000E+2BE303 (G) 12J 963 107

TESTS FOR EST RMS LOW = 0.043667 RMS HIGH = 0.009541
 4 3 8 0 0 0 0 0 0 0 BERYLLIUM OXIDE, TRIMERIC (G) 10BE303
 2000+6+768984+5+304877+2+414257-3-288225+7+124701+3 4003000J 96311BE303
 2000+6+768875+5+320025+2-304306-4-601036+7+124701+330006000J 96312BE303

/M	-----NOTS-----								-----EST-----				T K
	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M		
008	18.307	70.208	1.707	70.961	-0.753	2.007	-0.300	71.042	-0.834	2.044	-0.337	400	
003	23.091	78.606	5.882	78.487	0.118	5.784	0.098	78.483	0.123	5.781	0.101	600	
000	26.018	85.686	10.818	85.589	0.097	10.738	0.080	85.585	0.101	10.736	0.082	800	
001	27.770	91.696	16.212	91.656	0.040	16.182	0.030	91.660	0.036	16.188	0.024	1000	
001	28.861	96.863	21.883	96.853	0.010	21.885	-0.002	96.861	0.002	21.896	-0.013	1200	
001	29.573	101.369	27.731	101.370	-0.001	27.747	-0.016	101.378	-0.009	27.758	-0.027	1400	
001	30.060	105.351	33.697	105.354	-0.003	33.715	-0.018	105.360	-0.009	33.722	-0.025	1600	
001	30.405	108.913	39.745	108.913	0.000	39.759	-0.014	108.916	-0.003	39.761	-0.016	1800	
001	30.658	112.130	45.853	112.127	0.003	45.861	-0.008	112.126	0.004	45.855	-0.002	2000	
001	30.848	115.062	52.004	115.055	0.007	52.006	-0.002	115.052	0.010	51.996	0.008	2200	
000	30.995	117.752	58.189	117.744	0.008	58.186	0.003	117.740	0.012	58.175	0.014	2400	
000	31.111	120.238	64.400	120.228	0.010	64.395	0.005	120.227	0.011	64.387	0.013	2600	
000	31.203	122.547	70.632	122.537	0.010	70.625	0.007	122.539	0.008	70.629	0.003	2800	
000	31.278	124.702	76.860	124.693	0.009	76.874	0.006	124.702	0.000	76.898	-0.018	3000	
000	31.278	124.702	76.880	124.693	0.009	76.874	0.006	124.702	0.000	76.888	-0.008	3000	
000	31.340	126.723	83.142	126.714	0.009	83.138	0.004	126.721	0.002	83.144	-0.002	3200	
000	31.391	128.625	89.415	128.616	0.009	89.414	0.001	128.621	0.004	89.414	0.001	3400	
000	31.434	130.420	95.698	130.412	0.008	95.699	-0.001	130.416	0.004	95.695	0.003	3600	
000	31.471	132.121	101.989	132.114	0.007	101.992	-0.003	132.117	0.004	101.985	0.004	3800	
000	31.502	133.736	108.286	133.729	0.007	108.290	-0.004	133.732	0.004	108.283	0.003	4000	
000	31.529	135.273	114.589	135.267	0.006	114.594	-0.005	135.270	0.003	114.587	0.002	4200	
000	31.553	136.741	120.897	136.734	0.007	120.902	-0.005	136.737	0.004	120.896	0.001	4400	
000	31.573	138.144	127.210	138.137	0.007	127.214	-0.004	138.141	0.003	127.210	0.000	4600	
000	31.591	139.488	133.527	139.481	0.007	133.528	-0.001	139.485	0.003	133.527	-0.000	4800	
000	31.607	140.778	139.846	140.770	0.008	139.846	0.000	140.775	0.003	139.848	-0.002	5000	
000	31.621	142.018	146.169	142.010	0.008	146.166	0.003	142.015	0.003	146.171	-0.002	5200	
000	31.634	143.211	152.495	143.203	0.008	152.490	0.005	143.209	0.002	152.496	-0.001	5400	
000	31.645	144.362	158.823	144.354	0.008	158.819	0.004	144.359	0.003	158.824	-0.001	5600	
000	31.655	145.473	165.153	145.465	0.008	165.152	0.001	145.470	0.003	165.152	0.001	5800	
000	31.665	146.546	171.485	146.539	0.007	171.491	-0.006	146.543	0.003	171.482	0.003	6000	

CARBON (R) C 1 361 CA
MOL. WT.= 12.010 BLOCK= 589 NO. POINT = 62 M
TA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 0.000 KEY = 111 DAT
TS FOR NOTS RMS = 0.007577 C FIT
6 0 0 0 0 0 0 0 0 0 0 CARBON (X) 10J 361 111 1 6
725610E+0+1.6507482E-1-2.5763109E-2+3.7063304E-3 400 6000 11J 361 111 +4.88
290161E-1-3.7242889E+0+5.3334150E+0+0.0000000E+0C (X) 12J 361 111 +6.39
TS FOR EST RMS LOW = 0.009344 RMS HIGH = 0.003488 C FIT
6 0 0 0 0 0 0 0 0 0 0 CARBON (X) 10C 1 6
000+0+144146+5+577499+1+124746-3-681115+6+121289+2 4003000J 36111C +1708
000+0+144111+5+523337+1+219586-3+159035+7+121289+23C006000J 36112C +1708

-----NOTS-----												-----EST-----				T
CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T					
C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K					
2.851	2.075	0.250	2.273	-0.198	0.330	-0.080	2.259	-0.184	0.324	-0.074	400					
4.038	3.471	0.947	3.442	0.029	0.922	0.025	3.443	0.028	0.924	0.023	600					
4.740	4.739	1.831	4.711	0.028	1.809	0.022	4.716	0.023	1.813	0.018	800					
5.149	5.844	2.824	5.833	0.011	2.816	0.008	5.838	0.006	2.820	0.004	1000					
5.430	6.809	3.883	6.808	0.001	3.886	-0.003	6.812	-0.003	3.889	-0.006	1200					
5.605	7.661	4.988	7.662	-0.001	4.994	-0.006	7.664	-0.003	4.995	-0.007	1400					
5.721	8.417	6.122	8.418	-0.001	6.127	-0.005	8.419	-0.002	6.127	-0.005	1600					
5.803	9.096	7.275	9.096	0.000	7.278	-0.003	9.097	-0.001	7.277	-0.002	1800					
5.865	9.711	8.442	9.710	0.001	8.444	-0.002	9.710	0.001	8.441	0.001	2000					
5.914	10.272	9.620	10.270	0.002	9.620	-0.000	10.271	0.001	9.618	0.002	2200					
5.956	10.789	10.807	10.786	0.003	10.806	0.001	10.787	0.002	10.804	0.003	2400					
5.992	11.267	12.002	11.264	0.003	12.000	0.002	11.265	0.002	12.000	0.002	2600					
6.026	11.712	13.203	11.709	0.003	13.202	0.001	11.711	0.001	13.203	-0.000	2800					
6.057	12.129	14.412	12.126	0.003	14.410	0.002	12.129	0.000	14.415	-0.003	3000					
6.057	12.129	14.412	12.126	0.003	14.410	0.002	12.129	0.000	14.411	0.001	3000					
6.088	12.521	15.626	12.518	0.003	15.625	0.001	12.521	-0.000	15.627	-0.001	3200					
6.119	12.891	16.847	12.889	0.002	16.847	0.000	12.891	-0.000	16.848	-0.001	3400					
6.150	13.241	18.074	13.239	0.002	18.074	0.000	13.242	-0.001	18.074	-0.000	3600					
6.181	13.575	19.307	13.573	0.002	19.308	-0.001	13.575	-0.000	19.307	0.000	3800					
6.213	13.893	20.546	13.891	0.002	20.547	-0.001	13.893	0.000	20.546	0.000	4000					
6.247	14.197	21.792	14.195	0.002	21.793	-0.001	14.197	0.000	21.791	0.001	4200					
6.281	14.488	23.045	14.486	0.002	23.046	-0.001	14.488	-0.000	23.044	0.001	4400					
6.317	14.768	24.305	14.766	0.002	24.306	-0.001	14.768	-0.000	24.304	0.001	4600					
6.354	15.038	25.572	15.036	0.002	25.572	-0.000	15.038	0.000	25.571	0.001	4800					
6.392	15.298	26.846	15.296	0.002	26.846	-0.000	15.298	-0.000	26.847	-0.001	5000					
6.432	15.549	28.129	15.547	0.002	28.128	0.001	15.550	-0.001	28.129	-0.000	5200					
6.473	15.793	29.419	15.790	0.003	29.418	0.001	15.793	-0.000	29.420	-0.001	5400					
6.516	16.029	30.718	16.027	0.002	30.717	0.001	16.029	-0.000	30.719	-0.001	5600					
6.560	16.258	32.026	16.256	0.002	32.026	0.000	16.259	-0.001	32.026	0.000	5800					
6.606	16.481	33.342	16.480	0.001	33.344	-0.002	16.482	-0.001	33.341	0.001	6000					

CARBON, MONATOMIC

(G) C 1

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MOL.

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MOL. WT. = 12.010

BLOCK = 595 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 170.886 KEY = 112

FITS FOR NOTS RMS = 0.006429

1 6 0 0 0 0 0 0 0 0 0 CARBON, MONATOMIC (G) 10J 361 112
 +4.8836059E+0-6.3461184E-2+7.6084911E-2-7.9825818E-3 400 6000 11J 361 112
 +6.3903808E-2+1.6957141E+2+4.3847366E+1+1.7088598E+2C (G) 12J 361 112

FITS FOR EST RMS LOW = 0.005535 RMS HIGH = 0.004391

1 6 0 0 0 0 0 0 0 0 0 CARBON, MONATOMIC (G) 10C
 +170885+6+135464+5+473191+1+133475-3+802410+5+492869+2 4003000J 36111C
 +170885+6+135541+5+544462+1+340499-4-371214+7+492869+230006000J 36112C

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	4.975	39.224	0.507	39.153	0.071	0.476	0.031	39.159	0.065	0.480	0.027
600	4.971	41.240	1.502	41.239	0.001	1.503	-0.001	41.244	-0.004	1.506	-0.004
800	4.970	42.670	2.496	42.680	-0.010	2.504	-0.008	42.681	-0.011	2.505	-0.009
1000	4.969	43.779	3.490	43.787	-0.008	3.497	-0.007	43.786	-0.007	3.495	-0.005
1200	4.970	44.685	4.483	44.690	-0.005	4.486	-0.003	44.688	-0.003	4.484	-0.001
1400	4.972	45.451	5.478	45.453	-0.002	5.477	0.001	45.451	-0.000	5.475	0.003
1600	4.978	46.116	6.473	46.115	0.001	6.469	0.004	46.114	0.002	6.469	0.004
1800	4.990	46.703	7.469	46.702	0.001	7.465	0.004	46.702	0.001	7.466	0.003
2000	5.008	47.229	8.469	47.228	0.001	8.465	0.004	47.229	-0.000	8.467	0.002
2200	5.032	47.708	9.473	47.707	0.001	9.470	0.003	47.709	-0.001	9.474	-0.001
2400	5.061	48.147	10.482	48.147	-0.000	10.481	0.001	48.148	-0.001	10.484	-0.002
2600	5.094	48.553	11.497	48.554	-0.001	11.498	-0.001	48.555	-0.002	11.500	-0.003
2800	5.130	48.932	12.520	48.934	-0.002	12.522	-0.002	48.933	-0.001	12.521	-0.001
3000	5.168	49.287	13.550	49.289	-0.002	13.552	-0.002	49.287	0.000	13.546	0.004
3000	5.168	49.287	13.550	49.289	-0.002	13.552	-0.002	49.287	0.000	13.554	-0.004
3200	5.206	49.622	14.587	49.624	-0.002	14.590	-0.003	49.620	0.002	14.587	0.000
3400	5.243	49.938	15.632	49.940	-0.002	15.634	-0.002	49.936	0.002	15.630	0.002
3600	5.279	50.239	16.684	50.241	-0.002	16.685	-0.001	50.237	0.002	16.682	0.002
3800	5.313	50.526	17.743	50.527	-0.001	17.744	-0.001	50.524	0.002	17.742	0.001
4000	5.345	50.799	18.809	50.800	-0.001	18.808	0.001	50.797	0.002	18.809	0.000
4200	5.375	51.060	19.881	51.061	-0.001	19.880	0.001	51.059	0.001	19.881	-0.000
4400	5.402	51.311	20.959	51.312	-0.001	20.957	0.002	51.310	0.001	20.959	-0.000
4600	5.426	51.552	22.041	51.553	-0.001	22.040	0.001	51.550	0.002	22.042	-0.001
4800	5.448	51.783	23.129	51.784	-0.001	23.128	0.001	51.782	0.001	23.129	-0.000
5000	5.468	52.006	24.221	52.007	-0.001	24.220	0.001	52.004	0.002	24.221	0.000
5200	5.486	52.221	25.316	52.222	-0.001	25.317	-0.001	52.219	0.002	25.316	0.000
5400	5.502	52.428	26.415	52.430	-0.002	26.416	-0.001	52.426	0.002	26.415	0.000
5600	5.516	52.628	27.517	52.630	-0.002	27.518	-0.001	52.627	0.001	27.516	0.001
5800	5.529	52.822	28.621	52.824	-0.002	28.622	-0.001	52.821	0.001	28.621	-0.000
6000	5.541	53.010	29.728	53.011	-0.001	29.726	0.002	53.008	0.002	29.729	-0.001

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CARBON MONOCHLORIDE (G) C 1CL 1 0 0 0 0 1269
 MOL. WT.= 47.460 BLOCK= 602 NO. POINT = 62
 ATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 120.000 KEY = 113
 ITS FOR NOTS RMS = 0.004713
 6 1 17 0 0 0 0 0 0 0 CARBON MONOCHLORIDE (G) 10J1269 113
 0505390E+0+1.3800859E-3+1.7006635E-2+1.1996906E-3 400 6000 11J1269 113
 3628234E-1+1.1662196E+2+6.3575332E+1+1.2000000E+2CCL(G) 12J1269 113

CA
M
DAT
FIT
1 6
+1.88
-1.10

ITS FOR EST RMS LOW = 0.001400 RMS HIGH = 0.003982
 6 1 17 0 0 0 0 0 0 0 CARBON MONOCHLORIDE (G) 10CCL
 0000+6+240370+5+888712+1+115409-3-181568+6+736239+2 4003000J126911CCL
 0000+6+240371+5+795671+1+310183-3+302859+7+736239+230006000J126912CCL

FIT
1 6
-1020
-1020

/M	-----NOTS-----								-----EST-----				T
	CP	S	H	SC	ES	HC	DH	SC	DS	HC	DH		
	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M	K	
027	8.029	55.945	0.802	56.023	-0.078	0.833	-0.031	55.975	-0.030	0.814	-0.012	400	
004	8.459	59.291	2.455	59.284	0.007	2.448	0.007	59.286	0.005	2.451	0.004	600	
009	8.684	61.758	4.172	61.747	0.011	4.161	0.011	61.755	0.003	4.169	0.003	800	
005	8.814	63.711	5.923	63.704	0.007	5.915	0.008	63.710	0.001	5.922	0.001	1000	
001	8.897	65.326	7.694	65.322	0.004	7.691	0.003	65.326	0.000	7.695	-0.001	1200	
003	8.957	66.702	9.480	66.701	0.001	9.480	0.000	66.702	-0.000	9.481	-0.001	1400	
004	9.003	67.901	11.276	67.901	0.000	11.277	-0.001	67.901	-0.000	11.276	-0.000	1600	
003	9.041	68.964	13.080	68.964	0.000	13.083	-0.003	68.964	0.000	13.080	-0.000	1800	
002	9.074	69.918	14.852	69.918	-0.000	14.894	-0.002	69.918	0.000	14.892	0.000	2000	
001	9.103	70.784	16.710	70.784	-0.000	16.711	-0.001	70.784	0.000	16.709	0.001	2200	
002	9.131	71.578	18.533	71.577	0.001	18.534	-0.001	71.577	0.001	18.533	0.000	2400	
003	9.159	72.310	20.362	72.309	0.001	20.362	-0.000	72.309	0.001	20.362	-0.000	2600	
001	9.186	72.989	22.197	72.988	0.001	22.196	0.001	72.989	-0.000	22.197	0.000	2800	
004	9.215	73.624	24.037	73.623	0.001	24.036	0.001	73.624	0.000	24.037	0.000	3000	
004	9.215	73.624	24.037	73.623	0.001	24.036	0.001	73.624	0.000	24.037	-0.000	3000	
000	9.245	74.220	25.883	74.219	0.001	25.882	0.001	74.220	0.000	25.884	-0.001	3200	
002	9.277	74.781	27.735	74.780	0.001	27.734	0.001	74.781	-0.000	27.736	-0.001	3400	
002	9.311	75.312	29.594	75.311	0.001	29.593	0.001	75.312	-0.000	29.594	0.000	3600	
001	9.348	75.817	31.459	75.816	0.001	31.460	-0.001	75.816	0.001	31.459	0.000	3800	
000	9.388	76.297	33.333	76.297	0.000	33.334	-0.001	76.297	0.000	33.332	0.001	4000	
000	9.431	76.756	35.215	76.756	0.000	35.216	-0.001	76.756	0.000	35.214	0.001	4200	
000	9.476	77.196	37.106	77.195	0.001	37.107	-0.001	77.196	0.000	37.104	0.002	4400	
001	9.524	77.618	39.006	77.618	0.000	39.006	-0.000	77.618	0.000	39.005	0.001	4600	
000	9.574	78.025	40.915	78.024	0.001	40.916	-0.001	78.025	0.000	40.915	-0.000	4800	
000	9.626	78.417	42.835	78.416	0.001	42.835	-0.000	78.417	0.000	42.836	-0.001	5000	
000	9.680	78.795	44.766	78.794	0.001	44.765	0.001	78.795	-0.000	44.767	-0.001	5200	
000	9.736	79.162	46.708	79.161	0.001	46.706	0.002	79.162	0.000	46.709	-0.001	5400	
001	9.793	79.517	48.661	79.516	0.001	48.659	0.002	79.517	0.000	48.661	-0.000	5600	
000	9.851	79.861	50.625	79.860	0.001	50.624	0.001	79.861	-0.000	50.625	0.000	5800	
001	9.909	80.196	52.601	80.196	0.000	52.603	-0.002	80.196	0.000	52.599	0.002	6000	

CARBONYL CHLOROFLUORIDE

(G)

C 1CL 1F 10 1

661

MOL. WT. = 82.460

BLOCK = 608

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -102.000 KEY = 114

FITS FOR NOTS RMS = 0.012018

1 6 1 8 1 9 1 17 0 0 0 CARBONYL CHLOROFLUORIDE (G) 10J 661 114
 +1.8889236E+1+5.9489417E-1-1.2893813E-1+9.5006860E-3 400 6000 11J 661 114
 -1.1093597E+0-1.1088687E+2+8.4030990E+1-1.0200000E+2CCLFO (G) 12J 661 114

FITS FOR EST RMS LOW = 0.018532 RMS HIGH = 0.006017

1 6 1 8 1 9 1 17 0 0 0 CARBONYL CHLOROFLUORIDE (G) 10CCLFO
 -102000+6+498700+5+192557+2+192932-3-117801+7+106137+3 4003000J 66111CCLFO
 -102000+6+498661+5+199904+2-172591-4-283724+7+106137+330006000J 66112CCLFO

-----NOTS-----														-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	SC	DS	HC	DH	SC
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K
-0.012	400	14.199	70.111	1.366	70.418	-0.307	1.487	-0.121	70.454	-0.343	1.505	-0.139					
0.004	600	16.273	76.303	4.433	76.257	0.046	4.394	0.039	76.255	0.048	4.394	0.039					
0.003	800	17.453	81.161	7.816	81.119	0.042	7.781	0.035	81.117	0.044	7.781	0.035					
0.001	1000	18.163	85.138	11.384	85.119	0.019	11.369	0.015	85.121	0.017	11.372	0.012					
-0.001	1200	18.613	88.492	15.065	88.487	0.005	15.064	0.001	88.490	0.002	15.069	-0.004					
-0.001	1400	18.912	91.385	18.819	91.385	0.000	18.825	-0.006	91.389	-0.004	18.831	-0.012					
-0.000	1600	19.118	93.925	22.623	93.925	-0.000	22.630	-0.007	93.928	-0.003	22.634	-0.011					
-0.000	1800	19.266	96.185	26.462	96.185	-0.000	26.468	-0.006	96.186	-0.001	26.469	-0.007					
0.000	2000	19.374	98.221	30.327	98.220	0.001	30.330	-0.003	98.219	0.002	30.328	-0.001					
0.001	2200	19.457	100.072	34.210	100.069	0.003	34.211	-0.001	100.068	0.004	34.207	0.003					
0.000	2400	19.521	101.768	38.108	101.764	0.004	38.107	0.001	101.762	0.006	38.102	0.006					
-0.000	2600	19.571	103.332	42.018	103.328	0.004	42.016	0.002	103.327	0.005	42.012	0.006					
0.000	2800	19.611	104.784	45.936	104.780	0.004	45.934	0.002	104.781	0.003	45.935	0.001					
0.000	3000	19.644	106.138	49.862	106.134	0.003	49.860	0.002	106.138	0.000	49.870	-0.008					
-0.000	3000	19.644	106.138	49.862	106.134	0.003	49.860	0.002	106.138	0.000	49.866	-0.004					
-0.001	3200	19.671	107.407	53.793	107.403	0.004	53.792	0.001	107.406	0.001	53.794	-0.001					
-0.001	3400	19.694	108.600	57.730	108.597	0.003	57.729	0.001	108.598	0.002	57.729	0.001					
0.000	3600	19.713	109.726	61.671	109.723	0.003	61.671	-0.000	109.724	0.002	61.669	0.002					
0.000	3800	19.729	110.793	65.615	110.790	0.003	65.616	-0.001	110.790	0.003	65.612	0.003					
0.001	4000	19.743	111.805	69.562	111.802	0.003	69.564	-0.002	111.803	0.002	69.560	0.002					
0.001	4200	19.755	112.769	73.512	112.766	0.003	73.514	-0.002	112.766	0.003	73.510	0.002					
0.002	4400	19.765	113.688	77.464	113.685	0.003	77.465	-0.002	113.686	0.002	77.462	0.002					
0.001	4600	19.774	114.567	81.417	114.564	0.003	81.419	-0.002	114.565	0.002	81.417	0.000					
-0.000	4800	19.782	115.408	85.373	115.405	0.003	85.373	-0.000	115.406	0.002	85.373	-0.000					
-0.001	5000	19.789	116.216	89.330	116.213	0.003	89.329	0.001	116.214	0.002	89.331	-0.001					
-0.001	5200	19.795	116.992	93.289	116.989	0.003	93.287	0.002	116.990	0.001	93.289	-0.000					
-0.001	5400	19.801	117.739	97.248	117.736	0.003	97.246	0.002	117.738	0.001	97.249	-0.001					
-0.000	5600	19.806	118.460	101.209	118.456	0.004	101.207	0.002	118.458	0.002	101.209	-0.000					
0.000	5800	19.810	119.155	105.171	119.152	0.003	105.170	0.001	119.153	0.002	105.170	0.001					
0.002	6000	19.814	119.826	109.133	119.824	0.002	109.136	-0.003	119.824	0.002	109.131	0.002					

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -169.200 KEY = 115

FITS FOR NOTS RMS = 0.010310

1 6 3 9 1 17 0 0 0 0 0 CARBON CHLOROTRIFLUORIDE (G) 10J 669 115
 +2.5176712E+1+4.0765595E-1-9.0239524E-2+6.7623816E-3 400 6000 11J 669 115
 -1.4045410E+0-1.8094027E+2+9.2046447E+1-1.6919999E+2CCLF3 (G) 12J 669 115

FITS FOR EST RMS LOW = 0.014997 RMS HIGH = 0.007879

1 6 3 9 1 17 0 0 0 0 0 CARBON CHLOROTRIFLUORIDE (G) 10CCLF3
 -169199+6+654242+5+254208+2+131609-3-144745+7+120664+3 4003000J 66911CCLF3
 -169199+6+654238+5+260070+2-254487-4-312294+7+120664+330006000J 66912CCLF3

1 6 1
 +1.365275
 -6.373901

1 6 1
 +329699+5
 +329699+5

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M
400	18.531	73.247	1.765	73.522	-0.275	1.872	-0.107	73.545	-0.298	1.885	-0.120	400	11.6
600	21.590	81.409	5.811	81.365	0.044	5.774	0.037	81.366	0.043	5.776	0.035	600	12.6
800	23.159	87.859	10.303	87.824	0.035	10.272	0.031	87.826	0.033	10.275	0.028	800	13.3
1000	24.022	93.129	15.029	93.113	0.016	15.016	0.013	93.117	0.012	15.021	0.008	1000	13.8
1200	24.534	97.557	19.889	97.552	0.005	19.887	0.002	97.557	-0.000	19.893	-0.004	1200	14.1
1400	24.859	101.365	24.830	101.364	0.001	24.834	-0.004	101.369	-0.004	24.839	-0.009	1400	14.4
1600	25.078	104.700	29.825	104.700	0.000	29.830	-0.005	104.703	-0.003	29.833	-0.008	1600	14.6
1800	25.231	107.663	34.857	107.662	0.001	34.861	-0.004	107.664	-0.001	34.862	-0.005	1800	14.8
2000	25.342	110.328	39.915	110.326	0.002	39.917	-0.002	110.327	0.001	39.916	-0.001	2000	14.9
2200	25.425	112.747	44.992	112.745	0.002	44.993	-0.001	112.744	0.003	44.989	0.003	2200	15.1
2400	25.489	114.962	50.084	114.959	0.003	50.083	0.001	114.959	0.003	50.079	0.005	2400	15.2
2600	25.539	117.004	55.187	117.001	0.003	55.186	0.001	117.001	0.003	55.183	0.004	2600	15.3
2800	25.579	118.899	60.299	118.896	0.003	60.298	0.001	118.897	0.002	60.298	0.001	2800	15.4
3000	25.611	120.665	65.418	120.662	0.003	65.417	0.001	120.665	0.000	65.424	-0.006	3000	15.5
3000	25.611	120.665	65.418	120.662	0.003	65.417	0.001	120.665	0.000	65.424	-0.006	3000	15.5
3200	25.638	122.318	70.543	122.316	0.002	70.543	0.000	122.317	0.001	70.544	-0.001	3200	15.5
3400	25.660	123.873	75.673	123.871	0.002	75.673	-0.001	123.871	0.001	75.672	0.001	3400	15.6
3600	25.679	125.341	80.807	125.338	0.003	80.808	-0.001	125.338	0.003	80.804	0.003	3600	15.7
3800	25.694	126.729	85.944	126.727	0.002	85.946	-0.002	126.727	0.002	85.941	0.003	3800	15.8
4000	25.708	128.048	91.085	128.046	0.002	91.087	-0.002	128.045	0.003	91.082	0.003	4000	15.9
4200	25.719	129.302	96.227	129.300	0.002	96.229	-0.002	129.300	0.002	96.225	0.002	4200	15.9
4400	25.729	130.499	101.372	130.497	0.002	101.374	-0.002	130.497	0.002	101.371	0.001	4400	15.9
4600	25.738	131.643	106.519	131.641	0.002	106.520	-0.001	131.641	0.002	106.518	0.001	4600	16.0
4800	25.746	132.738	111.667	132.736	0.002	111.668	-0.001	132.737	0.001	111.667	-0.001	4800	16.0
5000	25.753	133.790	116.817	133.787	0.003	116.816	0.001	133.788	0.002	116.818	-0.001	5000	16.0
5200	25.759	134.800	121.968	134.797	0.003	121.967	0.001	134.798	0.002	121.969	-0.001	5200	16.0
5400	25.764	135.772	127.121	135.769	0.003	127.119	0.002	135.771	0.001	127.122	-0.001	5400	16.0
5600	25.769	136.709	132.274	136.706	0.003	132.272	0.002	136.707	0.002	132.274	-0.000	5600	16.0
5800	25.773	137.613	137.428	137.611	0.002	137.428	0.000	137.612	0.001	137.427	0.001	5800	16.0
6000	25.777	138.487	142.583	138.485	0.002	142.586	-0.003	138.485	0.002	142.581	0.002	6000	16.0

CYANOGEN CHLORIDE

(G) C 1CL 1N 1 0 0 0

666

DATA FROM C TO 6000 K HFORM(KCAL/(MOL))

FITS FOR NOTS RMS = 0.012323

1 6 1 7 1 17 0 0 0 0 0 CYANOGEN CHLORIDE (G) 10J 666 116
 +1.3652750E+1+1.0129776E+0-1.5793472E-1+1.1480446E-2 400 6000 11J 666 116
 -6.3739013E-1+2.7094528E+1+7.0159194E+1+3.2969985E+1CCLN(G) 12J 666 116

FITS FOR EST RMS LOW = 0.019344 RMS HIGH = 0.004887

1 6 1 7 1 17 0 0 0 0 0 CYANOGEN CHLORIDE (G) 10CCLN
 +329699+5+386770+5+141133+2+515074-3-725456+6+876289+2 4003000J 66611CCLN
 +329699+5+386713+5+149937+2+258675-3-252006+7+876289+230006000J 66612CCLN

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
20	400	11.644	59.760	1.146	60.034	-0.274	1.257	-0.111	60.080	-0.320	1.278	-0.132
35	600	12.627	64.683	3.581	64.650	0.033	3.550	0.031	64.646	0.037	3.547	0.034
28	800	13.302	68.413	6.177	68.372	0.041	6.142	0.035	68.368	0.045	6.140	0.037
08	1000	13.802	71.437	8.890	71.416	0.021	8.871	0.019	71.416	0.021	8.874	0.016
04	1200	14.150	73.985	11.686	73.978	0.007	11.683	0.003	73.982	0.003	11.689	-0.003
09	1400	14.444	76.189	14.546	76.189	-0.000	14.553	-0.007	76.193	-0.004	14.559	-0.013
08	1600	14.667	78.134	17.459	78.135	-0.001	17.467	-0.008	78.138	-0.004	17.471	-0.012
05	1800	14.843	79.872	20.410	79.872	-0.000	20.418	-0.008	79.873	-0.001	20.419	-0.009
01	2000	14.997	81.444	23.395	81.443	0.001	23.399	-0.004	81.442	0.002	23.397	-0.002
03	2200	15.120	82.879	26.407	82.877	0.002	26.408	-0.001	82.874	0.005	26.403	0.004
05	2400	15.233	84.199	29.442	84.196	0.003	29.442	0.000	84.193	0.006	29.435	0.007
04	2600	15.332	85.423	32.499	85.419	0.004	32.497	0.002	85.417	0.006	32.492	0.007
01	2800	15.423	86.562	35.574	86.558	0.004	35.571	0.003	86.558	0.004	35.573	0.001
06	3000	15.508	87.629	38.668	87.625	0.004	38.665	0.003	87.629	0.000	38.677	-0.009
06	3000	15.508	87.629	38.668	87.625	0.004	38.665	0.003	87.629	0.000	38.671	-0.003
01	3200	15.586	88.633	41.777	88.629	0.004	41.775	0.002	88.631	0.002	41.778	-0.001
01	3400	15.661	89.580	44.902	89.576	0.004	44.901	0.001	89.578	0.002	44.901	0.001
03	3600	15.733	90.477	48.041	90.474	0.003	48.041	-0.000	90.475	0.002	48.040	0.001
03	3800	15.802	91.329	51.195	91.327	0.002	51.196	-0.001	91.328	0.001	51.193	0.002
03	4000	15.870	92.142	54.362	92.139	0.003	54.364	-0.002	92.140	0.002	54.360	0.002
02	4200	15.935	92.918	57.543	92.915	0.003	57.545	-0.002	92.916	0.002	57.541	0.002
01	4400	15.998	93.660	60.736	93.658	0.002	60.738	-0.002	93.659	0.001	60.735	0.001
01	4600	16.061	94.373	63.942	94.370	0.003	63.944	-0.002	94.371	0.002	63.942	0.000
01	4800	16.124	95.058	67.161	95.055	0.003	67.161	-0.000	95.056	0.002	67.161	0.000
01	5000	16.185	95.717	70.391	95.714	0.003	70.391	-0.000	95.716	0.001	70.392	-0.001
01	5200	16.246	96.353	73.635	96.350	0.003	73.633	0.002	96.352	0.001	73.635	-0.000
01	5400	16.305	96.967	76.890	96.964	0.003	76.887	0.003	96.966	0.001	76.890	-0.000
00	5600	16.364	97.562	80.157	97.558	0.004	80.155	0.002	97.560	0.002	80.157	-0.000
01	5800	16.423	98.137	83.435	98.134	0.003	83.435	0.000	98.135	0.002	83.435	-0.000
02	6000	16.480	98.694	86.726	98.692	0.002	86.729	-0.003	98.693	0.001	86.725	0.001

CARBONYL CHLORIDE

(G) C 1CL 20 1

661

TRICH

ATA FROM 0 TO 6000 K BFORM(KCAL/(MOLE)) = -52.000

FITS FOR NOTS RMS = 0.009869

6 1 8 2 17 0 0 0 0 0 CARBONYL CHLORIDE (G) 10J 661 117
 .9069229E+1+4.8519277E-1-1.0498279E-1+7.7199824E-3 400 6000 11J 661 117
 .9931274E-1-6.0905471E+1+8.6844039E+1-5.2599990E+1CCL20 (G) 12J 661 117

FITS 1
 1 6 1
 +2.55572
 -9.26757

FITS FOR EST RMS LOW = 0.015040 RMS HIGH = 0.005950

6 1 8 2 17 0 0 0 0 0 CARBONYL CHLORIDE (G) 10CCL20
 25999+5+506016+5+193683+2+157264-3-945680+6+108898+3 4003000J 66111CCL20
 25999+5+505997+5+200039+2-193882-4-251776+7+108898+330006000J 66112CCL20

FITS F
 1 6 1
 -690000+
 -690000+

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C/
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/
100	15.282	72.092	1.486	72.336	-0.244	1.582	-0.096	72.368	-0.276	1.598	-0.112	400	20.
200	16.981	78.647	4.731	78.611	0.036	4.698	0.033	78.610	0.037	4.699	0.032	600	23.
300	17.924	83.674	8.230	83.640	0.034	8.200	0.030	83.639	0.035	8.201	0.029	800	24.
400	18.493	87.739	11.876	87.724	0.015	11.863	0.013	87.726	0.013	11.866	0.010	1000	24.
500	18.855	91.145	15.613	91.141	0.004	15.612	0.001	91.145	0.000	15.617	-0.004	1200	25.
600	19.095	94.071	19.410	94.071	0.000	19.413	-0.004	94.075	-0.004	19.419	-0.009	1400	25.
700	19.262	96.632	23.246	96.633	-0.001	23.251	-0.005	96.636	-0.004	23.255	-0.009	1600	25.
800	19.381	98.908	27.111	98.908	-0.000	27.115	-0.004	98.910	-0.002	27.117	-0.006	1800	25.
900	19.469	100.955	30.997	100.954	0.001	30.999	-0.002	100.954	0.001	30.998	-0.001	2000	25.
1000	19.536	102.814	34.897	102.812	0.002	34.898	-0.001	102.811	0.003	34.895	0.002	2200	25.
1100	19.587	104.516	38.810	104.513	0.003	38.809	0.001	104.512	0.004	38.805	0.005	2400	25.
1200	19.628	106.086	42.731	106.083	0.003	42.730	0.001	106.082	0.004	42.727	0.004	2600	25.
1300	19.661	107.541	46.660	107.538	0.003	46.658	0.002	107.539	0.002	46.659	0.001	2800	25.
1400	19.687	108.899	50.595	108.896	0.003	50.593	0.002	108.899	0.000	50.602	-0.007	3000	25.
1500	19.687	108.899	50.595	108.896	0.003	50.593	0.002	108.899	0.000	50.600	-0.005	3000	25.
1600	19.709	110.170	54.535	110.167	0.003	54.534	0.001	110.169	0.001	54.536	-0.001	3200	25.
1700	19.727	111.365	58.479	111.363	0.002	58.478	0.001	111.364	0.001	58.478	0.001	3400	25.
1800	19.743	112.493	62.426	112.491	0.002	62.426	-0.000	112.492	0.001	62.424	0.002	3600	25.
1900	19.756	113.561	66.376	113.559	0.002	66.377	-0.001	113.559	0.002	66.373	0.003	3800	25.
2000	19.767	114.575	70.328	114.573	0.002	70.330	-0.002	114.573	0.002	70.326	0.002	4000	25.
2100	19.777	115.540	74.282	115.538	0.002	74.284	-0.002	115.538	0.002	74.281	0.001	4200	25.
2200	19.785	116.460	78.239	116.458	0.002	78.240	-0.001	116.458	0.002	78.238	0.001	4400	25.
2300	19.793	117.339	82.196	117.337	0.002	82.198	-0.002	117.338	0.001	82.196	-0.000	4600	25.
2400	19.799	118.182	86.156	118.180	0.002	86.156	0.000	118.181	0.001	86.156	0.000	4800	25.
2500	19.805	118.990	90.116	118.988	0.002	90.115	0.001	118.989	0.001	90.117	-0.001	5000	25.
2600	19.810	119.767	94.077	119.765	0.002	94.076	0.001	119.766	0.001	94.078	-0.001	5200	25.
2700	19.814	120.515	98.040	120.512	0.003	98.038	0.002	120.514	0.001	98.041	-0.001	5400	25.
2800	19.818	121.236	102.003	121.233	0.003	102.001	0.002	121.234	0.002	102.003	-0.000	5600	25.
2900	19.822	121.931	105.967	121.929	0.002	105.967	0.000	121.930	0.001	105.967	0.000	5800	25.
3000	19.825	122.603	109.932	122.601	0.002	109.934	-0.002	122.602	0.001	109.930	0.002	6000	25.

TRICHLOROFLUOROMETHANE

(G)

C 1CL 3F 1 0 0 0

670

NOT WT - 127 360

BLOCK= 633

NO. POINT = 62

WT - 110

CARBO

NOT

FITS FOR NOTS RMS = 0.005822

1 6 1 9 3 17 0 0 0 0 0 TRICHLOROFLUOROMETHANE (G) 10J 670 118
+2.5557296E+1+1.7535257E-1-3.9877273E-2+3.0664736E-3 400 6000 11J 670 118
-9.2675781E-1-7.9482727E+1+1.0040071E+2-6.9000000E+1CCL3F (G) 12J 670 118

FITS F

6 4

.57014

.02392

FITS FOR EST RMS LOW = 0.006794 RMS HIGH = 0.007786

1 6 1 9 3 17 0 0 0 0 0 TRICHLOROFLUOROMETHANE (G) 10CCL3F
-690000+5+669925+5+256547+2+571971-4-940752+6+128904+3 4003000J 67011CCL3F
-690000+5+669958+5+260141+2-264565-4-234240+7+128904+330006000J 67012CCL3F

FITS F

6 4

29399+

29399+

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	20.829	79.810	2.019	79.946	-0.136	2.070	-0.051	79.952	-0.142	2.076	-0.057
600	23.123	88.753	6.445	88.731	0.022	6.425	0.020	88.732	0.021	6.428	0.017
800	24.182	95.568	11.188	95.550	0.018	11.171	0.017	95.553	0.015	11.175	0.013
1000	24.734	101.029	16.085	101.021	0.008	16.076	0.009	101.024	0.005	16.081	0.004
1200	25.053	105.569	21.066	105.566	0.003	21.063	0.003	105.569	-0.000	21.068	-0.002
1400	25.252	109.447	26.058	109.446	0.001	26.098	0.000	109.449	-0.002	26.102	-0.004
1600	25.384	112.828	31.163	112.827	0.001	31.163	-0.000	112.830	-0.002	31.166	-0.003
1800	25.476	115.824	36.249	115.823	0.001	36.250	-0.001	115.824	-0.000	36.251	-0.002
2000	25.543	118.512	41.351	118.511	0.001	41.352	-0.001	118.511	0.001	41.352	-0.001
2200	25.592	120.948	46.465	120.947	0.001	46.465	-0.000	120.947	0.001	46.464	0.001
2400	25.630	123.177	51.588	123.176	0.001	51.588	0.000	123.175	0.002	51.585	0.003
2600	25.660	125.230	56.717	125.229	0.001	56.717	0.000	125.228	0.002	56.715	0.002
2800	25.684	127.132	61.851	127.131	0.001	61.851	-0.000	127.131	0.001	61.851	0.000
3000	25.703	128.905	66.990	128.904	0.001	66.990	-0.000	128.905	0.000	66.992	-0.003
3200	25.703	128.905	66.990	128.904	0.001	66.990	-0.000	128.905	0.000	66.996	-0.006
3400	25.718	130.564	72.132	130.563	0.001	72.133	-0.001	130.563	0.001	72.133	-0.001
3600	25.731	132.124	77.277	132.123	0.001	77.278	-0.001	132.122	0.002	77.276	0.001
3800	25.742	133.595	82.424	133.594	0.001	82.426	-0.002	133.592	0.003	82.422	0.002
4000	25.752	134.987	87.574	134.986	0.001	87.575	-0.001	134.984	0.003	87.571	0.003
4200	25.760	136.308	92.725	136.307	0.001	92.726	-0.001	136.305	0.003	92.722	0.003
4400	25.766	137.565	97.878	137.564	0.001	97.879	-0.001	137.563	0.002	97.875	0.003
4600	25.772	138.764	103.032	138.763	0.001	103.032	-0.000	138.761	0.003	103.030	0.002
4800	25.777	139.910	108.186	139.909	0.001	108.187	-0.001	139.907	0.003	108.186	0.000
5000	25.782	141.007	113.342	141.006	0.001	113.342	-0.000	141.005	0.002	113.343	-0.001
5200	25.786	142.059	118.499	142.058	0.001	118.499	0.000	142.057	0.002	118.500	-0.001
5400	25.789	143.071	123.657	143.069	0.002	123.656	0.001	143.069	0.002	123.658	-0.001
5600	25.793	144.044	128.815	144.043	0.001	128.814	0.001	144.042	0.002	128.816	-0.001
5800	25.795	144.982	133.974	144.981	0.001	133.973	0.001	144.980	0.002	133.974	-0.000
6000	25.798	145.887	139.133	145.886	0.001	139.133	0.000	145.885	0.002	139.132	0.001
6200	25.800	146.762	144.293	146.761	0.001	144.294	-0.001	146.760	0.002	144.290	0.003

T	C/
K	
400	21.
600	23.
800	24.
1000	25.
1200	25.
1400	25.
1600	25.
1800	25.
2000	25.
2200	25.
2400	25.
2600	25.
2800	25.
3000	25.
3200	25.
3400	25.
3600	25.
3800	25.
4000	25.
4200	25.
4400	25.
4600	25.
4800	25.
5000	25.
5200	25.
5400	25.
5600	25.
5800	25.
6000	25.
6200	25.
6400	25.
6600	25.

CARBON TETRACHLORIDE

(G)

C 1CL 4 0 0 0 0

1268

CARBON
MOL. W

ITS FOR NOTS RMS = 0.004459

6 4 17 0 0 0 0 0 0 0 CARBON TETRACHLORIDE (G) 10J1268 119
 .5701446E+1+8.8112175E-2-2.1201476E-2+1.7161490E-3 400 6000 11J1268 119
 .0239257E-1-3.2816452E+1+1.0157664E+2-2.2939987E+1CCL4 (G) 12J1268 119

FITS FOR
 1 6 1 9
 +8.6660118
 -3.2592773

FITS FOR EST RMS LOW = 0.003765 RMS HIGH = 0.007762

6 4 17 0 0 0 0 0 0 0 CARBON TETRACHLORIDE (G) 10CCL4
 29399+5+677026+5+257480+2+271545-4-708208+6+130035+3 4003000J126811CCL4
 29399+5+677071+5+260010+2-244694-4-190822+7+130035+330006000J126812CCL4

FITS FOR
 1 6 1 9
 +610000+5+
 +610000+5+

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	CP
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K
400	21.918	80.180	2.140	80.255	-0.075	2.167	-0.027	80.259	-0.079	2.172	-0.032	400	7.43
500	23.823	89.486	6.743	89.472	0.014	6.729	0.014	89.475	0.011	6.734	0.009	600	7.95
600	24.638	96.466	11.600	96.454	0.012	11.587	0.013	96.458	0.008	11.593	0.007	800	8.31
700	25.047	102.012	16.572	102.006	0.006	16.565	0.007	102.009	0.003	16.570	0.002	1000	8.53
800	25.279	106.601	21.607	106.598	0.003	21.603	0.004	106.601	-0.000	21.608	-0.001	1200	8.68
900	25.423	110.510	26.678	110.508	0.002	26.676	0.002	110.510	-0.000	26.680	-0.002	1400	8.78
1000	25.517	113.911	31.773	113.910	0.001	31.771	0.002	113.912	-0.001	31.775	-0.002	1600	8.86
1100	25.582	116.920	36.883	116.920	0.000	36.882	0.001	116.921	-0.001	36.884	-0.001	1800	8.92
1200	25.629	119.618	42.005	119.618	0.000	42.004	0.001	119.618	-0.000	42.005	0.000	2000	8.97
1300	25.664	122.063	47.134	122.062	0.001	47.134	0.000	122.062	0.001	47.134	0.000	2200	9.01
1400	25.691	124.297	52.270	124.297	0.000	52.270	0.000	124.296	0.001	52.269	0.001	2400	9.04
1500	25.712	126.354	57.410	126.354	-0.000	57.411	-0.001	126.354	0.000	57.409	0.001	2600	9.07
1600	25.729	128.260	62.554	128.260	-0.000	62.555	-0.001	128.260	0.000	62.554	-0.000	2800	9.10
1700	25.742	130.036	67.701	130.036	0.000	67.702	-0.001	130.036	0.000	67.703	-0.002	3000	9.11
1800	25.742	130.036	67.701	130.036	0.000	67.702	-0.001	130.036	0.000	67.707	-0.006	3000	9.11
1900	25.753	131.698	72.851	131.698	0.000	72.852	-0.001	131.696	0.002	72.852	-0.001	3200	9.11
2000	25.762	133.259	78.003	133.259	-0.000	78.004	-0.001	133.257	0.002	78.001	0.002	3400	9.11
2100	25.770	134.732	83.156	134.732	-0.000	83.157	-0.001	134.729	0.003	83.153	0.003	3600	9.21
2200	25.776	136.125	88.310	136.126	-0.001	88.312	-0.002	136.123	0.002	88.307	0.003	3800	9.21
2300	25.782	137.448	93.466	137.448	0.000	93.467	-0.001	137.445	0.003	93.463	0.003	4000	9.21
2400	25.787	138.706	98.623	138.706	0.000	98.624	-0.001	138.703	0.003	98.621	0.002	4200	9.21
2500	25.791	139.905	103.781	139.905	-0.000	103.781	-0.000	139.903	0.002	103.779	0.002	4400	9.3
2600	25.794	141.052	108.939	141.052	0.000	108.939	-0.000	141.050	0.002	108.939	0.000	4600	9.3
2700	25.797	142.150	114.098	142.149	0.001	114.098	0.000	142.148	0.002	114.099	-0.001	4800	9.3
2800	25.800	143.203	119.258	143.203	0.000	119.257	0.001	143.201	0.002	119.259	-0.001	5000	9.4
2900	25.803	144.215	124.418	144.214	0.001	124.417	0.001	144.213	0.002	124.419	-0.001	5200	9.4
3000	25.805	145.189	129.579	145.188	0.001	129.578	0.001	145.187	0.002	129.580	-0.001	5400	9.4
3100	25.807	146.127	134.740	146.127	0.000	134.739	0.001	146.125	0.002	134.741	-0.001	5600	9.5
3200	25.809	147.033	139.902	147.033	0.000	139.902	0.000	147.031	0.002	139.901	0.001	5800	9.5
3300	25.810	147.908	145.064	147.908	0.000	145.065	-0.001	147.906	0.002	145.062	0.002	6000	9.6

CARBON MONOFLUORIDE
MOL. WT. = 31.010

(G) C 1F 1 0 0 0 0
BLOCK= 646 NO. POINT = 62

670

FITS FOR NOTS RMS = 0.004277

1 6 1 9 0 0 0 0 0 0 0 CARBON MONOFLUORIDE (G) 10J 670 120
+8.6660118E+0+2.7328562E-1+5.2166227E-2+5.5573098E-3 400 6000 11J 670 120
-3.2592773E-1+5.7482192E+1+5.9952880E+1+6.1000000E+1CF(G) 12J 670 120

FITS FOR EST RMS LOW = 0.005579 RMS HIGH = 0.004904

1 6 1 9 0 0 0 0 0 0 0 CARBON MONOFLUORIDE (G) 10CF
+610000+5+234643+5+877714+1+135280-3-342384+6+701279+2 4003000J 67011CF
+610000+5+234616+5+833841+1+200907-3+182278+7+701279+230006000J 67012CF

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.032	400	7.432	53.033	0.744	53.136	-0.103	0.784	-0.040	53.142	-0.109	0.788	-0.044	
0.009	600	7.954	56.149	2.284	56.134	0.015	2.271	0.013	56.134	0.015	2.271	0.013	
0.007	800	8.312	58.490	3.914	58.477	0.013	3.902	0.012	58.478	0.012	3.903	0.011	
0.002	1000	8.538	60.371	5.600	60.365	0.006	5.595	0.005	60.367	0.004	5.597	0.003	
-0.001	1200	8.686	61.942	7.324	61.940	0.002	7.323	0.001	61.942	0.000	7.325	-0.001	
-0.002	1400	8.789	63.289	9.072	63.288	0.001	9.073	-0.001	63.290	-0.001	9.075	-0.003	
-0.002	1600	8.864	64.468	10.837	64.468	0.000	10.839	-0.002	64.469	-0.001	10.841	-0.004	
-0.001	1800	8.923	65.515	12.616	65.515	-0.000	12.618	-0.002	65.516	-0.001	12.618	-0.002	
0.000	2000	8.970	66.458	14.406	66.457	0.001	14.407	-0.001	66.458	0.000	14.406	-0.000	
0.000	2200	9.010	67.315	16.204	67.314	0.001	16.204	-0.000	67.314	0.001	16.203	0.001	
0.001	2400	9.044	68.100	18.009	68.099	0.001	18.009	-0.000	68.099	0.001	18.007	0.002	
0.001	2600	9.075	68.825	19.821	68.824	0.001	19.821	0.000	68.824	0.001	19.819	0.002	
-0.000	2800	9.103	69.499	21.639	69.498	0.001	21.638	0.001	69.498	0.001	21.639	0.000	
-0.002	3000	9.130	70.128	23.462	70.127	0.001	23.462	0.000	70.128	0.000	23.464	-0.002	
-0.006	3000	9.130	70.128	23.462	70.127	0.001	23.462	0.000	70.128	0.000	23.462	0.000	
-0.001	3200	9.156	70.718	25.291	70.717	0.001	25.290	0.001	70.719	-0.001	25.292	-0.001	
0.002	3400	9.181	71.274	27.125	71.273	0.001	27.124	0.001	71.274	-0.000	27.126	-0.001	
0.003	3600	9.206	71.799	28.963	71.798	0.001	28.963	-0.000	71.800	-0.001	28.964	-0.001	
0.003	3800	9.232	72.298	30.807	72.297	0.001	30.807	-0.000	72.298	0.000	30.807	0.000	
0.003	4000	9.259	72.772	32.656	72.771	0.001	32.657	-0.001	72.772	0.000	32.655	0.001	
0.002	4200	9.286	73.224	34.511	73.224	0.000	34.511	-0.000	73.224	-0.000	34.509	0.002	
0.002	4400	9.316	73.657	36.371	73.656	0.001	36.372	-0.001	73.657	0.000	36.369	0.002	
0.000	4600	9.346	74.072	38.237	74.071	0.001	38.238	-0.001	74.072	0.000	38.236	0.001	
-0.001	4800	9.379	74.470	40.109	74.469	0.001	40.110	-0.001	74.470	-0.000	40.109	0.000	
-0.001	5000	9.413	74.854	41.988	74.853	0.001	41.988	-0.000	74.854	-0.000	41.989	-0.001	
-0.001	5200	9.448	75.223	43.874	75.222	0.001	43.874	0.000	75.224	-0.001	43.875	-0.001	
-0.001	5400	9.486	75.581	45.768	75.580	0.001	45.767	0.001	75.581	-0.000	45.769	-0.001	
-0.001	5600	9.525	75.926	47.669	75.925	0.001	47.668	0.001	75.927	-0.001	47.670	-0.001	
0.001	5800	9.565	76.261	49.578	76.260	0.001	49.577	0.001	76.262	-0.001	49.578	0.000	
0.002	6000	9.607	76.586	51.495	76.586	0.000	51.496	-0.001	76.586	-0.000	51.493	0.002	

CYANOGEN FLUORIDE
MOL. WT. = 45.010

(G) BLOCK = 652

C 1F 1N 1 0 0 0
NO. POINT = 62

669

CARBON
MOL.
DATA

FITS FOR NOTS RMS = 0.013552
6 1 7 1 9 0 0 0 0 0 CYANOGEN FLUORIDE (G) 10J 669 121
2520519E+1+8.1304025E-1-1.7217588E-1+1.2443426E-2 400 6000 11J 669 121
6507568E-1+2.4204950E+0+6.6942260E+1+8.5999994E+0CFN (G) 12J 669 121

1 6 2
+1.497702
-1.067702

FITS FOR EST RMS LOW = 0.021575 RMS HIGH = 0.004554
6 1 7 1 9 0 0 0 0 0 CYANOGEN FLUORIDE (G) 10CFN
9999+4+370119+5+140262+2+268582-3-862304+6+836199+2 4003000J 66911CFN
9999+4+370051+5+149992+2-143495-4-283827+7+836199+230006000J 66912CFN

FITS FOR
1 6 2
-435000+
-435000+

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K C/
4	00	10.934	56.939	1.074	57.256	-0.317	1.203	-0.129	57.307	-0.368	1.225	-0.151	400 10.
3	00	12.031	61.596	3.379	61.556	0.040	3.342	0.037	61.551	0.045	3.339	0.040	600 11.
1	00	12.779	65.166	5.864	65.120	0.046	5.825	0.039	65.116	0.050	5.822	0.042	800 12.
13	00	13.306	68.077	8.476	68.056	0.021	8.458	0.018	68.057	0.020	8.460	0.016	1000 12.
1	00	13.677	70.538	11.176	70.532	0.006	11.175	0.001	70.536	0.002	11.181	-0.005	1200 13.
3	00	13.942	72.668	13.940	72.668	0.000	13.947	-0.007	72.672	-0.004	13.953	-0.013	1400 13.
4	00	14.133	74.542	16.748	74.544	-0.002	16.757	-0.009	74.547	-0.005	16.762	-0.014	1600 13.
12	00	14.275	76.216	19.590	76.216	-0.000	19.598	-0.008	76.218	-0.002	19.599	-0.009	1800 13.
10	00	14.383	77.726	22.456	77.725	0.001	22.461	-0.005	77.724	0.002	22.458	-0.002	2000 13.
11	00	14.465	79.100	25.341	79.098	0.002	25.343	-0.002	79.096	0.004	25.337	0.004	2200 13.
12	00	14.530	80.362	28.241	80.358	0.004	28.240	0.001	80.356	0.006	28.233	0.008	2400 13.
10	00	14.582	81.527	31.152	81.523	0.004	31.150	0.002	81.521	0.006	31.145	0.007	2600 13.
12	00	14.624	82.609	34.073	82.605	0.004	34.070	0.003	82.606	0.003	34.071	0.002	2800 13.
10	00	14.658	83.620	37.002	83.615	0.005	36.998	0.004	83.620	0.000	37.012	-0.010	3000 13.
11	00	14.658	83.620	37.002	83.615	0.005	36.998	0.004	83.620	0.000	37.005	-0.003	3000 13.
11	00	14.687	84.567	39.936	84.562	0.005	39.934	0.002	84.566	0.001	39.937	-0.001	3200 14.
11	00	14.711	85.458	42.876	85.454	0.004	42.875	0.001	85.457	0.001	42.875	0.001	3400 14.
10	00	14.731	86.299	45.820	86.295	0.004	45.820	-0.000	86.298	0.001	45.819	0.001	3600 14.
11	00	14.748	87.096	48.768	87.093	0.003	48.769	-0.001	87.095	0.001	48.766	0.002	3800 14.
12	00	14.763	87.853	51.719	87.850	0.003	51.721	-0.002	87.852	0.001	51.718	0.001	4000 14.
12	00	14.776	88.573	54.673	88.570	0.003	54.676	-0.003	88.572	0.001	54.672	0.001	4200 14.
11	00	14.787	89.261	57.629	89.258	0.003	57.632	-0.003	89.260	0.001	57.629	0.000	4400 14.
10	00	14.797	89.919	60.588	89.915	0.004	60.590	-0.002	89.918	0.001	60.588	0.000	4600 14.
11	00	14.805	90.549	63.548	90.545	0.004	63.549	-0.001	90.548	0.001	63.548	-0.000	4800 14.
11	00	14.813	91.153	66.510	91.149	0.004	66.509	0.001	91.152	0.001	66.510	-0.000	5000 15.
11	00	14.819	91.734	69.473	91.730	0.004	69.471	0.002	91.733	0.001	69.474	-0.001	5200 15.
11	00	14.825	92.294	72.438	92.290	0.004	72.435	0.003	92.293	0.001	72.438	-0.000	5400 15.
10	00	14.831	92.833	75.403	92.829	0.004	75.401	0.002	92.832	0.001	75.403	-0.000	5600 15.
12	00	14.836	93.353	78.370	93.350	0.003	78.369	0.001	93.352	0.001	78.369	0.001	5800 15.
	00	14.840	93.856	81.337	93.853	0.003	81.341	-0.004	93.855	0.001	81.336	0.001	6000 15.

CARBONYL FLUORIDE (G) C 1F 20 1 0 0 0 1269
 MOL. WT. = 66.000 BLOCK = 665 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -152.700 KEY = 123

0 1 8 2 9 0 0 0 0 CARBONYL FLUORIDE
 .8642242E+1+7.4288070E-1-1.6059499E-1+1.1792473E-2 400 6000 11J1269 123 +1.920
 .3368225E+0-1.6215757E+2+7.8431991E+1-1.5269999E+2CF20(G) 12J1269 123 -1.200

FITS FOR EST RMS LOW = 0.023189 RMS HIGH = 0.005880
 6 1 8 2 9 0 0 0 0 0 CARBONYL FLUORIDE (G) 10CF20
 .2699+6+490644+5+191041+2+240078-3-142451+7+100603+3 4003000J126911CF20 -1123
 .2699+6+490582+5+199913+2-177559-4-329651+7+100603+330006000J126912CF20 -1123

-----NOTS-----														-----EST-----	
T/M	CP		S	H	SC	DS	HC	DH	SC	DS	HC	DH	T		
	C/M-K	C/M-K													
.042	13.092	65.432	1.245	65.812	-0.380	1.397	-0.152	65.859	-0.427	1.419	-0.174	400			
.018	15.505	71.240	4.127	71.183	0.057	4.078	0.049	71.180	0.060	4.077	0.050	600			
.008	16.924	75.912	7.382	75.861	0.051	7.339	0.043	75.859	0.053	7.338	0.044	800			
.002	17.786	79.789	10.860	79.767	0.022	10.842	0.018	79.769	0.020	10.845	0.015	1000			
.005	18.334	83.084	14.475	83.078	0.006	14.476	-0.001	83.082	0.002	14.482	-0.007	1200			
.004	18.697	85.939	18.181	85.939	-0.000	18.189	-0.008	85.944	-0.005	18.195	-0.014	1400			
.001	18.949	88.453	21.947	88.454	-0.001	21.956	-0.009	88.458	-0.005	21.961	-0.014	1600			
.002	19.129	90.696	25.756	90.696	0.000	25.763	-0.007	90.698	-0.002	25.765	-0.009	1800			
.003	19.262	92.719	29.596	92.717	0.002	29.600	-0.004	92.717	0.002	29.597	-0.001	2000			
.002	19.363	94.559	33.459	94.556	0.003	33.460	-0.001	94.555	0.004	33.454	0.005	2200			
.000	19.441	96.248	37.339	96.243	0.005	37.338	0.001	96.241	0.007	37.332	0.007	2400			
.002	19.503	97.806	41.234	97.801	0.005	41.231	0.003	97.800	0.006	41.227	0.007	2600			
.002	19.552	99.253	45.140	99.248	0.005	45.136	0.004	99.250	0.003	45.138	0.002	2800			
.015	19.592	100.604	49.054	100.599	0.005	49.051	0.003	100.604	0.000	49.064	-0.010	3000			
.000	19.592	100.604	49.054	100.599	0.005	49.051	0.003	100.604	0.000	49.058	-0.004	3000			
.007	19.625	101.869	52.976	101.865	0.004	52.974	0.002	101.868	0.001	52.977	-0.001	3200			
.007	19.653	103.060	56.904	103.056	0.004	56.903	0.001	103.058	0.002	56.903	0.001	3400			
.005	19.676	104.184	60.837	104.180	0.004	60.837	-0.000	104.182	0.002	60.835	0.002	3600			
.002	19.696	105.248	64.774	105.245	0.003	64.776	-0.002	105.247	0.001	64.772	0.002	3800			
.002	19.713	106.259	68.715	106.256	0.003	68.717	-0.002	106.257	0.002	68.713	0.002	4000			
.004	19.727	107.221	72.659	107.218	0.003	72.662	-0.003	107.219	0.002	72.657	0.002	4200			
.004	19.740	108.139	76.605	108.136	0.003	76.608	-0.003	108.138	0.001	76.604	0.001	4400			
.003	19.751	109.017	80.555	109.013	0.004	80.556	-0.001	109.015	0.002	80.554	0.001	4600			
.001	19.761	109.858	84.506	109.854	0.004	84.506	-0.000	109.856	0.002	84.506	0.000	4800			
.001	19.769	110.665	88.459	110.661	0.004	88.458	0.001	110.663	0.002	88.459	-0.000	5000			
.003	19.777	111.440	92.413	111.436	0.004	92.411	0.002	111.439	0.001	92.414	-0.001	5200			
.004	19.784	112.187	96.369	112.182	0.005	96.367	0.002	112.185	0.002	96.370	-0.001	5400			
.002	19.790	112.906	100.327	112.902	0.004	100.324	0.003	112.905	0.001	100.327	-0.000	5600			
.005	19.795	113.601	104.285	113.597	0.004	104.285	0.000	113.599	0.002	104.285	0.000	5800			
	19.800	114.272	108.245	114.269	0.003	108.248	-0.003	114.270	0.002	108.243	0.002	6000			

CARBON TRIFLUORIDE (G) C 1F 3 0 0 0 0 669
 MOL. WT.= 69.000 BLOCK= 671 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -112.400 KEY = 124
 FITS FOR EST RMS = 0.004865

+1.9201980E+1+4.1379499E-1-9.1032683E-2+6.7785196E-3 400 6000
 -1.2043914E+0-1.2170948E+2+8.1030883E+1-1.1239999E+2CF3(G) 12J 669 124

FITS FOR EST RMS LOW = 0.014851 RMS HIGH = 0.005899
 1 6 3 9 0 0 0 0 0 0 0 CARBON TRIFLUORIDE (G) 10CF3
 -112399+6+498853+5+194552+2+132509-3-125086+7+103088+3 4003000J 66911CF3
 -112399+6+498834+5+199998+2-188630-4-253475+7+103088+330006000J 66912CF3

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
.174	400	13.735	67.092	1.309	67.358	-0.266	1.413	-0.104	67.383	-0.291	1.426	-0.117
.050	600	16.172	73.170	4.323	73.127	0.043	4.287	0.036	73.127	0.043	4.288	0.035
.044	800	17.503	78.024	7.704	77.990	0.034	7.675	0.029	77.990	0.034	7.677	0.027
.015	1000	18.253	82.018	11.286	82.004	0.014	11.275	0.011	82.006	0.012	11.279	0.007
.007	1200	18.706	85.389	14.986	85.385	0.004	14.986	0.000	85.389	0.000	14.990	-0.004
.014	1400	18.995	88.296	18.758	88.295	0.001	18.762	-0.004	88.299	-0.003	18.767	-0.009
.014	1600	19.190	90.846	22.578	90.846	0.000	22.583	-0.005	90.849	-0.003	22.586	-0.008
.009	1800	19.328	93.114	26.430	93.114	0.000	26.434	-0.004	93.115	-0.001	26.435	-0.005
.001	2000	19.428	95.156	30.306	95.155	0.001	30.309	-0.003	95.155	0.001	30.307	-0.001
.005	2200	19.503	97.012	34.200	97.009	0.003	34.200	-0.000	97.009	0.003	34.197	0.003
.007	2400	19.560	98.711	38.106	98.708	0.003	38.106	0.000	98.707	0.004	38.102	0.004
.007	2600	19.606	100.279	42.023	100.275	0.003	42.022	0.001	100.275	0.004	42.019	0.004
.002	2800	19.642	101.733	45.948	101.730	0.003	45.946	0.002	101.730	0.003	45.947	0.001
.010	3000	19.671	103.089	49.879	103.086	0.003	49.878	0.001	103.089	0.000	49.885	-0.006
.004	3000	19.671	103.089	49.879	103.086	0.003	49.878	0.001	103.089	0.000	49.883	-0.004
.001	3200	19.695	104.359	53.816	104.357	0.002	53.815	0.001	104.358	0.001	53.817	-0.001
.001	3400	19.715	105.554	57.757	105.551	0.003	57.757	0.000	105.552	0.002	57.756	0.001
.002	3600	19.732	106.681	61.702	106.679	0.002	61.702	-0.000	106.679	0.002	61.700	0.002
.002	3800	19.746	107.749	65.649	107.746	0.003	65.651	-0.002	107.746	0.003	65.647	0.002
.002	4000	19.758	108.762	69.600	108.760	0.002	69.602	-0.002	108.760	0.002	69.598	0.002
.002	4200	19.768	109.726	73.553	109.724	0.002	73.554	-0.001	109.724	0.002	73.551	0.002
.001	4400	19.778	110.646	77.507	110.644	0.002	77.509	-0.002	110.644	0.002	77.506	0.001
.001	4600	19.786	111.525	81.464	111.523	0.002	81.465	-0.001	111.523	0.001	81.463	0.001
.000	4800	19.793	112.367	85.421	112.365	0.002	85.422	-0.001	112.366	0.001	85.421	-0.000
.000	5000	19.799	113.175	89.380	113.173	0.002	89.380	0.000	113.174	0.001	89.381	-0.001
.001	5200	19.804	113.952	93.341	113.949	0.003	93.339	0.002	113.951	0.001	93.341	-0.000
.001	5400	19.809	114.700	97.302	114.697	0.003	97.300	0.002	114.698	0.002	97.303	-0.001
.000	5600	19.813	115.420	101.264	115.417	0.003	101.263	0.001	115.419	0.001	101.264	-0.001
.000	5800	19.817	116.115	105.227	116.113	0.002	105.227	0.000	116.114	0.001	105.227	0.000
.002	6000	19.821	116.787	109.191	116.785	0.002	109.193	-0.002	116.785	0.002	109.189	0.002

CARBON TETRAFLUORIDE (G) C 1F 4 0 0 0 0 669 ME
 MOL. WT.= 88.000 BLOCK= 677 NO. POINT = 62 P
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -223.040 KEY = 125 DAT
 FITS FOR NOTS RMS = 0.013247 FIT
 0 0 0 0 0 0 0 0 0 CARBON TETRAFLUORIDE (G) 10J 669 125 1 1

621093E+0-2.3543629E+2+8.4931701E+1-2.2303999E+2CF4(G) 12J 669 125 -3.54
 FITS FOR EST RMS LOW = 0.019913 RMS HIGH = 0.007760 FIE
 6 4 9 0 0 0 0 0 0 0 CARBON TETRAFLUORIDE (G) 10CF4 1
 13039+6+645461+5+252695+2+179280-3-172400+7+113619+3 4003000J 66911CF4 +1420
 23039+6+645441+5+260014+2-245972-4-357785+7+113619+330006000J 66912CF4 +1420

-----NOTS-----

-----EST-----

H	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
.117	400	17.304	67.139	1.631	67.498	-0.359	1.772	-0.141	67.530	-0.391	1.788	-0.157	400
.035	500	20.741	74.877	5.471	74.820	0.057	5.422	0.048	74.819	0.058	5.423	0.048	600
.027	600	22.580	81.122	9.821	81.077	0.045	9.793	0.038	81.077	0.045	9.784	0.037	800
.007	700	23.613	86.282	14.450	86.263	0.019	14.435	0.015	86.266	0.016	14.439	0.011	1000
.004	800	24.234	90.647	19.239	90.641	0.006	19.239	-0.000	90.646	0.001	19.245	-0.006	1200
.009	900	24.631	94.414	24.129	94.414	0.000	24.135	-0.006	94.418	-0.004	24.141	-0.012	1400
.008	1000	24.899	97.722	29.083	97.722	-0.000	29.090	-0.007	97.725	-0.003	29.094	-0.011	1600
.005	1100	25.087	100.666	34.083	100.665	0.001	34.088	-0.005	100.667	-0.001	34.089	-0.006	1800
.001	1200	25.224	103.317	39.115	103.315	0.002	39.118	-0.003	103.314	0.002	39.116	-0.001	2000
.003	1300	25.327	105.726	44.170	105.723	0.003	44.171	-0.001	105.721	0.005	44.167	0.003	2200
.004	1400	25.406	107.933	49.244	107.929	0.004	49.243	0.001	107.928	0.005	49.238	0.006	2400
.004	1500	25.468	109.969	54.332	109.965	0.004	54.330	0.002	109.964	0.005	54.326	0.006	2600
.001	1600	25.518	111.858	59.430	111.854	0.004	59.428	0.002	111.855	0.003	59.429	0.001	2800
.006	1700	25.558	113.620	64.538	113.616	0.004	64.536	0.002	113.620	0.000	64.546	-0.008	3000
.004	1800	25.558	113.620	64.538	113.616	0.004	64.536	0.002	113.620	0.000	64.544	-0.006	3000
.001	1900	25.591	115.271	69.653	115.267	0.004	69.652	0.001	115.269	0.002	69.655	-0.002	3200
.001	2000	25.618	116.823	74.774	116.820	0.003	74.774	-0.000	116.821	0.002	74.773	0.001	3400
.002	2100	25.641	118.288	79.900	118.285	0.003	79.901	-0.001	118.285	0.001	79.897	0.003	3600
.002	2200	25.661	119.675	85.030	119.672	0.003	85.032	-0.002	119.672	0.003	85.027	0.003	3800
.002	2300	25.677	120.992	90.164	120.989	0.003	90.166	-0.002	120.989	0.003	90.161	0.003	4000
.002	2400	25.692	122.245	95.301	122.242	0.003	95.303	-0.002	122.242	0.003	95.299	0.002	4200
.001	2500	25.704	123.440	100.440	123.437	0.003	100.443	-0.003	123.438	0.002	100.439	0.001	4400
.001	2600	25.715	124.583	105.582	124.580	0.003	105.584	-0.002	124.581	0.002	105.582	0.000	4600
.000	2700	25.725	125.678	110.726	125.674	0.004	110.727	-0.001	125.675	0.003	110.727	-0.001	4800
.001	2800	25.733	126.728	115.872	126.724	0.004	115.871	0.001	126.726	0.002	115.873	-0.001	5000
.000	2900	25.741	127.737	121.020	127.734	0.003	121.018	0.002	127.735	0.002	121.021	-0.001	5200
.001	3000	25.747	128.709	126.168	128.705	0.004	126.166	0.002	128.707	0.002	126.169	-0.001	5400
.001	3100	25.753	129.646	131.318	129.642	0.004	131.316	0.002	129.643	0.003	131.319	-0.001	5600
.000	3200	25.759	130.549	136.470	130.546	0.003	136.469	0.001	130.547	0.002	136.469	0.001	5800
.002	3300	25.764	131.423	141.622	131.420	0.003	141.625	-0.003	131.420	0.003	141.620	0.002	6000

METHYLLIDYNE (G) C 1H 1 0 0 0 0 1267
 MOL. WT.= 13.010 BLOCK= 683 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 142.000 KEY = 126
 FITS FOR NOTS RMS = 0.032725
 1 1 1 6 0 0 0 0 0 0 0 METHYLLIDYNE (G) 10J1267 126

-3.5432434E-1+1.3934526E+2+4.9801651E+1+1.4200000E+2CH (G) 12J1267 126

FITS FOR EST RMS LOW = 0.048879 RMS HIGH = 0.008051
 1 1 1 6 0 0 0 0 0 0 0 METHYLLIDYNE (G) 10CH
 +142000+6+234943+5+797163+1+744580-3-692496+6+622729+2 4C03000J126711CH
 +142000+6+234616+5+939082+1+138570-3+115020+7+622729+230006000J126712CH

-----NOTS-----

-----EST-----

/M	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
157	400	6.984	45.771	0.711	46.240	-0.469	0.911	-0.200	46.401	-0.630	0.978	-0.267
048	600	7.112	48.621	2.117	48.611	0.010	2.091	0.026	48.579	0.042	2.069	0.048
037	800	7.401	50.704	3.566	50.629	0.075	3.498	0.068	50.601	0.103	3.479	0.087
011	1000	7.783	52.395	5.084	52.341	0.054	5.034	0.050	52.334	0.061	5.034	0.050
006	1200	8.186	53.850	6.681	53.824	0.025	6.663	0.018	53.830	0.020	6.677	0.004
012	1400	8.564	55.141	8.357	55.135	0.006	8.364	-0.007	55.144	-0.003	8.383	-0.026
011	1600	8.893	56.306	10.103	56.310	-0.004	10.125	-0.022	56.316	-0.010	10.139	-0.036
006	1800	9.165	57.370	11.910	57.376	-0.006	11.935	-0.025	57.376	-0.006	11.938	-0.028
001	2000	9.382	58.347	13.766	58.351	-0.004	13.786	-0.020	58.344	0.003	13.777	-0.011
003	2200	9.551	59.250	15.660	59.249	0.001	15.672	-0.012	59.238	0.012	15.652	0.008
006	2400	9.678	60.087	17.583	60.082	0.005	17.586	-0.003	60.069	0.018	17.563	0.020
006	2600	9.774	60.865	19.529	60.857	0.008	19.524	0.005	60.847	0.018	19.507	0.022
001	2800	9.844	61.592	21.491	61.583	0.009	21.481	0.010	61.580	0.012	21.485	0.006
008	3000	9.895	62.273	23.465	62.263	0.010	23.453	0.012	62.273	0.000	23.494	-0.029
006	3000	9.895	62.273	23.465	62.263	0.010	23.453	0.012	62.273	0.000	23.462	0.003
002	3200	9.933	62.913	25.448	62.903	0.010	25.437	0.011	62.915	-0.002	25.450	-0.002
001	3400	9.962	63.516	27.438	63.507	0.009	27.429	0.009	63.518	-0.002	27.440	-0.002
003	3600	9.985	64.086	29.433	64.078	0.008	29.429	0.004	64.088	-0.002	29.434	-0.001
003	3800	10.005	64.627	31.432	64.620	0.007	31.432	-0.000	64.628	-0.001	31.432	0.000
003	4000	10.023	65.140	33.435	65.135	0.005	33.439	-0.004	65.141	-0.001	33.433	0.002
002	4200	10.040	65.630	35.441	65.625	0.005	35.448	-0.007	65.630	-0.000	35.439	0.002
001	4400	10.059	66.097	37.451	66.093	0.004	37.459	-0.008	66.098	-0.001	37.449	0.002
000	4600	10.079	66.545	39.465	66.540	0.005	39.472	-0.007	66.545	-0.000	39.463	0.002
001	4800	10.100	66.974	41.482	66.969	0.005	41.487	-0.005	66.975	-0.001	41.482	0.000
001	5000	10.124	67.387	43.505	67.381	0.006	43.505	-0.000	67.388	-0.001	43.505	-0.000
001	5200	10.150	67.785	45.532	67.777	0.008	45.528	0.004	67.786	-0.001	45.534	-0.002
001	5400	10.178	68.168	47.565	68.160	0.008	47.558	0.007	68.170	-0.002	47.567	-0.002
001	5600	10.208	68.539	49.603	68.531	0.008	49.596	0.007	68.540	-0.001	49.605	-0.002
001	5800	10.240	68.898	51.648	68.891	0.007	51.646	0.002	68.899	-0.001	51.648	-0.000
002	6000	10.274	69.245	53.700	69.241	0.004	53.711	-0.011	69.246	-0.001	53.696	0.004

DICHLOROFLUOROMETHANE (G) C 1H 1CL 2F 1 0 0 670
 MOL. WT.= 102.920 BLOCK= 696 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -67.700 KEY = 128
 FITS FOR NOTS RMS = 0.023368
 1 1 1 6 1 9 2 17 0 0 0 DICHLOROFLUOROMETHANE (G) 10J 670 128
 +2.2969375E+1+1.6397895E+0-3.4134632E-1+2.4381145E-2 400 6000 11J 670 128
 -1.6125488E+0-7.9223327E+1+9.0591110E+1-6.7699996E+1CHCL2F(G) 12J 670 128

FITS FOR EST RMS LOW = 0.038876 RMS HIGH = 0.007844
 1 1 1 6 1 9 2 17 0 0 0 DICHLOROFLUOROMETHANE (G) 10CHCL2F
 -676999+5+627482+5+240007+2+546579-3-181792+7+119525+3 4003000J 67011CHCL2F
 -676999+5+627346+5+259668+2-207082-4-578304+7+119525+330006000J 67012CHCL2F

DH C/M	-----NOTS-----												-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
0.286	400	16.785	74.674	1.602	75.213	-0.539	1.820	-0.218	75.326	-0.652	1.869	-0.267				
0.074	600	19.701	82.087	5.277	82.022	0.065	5.217	0.060	82.010	0.077	5.209	0.068				
0.079	800	21.413	88.009	9.403	87.932	0.077	9.337	0.066	87.920	0.089	9.328	0.075				
0.031	1000	22.510	92.913	13.802	92.875	0.038	13.771	0.031	92.873	0.040	13.772	0.030				
0.006	1200	23.260	97.087	18.384	97.075	0.012	18.380	0.004	97.081	0.006	18.390	-0.006				
0.025	1400	23.795	100.715	23.092	100.714	0.001	23.104	-0.012	100.722	-0.007	23.116	-0.024				
0.027	1600	24.186	103.919	27.892	103.922	-0.003	27.908	-0.016	103.928	-0.009	27.917	-0.025				
0.018	1800	24.479	106.786	32.760	106.787	-0.001	32.774	-0.014	106.789	-0.003	32.777	-0.017				
0.005	2000	24.703	109.377	37.679	109.376	0.001	37.689	-0.010	109.374	0.003	37.684	-0.005				
0.007	2200	24.878	111.740	42.638	111.736	0.004	42.642	-0.004	111.732	0.008	42.631	0.007				
0.015	2400	25.016	113.911	47.628	113.905	0.006	47.627	0.001	113.899	0.012	47.614	0.014				
0.015	2600	25.127	115.918	52.643	115.910	0.008	52.638	0.005	115.906	0.012	52.629	0.014				
0.003	2800	25.217	117.783	57.678	117.775	0.008	57.672	0.006	117.776	0.007	57.674	0.004				
0.021	3000	25.292	119.526	62.729	119.518	0.008	62.723	0.006	119.526	0.000	62.748	-0.019				
0.006	3000	25.292	119.526	62.729	119.518	0.008	62.723	0.006	119.526	0.000	62.735	-0.006				
0.002	3200	25.354	121.160	67.793	121.153	0.007	67.789	0.004	121.159	0.001	67.795	-0.002				
0.002	3400	25.406	122.699	72.870	122.692	0.007	72.867	0.003	122.697	0.002	72.868	0.002				
0.003	3600	25.450	124.152	77.955	124.146	0.006	77.955	-0.000	124.150	0.002	77.952	0.002				
0.003	3800	25.487	125.529	83.049	125.524	0.005	83.051	-0.002	125.527	0.002	83.046	0.003				
0.003	4000	25.520	126.837	88.150	126.832	0.005	88.154	-0.004	126.835	0.002	88.147	0.003				
0.002	4200	25.548	128.083	93.257	128.078	0.005	93.262	-0.005	128.081	0.002	93.255	0.002				
0.001	4400	25.573	129.272	98.369	129.267	0.005	98.374	-0.005	129.270	0.002	98.368	0.001				
0.000	4600	25.594	130.410	103.486	130.404	0.006	103.489	-0.003	130.408	0.002	103.485	0.001				
0.000	4800	25.613	131.499	108.606	131.494	0.005	108.608	-0.002	131.497	0.002	108.607	-0.001				
0.001	5000	25.630	132.545	113.731	132.539	0.006	113.730	0.001	132.543	0.002	113.732	-0.001				
0.001	5200	25.645	133.551	118.858	133.544	0.007	118.855	0.003	133.549	0.002	118.859	-0.001				
0.001	5400	25.658	134.519	123.989	134.512	0.007	123.984	0.005	134.517	0.002	123.990	-0.001				
0.000	5600	25.670	135.452	129.121	135.445	0.007	129.117	0.004	135.450	0.002	129.122	-0.001				
0.000	5800	25.681	136.353	134.257	136.347	0.006	134.256	0.001	136.351	0.002	134.256	0.001				
0.002	6000	25.691	137.224	139.394	137.219	0.005	139.400	-0.006	137.222	0.002	139.392	0.002				

TRICHLOROMETHANE (G) C 1H 1CL 3 0 0 0 1268
 MOL. WT. = 119.370 BLOCK = 702 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -24.660 KEY = 129
 TS FOR NOTS RMS = 0.020887
 1 1 6 3 17 0 0 0 0 TRICHLOROMETHANE (G) 10J1268 129
 150070E+1+1.5279998E+0-3.1691104E-1+2.2578924E-2 400 6000 11J1268 129
 033203E+0-3.5648315E+1+9.2241592E+1-2.4659988E+1CHCL3 (G) 12J1268 129

FOR
 NO
 DATA
 FITS
 1 1
 +1.649
 -1.627

TS FOR EST RMS LOW = 0.034900 RMS HIGH = 0.007659
 1 1 6 3 17 0 0 0 0 TRICHLOROMETHANE (G) 10CHCL3
 599+5+634336+5+241113+2+510910-3-159494+7+121120+3 4003000J126811CHCL3
 599+5+634219+5+259650+2-203817-4-541056+7+121120+330006000J126812CHCL3

FITS
 1 1
 -90000
 -90000

T/M	-----NOTS-----								-----EST-----				T K
	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M		
267	17.747	75.532	1.705	76.001	-0.469	1.896	-0.191	76.106	-0.574	1.942	-0.237	400	
268	20.378	83.280	5.545	83.226	0.054	5.494	0.051	83.216	0.064	5.486	0.059	600	
275	21.872	89.365	9.782	89.297	0.068	9.723	0.059	89.285	0.080	9.715	0.067	800	
300	22.831	94.355	14.258	94.320	0.035	14.229	0.029	94.319	0.036	14.231	0.027	1000	
306	23.494	98.580	18.895	98.568	0.012	18.891	0.004	98.574	0.006	18.899	-0.004	1200	
324	23.971	102.239	23.644	102.238	0.001	23.653	-0.009	102.246	-0.007	23.665	-0.021	1400	
325	24.323	105.464	28.475	105.466	-0.002	28.489	-0.014	105.472	-0.008	28.498	-0.023	1600	
37	24.589	108.345	33.367	108.346	-0.001	33.380	-0.013	108.349	-0.004	33.383	-0.016	1800	
005	24.793	110.947	38.306	110.946	0.001	38.315	-0.009	110.944	0.003	38.311	-0.005	2000	
007	24.952	113.318	43.281	113.314	0.004	43.285	-0.004	113.310	0.008	43.275	0.006	2200	
014	25.079	115.494	48.285	115.489	0.005	48.284	0.001	115.484	0.010	48.272	0.013	2400	
014	25.181	117.506	53.311	117.499	0.007	53.307	0.004	117.496	0.010	53.299	0.012	2600	
004	25.264	119.375	58.356	119.368	0.007	58.351	0.005	119.368	0.007	58.353	0.003	2800	
019	25.332	121.121	63.416	121.114	0.007	63.411	0.005	121.121	0.000	63.434	-0.018	3000	
006	25.332	121.121	63.416	121.114	0.007	63.411	0.005	121.121	0.000	63.422	-0.006	3000	
002	25.389	122.757	68.488	122.751	0.006	68.484	0.004	122.756	0.001	68.490	-0.002	3200	
002	25.437	124.298	73.571	124.292	0.006	73.569	0.002	124.296	0.002	73.570	0.001	3400	
003	25.478	125.753	78.663	125.748	0.005	78.663	0.000	125.751	0.002	78.660	0.003	3600	
003	25.513	127.132	83.762	127.127	0.005	83.764	-0.002	127.129	0.003	83.759	0.003	3800	
002	25.543	128.441	88.867	128.437	0.004	88.871	-0.004	128.439	0.002	88.865	0.002	4000	
001	25.569	129.688	93.979	129.684	0.004	93.983	-0.004	129.686	0.002	93.977	0.002	4200	
001	25.592	130.878	99.095	130.874	0.004	99.099	-0.004	130.876	0.002	99.093	0.002	4400	
001	25.611	132.016	104.215	132.011	0.005	104.218	-0.003	132.014	0.002	104.215	0.000	4600	
001	25.629	133.106	109.339	133.101	0.005	109.341	-0.002	133.105	0.001	109.339	-0.001	4800	
001	25.645	134.153	114.467	134.148	0.005	114.466	0.001	134.151	0.002	114.467	-0.000	5000	
001	25.659	135.159	119.597	135.153	0.006	119.594	0.003	135.158	0.001	119.598	-0.001	5200	
001	25.671	136.128	124.730	136.122	0.006	124.726	0.004	136.126	0.002	124.731	-0.001	5400	
001	25.682	137.061	129.865	137.055	0.006	129.861	0.004	137.060	0.001	129.866	-0.001	5600	
001	25.692	137.963	135.003	137.957	0.006	135.002	0.001	137.961	0.002	135.002	0.001	5800	
002	25.701	138.834	140.142	138.830	0.004	140.148	-0.006	138.832	0.002	140.140	0.002	6000	

HYDROGEN CYANIDE (G) C 1H 1N 1 0 0 0 1269
 MOL. WT.= 27.020 BLOCK= 721 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 32.300 KEY = 132
 FITS FOR NOTS RMS = 0.023429
 1 1 1 6 1 7 0 0 0 0 0 HYDROGEN CYANIDE (G) 10J1269 132
 +1.1232844E+1+2.1475944E+0-4.1125488E-1+2.7415350E-2 400 6000 11J1269 132
 -8.2992553E-1+2.6681457E+1+5.8196609E+1+3.2299987E+1CHN(G) 12J1269 132

FITS FOR EST RMS LOW = 0.041677 RMS HIGH = 0.005983
 1 1 1 6 1 7 0 0 0 0 0 HYDROGEN CYANIDE (G) 10CHN
 +322999+5+349044+5+125475+2+789845-3-110200+7+754299+2 4003000J126911CHN
 +322999+5+348880+5+155627+2-291958-4-805894+7+754299+230006000J126912CHN

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.341	400	9.376	50.849	0.916	51.324	-0.475	1.113	-0.197	51.477	-0.628	1.177	-0.261	
0.091	600	10.470	54.871	2.907	54.828	0.043	2.862	0.045	54.809	0.062	2.847	0.060	
0.093	800	11.309	58.002	5.088	57.930	0.072	5.025	0.063	57.907	0.095	5.008	0.080	
0.035	1000	12.005	60.603	7.421	60.563	0.040	7.388	0.033	60.555	0.048	7.385	0.036	
-0.009	1200	12.574	62.843	9.881	62.830	0.013	9.876	0.005	62.832	0.011	9.884	-0.003	
-0.029	1400	13.031	64.817	12.443	64.817	0.000	12.455	-0.012	64.823	-0.006	12.468	-0.025	
-0.031	1600	13.396	66.582	15.087	66.585	-0.003	15.105	-0.018	66.591	-0.009	15.116	-0.029	
-0.021	1800	13.689	68.177	17.797	68.180	-0.003	17.813	-0.016	68.181	-0.004	17.817	-0.020	
-0.005	2000	13.925	69.632	20.559	69.632	-0.000	20.570	-0.011	69.629	0.003	20.566	-0.007	
0.009	2200	14.118	70.969	23.364	70.966	0.003	23.369	-0.005	70.959	0.010	23.357	0.007	
0.018	2400	14.278	72.204	26.204	72.199	0.005	26.203	0.001	72.191	0.013	26.188	0.016	
0.017	2600	14.411	73.353	29.074	73.345	0.008	29.069	0.005	73.339	0.014	29.057	0.017	
0.004	2800	14.523	74.425	31.967	74.417	0.008	31.960	0.007	74.415	0.010	31.963	0.004	
-0.023	3000	14.620	75.430	34.882	75.422	0.008	34.875	0.007	75.430	0.000	34.904	-0.022	
-0.006	3000	14.620	75.430	34.882	75.422	0.008	34.875	0.007	75.430	0.000	34.888	-0.006	
-0.001	3200	14.702	76.377	37.814	76.369	0.008	37.808	0.006	76.374	0.003	37.815	-0.001	
0.001	3400	14.774	77.270	40.762	77.263	0.007	40.758	0.004	77.267	0.003	40.760	0.002	
0.003	3600	14.836	78.116	43.723	78.110	0.006	43.722	0.001	78.113	0.003	43.720	0.003	
0.003	3800	14.890	78.920	46.656	78.914	0.006	46.697	-0.001	78.917	0.003	46.693	0.003	
0.003	4000	14.937	79.685	49.679	79.680	0.005	49.682	-0.003	79.682	0.003	49.677	0.002	
0.002	4200	14.979	80.415	52.670	80.410	0.005	52.675	-0.005	80.412	0.003	52.670	0.000	
0.001	4400	15.015	81.112	55.670	81.108	0.004	55.675	-0.005	81.110	0.002	55.670	0.000	
0.001	4600	15.046	81.781	58.676	81.775	0.005	58.680	-0.004	81.778	0.003	58.677	-0.001	
-0.000	4800	15.073	82.421	61.688	82.416	0.005	61.690	-0.002	82.419	0.002	61.689	-0.001	
-0.000	5000	15.096	83.037	64.705	83.031	0.006	64.705	0.000	83.035	0.002	64.706	-0.001	
-0.001	5200	15.116	83.630	67.726	83.623	0.007	67.723	0.003	83.627	0.003	67.726	-0.000	
-0.000	5400	15.131	84.200	70.751	84.194	0.006	70.746	0.005	84.198	0.002	70.750	0.001	
-0.000	5600	15.143	84.751	73.778	84.744	0.007	73.774	0.004	84.748	0.003	73.778	0.000	
0.001	5800	15.152	85.283	76.808	85.276	0.007	76.807	0.001	85.280	0.003	76.807	0.001	
0.002	6000	15.157	85.796	79.839	85.792	0.004	79.846	-0.007	85.794	0.002	79.839	-0.000	

FORMALDEHYDE (G) C 1H 2O 1 361 METH
 MOL. WT. = 30.020 BLCK = 765 NO. POINT = 62 MOL
 DATA
 TA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -27.700 KEY = 139
 TS FOR NOTS RMS = C.043695
 1 1 6 1 8 0 0 0 0 0 FORMALDEHYDE (G) 10J 361 139
 672527E+1+2.9991569E+0-6.2628239E-1+4.4775888E-2 400 6000 11J 361 139
 9484100E+0-3.7355514E+1+6.2062194E+1-2.7699996E+1CH2O (G) 12J 361 139
 3 1 1
 +1.2482
 -1.4119
 TS FOR EST RMS LOW = 0.072630 RMS HIGH = 0.005858
 1 1 6 1 8 0 0 0 0 0 FORMALDEHYDE (G) 10CH2O
 9999+5+438271+5+165697+2+993392-3-232736+7+848879+2 4003000J 36111CH2O
 9999+5+437953+5+199284+2-100063-4-812518+7+848879+230006000J 36112CH2O
 3 1 1
 +348199
 +348199

-----NOTS-----								-----EST-----					
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
4	9.385	54.869	0.906	55.857	-0.988	1.311	-0.405	56.062	-1.193	1.397	-0.491	400	10
8	11.524	59.079	2.998	58.963	0.116	2.892	0.106	58.939	0.140	2.871	0.127	600	11
9	13.380	62.659	5.495	62.517	0.142	5.375	0.120	62.490	0.169	5.355	0.140	800	12
3	14.817	65.806	8.322	65.737	0.069	8.267	0.055	65.732	0.074	8.266	0.056	1000	14
7	15.893	68.608	11.398	68.588	0.020	11.397	0.001	68.596	0.012	11.410	-0.012	1200	15
1	16.693	71.121	14.660	71.122	-0.001	14.687	-0.027	71.134	-0.013	14.705	-0.045	1400	15
5	17.291	73.391	18.062	73.397	-0.006	18.095	-0.033	73.407	-0.016	18.110	-0.048	1600	16
0	17.746	75.455	21.567	75.458	-0.003	21.596	-0.029	75.461	-0.007	21.600	-0.033	1800	17
3	18.095	77.343	25.153	77.341	0.002	25.171	-0.018	77.338	0.005	25.162	-0.009	2000	17
9	18.369	79.081	28.800	79.074	0.007	28.807	-0.007	79.065	0.016	28.787	0.013	2200	17
8	18.585	80.689	32.497	80.677	0.012	32.493	0.004	80.667	0.022	32.470	0.027	2400	18
7	18.760	82.184	36.232	82.169	0.015	36.222	0.010	82.162	0.022	36.206	0.026	2600	18
19	18.902	83.580	39.998	83.564	0.016	39.985	0.013	83.565	0.015	39.992	0.006	2800	18
6	19.019	84.888	43.791	84.872	0.016	43.778	0.013	84.888	0.000	43.827	-0.036	3000	18
1	19.019	84.888	43.791	84.872	0.016	43.778	0.013	84.888	0.000	43.795	-0.004	3000	18
2	19.116	86.119	47.605	86.103	0.016	47.594	0.011	86.117	0.002	47.606	-0.001	3200	18
3	19.198	87.280	51.436	87.266	0.014	51.430	0.006	87.278	0.002	51.435	0.001	3400	18
3	19.268	88.379	55.283	88.367	0.012	55.281	0.001	88.377	0.002	55.281	0.002	3600	19
3	19.327	89.423	59.143	89.411	0.012	59.146	-0.003	89.421	0.002	59.141	0.002	3800	19
2	19.379	90.415	63.014	90.405	0.010	63.020	-0.006	90.414	0.001	63.012	0.002	4000	19
1	19.423	91.362	66.894	91.352	0.010	66.902	-0.008	91.360	0.002	66.892	0.002	4200	19
1	19.462	92.267	70.782	92.257	0.010	70.791	-0.009	92.265	0.002	70.781	0.001	4400	19
1	19.496	93.132	74.678	93.122	0.010	74.685	-0.007	93.131	0.001	74.678	0.000	4600	19
1	19.526	93.963	78.580	93.952	0.011	78.584	-0.004	93.961	0.002	78.580	-0.001	4800	19
1	19.552	94.760	82.488	94.749	0.011	82.487	0.001	94.759	0.001	82.489	-0.001	5000	19
1	19.576	95.528	86.401	95.515	0.013	86.396	0.005	95.526	0.002	86.402	-0.001	5200	19
0	19.597	96.267	90.318	96.254	0.013	90.311	0.007	96.266	0.001	90.319	-0.001	5400	19
1	19.616	96.980	94.240	96.967	0.013	94.232	0.008	96.979	0.001	94.240	0.000	5600	19
2	19.633	97.669	98.164	97.656	0.013	98.163	0.001	97.667	0.002	98.164	0.000	5800	19
	19.648	98.334	102.093	98.325	0.009	102.104	-0.011	98.333	0.001	102.091	0.002	6000	19

METHYL (G) C 1H 3 0 0 0 669
 MOL. WT.= 15.030 BLOCK= 772 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLF)) = 34.820 KEY = 140
 FITS FOR NOTS RMS = 0.046896
 3 1 1 6 0 0 0 0 0 0 0 METHYL (G) 10J 669 140
 +1.2482821E+1+4.1243877E+0-8.4191107E-1+5.9225976E-2 400 6000 11J 669 140
 -1.4119262E+0+2.7352706E+1+5.5579650E+1+3.4819902E+1CH3(G) 12J 669 140

FITS FOR EST RMS LOW = 0.082245 RMS HIGH = 0.005697
 3 1 1 6 0 0 0 0 0 0 0 METHYL (G) 10CH3
 +348199+5+426936+5+151096+2+138953-2-195067+7+785059+2 4003000J 66911CH3
 +348199+5+425535+5+198368+2+173159-5-103616+8+785059+230006000J 66912CH3

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.491	400	10.048	49.210	0.983	50.138	-0.928	1.368	-0.385	50.436	-1.226	1.493	-0.510	
0.127	600	11.541	53.572	3.144	53.491	0.081	3.059	0.085	53.454	0.118	3.029	0.115	
0.140	800	12.888	57.080	5.589	56.937	0.143	5.466	0.123	56.893	0.187	5.432	0.157	
0.056	1000	14.090	60.088	8.290	60.009	0.079	8.224	0.066	59.994	0.094	8.217	0.073	
-0.012	1200	15.109	62.750	11.213	62.723	0.027	11.204	0.009	62.729	0.021	11.219	-0.006	
-0.045	1400	15.939	65.144	14.321	65.143	0.001	14.346	-0.025	65.156	-0.012	14.370	-0.049	
-0.048	1600	16.602	67.317	17.578	67.325	-0.008	17.614	-0.036	67.335	-0.018	17.635	-0.057	
-0.033	1800	17.129	69.304	20.953	69.310	-0.006	20.986	-0.033	69.313	-0.009	20.994	-0.041	
-0.009	2000	17.548	71.131	24.422	71.131	-0.000	24.445	-0.023	71.125	0.006	24.435	-0.013	
0.013	2200	17.885	72.820	27.966	72.814	0.006	27.976	-0.010	72.801	0.019	27.952	0.014	
0.027	2400	18.157	74.389	31.571	74.377	0.012	31.570	0.001	74.362	0.027	31.539	0.032	
0.026	2600	18.380	75.851	35.226	75.836	0.015	35.216	0.010	75.824	0.027	35.194	0.032	
0.006	2800	18.563	77.220	38.921	77.204	0.016	38.906	0.015	77.202	0.018	38.912	0.009	
-0.036	3000	18.716	78.506	42.649	78.489	0.017	42.634	0.015	78.506	0.000	42.694	-0.045	
-0.004	3000	18.716	78.506	42.649	78.489	0.017	42.634	0.015	78.506	0.000	42.654	-0.005	
-0.001	3200	18.844	79.718	46.405	79.702	0.016	46.392	0.013	79.717	0.001	46.406	-0.001	
0.001	3400	18.953	80.864	50.185	80.849	0.015	50.177	0.008	80.862	0.002	50.184	0.001	
0.002	3600	19.045	81.950	53.986	81.937	0.013	53.983	0.003	81.948	0.002	53.983	0.003	
0.002	3800	19.125	82.982	57.803	82.970	0.012	57.805	-0.002	82.980	0.002	57.801	0.002	
0.002	4000	19.194	83.965	61.635	83.954	0.011	61.642	-0.007	83.963	0.002	61.633	0.002	
0.002	4200	19.254	84.903	65.480	84.893	0.010	65.489	-0.009	84.901	0.002	65.478	0.002	
0.001	4400	19.306	85.800	69.336	85.790	0.010	69.346	-0.010	85.798	0.002	69.335	0.001	
0.000	4600	19.352	86.659	73.202	86.649	0.010	73.210	-0.008	86.657	0.002	73.202	0.000	
-0.001	4800	19.393	87.483	77.076	87.473	0.010	77.081	-0.005	87.482	0.001	77.077	-0.001	
-0.001	5000	19.430	88.276	80.959	88.264	0.012	80.958	0.001	88.274	0.002	80.959	-0.000	
-0.001	5200	19.462	89.038	84.848	89.026	0.012	84.843	0.005	89.037	0.001	84.849	-0.001	
-0.001	5400	19.492	89.773	88.744	89.760	0.013	88.735	0.009	89.772	0.001	88.744	-0.000	
0.000	5600	19.518	90.483	92.645	90.470	0.013	92.636	0.009	90.481	0.002	92.645	0.000	
0.000	5800	19.543	91.168	96.551	91.156	0.012	96.549	0.002	91.167	0.001	96.551	0.000	
0.002	6000	19.565	91.831	100.462	91.822	0.009	100.476	-0.014	91.829	0.002	100.460	0.002	

TRICHLOROMETHYLSILANE

(G)

C 1H 3CL 3SI 1

1260

MOL. WT.= 149.480 BLCK= 784 NO. POINT = 14

DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -126.400 KEY = 142

FITS FOR NOTS RMS = 0.000226

3 1 1 6 1 14 3 17 0 0 0 0 TRICHLOROMETHYLSILANE (G) 10J1260 142
+2.2055526E+1+2.2742614E+1-1.0497776E+1+1.8778228E+0 400 1500 11J1260 142
-3.5520935E-1-1.3506890E+2+1.0232302E+2-1.2639999E+2CH3CL3SI(G) 12J1260 142

FITS FOR EST RMS LOW = 0.011414 RMS HIGH = 0.007453

3 1 1 6 1 14 3 17 0 0 0 0 TRICHLOROMETHYLSILANE (G) 10CH3CL3SI
-126399+6+105275+6+320802+2+496946-2-128606+7+165237+3 4001500J126011CH3CL3SI
+000000+0+000000+0+000000+0+000000+0+000000+015001500J126012CH3CL3SI

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-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.626	400	27.420	91.521	2.649	91.521	-0.000	2.649	0.000	91.625	-0.104	2.689	-0.040
0.153	500	29.610	97.883	5.504	97.883	-0.000	5.504	-0.000	97.834	0.049	5.477	0.027
0.184	600	31.340	103.442	8.555	103.441	0.001	8.555	-0.000	103.394	0.048	8.530	0.025
0.078	700	32.750	108.382	11.762	108.381	0.001	11.762	0.000	108.362	0.020	11.755	0.007
0.012	800	33.930	112.834	15.098	112.834	-0.000	15.098	0.000	112.835	-0.001	15.106	-0.008
0.058	900	34.950	116.891	18.543	116.892	-0.001	18.544	-0.001	116.900	-0.009	18.558	-0.015
0.065	1000	35.820	120.620	22.083	120.620	-0.000	22.083	-0.000	120.626	-0.006	22.095	-0.012
0.045	1100	36.580	124.070	25.704	124.071	-0.001	25.704	-0.000	124.069	0.001	25.708	-0.004
0.013	1200	37.230	127.282	29.395	127.282	0.000	29.395	-0.000	127.272	0.010	29.390	0.005
0.017	1300	37.800	130.285	33.147	130.285	0.000	33.147	0.000	130.271	0.014	33.136	0.010
0.036	1400	38.290	133.104	36.952	133.104	-0.000	36.952	0.000	133.093	0.011	36.945	0.007
0.035	1500	38.720	135.761	40.803	135.761	-0.000	40.803	-0.000	135.761	0.000	40.812	-0.009

0.008

0.049

0.006

0.001

0.002

0.002

0.003

0.003

0.002

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0.001

0.000

0.002

FLUOROMETHANE (G) C 1H 3F 1 1263
 MOL. WT.= 34.030 BLOCK= 786 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -56.000 KEY = 143
 ITS FOR NOTS RMS = 0.060550
 1 1 6 1 9 0 0 0 0 0 FLUOROMETHANE (G) 10J1263 143
 7888015E+1+4.5194969E+0-9.3445444E-1+6.6316485E-2 400 6000 11J1263 143
 -625976E+0-6.8618194E+1+6.3760040E+1-5.6000000E+1CH3F(G) 12J1263 143

ITS FOR EST RMS LOW = 0.102150 RMS HIGH = 0.007443
 1 1 6 1 9 0 0 0 0 0 FLUOROMETHANE (G) 10CH3F
 000+5+552750+5+207494+2+151075-2-323952+7+935319+2 4003000J126311CH3F
 000+5+552291+5+258924+2-119508-4-123179+8+935319+230006000J126312CH3F

TR:
 M:
 DAT:
 FIT:
 3 1
 +1.846
 -4.542
 FIT:
 3 1
 -29462
 +00000

/M	-----NOTS-----								-----EST-----				T K
	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	LS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M		
040													
027	10.556	56.099	0.991	57.424	-1.325	1.536	-0.545	57.739	-1.640	1.668	-0.677	400 2	
025	13.832	61.015	3.438	60.869	0.146	3.301	0.137	60.831	0.184	3.269	0.169	500 2	
007	16.447	65.369	6.477	65.176	0.193	6.314	0.163	65.133	0.236	6.281	0.196	600 2	
008	18.440	69.263	9.975	69.166	0.097	9.897	0.078	69.155	0.108	9.893	0.082	700 3	
015	19.948	72.765	13.821	72.735	0.030	13.816	0.005	72.745	0.020	13.835	-0.014	800 3	
012	21.087	75.929	17.929	75.930	-0.001	17.965	-0.036	75.947	-0.018	17.992	-0.063	900 3	
004	21.953	78.804	22.237	78.813	-0.009	22.284	-0.047	78.826	-0.022	22.306	-0.069	1000 3	
005	22.618	81.430	26.697	81.435	-0.005	26.738	-0.041	81.440	-0.010	26.745	-0.048	1100 3	
010	23.135	83.841	31.275	83.839	0.002	31.301	-0.027	83.833	0.008	31.289	-0.014	1200 3	
007	23.542	86.066	35.944	86.056	0.010	35.955	-0.011	86.042	0.023	35.926	0.018	1300 3	
009	23.867	88.129	40.686	88.113	0.016	40.683	0.003	88.097	0.032	40.648	0.038	1400 3	
	24.130	90.050	45.487	90.030	0.020	45.474	0.013	90.018	0.032	45.449	0.038	1500 3	
	24.345	91.846	50.335	91.824	0.022	50.317	0.018	91.825	0.021	50.326	0.009		
	24.523	93.532	55.223	93.510	0.022	55.204	0.019	93.532	0.000	55.275	-0.052		
	24.523	93.532	55.223	93.510	0.022	55.204	0.019	93.532	0.000	55.229	-0.006		
	24.671	95.120	60.142	95.099	0.021	60.127	0.015	95.118	0.002	60.144	-0.002		
	24.796	96.619	65.069	96.600	0.019	65.080	0.009	96.616	0.003	65.088	0.001		
	24.902	98.040	70.059	98.022	0.018	70.057	0.002	98.036	0.004	70.057	0.002		
	24.993	99.388	75.049	99.373	0.015	75.053	-0.004	99.385	0.003	75.046	0.003		
	25.072	100.672	80.056	100.658	0.014	80.065	-0.009	100.669	0.003	80.053	0.003		
	25.140	101.897	85.077	101.884	0.013	85.089	-0.012	101.895	0.002	85.075	0.002		
	25.199	103.068	90.111	103.055	0.013	90.123	-0.012	103.066	0.002	90.110	0.001		
	25.251	104.190	95.156	104.176	0.014	95.166	-0.010	104.187	0.003	95.156	-0.000		
	25.298	105.265	100.211	105.251	0.014	100.217	-0.006	105.263	0.002	100.212	-0.001		
	25.338	106.299	105.275	106.283	0.016	105.274	0.001	106.297	0.002	105.276	-0.001		
	25.375	107.293	110.347	107.276	0.017	110.340	0.007	107.291	0.002	110.348	-0.001		
	25.408	108.252	115.425	108.234	0.018	115.414	0.011	108.249	0.003	115.426	-0.001		
	25.437	109.176	120.509	109.158	0.018	120.499	0.010	109.174	0.002	120.509	-0.001		
	25.463	110.069	125.599	110.053	0.016	125.597	0.002	110.067	0.002	125.598	0.001		
	25.487	110.933	130.694	110.920	0.013	130.710	-0.016	110.930	0.003	130.692	0.002		

MEMPHIS
TAT
ITS
1
5770
6958

ITS
1
1894
1894

[illegible]

METHANE (G) C 1H 4 361
 MOL. WT. = 16.040 BLOCK = 794 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -17.895 KEY = 145
 FITS FOR NOTS RMS = 0.073065
 1 1 6 0 0 0 0 0 0 0 METHANE (G) 10J 361 145
 .5770036E+1+.5.7014389E+0-1.1755218E+0+8.3257436E-2 400 6000 11J 361 145
 .6956634E+0-2.9810928E+1+.5.2532318E+1-1.7894989E+1CH4(G) 12J 361 145

MAG
 MO
 DATA
 FITS
 1 6
 +6.166
 -3.7131

FITS FOR EST RMS LOW = 0.124552 RMS HIGH = 0.007288
 1 1 6 0 0 0 0 0 0 0 METHANE (G) 10CH4
 78949+5+531436+5+193909+2+190674-2-343038+7+825969+2 4003000J 36111CH4
 74949+5+530851+5+258339+2-432899-5-145999+8+825969+230006000J 36112CH4

FITS
 1 6
 -26569
 -26569

H	-----NOTS-----								-----EST-----			
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
46	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
32	9.680	47.144	0.923	48.695	-1.551	1.563	-0.640	49.098	-1.954	1.732	-0.809	
30	12.483	51.597	3.138	51.436	0.161	2.983	0.155	51.386	0.211	2.942	0.196	
07	15.041	55.548	5.897	55.319	0.229	5.702	0.195	55.261	0.287	5.658	0.239	
10	17.160	59.141	9.125	59.022	0.119	9.029	0.096	59.005	0.136	9.022	0.103	
16	18.842	62.424	12.732	62.387	0.037	12.726	0.006	62.398	0.026	12.748	-0.016	
13	20.150	65.431	16.637	65.432	-0.001	16.680	-0.043	65.452	-0.021	16.713	-0.076	
04	21.161	68.191	20.772	68.202	-0.011	20.830	-0.058	68.218	-0.027	20.857	-0.085	
07	21.947	70.730	25.086	70.738	-0.008	25.137	-0.051	70.742	-0.012	25.145	-0.059	
11	22.562	73.076	29.540	73.074	0.002	29.573	-0.033	73.066	0.010	29.558	-0.018	
08	23.050	75.250	34.103	75.239	0.011	34.116	-0.013	75.221	0.029	34.081	0.022	
10	23.441	77.273	38.753	77.254	0.019	38.749	0.004	77.233	0.040	38.706	0.047	
	23.758	79.162	43.474	79.138	0.024	43.458	0.016	79.123	0.039	43.428	0.046	
	24.018	80.933	48.253	80.907	0.026	48.230	0.023	80.906	0.027	48.241	0.012	
	24.233	82.597	53.079	82.571	0.026	53.055	0.024	82.597	0.000	53.144	-0.065	
	24.233	82.597	53.079	82.571	0.026	53.055	0.024	82.597	0.000	53.085	-0.006	
	24.413	84.167	57.944	84.142	0.025	57.925	0.019	84.165	0.002	57.945	-0.001	
	24.565	85.652	62.842	85.629	0.023	62.830	0.012	85.649	0.003	62.841	0.001	
	24.695	87.060	67.768	87.039	0.021	67.765	0.003	87.057	0.003	67.766	0.002	
	24.806	88.398	72.719	88.380	0.018	72.723	-0.004	88.395	0.003	72.716	0.003	
	24.901	89.673	77.690	89.656	0.017	77.700	-0.010	89.670	0.003	77.687	0.003	
	24.984	90.890	82.678	90.874	0.016	82.693	-0.015	90.887	0.003	82.677	0.001	
	25.057	92.054	87.683	92.038	0.016	87.698	-0.015	92.051	0.003	87.682	0.001	
	25.121	93.169	92.701	93.153	0.016	92.713	-0.012	93.166	0.003	92.700	0.001	
	25.177	94.240	97.730	94.222	0.018	97.737	-0.007	94.237	0.003	97.731	-0.001	
	25.227	95.268	102.771	95.249	0.019	102.770	0.001	95.266	0.002	102.772	-0.001	
	25.272	96.259	107.821	96.238	0.021	107.813	0.008	96.256	0.003	107.822	-0.001	
	25.311	97.213	112.879	97.192	0.021	112.866	0.013	97.211	0.002	112.880	-0.001	
	25.347	98.134	117.945	98.113	0.021	117.933	0.012	98.132	0.002	117.945	-0.001	
	25.379	99.024	123.018	99.005	0.019	123.015	0.003	99.022	0.002	123.017	0.001	
	25.409	99.885	128.097	99.870	0.015	128.117	-0.020	99.882	0.003	128.095	0.002	

C
DA
FI
.8
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FI
104
104

[illegible]

-----NOTS-----								-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	16.410	33.141	1.672	33.140	0.001	1.672	0.000	33.142	-0.001	1.673	-0.001
500	16.432	36.805	3.315	36.804	0.001	3.314	0.001	36.805	-0.000	3.315	0.000
600	16.455	39.803	4.959	39.802	0.001	4.958	0.001	39.803	0.000	4.959	-0.000
700	16.478	42.341	6.606	42.341	0.000	6.605	0.001	42.341	0.000	6.606	0.000
800	16.502	44.543	8.255	44.543	-0.000	8.254	0.001	44.542	0.001	8.254	0.001
900	16.526	46.488	9.906	46.488	-0.000	9.906	-0.000	46.487	0.001	9.906	0.000
1000	16.550	48.231	11.560	48.231	-0.000	11.560	-0.000	48.230	0.001	11.560	0.000
1100	16.576	49.809	13.216	49.810	-0.001	13.217	-0.001	49.809	0.000	13.216	-0.000
1200	16.602	51.253	14.875	51.253	-0.000	14.875	-0.000	51.252	0.001	14.875	-0.000
1300	16.628	52.582	16.536	52.583	-0.001	16.537	-0.001	52.582	-0.000	16.537	-0.001
1400	16.653	53.816	18.200	53.816	-0.000	18.201	-0.001	53.815	0.001	18.201	-0.001
1500	16.678	54.965	19.867	54.966	-0.001	19.867	-0.000	54.965	0.000	19.867	0.000
1600	16.703	56.043	21.536	56.043	0.000	21.536	0.000	56.042	0.001	21.536	0.000
1700	16.728	57.056	23.208	57.056	-0.000	23.207	0.001	57.055	0.001	23.208	0.000
1800	16.752	58.013	24.882	58.013	0.000	24.881	0.001	58.012	0.001	24.882	0.000
1900	16.776	58.919	26.558	58.919	-0.000	26.558	0.000	58.919	0.000	26.558	-0.000
2000	16.800	59.780	28.237	59.781	-0.001	28.237	-0.000	59.780	0.000	28.237	-0.000

SODIUM CARBONATE (L) C 1NA 20 3 0 0 0 366
 MOL. WT.= 105.980 BLOCK= 821 NO. POINT = 24
 DATA FROM 298 TO 2500 K HFORM(KCAL/(MOLE)) = -265.205 KEY = 152
 FITS FOR NOTS RMS = 0.028578
 1 6 3 8 2 11 0 0 0 0 0 SODIUM CARBONATE (L) 20J 366 152
 +7.6095016E+1-4.0167022E+1+1.8853042E+1-3.0352983E+0 400 2500 21J 366 152
 -6.2504119E+0-3.0554418E+2+1.1031945E+2-2.6520483E+2CNA203(L) 22J 366 152

FITS FOR EST RMS LOW = 0.098558 RMS HIGH = 0.098558
 1 6 3 8 2 11 0 0 0 0 0 SODIUM CARBONATE (L) 20CNA203*
 -265204+6+117744+6+482736+2-119067-2-222580+7+131387+3 4002500J 36621CNA203*
 -265204+6+117744+6+482736+2-119067-2-222580+7+131387+3 4002500J 36622CNA203*

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.519	400	29.900	45.391	2.867	45.504	-0.113	2.894	-0.027	44.049	1.342	2.318	0.549	
-0.135	500	33.990	52.485	6.054	52.222	0.263	5.926	0.128	52.197	0.288	5.979	0.075	
0.115	600	39.030	59.116	9.698	59.204	-0.088	9.764	-0.066	59.520	-0.404	9.999	-0.301	
0.536	700	44.830	65.564	13.889	65.711	-0.147	13.989	-0.100	66.022	-0.458	14.219	-0.330	
0.456	800	45.300	71.620	18.424	71.604	0.016	18.403	0.021	71.816	-0.196	18.560	-0.136	
0.048	900	45.300	76.956	22.954	76.908	0.048	22.907	0.047	77.018	-0.062	22.977	-0.023	
-0.213	1000	45.300	81.729	27.484	81.692	0.037	27.448	0.036	81.724	0.005	27.444	0.040	
-0.302	1100	45.300	86.046	32.014	86.031	0.015	32.000	0.014	86.013	0.033	31.944	0.070	
-0.227	1200	45.300	89.988	36.544	89.989	-0.001	36.549	-0.005	89.947	0.041	36.466	0.078	
-0.122	1300	45.300	93.614	41.074	93.624	-0.010	41.090	-0.016	93.578	0.036	41.001	0.073	
-0.016	1400	45.300	96.971	45.604	96.984	-0.013	45.624	-0.020	96.945	0.025	45.546	0.058	
0.067	1500	45.300	100.096	50.134	100.107	-0.011	50.150	-0.016	100.084	0.012	50.094	0.040	
0.114	1600	45.300	103.020	54.664	103.026	-0.006	54.673	-0.009	103.020	-0.000	54.644	0.020	
0.123	1700	45.300	105.766	59.194	105.767	-0.001	59.195	-0.001	105.778	-0.012	59.194	0.000	
0.089	1800	45.300	108.355	63.724	108.352	0.003	63.718	0.006	108.377	-0.022	63.740	-0.016	
0.008	1900	45.300	110.805	68.254	110.800	0.005	68.245	0.009	110.833	-0.028	68.282	-0.028	
-0.122	2000	45.300	113.128	72.784	113.124	0.004	72.775	0.009	113.160	-0.032	72.818	-0.034	
	2100	45.300	115.338	77.314	115.336	0.002	77.310	0.004	115.370	-0.032	77.349	-0.035	
	2200	45.300	117.446	81.844	117.446	-0.000	81.846	-0.002	117.474	-0.028	81.872	-0.028	
	2300	45.300	119.459	86.374	119.462	-0.003	86.382	-0.008	119.481	-0.022	86.387	-0.013	
	2400	45.300	121.387	90.904	121.390	-0.003	90.911	-0.007	121.400	-0.013	90.895	0.009	
	2500	45.300	123.236	95.434	123.234	0.002	95.428	0.006	123.236	0.000	95.393	0.041	

CARBON PHOSPHIDE (G) C 1P 1
MOL. WT.= 42.980 BLOCK= 843 NO. POINT = 62
DATA FROM C TO 6000 K HFOPH(KCAL/(MOLE)) = 111.700 KEY = 156
FITS FOR NOTS RMS = 0.003437
1 6 1 15 0 0 0 0 0 0 0 CARBON PHOSPHIDE (G) 10J 662 156
+8.7217731E+0+1.8991219E-1-3.0184831E-2+2.2648861E-3 400 6000 11J 662 156
-3.1385803E-1+1.0818876E+2+6.0826736E+1+1.1169999E+2CP(G) 12J 662 156

FITS FOR EST RMS LOW = 0.004758 RMS HIGH = 0.002869
1 6 1 15 0 0 0 0 0 0 0 CARBON PHOSPHIDE (G) 10CP
+111699+6+233899+5+880130+1+984306-4-327200+6+708809+2 4003000J 66211CP
+111699+6+233902+5+900490+1+443402-4-926656+6+708809+230006000J 66212CP

-----NOTS-----												-----EST-----			
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH			
'M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M			
85	400	7.446	53.802	0.743	53.889	-0.087	0.777	-0.034	53.896	-0.094	0.780	-0.037			
150	600	7.989	56.930	2.289	56.916	0.014	2.277	0.012	56.916	0.014	2.278	0.011			
51	800	8.335	59.280	3.925	59.268	0.012	3.914	0.011	59.269	0.011	3.916	0.009			
118	1000	8.545	61.164	5.614	61.159	0.005	5.610	0.004	61.160	0.004	5.612	0.002			
105	1200	8.679	62.735	7.338	62.733	0.002	7.337	0.001	62.735	0.000	7.339	-0.001			
116	1400	8.770	64.080	9.083	64.080	0.000	9.084	-0.001	64.081	-0.001	9.086	-0.003			
117	1600	8.835	65.256	10.844	65.256	0.000	10.845	-0.001	65.256	-0.000	10.847	-0.003			
111	1800	8.884	66.299	12.616	66.299	-0.000	12.617	-0.001	66.299	-0.000	12.618	-0.002			
103	2000	8.923	67.237	14.397	67.237	0.000	14.398	-0.001	67.237	0.000	14.397	-0.000			
105	2200	8.955	68.089	16.185	68.089	0.000	16.185	-0.000	68.088	0.001	16.184	0.001			
109	2400	8.982	68.870	17.979	68.869	0.001	17.978	0.001	68.868	0.002	17.977	0.002			
109	2600	9.005	69.590	19.777	69.589	0.001	19.777	0.000	69.588	0.002	19.776	0.001			
102	2800	9.026	70.258	21.581	70.257	0.001	21.580	0.001	70.257	0.001	21.580	0.001			
112	3000	9.045	70.881	23.388	70.880	0.001	23.387	0.001	70.881	0.000	23.390	-0.002			
100	3000	9.045	70.881	23.388	70.880	0.001	23.387	0.001	70.881	0.000	23.390	-0.002			
101	3200	9.063	71.465	25.199	71.465	0.000	25.199	0.000	71.465	0.000	25.199	-0.000			
101	3400	9.079	72.015	27.013	72.015	0.000	27.013	0.000	72.014	0.001	27.013	0.000			
100	3600	9.095	72.535	28.830	72.534	0.001	28.831	-0.001	72.534	0.001	28.829	0.000			
100	3800	9.110	73.027	30.651	73.026	0.001	30.651	-0.000	73.026	0.001	30.650	0.001			
101	4000	9.124	73.495	32.474	73.494	0.001	32.475	-0.001	73.493	0.002	32.473	0.001			
102	4200	9.137	73.940	34.300	73.939	0.001	34.301	-0.001	73.939	0.001	34.299	0.001			
102	4400	9.151	74.365	36.129	74.365	0.000	36.129	-0.000	74.364	0.001	36.129	0.000			
101	4600	9.164	74.772	37.960	74.772	0.000	37.961	-0.001	74.771	0.001	37.960	-0.000			
101	4800	9.176	75.163	39.794	75.162	0.001	39.794	-0.000	75.162	0.001	39.794	-0.001			
100	5000	9.189	75.538	41.631	75.537	0.001	41.630	0.001	75.537	0.001	41.631	-0.000			
102	5200	9.201	75.898	43.470	75.897	0.001	43.469	0.001	75.897	0.001	43.470	-0.000			
102	5400	9.213	76.246	45.311	76.245	0.001	45.310	0.001	76.245	0.001	45.312	-0.001			
102	5600	9.225	76.581	47.155	76.580	0.001	47.154	0.001	76.580	0.001	47.155	-0.000			
100	5800	9.237	76.905	49.001	76.904	0.001	49.001	-0.000	76.904	0.001	49.001	-0.000			
103	6000	9.248	77.218	50.850	77.218	0.000	50.851	-0.001	77.217	0.001	50.849	0.001			


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      TIC
      MC
      DATA
      FIT:
      1 6
      +1.176
      -2.084

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FIT
1 6
-4400C
-4400C

-----NOTS-----

-----EST-----

[illegible]

TITANIUM CARBIDE

(C) C 1TI 1 0 0 0 0

668

MOL. WT. = 59.910 BLOCK = 866 NO. POINT = 42

DATA FROM 0 TO 4000 K HFORM(KCAL/(MOLE)) = -44.000 KEY = 160

FITS FOR NOTS RMS = 0.007430

1 6 1 22 0 0 0 0 0 0 0 TITANIUM CARBIDE (C) 30J 668 160
 +1.1760130E+1-1.0973548E-1+8.3239871E-1-8.2524061E-2 400 4000 31J 668 160
 -2.0849609E-1-4.8368698E+1+1.8397140E+1-4.4000000E+1CTI(C) 32J 668 160

FITS FOR EST RMS LOW = 0.046606 RMS HIGH = 0.046606

1 6 1 22 0 0 0 0 0 0 0 TITANIUM CARBIDE (C) 30CTIS
 -440000+5+363198+5+876575+1+261888-2+656608+6+340009+2 4004000J 66831CTIS
 -440000+5+363198+5+876575+1+261888-2+656608+6+340009+2 4004000J 66832CTIS

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DH

KC/M

0.230

0.017

0.053

0.041

0.022

0.004

0.008

0.013

0.014

0.013

0.009

0.004

0.002

0.006

0.008

0.008

0.005

0.002

0.012

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	9.724	8.408	0.911	8.294	0.114	0.865	0.046	7.514	0.894	0.531	0.380
600	11.388	12.727	3.053	12.757	-0.030	3.072	-0.019	12.732	-0.005	3.093	-0.040
800	11.927	16.087	5.392	16.100	-0.013	5.399	-0.007	16.177	-0.090	5.486	-0.094
1000	12.232	18.783	7.808	18.780	0.003	7.802	0.006	18.841	-0.058	7.875	-0.067
1200	12.535	21.039	10.284	21.034	0.005	10.275	0.009	21.064	-0.025	10.314	-0.030
1400	12.881	22.997	12.825	22.994	0.003	12.819	0.006	22.999	-0.002	12.826	-0.001
1600	13.272	24.742	15.440	24.742	-0.000	15.439	0.001	24.733	0.009	15.423	0.017
1800	13.699	26.329	18.136	26.332	-0.003	18.139	-0.003	26.316	0.013	18.113	0.023
2000	14.154	27.796	20.921	27.800	-0.004	20.926	-0.005	27.782	0.014	20.897	0.024
2200	14.631	29.167	23.799	29.171	-0.004	23.804	-0.005	29.156	0.011	23.780	0.019
2400	15.125	30.461	26.775	30.465	-0.004	26.778	-0.003	30.453	0.008	26.763	0.012
2600	15.631	31.692	29.850	31.694	-0.002	29.851	-0.001	31.637	0.005	29.847	0.003
2800	16.148	32.869	33.028	32.871	-0.002	33.027	0.001	32.867	0.002	33.032	-0.004
3000	16.673	34.001	36.310	34.002	-0.001	36.308	0.002	34.001	0.000	36.320	-0.010
3200	17.204	35.094	39.698	35.095	-0.001	39.696	0.002	35.095	-0.001	39.710	-0.012
3400	17.740	36.153	43.192	36.155	-0.002	43.191	0.001	36.154	-0.001	43.204	-0.012
3600	18.280	37.182	46.794	37.185	-0.003	46.795	-0.001	37.182	0.000	46.801	-0.007
3800	18.824	38.185	50.504	38.188	-0.003	50.506	-0.002	38.182	0.003	50.502	0.002
4000	19.371	39.165	54.324	39.166	-0.001	54.322	0.002	39.158	0.007	54.306	0.018

CARBON, DIATOMIC

(G)

C

2

0

0

0

0

0

1269

MOL. WT.= 24.020

BLOCK= 875

NO. POINT = 62

DATA FROM 0 TO 6000 K HFCRM(KCAL/(MOLE)) = 200.224 KEY = 162

FITS FOR NOTS RMS = 0.006837

2 6 0 0 0 0 0 0 0 0 0 CARBON, DIATOMIC (G) 10J1269 162
 +7.360301E+0+1.2546987E+0-1.9455528E-1+1.5149455E-2 400 6000 11J1269 162
 +1.7778015E-1+1.9867735E+2+5.7456420E+1+2.0022399E+2C2 (G) 12J1269 162

FITS FOR EST RMS LOW = 0.011108 RMS HIGH = 0.004810

2 6 0 0 0 0 0 0 0 0 0 CARBON, DIATOMIC (G) 10C2
 +200223+6+246849+5+795404+1+634630-3+558880+5+685589+2 4003000J126911C2
 +200223+6+246778+5+839828+1+451734-3+557728+6+685589+230006000J126912C2

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
R	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
C/M	400	9.476	50.544	1.009	50.644	-0.100	1.049	-0.040	50.711	-0.167	1.078	-0.069
.548	600	8.604	54.178	2.795	54.169	0.009	2.785	0.010	54.160	0.018	2.779	0.016
.166	800	8.509	56.632	4.501	56.619	0.013	4.489	0.012	56.609	0.023	4.482	0.019
.299	1000	8.595	58.538	6.210	58.530	0.008	6.202	0.008	58.526	0.012	6.201	0.009
.391	1200	8.719	60.116	7.941	60.111	0.005	7.936	0.005	60.112	0.004	7.941	0.000
.318	1400	8.852	61.470	9.698	61.467	0.003	9.697	0.001	61.470	-0.000	9.703	-0.005
.178	1600	8.989	62.661	11.482	62.660	0.001	11.483	-0.001	62.663	-0.002	11.489	-0.007
.029	1800	9.125	63.728	13.294	63.728	0.000	13.297	-0.003	63.729	-0.001	13.300	-0.006
.097	2000	9.256	64.696	15.132	64.696	-0.000	15.136	-0.004	64.695	0.001	15.135	-0.003
.175	2200	9.381	65.584	16.996	65.584	-0.000	16.999	-0.003	65.582	0.002	16.995	0.001
.191	2400	9.498	66.405	18.884	66.405	-0.000	18.886	-0.002	66.402	0.003	18.880	0.004
.110	2600	9.607	67.170	20.795	67.169	0.001	20.795	-0.000	67.166	0.004	20.790	0.005
.048	2800	9.709	67.886	22.726	67.884	0.002	22.725	0.001	67.883	0.003	22.725	0.001
.003	3000	9.805	68.559	24.678	68.557	0.002	24.676	0.002	68.559	0.000	24.685	-0.007
.027	3000	9.805	68.559	24.678	68.557	0.002	24.676	0.002	68.559	0.000	24.678	0.000
.046	3200	9.897	69.195	26.648	69.193	0.002	26.646	0.002	69.195	-0.000	26.649	-0.001
.053	3400	9.985	69.797	28.636	69.796	0.001	28.634	0.002	69.798	-0.001	28.637	-0.001
.051	3600	10.071	70.371	30.642	70.369	0.002	30.641	0.001	70.371	0.000	30.642	-0.000
.040	3800	10.157	70.917	32.665	70.916	0.001	32.665	0.000	70.917	-0.000	32.664	0.001
.021	4000	10.242	71.441	34.705	71.440	0.001	34.706	-0.001	71.440	0.001	34.704	0.001
.006	4200	10.327	71.942	36.762	71.942	0.000	36.763	-0.001	71.942	-0.000	36.760	0.002
.040	4400	10.413	72.425	38.836	72.424	0.001	38.838	-0.002	72.424	0.001	38.835	0.001
	4600	10.500	72.889	40.927	72.889	0.000	40.929	-0.002	72.889	-0.000	40.926	0.001
	4800	10.588	73.338	43.036	73.337	0.001	43.037	-0.001	73.338	-0.000	43.036	0.000
	5000	10.676	73.772	45.162	73.771	0.001	45.162	-0.000	73.772	-0.000	45.163	-0.001
	5200	10.766	74.193	47.306	74.191	0.002	47.305	0.001	74.193	0.000	47.307	-0.001
	5400	10.857	74.601	49.469	74.599	0.002	49.467	0.002	74.601	0.000	49.470	-0.001
	5600	10.949	74.997	51.649	74.996	0.001	51.647	0.002	74.997	-0.000	51.650	-0.001
	5800	11.041	75.383	53.848	75.382	0.001	53.847	0.001	75.383	-0.000	53.848	-0.000
	6000	11.134	75.759	56.066	75.758	0.001	56.069	-0.003	75.759	0.000	56.064	0.002

TETRAFLUOROETHYLENE (G) C 2F 4 0 0 0 0 669
 MOL. WT.= 100.010 BLOCK= 887 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -157.400 KEY = 164
 FITS FOR NOTS RMS = 0.020585
 2 6 4 9 0 0 0 0 0 0 TETRAFLUOROETHYLENE (G) 10J 669 164
 +3.0183120E+1+9.7822988E-1-2.1219331E-1+1.5622876E-2 400 6000 11J 669 164
 -1.9499511E+0-1.7210348E+2+9.9456192E+1-1.5739999E+2C2F4 (G) 12J 669 164

FITS FOR EST RMS LOW = 0.031691 RMS HIGH = 0.009536
 2 6 4 9 0 0 0 0 0 0 TETRAFLUOROETHYLENE (G) 10C2F4
 -157399+6+793218+5+3C7859+2+316965-3-2J6264+7+134850+3 4003000J 66911C2F4
 -157399+6+793153+5+320010+2-304306-4-481664+7+134850+33C006000J 66912C2F4

T K	CP		S C/M-K	H KC/M	SC		DS C/M-K	HC KC/M	DH KC/M	SC		DS C/M-K	HC KC/M	DH KC/M
	C/M-K	C/M-K			C/M-K	C/M-K				C/M-K	C/M-K			
400	21.965	77.731	2.105	78.268	-0.537	2.318	-0.213	78.327	-0.596	2.346	-0.241			
600	25.531	87.377	6.887	87.296	0.081	6.818	0.069	87.292	0.085	6.816	0.071			
800	27.611	95.033	12.219	94.962	0.071	12.159	0.060	94.959	0.074	12.158	0.061			
1000	28.858	101.339	17.876	101.309	0.030	17.852	0.024	101.312	0.027	17.857	0.019			
1200	29.641	106.675	23.732	106.666	0.009	23.731	0.001	106.673	0.002	23.740	-0.008			
1400	30.157	111.286	29.715	111.285	0.001	29.725	-0.010	111.292	-0.006	29.734	-0.019			
1600	30.512	115.337	35.784	115.338	-0.001	35.796	-0.012	115.343	-0.006	35.802	-0.018			
1800	30.764	118.946	41.913	118.946	0.000	41.923	-0.010	118.948	-0.002	41.924	-0.011			
2000	30.950	122.198	48.085	122.195	0.003	48.091	-0.006	122.195	0.003	48.087	-0.002			
2200	31.091	125.154	54.290	125.150	0.004	54.291	-0.001	125.147	0.007	54.284	0.006			
2400	31.199	127.864	60.519	127.858	0.006	60.518	0.001	127.856	0.008	60.509	0.010			
2600	31.285	130.365	66.768	130.358	0.007	66.764	0.004	130.357	0.008	66.758	0.010			
2800	31.353	132.686	73.032	132.679	0.007	73.028	0.004	132.681	0.005	73.030	0.002			
3000	31.409	134.851	79.308	134.844	0.007	79.304	0.004	134.851	0.000	79.322	-0.014			
3000	31.409	134.851	79.308	134.844	0.007	79.304	0.004	134.851	0.000	79.315	-0.007			
3200	31.454	136.880	85.595	136.873	0.007	85.592	0.003	136.878	0.002	85.596	-0.001			
3400	31.493	138.788	91.889	138.782	0.006	91.889	0.000	138.785	0.003	91.888	0.001			
3600	31.525	140.589	98.191	140.584	0.005	98.192	-0.001	140.585	0.004	98.188	0.003			
3800	31.552	142.294	104.499	142.289	0.005	104.502	-0.003	142.290	0.003	104.495	0.004			
4000	31.575	143.913	110.812	143.908	0.005	110.815	-0.003	143.910	0.003	110.808	0.004			
4200	31.595	145.454	117.129	145.450	0.004	117.133	-0.004	145.451	0.003	117.126	0.003			
4400	31.613	146.924	123.450	146.920	0.004	123.453	-0.003	146.921	0.003	123.448	0.002			
4600	31.628	148.330	129.774	148.325	0.005	129.776	-0.002	148.327	0.003	129.773	0.001			
4800	31.642	149.676	136.101	149.671	0.005	136.102	-0.001	149.674	0.002	136.101	-0.000			
5000	31.654	150.968	142.430	150.963	0.005	142.430	0.000	150.966	0.002	142.432	-0.002			
5200	31.664	152.210	148.762	152.204	0.006	148.760	0.002	152.208	0.002	148.764	-0.002			
5400	31.674	153.405	155.096	153.399	0.006	155.092	0.004	153.403	0.002	155.097	-0.001			
5600	31.682	154.557	161.432	154.551	0.006	161.428	0.004	154.555	0.002	161.432	-0.000			
5800	31.690	155.669	167.769	155.663	0.006	167.768	0.001	155.666	0.003	167.768	0.001			
6000	31.696	156.744	174.107	156.739	0.005	174.112	-0.005	156.740	0.004	174.105	0.002			

ETHYLENE OXIDE (G) C 2H 4O 1 965 LITHI
 MOL. WT.= 44.050 BLOCK= 906 NO. POINT = 62 MOL.
 ATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -12.580 RPY = 1 7 DATA F
 ITS FOR NOTS RMS = 0.079672 FITS F
 1 2 6 1 8 0 0 0 0 0 ETHYLENE OXIDE (G) 10J 965 167 2 6 2
 .7065155E+1+6.0620880E+0-1.2508821E+0+8.8658750E-2 400 6000 11J 965 167 +2.41861
 .9172363E+0-3.1601226E+1+7.3874633E+1-1.2579999E+1C2H4O(G) 12J 965 167 -7.02239
 FITS FOR EST RMS LOW = 0.135096 RMS HIGH = 0.010993 FITS F
 1 2 6 1 8 0 0 0 0 0 ETHYLENE OXIDE (G) 10C2H4O 2 6 2
 25799+5+813907+5+309059+2+202916-2-469374+7+117209+3 4003000J 96511C2H4O -141999+
 25799+5+813306+5+378476+2-179404-4-171233+8+117209+330006000J 96512C2H4O -141999+

-----NOTS-----												-----EST-----	
T	CP	S	H	SC	LS	HC	DH	SC	DS	HC	DH	T	
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M
0	14.913	61.904	1.342	63.643	-1.739	2.057	-0.715	64.069	-2.165	2.236	-0.894	400	20.1
0	20.629	69.099	4.930	68.908	0.191	4.751	0.179	68.857	0.242	4.709	0.221	500	22.1
0	24.611	75.612	9.477	75.360	0.252	9.263	0.214	75.302	0.310	9.218	0.259	600	23.1
0	27.477	81.428	14.701	81.299	0.129	14.597	0.104	81.284	0.144	14.591	0.110	700	24.1
0	29.597	86.635	20.418	86.594	0.041	20.411	0.007	86.608	0.027	20.437	-0.019	800	25.1
0	31.184	91.322	26.504	91.323	-0.001	26.550	-0.046	91.345	-0.023	26.587	-0.083	900	25.1
0	32.386	95.568	32.867	95.580	-0.012	32.928	-0.061	95.597	-0.029	32.957	-0.090	1000	26.1
0	33.306	99.438	39.440	99.445	-0.007	39.494	-0.054	99.451	-0.013	39.503	-0.063	1100	26.1
0	34.022	102.986	46.175	102.983	0.003	46.211	-0.036	102.975	0.011	46.194	-0.019	1200	26.1
0	34.585	106.256	53.038	106.243	0.013	53.052	-0.014	106.225	0.031	53.014	0.024	1300	27.1
0	35.034	109.285	60.002	109.264	0.021	59.997	0.005	109.243	0.042	59.951	0.051	1400	27.1
0	35.398	112.104	67.046	112.078	0.026	67.029	0.017	112.062	0.042	66.996	0.050	1500	27.1
0	35.695	114.739	74.157	114.710	0.029	74.133	0.024	114.710	0.029	74.144	0.013	1600	27.1
0	35.941	117.210	81.321	117.182	0.028	81.297	0.024	117.210	0.000	81.391	-0.070	1700	28.1
0	35.941	117.210	81.321	117.182	0.028	81.297	0.024	117.210	0.000	81.331	-0.010	1800	28.1
0	36.146	119.537	88.530	119.509	0.028	88.510	0.020	119.534	0.003	88.532	-0.002	1900	28.1
0	36.319	121.733	95.777	121.708	0.025	95.765	0.012	121.720	0.004	95.775	0.002	2000	29.0
0	36.466	123.813	103.056	123.791	0.022	103.053	0.003	123.809	0.004	103.052	0.004		
0	36.592	125.789	110.363	125.768	0.021	110.368	-0.005	125.784	0.005	110.358	0.005		
0	36.701	127.668	117.692	127.650	0.018	117.704	-0.012	127.664	0.004	117.688	0.003		
0	36.795	129.461	125.042	129.444	0.017	125.058	-0.016	129.457	0.004	125.039	0.003		
0	36.878	131.175	132.410	131.158	0.017	132.426	-0.016	131.171	0.004	132.408	0.002		
0	36.950	132.816	139.793	132.798	0.018	139.806	-0.013	132.812	0.004	139.792	0.001		
0	37.014	134.390	147.189	134.371	0.019	147.196	-0.007	134.387	0.003	147.190	-0.001		
0	37.071	135.902	154.598	135.881	0.021	154.597	0.001	135.899	0.003	154.599	-0.001		
0	37.121	137.357	162.017	137.335	0.022	162.008	0.009	137.354	0.003	162.019	-0.002		
0	37.166	138.759	169.446	138.735	0.024	169.432	0.014	138.756	0.003	169.447	-0.001		
0	37.207	140.111	176.883	140.088	0.023	176.870	0.013	140.108	0.003	176.884	-0.001		
0	37.243	141.417	184.328	141.396	0.021	184.325	0.003	141.414	0.003	184.327	0.000		
0	37.277	142.681	191.780	142.663	0.018	191.802	-0.022	142.677	0.004	191.777	0.003		

CYANOGEN (G) C 2N 2 361
 MOL. WT. = 52.030 BLOCK = 917 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 73.870 KEY = 170
 FITS FOR NOTS RMS = 0.022993
 2 6 2 7 0 0 0 0 0 0 0 CYANOGEN (G) 10J 361 170
 +1.8439315E+1+1.4233293E+0-3.0081206E-1+2.1702021E-2 400 6000 11J 361 170
 -1.1696014E+0+6.5126129E+1+7.5105255E+1+7.3869995E+1C2N2(G) 12J 361 170

FITS FOR EST RMS LOW = 0.037278 RMS HIGH = 0.006214
 2 6 2 7 0 0 0 0 0 0 0 CYANOGEN (G) 10C2N2
 +738699+5+511250+5+193314+2+468529-3-134392+7+985479+2 4003000J 36111C2N2
 +738699+5+511120+5+209878+2-184656-4-452480+7+985479+230006000J 36112C2N2

DH C/M	-----NOTS-----												-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
0.001	400	14.771	61.878	1.447	62.410	-0.532	1.663	-0.216	62.504	-0.626	1.704	-0.257				
0.000	600	16.305	68.178	4.565	68.112	0.066	4.504	0.061	68.103	0.075	4.497	0.068				
0.000	800	17.415	73.028	7.942	72.950	0.078	7.876	0.066	72.941	0.087	7.869	0.073				
0.000	1000	18.237	77.007	11.512	76.970	0.037	11.482	0.030	76.970	0.036	11.484	0.028				
0.000	1200	18.833	80.388	15.222	80.377	0.011	15.221	0.001	80.383	0.005	15.229	-0.007				
0.000	1400	19.264	83.325	19.034	83.326	-0.001	19.047	-0.013	83.333	-0.008	19.057	-0.023				
0.000	1600	19.579	85.919	22.920	85.922	-0.003	22.937	-0.017	85.928	-0.009	22.944	-0.024				
0.000	1800	19.815	88.240	26.861	88.241	-0.001	26.875	-0.014	88.243	-0.003	26.877	-0.016				
0.001	2000	19.993	90.337	30.842	90.336	0.001	30.851	-0.009	90.335	0.002	30.846	-0.004				
0.000	2200	20.131	92.249	34.855	92.245	0.004	34.858	-0.003	92.242	0.007	34.848	0.007				
0.000	2400	20.239	94.006	38.893	93.999	0.007	38.891	0.002	93.995	0.011	38.879	0.014				
0.001	2600	20.326	95.629	42.949	95.622	0.007	42.945	0.004	95.619	0.010	42.937	0.012				
0.000	2800	20.396	97.138	47.022	97.130	0.008	47.016	0.006	97.132	0.006	47.019	0.003				
0.000	3000	20.454	98.548	51.107	98.539	0.008	51.101	0.006	98.548	0.000	51.125	-0.018				
0.000	3000	20.454	98.548	51.107	98.539	0.008	51.101	0.006	98.548	0.000	51.112	-0.005				
0.000	3200	20.502	99.869	55.203	99.862	0.007	55.198	0.005	99.868	0.001	55.204	-0.001				
0.000	3400	20.542	101.113	59.307	101.106	0.007	59.305	0.002	101.112	0.001	59.306	0.001				
0.000	3600	20.575	102.288	63.419	102.282	0.006	63.419	0.000	102.287	0.001	63.417	0.002				
0.000	3800	20.604	103.402	67.537	103.396	0.006	67.539	-0.002	103.400	0.002	67.534	0.003				
0.000	4000	20.629	104.459	71.660	104.454	0.005	71.664	-0.004	104.457	0.002	71.658	0.002				
0.000	4200	20.651	105.466	75.788	105.461	0.005	75.793	-0.005	105.465	0.001	75.787	0.001				
0.000	4400	20.669	106.427	79.920	106.422	0.005	79.925	-0.005	106.426	0.001	79.919	0.001				
0.000	4600	20.686	107.346	84.056	107.341	0.005	84.059	-0.003	107.345	0.001	84.056	0.000				
	4800	20.700	108.227	88.195	108.221	0.006	88.196	-0.001	108.226	0.001	88.195	0.000				
	5000	20.713	109.072	92.336	109.066	0.006	92.335	0.001	109.071	0.001	92.337	-0.001				
	5200	20.724	109.885	96.480	109.878	0.007	96.477	0.003	109.884	0.001	96.481	-0.001				
	5400	20.734	110.667	100.626	110.661	0.006	100.621	0.005	110.666	0.001	100.626	-0.000				
	5600	20.744	111.422	104.773	111.415	0.007	104.769	0.004	111.420	0.002	104.774	-0.001				
	5800	20.752	112.150	108.923	112.143	0.007	108.922	0.001	112.148	0.002	108.922	0.001				
	6000	20.759	112.853	113.074	112.848	0.005	113.080	-0.006	112.852	0.001	113.072	0.002				

CARBON, TRIATOMIC (G) C 3 0 0 0 0 0 1269
 MOL. WT. = 36.030 BLOCK = 923 NO. POINT = 62
 TA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 196.000 KEY = 171
 TS FOR NOTS RMS = 0.013629
 0 0 0 0 0 0 0 0 0 CARBON, TRIATOMIC (G) 10J1269 171
 138516E+1+1.6027116E+0-2.6140308E-1+1.6661167E-2 400 6000 11J1269 171
 1309936E-1+1.9144720E+2+6.6389083E+1+1.9600000E+2C3(G) 12J1269 171

MAGNE:
 MOL.
 DATA F
 FITS F
 3 6 2
 +2.82507
 -5.89950

TS FOR EST RMS LOW = 0.026641 RMS HIGH = 0.004951
 0 0 0 0 0 0 0 0 0 CARBON, TRIATOMIC (G) 10C3
 000+6+309714+5+109142+2+718656-3-773152+6+812359+2 4003000J126911C3
 000+6+309631+5+131474+2+138953-3-650232+7+812359+230006000J126912C3

FITS F
 3 6 2
 +190000+
 +190000+

-----NOTS-----								-----EST-----							
CP	S	H	SC	DS	HC	DH		SC	DS	HC	DH	T			
C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M		C/M-K	C/M-K	KC/M	KC/M	K	C/M		
8.962	59.310	0.912	59.634	-0.324	1.043	-0.131		59.750	-0.440	1.093	-0.181	400	25.0		
9.490	63.029	2.750	62.987	0.042	2.712	0.038		62.976	0.053	2.704	0.046	500	27.0		
10.153	65.852	4.716	65.806	0.046	4.677	0.039		65.790	0.062	4.665	0.051	600	28.0		
10.711	68.179	6.804	68.158	0.021	6.787	0.017		68.152	0.027	6.784	0.020	700	28.0		
11.149	70.173	8.992	70.166	0.007	8.991	0.001		70.167	0.006	8.996	-0.004	800	29.0		
11.495	71.918	11.258	71.918	-0.000	11.265	-0.007		71.922	-0.004	11.274	-0.016	900	29.0		
11.775	73.472	13.586	73.474	-0.002	13.595	-0.009		73.477	-0.005	13.603	-0.017	1000	30.0		
12.006	74.873	15.964	74.873	-0.000	15.972	-0.008		74.875	-0.002	15.976	-0.012	1100	30.0		
12.202	76.148	18.386	76.147	0.001	18.391	-0.005		76.146	0.002	18.389	-0.003	1200	31.0		
12.371	77.319	20.844	77.317	0.002	20.845	-0.001		77.313	0.006	20.839	0.005	1300	31.0		
12.520	78.402	23.333	78.399	0.003	23.332	0.001		78.394	0.008	23.323	0.010	1400	31.0		
12.652	79.410	25.850	79.405	0.005	25.848	0.002		79.401	0.009	25.841	0.009	1500	31.0		
12.770	80.352	28.393	80.347	0.005	28.389	0.004		80.346	0.006	28.390	0.003	1600	32.0		
12.877	81.236	30.958	81.232	0.004	30.954	0.004		81.236	0.000	30.971	-0.013	1700	32.0		
12.877	81.236	30.958	81.232	0.004	30.954	0.004		81.236	0.000	30.963	-0.005	1800	32.0		
12.974	82.070	33.543	82.066	0.004	33.540	0.003		82.069	0.001	33.543	-0.000	1900	33.0		
13.064	82.860	36.147	82.856	0.004	36.145	0.002		82.857	0.003	36.145	0.002	2000	33.0		
13.146	83.609	38.768	83.605	0.004	38.768	0.000		83.606	0.003	38.765	0.003	2100	33.0		
13.222	84.322	41.405	84.318	0.004	41.406	-0.001		84.319	0.003	41.403	0.002	2200	33.0		
13.293	85.002	44.056	84.999	0.003	44.058	-0.002		84.999	0.003	44.055	0.001	2300	34.0		
13.359	85.652	46.722	85.649	0.003	46.724	-0.002		85.650	0.002	46.721	0.001	2400	34.0		
13.420	86.275	49.400	86.272	0.003	49.402	-0.002		86.273	0.002	49.400	0.000	2500	34.0		
13.478	86.873	52.089	86.870	0.003	52.091	-0.002		86.871	0.002	52.090	-0.001				
13.532	87.447	54.791	87.444	0.003	54.792	-0.001		87.445	0.002	54.791	-0.000				
13.583	88.001	57.502	87.997	0.004	57.502	0.000		87.999	0.002	57.503	-0.001				
13.631	88.535	60.224	88.531	0.004	60.222	0.002		88.532	0.003	60.224	0.000				
13.677	89.050	62.954	89.046	0.004	62.952	0.002		89.048	0.002	62.954	-0.000				
13.719	89.548	65.694	89.544	0.004	65.692	0.002		89.546	0.002	65.694	0.000				
13.760	90.030	68.442	90.027	0.003	68.441	0.001		90.028	0.002	68.442	0.000				
13.799	90.497	71.198	90.494	0.003	71.201	-0.003		90.495	0.002	71.198	0.000				

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CARBON, TETRATOMIC (G) C 4 0 0 0 0 0 1269
 MOL. WT. = 48.040 BLOCK = 938 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 232.000 KEY = 174
 FITS FOR NOTS RMS = 0.019238
 4 6 0 0 0 0 0 0 0 0 CARBON, TETRATOMIC (G) 10J1269 174
 +1.9064956E+1+1.0738477E+0-2.2982579E-1+1.6741856E-2 400 6000 11J1269 174
 -1.3884429E+0+2.2233100E+2+7.1527603E+1+2.3200000E+2C4(G) 12J1269 174

FITS FOR EST RMS LOW = 0.030891 RMS HIGH = 0.006193
 4 6 0 0 0 0 0 0 0 0 CARBON, TETRATOMIC (G) 10C4
 +232000+6+511102+5+197388+2+348471-3-151966+7+948939+2 4003000J126911C4
 +232000+6+511005+5+209844+2-178695-4-396544+7+948939+230006000J126912C4

TETRA
 MOL.
 TA F
 TS F
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 500865
 145355
 TS F
 1 4
 5000+5
 0000+0

-----NOTS-----												-----EST-----	
T	CP	S	H	SC	ES	HC	DH	SC	DS	HC	DH		
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		
400	13.780	58.333	1.318	58.809	-0.476	1.509	-0.191	58.881	-0.548	1.542	-0.224		
600	16.045	64.388	4.320	64.321	0.067	4.261	0.059	64.315	0.073	4.258	0.062		
800	17.463	69.213	7.681	69.146	0.067	7.625	0.056	69.140	0.073	7.621	0.060		
1000	18.387	73.216	11.272	73.186	0.030	11.249	0.023	73.187	0.029	11.252	0.020		
1200	19.003	76.627	15.015	76.618	0.009	15.015	-0.000	76.623	0.004	15.023	-0.008		
1400	19.426	79.590	18.861	79.590	-0.000	18.872	-0.011	79.596	-0.006	18.880	-0.019		
1600	19.724	82.204	22.778	82.206	-0.002	22.791	-0.013	82.210	-0.006	22.797	-0.019		
1800	19.942	84.541	26.745	84.541	-0.000	26.756	-0.011	84.543	-0.002	26.758	-0.013		
2000	20.104	86.650	30.751	86.649	0.001	30.757	-0.006	86.648	0.002	30.753	-0.002		
2200	20.227	88.573	34.784	88.569	0.004	34.786	-0.002	88.566	0.007	34.779	0.005		
2400	20.324	90.337	38.840	90.331	0.006	38.838	0.002	90.328	0.009	38.829	0.011		
2600	20.400	91.967	42.912	91.960	0.007	42.908	0.004	91.958	0.009	42.902	0.010		
2800	20.461	93.481	46.999	93.474	0.007	46.994	0.005	93.475	0.006	46.997	0.002		
3000	20.512	94.894	51.096	94.888	0.006	51.092	0.004	94.894	0.000	51.110	-0.014		
3000	20.512	94.894	51.096	94.888	0.006	51.092	0.004	94.894	0.000	51.101	-0.005		
3200	20.553	96.219	55.203	96.213	0.006	55.199	0.004	96.218	0.001	55.204	-0.001		
3400	20.588	97.467	59.317	97.461	0.006	59.315	0.002	97.465	0.002	59.316	0.001		
3600	20.617	98.644	63.438	98.639	0.005	63.438	0.000	98.642	0.002	63.436	0.002		
3800	20.642	99.760	67.563	99.755	0.005	67.565	-0.002	99.757	0.003	67.561	0.002		
4000	20.663	100.819	71.694	100.815	0.004	71.697	-0.003	100.817	0.002	71.692	0.002		
4200	20.682	101.828	75.829	101.823	0.005	75.832	-0.003	101.825	0.003	75.827	0.002		
4400	20.698	102.790	79.967	102.786	0.004	79.970	-0.003	102.788	0.002	79.966	0.001		
4600	20.712	103.710	84.108	103.706	0.004	84.110	-0.002	103.708	0.002	84.107	0.001		
4800	20.724	104.592	88.251	104.587	0.005	88.252	-0.001	104.590	0.002	88.251	-0.000		
5000	20.735	105.438	92.397	105.433	0.005	92.396	0.001	105.437	0.001	92.398	-0.001		
5200	20.745	106.252	96.545	106.246	0.006	96.543	0.002	106.250	0.002	96.546	-0.001		
5400	20.753	107.035	100.695	107.029	0.006	100.691	0.004	107.033	0.002	100.696	-0.001		
5600	20.761	107.790	104.846	107.784	0.006	104.843	0.003	107.788	0.002	104.847	-0.001		
5800	20.768	108.518	108.999	108.513	0.005	108.998	0.001	108.517	0.001	108.999	0.000		
6000	20.774	109.223	113.154	109.218	0.005	113.158	-0.004	109.220	0.003	113.152	0.002		

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CARBON SUBNITRIDE (G) C 4N 2 361
 MOL. WT. = 76.050 BLCK = 946 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 127.500 KEY = 176
 FITS FOR NOTS RMS = 0.035600
 4 6 2 7 0 0 0 0 0 0 0 CARBON SUBNITRIDE (G) 10J 361 176
 +2.9102249E+1+2.1708774E+0-4.6017158E-1+3.3279299E-2 400 6000 11J 361 176
 -1.9550781E+0+1.1335548E+2+9.6229873E+1+1.2750000E+2C4N2 (G) 12J 361 176

FITS FOR EST RMS ICW = 0.057712 RMS HIGH = 0.009669
 4 6 2 7 0 0 0 0 0 0 0 CARBON SUBNITRIDE (G) 10C4N2
 +127500+6+801516+5+304663+2+711007-3-222179+7+133063+3 4003000J 36111C4N2
 +127500+6+801314+5+329726+2-277055-4-699904+7+133063+330006000J 36112C4N2

---				-----NOTS-----				-----EST-----					
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.152	400	22.664	75.666	2.207	76.506	-0.840	2.548	-0.341	76.648	-0.982	2.610	-0.403	
0.104	600	25.370	85.407	7.030	85.301	0.106	6.934	0.096	85.286	0.121	6.923	0.107	
0.099	800	27.259	92.979	12.303	92.858	0.121	12.201	0.102	92.843	0.136	12.190	0.113	
0.029	1000	28.617	99.216	17.858	99.159	0.057	17.853	0.045	99.159	0.057	17.856	0.042	
-0.030	1200	29.582	104.524	23.724	104.508	0.016	23.723	0.001	104.516	0.008	23.736	-0.012	
-0.055	1400	30.272	109.139	29.713	109.139	-0.000	29.734	-0.021	109.150	-0.011	29.749	-0.036	
-0.046	1600	30.773	113.215	35.820	113.220	-0.005	35.846	-0.026	113.228	-0.013	35.857	-0.037	
-0.015	1800	31.145	116.863	42.014	116.864	-0.001	42.035	-0.021	116.867	-0.004	42.038	-0.024	
0.021	2000	31.426	120.159	48.272	120.157	0.002	48.285	-0.013	120.154	0.005	48.278	-0.006	
0.042	2200	31.642	123.165	54.580	123.158	0.007	54.584	-0.004	123.152	0.013	54.569	0.011	
0.031	2400	31.813	125.926	60.926	125.916	0.010	60.923	0.003	125.908	0.018	60.905	0.021	
-0.036	2600	31.948	128.478	67.302	128.466	0.012	67.295	0.007	128.461	0.017	67.283	0.019	
	2800	32.058	130.849	73.703	130.837	0.012	73.694	0.009	130.838	0.011	73.699	0.004	
	3000	32.148	133.064	80.124	133.052	0.012	80.115	0.009	133.064	0.000	80.152	-0.028	
	3000	32.148	133.064	80.124	133.052	0.012	80.115	0.009	133.064	0.000	80.131	-0.007	
	3200	32.222	135.142	86.561	135.130	0.012	86.555	0.006	135.139	0.003	86.563	-0.002	
	3400	32.285	137.097	93.012	137.086	0.011	93.009	0.003	137.094	0.003	93.010	0.001	
	3600	32.337	138.944	99.475	138.934	0.010	99.475	0.000	138.940	0.004	99.471	0.004	
	3800	32.382	140.693	105.947	140.685	0.008	105.950	-0.003	140.691	0.003	105.943	0.004	
	4000	32.421	142.356	112.427	142.347	0.009	112.433	-0.006	142.352	0.004	112.424	0.003	
	4200	32.455	143.938	118.915	143.930	0.008	118.922	-0.007	143.935	0.003	118.912	0.003	
	4400	32.484	145.449	125.409	145.441	0.008	125.416	-0.007	145.445	0.004	125.407	0.002	
	4600	32.509	146.893	131.908	146.885	0.008	131.913	-0.005	146.890	0.003	131.908	0.000	
	4800	32.532	148.277	138.412	148.268	0.009	138.415	-0.003	148.274	0.003	138.413	-0.001	
	5000	32.552	149.606	144.921	149.596	0.010	144.920	0.001	149.603	0.003	144.922	-0.001	
	5200	32.569	150.883	151.433	150.872	0.011	151.429	0.004	150.880	0.003	151.434	-0.001	
	5400	32.585	152.112	157.948	152.102	0.010	157.942	0.006	152.110	0.002	157.950	-0.002	
	5600	32.599	153.297	164.467	153.287	0.010	164.461	0.006	153.295	0.002	164.467	-0.000	
	5800	32.612	154.442	170.988	154.432	0.010	170.987	0.001	154.439	0.003	170.987	0.001	
	6000	32.624	155.548	177.512	155.540	0.008	177.521	-0.009	155.544	0.004	177.509	0.003	

ARBON, PENTATOMIC (G) C 5 0 0 0 0 0 1269 CHLOI
 MOL. WT.= 60.050 BLOCK= 953 NO. POINT = 62 MOL.
 TA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 234.000 KEY = 177 DATA 1
 TS FOR NOTS RMS = 0.026006 FITS 1
 0 0 0 0 0 0 0 0 0 CARBCN, PENTATOMIC (G) 10J1269 177 1 17 0
 .411651E+1+1.4361829E+0-3.0660045E-1+2.2288411E-2 400 6000 11J1269 177 +5.41368
 .791503E+0+2.2131394E+2+7.9066833E+1+2.3400000E+2C5 (G) 12J1269 177 +7.84751

ITS FOR EST RMS LOW = 0.041281 RMS HIGH = 0.008019 FITS 1
 6 0 0 0 0 0 0 0 0 0 CARBON, PENTATOMIC (G) 10C5 1 17 0
 4000+6+653551+5+253066+2+469954-3-205171+7+109128+3 4003000J126911C5 +289219
 4000+6+653423+5+269926+2-248100-4-539648+7+109128+330006000J126912C5 +289219

-----NOTS-----												-----EST-----	
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C
0	17.184	62.484	1.628	63.121	-0.637	1.885	-0.257	63.214	-0.730	1.926	-0.298	400	5.
0	20.318	70.102	5.407	70.015	0.087	5.330	0.077	70.007	0.095	5.325	0.082	600	5.
0	22.239	76.231	9.677	76.142	0.089	9.602	0.075	76.135	0.096	9.597	0.080	800	5.
0	23.484	81.337	14.258	81.297	0.040	14.226	0.032	81.299	0.038	14.230	0.028	1000	5.
0	24.314	85.697	19.043	85.686	0.011	19.043	0.000	85.693	0.004	19.053	-0.010	1200	5.
0	24.883	89.490	23.966	89.491	-0.001	23.981	-0.015	89.499	-0.009	23.992	-0.026	1400	5.
0	25.286	92.841	28.985	92.843	-0.002	29.003	-0.018	92.850	-0.009	29.011	-0.026	1600	5.
0	25.579	95.837	34.073	95.837	-0.000	34.088	-0.015	95.840	-0.003	34.090	-0.017	1800	5.
0	25.798	98.543	39.212	98.541	0.002	39.221	-0.009	98.541	0.002	39.216	-0.004	2000	5.
0	25.965	101.010	44.389	101.005	0.005	44.392	-0.003	101.002	0.008	44.381	0.008	2200	5.
0	26.095	103.275	49.595	103.268	0.007	49.593	0.002	103.264	0.011	49.581	0.014	2400	5.
0	26.198	105.368	54.825	105.360	0.008	54.820	0.005	105.357	0.011	54.811	0.014	2600	5.
0	26.281	107.313	60.073	107.304	0.009	60.066	0.007	107.306	0.007	60.070	0.003	2800	5.
0	26.349	109.129	65.336	109.120	0.009	65.330	0.006	109.129	0.000	65.355	-0.019	3000	5.
0	26.349	109.129	65.336	109.120	0.009	65.330	0.006	109.129	0.000	65.342	-0.006	3200	5.
0	26.405	110.831	70.612	110.822	0.009	70.607	0.005	110.830	0.001	70.613	-0.001	3400	5.
0	26.452	112.433	75.897	112.425	0.008	75.895	0.002	112.431	0.002	75.896	0.001	3600	5.
0	26.491	113.946	81.192	113.939	0.007	81.192	0.000	113.944	0.002	81.189	0.003	3800	5.
0	26.525	115.379	86.493	115.373	0.006	86.496	-0.003	115.377	0.002	86.490	0.003	4000	5.
0	26.553	116.741	91.801	116.735	0.006	91.805	-0.004	116.738	0.003	91.798	0.003	4200	5.
0	26.578	118.037	97.114	118.031	0.006	97.119	-0.005	118.035	0.002	97.112	0.002	4400	5.
0	26.600	119.274	102.432	119.268	0.006	102.437	-0.005	119.272	0.002	102.431	0.001	4600	4.
0	26.619	120.457	107.754	120.451	0.006	107.758	-0.004	120.455	0.002	107.754	0.000	4800	4.
0	26.636	121.590	113.080	121.583	0.007	113.082	-0.002	121.588	0.002	113.080	-0.000	5000	4.
0	26.651	122.678	118.408	122.671	0.007	118.408	0.000	122.676	0.002	118.409	-0.001	5200	4.
0	26.664	123.723	123.740	123.716	0.007	123.737	0.003	123.722	0.001	123.741	-0.001	5400	4.
0	26.675	124.730	129.074	124.722	0.008	129.070	0.004	124.728	0.002	129.075	-0.001	5600	4.
0	26.686	125.700	134.410	125.692	0.008	134.406	0.004	125.698	0.002	134.410	-0.001	5800	4.
0	26.695	126.636	139.748	126.629	0.007	139.747	0.001	126.635	0.001	139.747	0.000	6000	4.
0	26.704	127.542	145.088	127.536	0.006	145.095	-0.007	127.540	0.002	145.086	0.002		

CHLORINE, MONATOMIC

(G)

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361

MOL. WT. = 35.450 BLOCK = 959 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 28.922 KEY = 178

FITS FOR NOTS RMS = 0.003689

1 17 0 0 0 0 0 0 0 0 CHLORINE, MONATOMIC (G) 10J 361 178
+5.4136819E+0-2.5281977E-1+5.2188109E-2-3.6952346E-3 400 6000 11J 361 178
+7.8475952E-2+2.7479446E+1+4.6238555E+1+2.8921997E+1CL (G) 12J 361 178

FITS FOR EST RMS LOW = 0.005819 RMS HIGH = 0.001952

1 17 0 0 0 0 0 0 0 0 CHLORINE, MONATOMIC (G) 10CL
+289219+5+140248+5+525081+1-839344-4+112142+6+516229+2 4003000J 36111CL
+289219+5+140292+5+501657+1-677026-5+292800+6+516229+230006000J 36112CL

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
298	400	5.370	41.013	0.540	40.936	0.077	0.508	0.032	40.917	0.096	0.501	0.039
082	600	5.445	43.212	1.625	43.222	-0.010	1.633	-0.008	43.224	-0.012	1.636	-0.011
080	800	5.389	44.772	2.710	44.783	-0.011	2.718	-0.008	44.786	-0.014	2.721	-0.011
028	1000	5.314	45.967	3.780	45.971	-0.004	3.783	-0.003	45.972	-0.005	3.784	-0.004
010	1200	5.249	46.930	4.836	46.930	-0.000	4.835	0.001	46.930	-0.000	4.835	0.001
026	1400	5.197	47.735	5.880	47.734	0.001	5.877	0.003	47.733	0.002	5.876	0.004
026	1600	5.156	48.426	6.915	48.425	0.001	6.912	0.003	48.424	0.002	6.911	0.004
017	1800	5.125	49.031	7.943	49.031	0.000	7.941	0.002	49.030	0.001	7.941	0.002
004	2000	5.101	49.570	8.966	49.570	-0.000	8.964	0.002	49.570	-0.000	8.965	0.001
008	2200	5.081	50.055	9.984	50.056	-0.001	9.984	0.000	50.056	-0.001	9.985	-0.001
014	2400	5.066	50.497	10.999	50.498	-0.001	10.999	-0.000	50.498	-0.001	11.001	-0.002
014	2600	5.053	50.902	12.011	50.903	-0.001	12.012	-0.001	50.903	-0.001	12.013	-0.002
003	2800	5.043	51.276	13.020	51.277	-0.001	13.022	-0.002	51.277	-0.001	13.021	-0.001
019	3000	5.034	51.623	14.028	51.625	-0.002	14.030	-0.002	51.623	0.000	14.025	0.003
006	3200	5.034	51.623	14.028	51.625	-0.002	14.030	-0.002	51.623	0.000	14.029	-0.001
001	3400	5.027	51.948	15.034	51.949	-0.001	15.035	-0.001	51.947	0.001	15.034	-0.000
001	3600	5.021	52.253	16.039	52.254	-0.001	16.040	-0.001	52.252	0.001	16.039	0.000
003	3800	5.016	52.539	17.043	52.541	-0.002	17.043	-0.000	52.538	0.000	17.042	0.001
003	4000	5.011	52.810	18.045	52.812	-0.002	18.045	-0.000	52.810	0.000	18.045	0.000
003	4200	5.007	53.067	19.047	53.068	-0.001	19.047	0.000	53.066	0.001	19.047	0.000
002	4400	5.004	53.312	20.048	53.313	-0.001	20.048	0.000	53.311	0.001	20.048	0.000
001	4600	5.001	53.544	21.049	53.545	-0.001	21.048	0.001	53.543	0.001	21.048	0.001
000	4800	4.998	53.767	22.049	53.768	-0.001	22.048	0.001	53.766	0.001	22.049	0.000
000	5000	4.996	53.979	23.048	53.980	-0.001	23.048	0.000	53.979	0.000	23.048	-0.000
001	5200	4.994	54.183	24.047	54.184	-0.001	24.047	-0.000	54.182	0.001	24.047	-0.000
001	5400	4.992	54.379	25.046	54.380	-0.001	25.046	0.000	54.378	0.001	25.046	0.000
001	5600	4.990	54.567	26.044	54.569	-0.002	26.044	-0.000	54.567	0.000	26.044	-0.000
001	5800	4.988	54.749	27.042	54.750	-0.001	27.042	-0.000	54.748	0.001	27.042	0.000
000	6000	4.986	55.093	28.039	54.925	-0.001	28.040	-0.001	54.923	0.001	28.039	-0.000
002	6000	4.986	55.093	29.037	55.094	-0.001	29.036	0.001	55.092	0.001	29.036	0.001

CHLORINE FLUORIDE (G) CL 1F 1 965
 MOL. WT.= 54.450 BLOCK= 965 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -12.140 KEY = 179
 FITS FOR NOTS RMS = 0.001831
 9 1 17 0 0 0 0 0 0 0 CHLORINE FLUORIDE (G) 10J 965 179
 1115037E+0+1.2476956E-1-4.4088289E-3+3.4430576E-4 400 6000 11J 965 179
 7430114E-1-1.5337966E+1+6.1974914E+1-1.2139999E+1CLF(G) 12J 965 179

LIT
 MO
 DATA
 FITS
 1 9
 +1.975
 -5.851

FITS FOR EST RMS LOW = 0.001325 RMS HIGH = 0.003081
 9 1 17 0 0 0 0 0 0 0 CHLORINE FLUORIDE (G) 10CLF
 1399+5+241234+5+891668+1+113684-3-173328+6+721329+2 4003000J 96511CLF
 1399+5+241253+5+901594+1+947127-4-676992+6+721329+230006000J 96512CLF

FITS
 1 9
 -18019
 -18019

/M	-----NOTS-----								-----EST-----				T
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
039													
011	8.067	54.376	0.803	54.404	-0.028	0.812	-0.009	54.403	-0.027	0.813	-0.010	400	
011	8.513	57.743	2.466	57.739	0.004	2.462	0.004	57.740	0.003	2.463	0.003	600	
004	8.729	60.225	4.193	60.221	0.004	4.188	0.005	60.223	0.002	4.190	0.003	800	
001	8.851	62.187	5.952	62.185	0.002	5.949	0.003	62.187	0.000	5.951	0.001	1000	
004	8.930	63.808	7.730	63.807	0.001	7.729	0.001	63.809	-0.001	7.730	-0.000	1200	
002	8.986	65.189	9.522	65.189	0.000	9.521	0.001	65.190	-0.001	9.523	-0.001	1400	
001	9.031	66.392	11.324	66.392	0.000	11.324	0.000	66.393	-0.001	11.325	-0.001	1600	
001	9.069	67.458	13.134	67.458	0.000	13.134	-0.000	67.459	-0.001	13.135	-0.001	1800	
002	9.102	68.416	14.951	68.415	0.001	14.951	-0.000	68.416	0.000	14.951	-0.000	2000	
002	9.132	69.284	16.775	69.284	-0.000	16.775	0.000	69.285	-0.001	16.775	0.000	2200	
001	9.160	70.080	18.604	70.080	-0.000	18.604	-0.000	70.080	-0.000	18.604	0.000	2400	
003	9.186	70.814	20.439	70.814	-0.000	20.439	0.000	70.815	-0.001	20.438	0.001	2600	
001	9.211	71.496	22.278	71.496	-0.000	22.279	-0.001	71.496	-0.000	22.278	-0.000	2800	
000	9.236	72.133	24.123	72.132	0.001	24.123	-0.000	72.133	0.000	24.123	-0.000	3000	
000	9.236	72.133	24.123	72.132	0.001	24.123	-0.000	72.133	0.000	24.125	-0.002	3000	
001	9.260	72.729	25.973	72.729	-0.000	25.973	0.000	72.729	-0.000	25.973	-0.000	3200	
000	9.283	73.291	27.827	73.291	-0.000	27.827	-0.000	73.291	0.000	27.826	0.001	3400	
000	9.306	73.823	29.686	73.823	0.000	29.686	-0.000	73.822	0.001	29.685	0.001	3600	
000	9.329	74.326	31.549	74.326	-0.000	31.550	-0.001	74.326	0.000	31.548	0.001	3800	
001	9.351	74.806	33.417	74.805	0.001	33.418	-0.001	74.805	0.001	33.416	0.001	4000	
000	9.374	75.262	35.290	75.262	-0.000	35.290	-0.000	75.262	0.000	35.289	0.001	4200	
000	9.396	75.699	37.167	75.699	0.000	37.167	-0.000	75.698	0.001	37.167	0.000	4400	
000	9.418	76.117	39.048	76.117	0.000	39.048	-0.000	76.117	0.000	39.048	-0.000	4600	
000	9.440	76.518	40.934	76.518	-0.000	40.934	-0.000	76.518	-0.000	40.934	-0.000	4800	
000	9.462	76.904	42.824	76.904	0.000	42.824	-0.000	76.904	0.000	42.825	-0.001	5000	
000	9.483	77.276	44.719	77.275	0.001	44.719	0.000	77.275	0.001	44.719	-0.000	5200	
000	9.505	77.634	46.617	77.634	0.000	46.617	-0.000	77.634	0.000	46.618	-0.001	5400	
000	9.527	77.980	48.521	77.980	0.000	48.520	0.001	77.980	0.000	48.521	0.000	5600	
001	9.548	78.315	50.428	78.315	0.000	50.428	-0.000	78.314	0.001	50.428	0.000	5800	
001	9.570	78.639	52.340	78.639	0.000	52.340	-0.000	78.638	0.001	52.339	0.001	6000	

LITHIUM CHLOROFLUORIDE

(G)

CL 1F 1LI 2

1260

MOL. WT.= 68.320

BLOCK= 971

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -180.200 KEY = 180

FITS FOR NOTS RMS = 0.003834

1 9 1 17 2 71 0 0 0 0 0 LITHIUM CHLOROFLUORIDE (G) 10J1260 180
 +1.9756698E+1+7.4162840E-2-1.7189338E-2+1.3503236E-3 400 6000 11J1260 180
 -5.8518981E-1-1.8792822F+2+8.5008483E+1-1.8019999E+2CLFLI2(G) 12J1260 180

FITS FOR EST RMS LOW = 0.003368 RMS HIGH = 0.005972

1 9 1 17 2 71 0 0 0 0 0 LITHIUM CHLOROFLUORIDE (G) 10CLFLI2
 -180199+6+519443+5+197887+2+270420-4-586960+6+106902+3 4003000J126011CLFLI2
 -180199+6+519476+5+200205+2-216449-4-165222+7+106902+330006000J126012CLFLI2

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.010	400	16.635	68.692	1.617	68.763	-0.071	1.643	-0.026	68.762	-0.070	1.646	-0.029
0.003	600	18.195	75.782	5.125	75.771	0.011	5.113	0.012	75.772	0.010	5.117	0.008
0.003	800	18.869	81.121	8.840	81.111	0.010	8.830	0.010	81.114	0.007	8.834	0.006
0.001	1000	19.212	85.373	12.652	85.367	0.006	12.645	0.007	85.370	0.003	12.650	0.002
-0.000	1200	19.404	88.894	16.515	88.891	0.003	16.512	0.003	88.893	0.001	16.516	-0.001
-0.001	1400	19.524	91.895	20.409	91.894	0.001	20.407	0.002	91.895	-0.000	20.411	-0.002
-0.001	1600	19.606	94.508	24.322	94.507	0.001	24.322	0.000	94.508	0.000	24.324	-0.002
-0.001	1800	19.663	96.820	28.249	96.820	0.000	28.249	-0.000	96.820	0.000	28.250	-0.001
-0.000	2000	19.701	98.894	32.186	98.893	0.001	32.186	0.000	98.893	0.001	32.186	0.000
0.000	2200	19.731	100.773	36.129	100.773	0.000	36.129	0.000	100.772	0.001	36.128	0.001
0.000	2400	19.753	102.491	40.077	102.490	0.001	40.077	-0.000	102.489	0.002	40.076	0.001
0.001	2600	19.770	104.073	44.029	104.072	0.001	44.030	-0.001	104.071	0.002	44.029	0.000
-0.000	2800	19.785	105.538	47.985	105.538	0.000	47.985	-0.000	105.537	0.001	47.985	0.000
-0.000	3000	19.794	106.903	51.943	106.903	-0.000	51.943	-0.000	106.903	0.000	51.944	-0.001
-0.002	3000	19.794	106.903	51.943	106.903	-0.000	51.943	-0.000	106.903	0.000	51.948	-0.005
-0.000	3200	19.805	108.181	55.903	108.181	-0.000	55.903	-0.000	108.180	0.001	55.904	-0.001
0.001	3400	19.811	109.382	59.864	109.382	-0.000	59.865	-0.001	109.380	0.002	59.863	0.001
0.001	3600	19.818	110.515	63.827	110.515	0.000	63.828	-0.001	110.512	0.003	63.825	0.002
0.001	3800	19.824	111.586	67.792	111.586	-0.000	67.793	-0.001	111.584	0.002	67.789	0.003
0.001	4000	19.829	112.603	71.757	112.603	-0.000	71.758	-0.001	112.601	0.002	71.755	0.002
0.001	4200	19.832	113.571	75.723	113.571	0.000	75.724	-0.001	113.568	0.003	75.721	0.002
0.000	4400	19.836	114.493	79.690	114.493	-0.000	79.691	-0.001	114.491	0.002	79.689	0.001
-0.000	4600	19.840	115.375	83.658	115.375	-0.000	83.658	0.000	115.373	0.002	83.657	0.001
-0.000	4800	19.843	116.220	87.626	116.220	0.000	87.626	0.000	116.218	0.002	87.626	-0.000
-0.001	5000	19.845	117.030	91.595	117.030	0.000	91.594	0.001	117.028	0.002	91.595	-0.000
-0.000	5200	19.847	117.808	95.564	117.808	0.000	95.563	0.001	117.806	0.002	95.565	-0.001
-0.001	5400	19.849	118.557	99.533	118.557	0.000	99.532	0.001	118.555	0.002	99.534	-0.001
0.000	5600	19.850	119.279	103.503	119.279	0.000	103.502	0.001	119.277	0.002	103.503	-0.000
0.000	5800	19.851	119.976	107.473	119.975	0.001	107.473	0.000	119.974	0.002	107.473	0.000
0.001	6000	19.852	120.649	111.444	120.649	0.000	111.444	-0.000	120.646	0.003	111.442	0.002

MAGNESIUM CHLOROFLUORIDE (G) CL 1F 1MG 1 0 0 0 366 PERCH
 MOL. WT.= 78.760 BLOCK= 978 NO. POINT = 62 MOL.
 ATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -136.000 KEY = 181 DATA F
 ITS FOR NOTS RMS = 0.002397 FITS F
 9 1 12 1 17 0 0 0 0 0 MAGNESIUM CHLOROFLUORIDE (G) 10J 366 181 3 8 1
 .3881790E+1+2.0034551E-2-5.1540881E-3+4.4114165E-4 400 6000 11J 366 181 +2.50764
 .3149108E-1-1.4087232E+2+7.8379379E+1-1.3600000E+2CLFMG (G) 12J 366 181 -1.48217

 FITS FOR EST RMS LOW = 0.001283 RMS HIGH = 0.004294 FITS F
 9 1 12 1 17 0 0 0 0 0 MAGNESIUM CHLOROFLUORIDE (G) 10CLFMG 3 8 1
 36000+6+369023+5+138896+2+630106-5-231600+6+936839+2 4003000J 36611CLFMG -511999+
 36000+6+369053+5+140097+2-146050-4-896512+6+936839+230006000J 36612CLFMG -511999+

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	ES	HC	DH	SC	DS	HC	DH	T			
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/I	C/I	
400	12.619	66.367	1.253	66.391	-0.024	1.261	-0.008	66.392	-0.025	1.263	-0.010	400	18.		
600	13.259	71.625	3.851	71.621	0.004	3.846	0.005	71.623	0.002	3.849	0.002	600	21.		
800	13.526	75.481	6.533	75.477	0.004	6.528	0.005	75.479	0.002	6.531	0.002	800	22.		
1000	13.659	78.515	9.253	78.513	0.002	9.249	0.004	78.515	0.000	9.252	0.001	1000	23.		
1200	13.733	81.013	11.993	81.011	0.002	11.990	0.003	81.013	-0.000	11.993	0.000	1200	24.		
1400	13.779	83.134	14.745	83.133	0.001	14.743	0.002	83.134	-0.000	14.745	0.000	1400	24.		
1600	13.809	84.976	17.504	84.975	0.001	17.502	0.002	84.976	-0.000	17.504	-0.000	1600	25.		
1800	13.830	86.604	20.268	86.603	0.001	20.267	0.001	86.604	-0.000	20.268	-0.000	1800	25.		
2000	13.845	88.062	23.035	88.061	0.001	23.035	-0.000	88.062	0.000	23.036	-0.001	2000	25.		
2200	13.856	89.382	25.806	89.382	0.000	25.806	0.000	89.382	-0.000	25.806	0.000	2200	25.		
2400	13.865	90.588	28.578	90.588	0.000	28.578	0.000	90.588	-0.000	28.578	0.000	2400	25.		
2600	13.872	91.698	31.352	91.698	0.000	31.352	0.000	91.698	-0.000	31.351	0.001	2600	25.		
2800	13.877	92.726	34.126	92.726	-0.000	34.127	-0.001	92.726	-0.000	34.126	-0.000	2800	25.		
3000	13.881	93.684	36.902	93.684	0.000	36.903	-0.001	93.684	0.000	36.902	-0.000	3000	25.		
3200	13.881	93.684	36.902	93.684	0.000	36.903	-0.001	93.684	0.000	36.905	-0.003	3200	25.		
3400	13.885	94.580	39.679	94.580	0.000	39.680	-0.001	94.579	0.001	39.680	-0.001	3400	25.		
3600	13.888	95.421	42.456	95.422	-0.001	42.457	-0.001	95.421	0.000	42.455	0.001	3600	25.		
3800	13.890	96.215	45.234	96.216	-0.001	45.235	-0.001	96.214	0.001	45.232	0.002	3800	25.		
4000	13.892	96.966	48.012	96.967	-0.001	48.013	-0.001	96.965	0.001	48.010	0.002	4000	25.		
4200	13.894	97.679	50.791	97.679	-0.000	50.791	-0.000	97.678	0.001	50.789	0.002	4200	25.		
4400	13.895	98.357	53.570	98.357	-0.000	53.570	-0.000	98.356	0.001	53.568	0.001	4400	25.		
4600	13.897	99.003	56.349	99.003	-0.000	56.349	-0.000	99.002	0.001	56.348	0.001	4600	25.		
4800	13.898	99.621	59.128	99.621	-0.000	59.128	-0.000	99.620	0.001	59.128	-0.000	4800	25.		
5000	13.899	100.213	61.908	100.213	0.000	61.908	0.000	100.212	0.001	61.908	-0.000	5000	25.		
5200	13.900	100.780	64.688	100.780	0.000	64.688	0.000	100.779	0.001	64.688	-0.000	5200	25.		
5400	13.900	101.325	67.468	101.325	-0.000	67.467	0.001	101.325	0.000	67.468	-0.001	5400	25.		
5600	13.901	101.850	70.248	101.850	0.000	70.248	0.000	101.849	0.001	70.249	-0.001	5600	25.		
5800	13.902	102.355	73.028	102.355	-0.000	73.028	0.000	102.355	0.000	73.028	-0.000	5800	25.		
6000	13.902	102.843	75.809	102.843	-0.000	75.808	0.001	102.842	0.001	75.808	0.001	6000	25.		
	13.903	103.314	78.589	103.315	-0.001	78.589	-0.000	103.314	0.000	78.588	0.001				

PERCHLORYL FLUORIDE

(G) CL 1F 10 3

361

MOL. WT.= 102.450 BLOCK= 984 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -5.120 KEY = 182

FITS FOR NOTS RMS = 0.011329

3 8 1 9 1 17 0 0 0 0 0 PERCHLORYL FLUORIDE (G) 10J 361 182
 +2.5076446E+1+4.6789813E-1-1.0294818E-1+7.6715610E-3 400 6000 11J 361 182
 -1.4821777E+0-1.7050476E+1+9.0072021E+1-5.1199998E+0CLFO3(G) 12J 361 182

FITS FOR EST RMS LOW = 0.016764 RMS HIGH = 0.007828

3 8 1 9 1 17 0 0 0 0 0 PERCHLORYL FLUORIDE (G) 10CLFO3
 -511993+4+651354+5+253590+2+151263-3-153318+7+118715+3 4003000J 36111CLFO3
 -511999+4+651347+5+260181+2-269391-4-335718+7+118715+330006000J 36112CLFO3

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	LS	HC	DH	SC	DS	HC	DH
M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
10	400	18.152	71.602	1.722	71.906	-0.304	1.841	-0.119	71.933	-0.331	1.855	-0.133
02	600	21.319	79.633	5.704	79.584	0.049	5.663	0.041	79.583	0.050	5.665	0.039
02	800	22.967	86.016	10.150	85.977	0.039	10.116	0.034	85.977	0.039	10.119	0.031
01	1000	23.883	91.249	14.843	91.232	0.017	14.830	0.013	91.235	0.014	14.834	0.009
00	1200	24.430	95.655	19.679	95.650	0.005	19.678	0.001	95.655	0.000	19.684	-0.005
00	1400	24.780	99.449	24.602	99.449	0.000	24.607	-0.005	99.453	-0.004	24.613	-0.011
00	1600	25.016	102.775	29.584	102.775	0.000	29.589	-0.005	102.778	-0.003	29.593	-0.009
00	1800	25.181	105.731	34.604	105.731	0.000	34.608	-0.005	105.732	-0.001	34.610	-0.006
01	2000	25.301	108.391	39.653	108.389	0.002	39.655	-0.002	108.389	0.002	39.654	-0.001
00	2200	25.391	110.807	44.723	110.804	0.003	44.723	-0.000	110.803	0.004	44.719	0.004
00	2400	25.461	113.019	49.808	113.016	0.003	49.807	0.001	113.014	0.005	49.803	0.005
01	2600	25.515	115.059	54.906	115.056	0.003	54.904	0.002	115.055	0.004	54.901	0.005
00	2800	25.558	116.952	60.013	116.948	0.004	60.012	0.001	116.949	0.003	60.012	0.001
00	3000	25.593	118.716	65.129	118.713	0.003	65.127	0.002	118.716	0.000	65.135	-0.006
03	3000	25.593	118.716	65.129	118.713	0.003	65.127	0.002	118.716	0.000	65.135	-0.006
01	3200	25.622	120.369	70.250	120.366	0.003	70.250	0.000	120.367	0.002	70.252	-0.002
01	3400	25.646	121.923	75.377	121.920	0.003	75.377	-0.000	121.920	0.003	75.376	0.001
02	3600	25.666	123.390	80.508	123.387	0.003	80.509	-0.001	123.386	0.004	80.506	0.002
02	3800	25.683	124.778	85.643	124.775	0.003	85.645	-0.002	124.775	0.003	85.640	0.003
02	4000	25.698	126.096	90.782	126.093	0.003	90.784	-0.002	126.092	0.004	90.779	0.003
01	4200	25.711	127.350	95.922	127.347	0.003	95.925	-0.003	127.347	0.003	95.920	0.002
01	4400	25.721	128.546	101.066	128.544	0.002	101.068	-0.002	128.543	0.003	101.064	0.001
00	4600	25.731	129.690	106.211	129.687	0.003	106.212	-0.001	129.687	0.003	106.211	0.000
00	4800	25.739	130.785	111.358	130.782	0.003	111.358	-0.000	130.782	0.003	111.359	-0.001
00	5000	25.747	131.836	116.507	131.833	0.003	116.506	0.001	131.833	0.003	116.508	-0.001
01	5200	25.753	132.846	121.657	132.843	0.003	121.655	0.002	132.843	0.003	121.658	-0.001
01	5400	25.759	133.818	126.808	133.815	0.003	126.806	0.002	133.815	0.003	126.809	-0.001
00	5600	25.765	134.755	131.960	134.752	0.003	131.959	0.001	134.752	0.003	131.961	-0.001
01	5800	25.769	135.659	137.114	135.656	0.003	137.113	0.001	135.656	0.003	137.113	0.001
01	6000	25.773	136.533	142.268	136.530	0.003	142.271	-0.003	136.530	0.003	142.266	0.002

CHLOROTRIFLUOROSILANE

(G)

CL 1F 3SI 1

1260

MOL. WT. = 120.530

BLOCK = 997

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -315.000 KEY = 184

FITS FOR NOTS RMS = 0.005379

3 9 1 14 1 17 0 0 0 0 0 CHLOROTRIFLUOROSILANE (G) 10J1260 184
+2.5610290E+1+1.4373040E-1-3.3059265E-2+2.5715334E-3 400 6000 11J1260 184
-8.7182617E-1-3.2534204E+2+1.0045077E+2-3.1500000E+2CLF3SI(G) 12J1260 184

FITS FOR EST RMS LOW = 0.005879 RMS HIGH = 0.007803

3 9 1 14 1 17 0 0 0 0 0 CHLOROTRIFLUOROSILANE (G) 10CLF3SI
-315000+6+671821+5+256876+2+470704-4-882288+6+128940+3 4003000J126011CLF3SI
-315000+6+671860+5+260097+2-255481-4-221209+7+128940+330006000J126012CLF3SI

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
021	400	21.095	79.646	2.048	79.764	-0.118	2.092	-0.044	79.769	-0.123	2.098	-0.050
006	600	23.305	88.680	6.519	88.660	0.020	6.501	0.018	88.662	0.018	6.505	0.014
004	800	24.305	95.538	11.292	95.522	0.016	11.277	0.015	95.525	0.013	11.281	0.011
002	1000	24.821	101.023	16.210	101.015	0.008	16.202	0.008	101.018	0.005	16.207	0.003
000	1200	25.117	105.577	21.206	105.573	0.004	21.203	0.003	105.576	0.001	21.208	-0.002
001	1400	25.301	109.463	26.249	109.461	0.002	26.248	0.001	109.464	-0.001	26.252	-0.003
002	1600	25.423	112.850	31.322	112.849	0.001	31.322	-0.000	112.851	-0.001	31.325	-0.003
000	1800	25.507	115.850	36.416	115.849	0.001	36.416	-0.000	115.850	0.000	36.417	-0.001
000	2000	25.568	118.540	41.524	118.540	0.000	41.524	-0.000	118.540	0.000	41.524	0.000
000	2200	25.614	120.980	46.642	120.979	0.001	46.642	-0.000	120.978	0.002	46.641	0.001
001	2400	25.649	123.210	51.769	123.209	0.001	51.769	0.000	123.208	0.002	51.767	0.002
000	2600	25.676	125.264	56.901	125.263	0.001	56.901	-0.000	125.262	0.002	56.900	0.001
000	2800	25.698	127.168	62.039	127.167	0.001	62.039	-0.000	127.167	0.001	62.038	0.001
001	3000	25.715	128.941	67.180	128.941	0.000	67.181	-0.001	128.941	0.000	67.182	-0.002
005	3000	25.715	128.941	67.180	128.941	0.000	67.181	-0.001	128.941	0.000	67.186	-0.006
001	3200	25.729	130.601	72.325	130.601	0.000	72.326	-0.001	130.600	0.001	72.326	-0.001
001	3400	25.741	132.161	77.472	132.161	0.000	77.473	-0.001	132.159	0.002	77.470	0.002
002	3600	25.751	133.633	82.621	133.633	0.000	82.622	-0.001	133.630	0.003	82.618	0.003
002	3800	25.760	135.026	87.772	135.025	0.001	87.774	-0.002	135.023	0.003	87.769	0.003
003	4000	25.767	136.347	92.925	136.347	0.000	92.926	-0.001	136.344	0.003	92.922	0.003
002	4200	25.773	137.604	98.079	137.604	0.000	98.080	-0.001	137.602	0.002	98.077	0.002
001	4400	25.779	138.803	103.234	138.803	0.000	103.235	-0.001	138.801	0.002	103.233	0.001
000	4600	25.783	139.949	108.390	139.949	0.000	108.391	-0.001	139.947	0.002	108.390	0.000
000	4800	25.788	141.047	113.547	141.046	0.001	113.547	-0.000	141.045	0.002	113.548	-0.001
001	5000	25.791	142.100	118.705	142.099	0.001	118.705	0.000	142.098	0.002	118.706	-0.001
001	5200	25.795	143.111	123.864	143.110	0.001	123.863	0.001	143.109	0.002	123.865	-0.001
001	5400	25.797	144.085	129.023	144.084	0.001	129.022	0.001	144.083	0.002	129.024	-0.001
000	5600	25.800	145.023	134.183	145.022	0.001	134.182	0.001	145.021	0.002	134.183	-0.000
000	5800	25.802	145.929	139.343	145.928	0.001	139.343	0.000	145.926	0.003	139.342	0.000
002	6000	25.804	146.803	144.504	146.803	0.000	144.505	-0.001	146.801	0.002	144.502	0.002

HYDROGEN CHLORIDE (G) CL 1H 1
 MCL. WT.= 36.460 BLOCK= 1003 NO. POINT = 62
 TA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -22.063 KEY = 185
 TS FOR NOTS RMS = 0.013126
 1 1 17 0 0 0 0 0 0 0 HYDROGEN CHLORIDE (G) 10J 964 185
 982229E+0+1.2306442E+0-2.3359179E-1+1.6451358E-2 400 6000 11J 964 185
 042175E-1-2.4752914E+1+5.1977783E+1-2.2062988E+1CLH(G) 12J 964 185

964

HYDRO

MOL.

DATA F

FITS F

1 1 1

+1.08827

-5.33966

TS FOR EST RMS LOW = 0.022923 RMS HIGH = 0.002940

FITS F

1 1 17 0 0 0 0 0 0 0 HYDROGEN CHLORIDE (G) 10CLH

1 1 1

629+5+218768+5+762345+1+473276-3-408816+6+623639+2 4003000J 96411CLH

-220000+

629+5+218664+5+896486+1+835850-4-292873+7+623639+230006000J 96412CLH

-220000+

-----NOTS-----

-----EST-----

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/
1													
50													
14													
11	6.973	46.693	0.710	46.945	-0.252	0.814	-0.104	47.028	-0.335	0.850	-0.140	400	9.
03	7.069	49.534	2.112	49.513	0.021	2.088	0.024	49.504	0.030	2.081	0.031	600	10.
02	7.289	51.595	3.546	51.555	0.040	3.510	0.036	51.543	0.052	3.502	0.044	800	11.
03	7.559	53.250	5.030	53.227	0.023	5.010	0.020	53.224	0.026	5.009	0.021	1000	11.
03	7.819	54.652	6.569	54.644	0.008	6.565	0.004	54.646	0.006	6.570	-0.001	1200	11.
01	8.043	55.875	8.155	55.874	0.001	8.162	-0.007	55.878	-0.003	8.169	-0.014	1400	12.
00	8.229	56.961	9.783	56.963	-0.002	9.793	-0.010	56.966	-0.005	9.799	-0.016	1600	12.
01	8.382	57.940	11.445	57.941	-0.001	11.454	-0.009	57.942	-0.002	11.456	-0.011	1800	12.
02	8.509	58.830	13.135	58.830	0.000	13.141	-0.006	58.828	0.002	13.138	-0.003	2000	12.
01	8.614	59.646	14.847	59.644	0.002	14.850	-0.003	59.640	0.006	14.843	0.004	2200	13.
01	8.703	60.399	16.579	60.396	0.003	16.579	0.000	60.392	0.007	16.570	0.009	2400	13.
02	8.778	61.099	18.327	61.095	0.004	18.325	0.002	61.091	0.008	18.318	0.009	2600	13.
06	8.844	61.752	20.090	61.747	0.005	20.086	0.004	61.747	0.005	20.087	0.003	2800	13.
01	8.902	62.364	21.864	62.360	0.004	21.860	0.004	62.364	0.000	21.877	-0.013	3000	13.
02	8.902	62.364	21.864	62.360	0.004	21.860	0.004	62.364	0.000	21.866	-0.002	3000	13.
03	8.953	62.940	23.650	62.936	0.004	23.646	0.004	62.940	0.000	23.650	-0.000	3200	13.
03	8.999	63.484	25.445	63.480	0.004	25.443	0.002	63.483	0.001	25.445	0.000	3400	13.
03	9.041	64.000	27.249	63.996	0.004	27.249	0.000	63.999	0.001	27.248	0.001	3600	13.
02	9.079	64.490	29.061	64.487	0.003	29.062	-0.001	64.489	0.001	29.060	0.001	3800	13.
01	9.115	64.956	30.881	64.954	0.002	30.883	-0.002	64.955	0.001	30.880	0.001	4000	13.
00	9.148	65.402	32.707	65.399	0.003	32.710	-0.003	65.401	0.001	32.706	0.001	4200	13.
01	9.180	65.828	34.540	65.826	0.002	34.543	-0.003	65.827	0.001	34.540	0.000	4400	13.
01	9.210	66.237	36.379	66.234	0.003	36.381	-0.002	66.236	0.001	36.379	0.000	4600	13.
01	9.238	66.629	38.224	66.627	0.002	38.225	-0.001	66.629	0.000	38.224	0.000	4800	13.
01	9.265	67.007	40.074	67.004	0.003	40.074	0.000	67.006	0.001	40.074	-0.000	5000	13.
00	9.291	67.371	41.930	67.368	0.003	41.928	0.002	67.370	0.001	41.930	-0.000	5200	13.
00	9.316	67.722	43.790	67.719	0.003	43.788	0.002	67.721	0.000	43.791	-0.001	5400	13.
00	9.341	68.061	45.656	68.058	0.003	45.654	0.002	68.061	0.000	45.656	-0.000	5600	13.
02	9.365	68.390	47.527	68.386	0.004	47.526	0.001	68.389	0.001	47.527	0.000	5800	13.
	9.388	68.707	49.402	68.705	0.002	49.406	-0.004	68.707	0.000	49.401	0.001	6000	13.

HYDROGEN OXYCHLORIDE

(G)

CL 1H 10 1

661

MOL. WT. = 52.460

BLOCK = 1009

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -22.000 KEY = 186

FITS FOR NOTS RMS = 0.014993

185 1 1 1 8 1 17 0 0 0 0 0 HYDROGEN OXYCHLORIDE (G) 10J 661 186
 185 +1.0882731E+1+1.6332664E+0-3.2578611E-1+2.2552028E-2 400 6000 11J 661 186
 185 -5.3396606E-1-2.6759704E+1+6.7199295E+1-2.2000000E+1CLHO (G) 12J 661 186

FITS FOR EST RMS LOW = 0.027788 RMS HIGH = 0.004292

1 1 1 8 1 17 0 0 0 0 0 HYDROGEN OXYCHLORIDE (G) 10CLHO
 -220000+5+329610+5+119245+2+561394-3-751968+6+828259+2 4003000J 66111CLHO
 -220000+5+329487+5+139147+2-272513-5-472438+7+828259+230006000J 66112CLHO

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
850 -0.140	400	9.553	59.253	0.940	59.524	-0.271	1.052	-0.112	59.648	-0.395	1.105	-0.165	
081 0.031	600	10.509	63.323	2.954	63.305	0.018	2.931	0.023	63.289	0.034	2.920	0.034	
502 0.044	800	11.125	66.436	5.121	66.394	0.042	5.083	0.038	66.375	0.061	5.070	0.051	
009 0.021	1000	11.589	68.970	7.394	68.944	0.026	7.371	0.023	68.937	0.033	7.368	0.026	
570 -0.001	1200	11.967	71.118	9.751	71.107	0.011	9.745	0.006	71.108	0.010	9.751	0.000	
169 -0.014	1400	12.279	72.987	12.177	72.985	0.002	12.182	-0.005	72.990	-0.003	12.192	-0.015	
799 -0.016	1600	12.534	74.644	14.659	74.646	-0.002	14.669	-0.010	74.649	-0.005	14.678	-0.019	
456 -0.011	1800	12.742	76.132	17.187	76.134	-0.002	17.198	-0.011	76.135	-0.003	17.202	-0.015	
138 -0.003	2000	12.911	77.484	19.753	77.484	-0.000	19.761	-0.008	77.482	0.002	19.758	-0.005	
843 0.004	2200	13.049	78.721	22.349	78.720	0.001	22.353	-0.004	78.714	0.007	22.345	0.004	
570 0.009	2400	13.162	79.862	24.971	79.859	0.003	24.971	0.000	79.852	0.010	24.960	0.011	
318 0.009	2600	13.256	80.919	27.613	80.915	0.004	27.610	0.003	80.909	0.010	27.601	0.012	
087 0.003	2800	13.334	81.904	30.272	81.899	0.005	30.268	0.004	81.897	0.007	30.268	0.004	
877 -0.013	3000	13.399	82.826	32.945	82.822	0.004	32.941	0.004	82.826	0.000	32.961	-0.016	
866 -0.002	3000	13.399	82.826	32.945	82.822	0.004	32.941	0.004	82.826	0.000	32.949	-0.004	
650 -0.000	3200	13.454	83.693	35.631	83.688	0.005	35.627	0.004	83.692	0.001	35.632	-0.001	
445 0.000	3400	13.502	84.510	38.327	84.506	0.004	38.324	0.003	84.508	0.002	38.326	0.001	
248 0.001	3600	13.542	85.283	41.031	85.279	0.004	41.030	0.001	85.281	0.002	41.030	0.001	
060 0.001	3800	13.577	86.016	43.743	86.013	0.003	43.744	-0.001	86.014	0.002	43.742	0.001	
880 0.001	4000	13.607	86.713	46.462	86.711	0.002	46.464	-0.002	86.711	0.002	46.460	0.002	
706 0.001	4200	13.634	87.378	49.186	87.375	0.003	49.189	-0.003	87.376	0.002	49.185	0.001	
540 0.000	4400	13.657	88.013	51.915	88.010	0.003	51.918	-0.003	88.011	0.002	51.914	0.001	
379 0.000	4600	13.677	88.620	54.648	88.617	0.003	54.651	-0.003	88.619	0.001	54.648	-0.000	
224 0.000	4800	13.695	89.203	57.385	89.200	0.003	57.387	-0.002	89.201	0.002	57.386	-0.001	
074 -0.000	5000	13.711	89.762	60.126	89.759	0.003	60.126	0.000	89.761	0.001	60.127	-0.001	
930 -0.000	5200	13.726	90.300	62.870	90.296	0.004	62.868	0.002	90.299	0.001	62.870	-0.000	
791 -0.001	5400	13.739	90.818	65.616	90.814	0.004	65.613	0.003	90.817	0.001	65.617	-0.001	
656 -0.000	5600	13.750	91.318	68.365	91.314	0.004	68.362	0.003	91.317	0.001	68.365	-0.001	
527 0.000	5800	13.761	91.801	71.116	91.797	0.004	71.116	0.000	91.799	0.002	71.116	-0.000	
401 0.001	6000	13.770	92.268	73.870	92.265	0.003	73.875	-0.005	92.266	0.002	73.869	0.001	

CHLOROSILANE (G) CL 1H 3SI 1 1260 AMMO:
 MOL. WT.= 66.560 BLOCK= 1016 NO. POINT = 62 MOL
 ATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -48.000 KEY = 187 DATA
 ITS FOR NOTS RMS = 0.037011 FITS
 1 1 14 1 17 0 0 0 0 0 CHLOROSILANE (G) 10J1260 187 4 1 1
 .2112747E+1+2.1945648E+0-4.6531122E-1+3.3634364E-2 400 6000 11J1260 187 -1.90641
 .2077636E+0-6.0807586E+1+7.7207229E+1-4.8000000E+1CLH3SI (G) 12J1260 187 +1.55851

 ITS FOR EST RMS LOW = 0.059761 RMS HIGH = 0.007624 FITS
 1 1 14 1 17 0 0 0 0 0 CHLOROSILANE (G) 10CLH3SI 4 1 1
 40000+5+606734+5+234915+2+719146-3-247740+7+106428+3 4003000J126011CLH3SI -751799
 40000+5+606512+5+259777+2-219714-4-699008+7+106428+330006000J126012CLH3SI -751799

-----NOTS-----														-----EST-----							
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C								
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C								
1	14.487	63.803	1.364	64.686	-0.883	1.723	-0.359	64.830	-1.027	1.785	-0.421	400	24								
5	17.691	70.328	4.604	70.213	0.115	4.502	0.102	70.198	0.130	4.490	0.114	500	21								
0	19.871	75.734	8.373	75.610	0.124	8.269	0.104	75.595	0.139	8.257	0.116	600	24								
5	21.384	80.341	12.508	80.284	0.057	12.464	0.044	80.284	0.057	12.465	0.043	700	26								
9	22.437	84.339	16.896	84.323	0.016	16.897	-0.001	84.332	0.007	16.909	-0.013	800	29								
5	23.179	87.856	21.462	87.858	-0.002	21.485	-0.023	87.869	-0.013	21.499	-0.037	900	32								
5	23.714	90.988	26.154	90.993	-0.005	26.181	-0.027	91.001	-0.013	26.192	-0.038	1000	34								
4	24.109	93.805	30.938	93.807	-0.002	30.961	-0.023	93.811	-0.006	30.963	-0.025	1100	36								
1	24.406	96.362	35.791	96.359	0.003	35.805	-0.014	96.357	0.005	35.797	-0.006	1200	38								
2	24.634	98.699	40.696	98.692	0.007	40.700	-0.004	98.686	0.013	40.685	0.011	1300	39								
4	24.813	100.850	45.641	100.840	0.010	45.638	0.003	100.833	0.017	45.620	0.021	1400	40								
6	24.955	102.842	50.619	102.830	0.012	50.610	0.009	102.825	0.017	50.598	0.021	1500	42								
4	25.070	104.696	55.622	104.683	0.013	55.611	0.011	104.685	0.011	55.617	0.005										
1	25.165	106.429	60.645	106.416	0.013	60.635	0.010	106.429	0.000	60.673	-0.028										
1	25.165	106.429	60.645	106.416	0.013	60.635	0.010	106.429	0.000	60.651	-0.006										
1	25.242	108.056	65.686	108.043	0.013	65.679	0.007	108.054	0.002	65.688	-0.002										
1	25.308	109.588	70.742	109.576	0.012	70.737	0.005	109.586	0.002	70.740	0.002										
2	25.363	111.036	75.809	111.026	0.010	75.808	0.001	111.033	0.003	75.806	0.003										
1	25.410	112.409	80.886	112.399	0.010	80.889	-0.003	112.406	0.003	80.883	0.003										
11	25.450	113.713	85.972	113.704	0.009	85.978	-0.006	113.710	0.003	85.970	0.002										
0	25.485	114.956	91.066	114.947	0.009	91.073	-0.007	114.953	0.003	91.064	0.002										
1	25.516	116.142	96.166	116.133	0.009	96.173	-0.007	116.140	0.002	96.165	0.001										
1	25.542	117.277	101.272	117.268	0.009	101.277	-0.005	117.275	0.002	101.272	0.000										
10	25.566	118.364	106.383	118.355	0.009	106.385	-0.002	118.362	0.002	106.383	-0.000										
1	25.586	119.408	111.498	119.398	0.010	111.497	0.001	119.407	0.001	111.499	-0.001										
11	25.605	120.412	116.617	120.402	0.010	116.613	0.004	120.410	0.001	116.618	-0.001										
10	25.621	121.379	121.740	121.368	0.011	121.733	0.007	121.377	0.002	121.741	-0.001										
11	25.636	122.311	126.866	122.300	0.011	126.859	0.007	122.309	0.002	126.866	0.000										
1	25.649	123.211	131.994	123.201	0.010	131.993	0.001	123.209	0.002	131.993	0.001										
1	25.661	124.081	137.125	124.072	0.009	137.134	-0.009	124.078	0.003	137.123	0.002										

AMMONIUM PERCHLORATE (C) CL 1H 4N 10 4 1262
 MOL. WT.= 117.480 BLOCK= 1024 NO. POINT = 17
 DATA FROM C TO 1500 K HFORM(KCAL/(MOLE)) = -70.690 KEY = 189
 TS FOR NOTS RMS = 0.168445
 1 1 7 4 8 1 17 0 0 0 AMMONIUM PERCHLORATE (C) 30J1262 189
 1441308E+2-6.6593066E+2+6.0800341E+2-1.7604675E+2 400 1500 31J1262 189
 4778701E+1-1.8887112E+2+5.1659863E+2-7.0689987E+1CLH4NO4 (C) 32J1262 189

LI
 M
 DAT
 FIT
 1 17
 +1.02
 -2.58

TS FOR EST RMS LOW = 0.207519 RMS HIGH = 0.207519
 1 1 7 4 8 1 17 0 0 0 AMMONIUM PERCHLORATE (C) 30CLH4NO4\$
 6899+5+259185+6+175086+2+464167-1+251955+7+216658+3 4001500J126231CLH4NO4\$
 6899+5+259185+6+175086+2+464167-1+251955+7+216658+3 4001500J126232CLH4NO4\$

FIT
 1 17
 -9757
 -9757

/M
 448
 448
 176
 008
 107
 122
 075
 002
 072
 068
 025
 054

-----NOTS-----								-----EST-----			
CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0 35.540	53.704	3.369	53.201	0.503	3.100	0.269	52.963	0.741	3.041	0.328	
0 40.380	62.154	7.164	63.922	-1.768	7.924	-0.760	64.346	-2.192	8.141	-0.977	
0 47.220	74.739	13.918	73.722	1.017	13.303	0.615	73.719	1.020	13.284	0.634	
0 52.060	82.381	18.882	82.218	0.163	18.815	0.067	81.988	0.393	18.652	0.230	
0 56.900	89.649	24.330	89.757	-0.108	24.464	-0.134	89.571	0.078	24.334	-0.004	
0 61.740	96.630	30.262	96.719	-0.089	30.378	-0.116	96.688	-0.058	30.380	-0.118	
0 66.580	103.386	36.678	103.377	0.009	36.701	-0.023	103.470	-0.084	36.821	-0.143	
0 71.599	109.972	43.592	109.885	0.087	43.534	0.058	109.999	-0.027	43.675	-0.083	
0 76.000	116.395	50.977	116.297	0.098	50.907	0.070	116.330	0.065	50.954	0.023	
0 79.784	122.632	58.772	122.590	0.042	58.772	0.000	122.503	0.129	58.669	0.103	
0 82.951	128.664	66.914	128.677	-0.013	66.986	-0.072	128.544	0.120	66.824	0.090	
0 85.500	134.477	75.341	134.422	0.055	75.314	0.027	134.477	0.000	75.426	-0.085	

1600
 1700
 1800
 1900
 2000

LITHIUM CHLORIDE

(C)

CL 1LI 1

662

MOL. WT. = 42.390 BLOCK = 1025 NO. POINT = 22

DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -97.578 KEY = 190

FITS FOR NOTS RMS = 0.000571

1 17 1 71 0 0 0 0 0 0 0 LITHIUM CHLORIDE (C) 30J 662 190
+1.0258262E+1+5.2968196E+0-2.4166917E-1+5.2994564E-2 400 2000 31J 662 190
-2.5817871E-2-1.0095838E+2+2.4868759E+1-9.7577987E+1CLLI (C) 32J 662 190

FITS FOR EST RMS LOW = 0.000516 RMS HIGH = 0.000516

1 17 1 71 0 0 0 0 0 0 0 LITHIUM CHLORIDE (C) 30CLLI\$
-975779+5+500761+5+104618+2+492474-2-467200+5+513973+2 4002000J 66231CLLI\$
-975779+5+500761+5+104618+2+492474-2-467200+5+513973+2 4002000J 66232CLLI\$

	-----NOTS-----								-----EST-----					
H	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		
.328	400	12.182	17.652	1.207	17.650	0.002	1.206	0.001	17.657	-0.005	1.209	-0.002		
.977	500	12.749	20.432	2.454	20.430	0.002	2.453	0.001	20.431	0.001	2.454	0.000		
.634	600	13.287	22.804	3.756	22.803	0.001	3.755	0.001	22.803	0.001	3.755	0.001		
.230	700	13.810	24.892	5.111	24.891	0.001	5.111	0.000	24.891	0.001	5.110	0.001		
.004	800	14.325	26.769	6.518	26.769	-0.000	6.518	0.000	26.769	0.000	6.518	0.000		
.118	900	14.833	28.486	7.976	28.486	-0.000	7.976	0.000	28.486	0.000	7.976	0.000		
.143	1000	15.337	30.075	9.485	30.075	-0.000	9.485	0.000	30.075	-0.000	9.485	0.000		
.083	1100	15.839	31.560	11.043	31.561	-0.001	11.044	-0.001	31.561	-0.001	11.044	-0.001		
.023	1200	16.338	32.960	12.652	32.961	-0.001	12.653	-0.001	32.960	-0.000	12.653	-0.001		
.103	1300	16.838	34.287	14.311	34.288	-0.001	14.312	-0.001	34.288	-0.001	14.311	-0.000		
.090	1400	17.336	35.553	16.020	35.554	-0.001	16.020	-0.000	35.554	-0.001	16.020	0.000		
.085	1500	17.831	36.766	17.778	36.767	-0.001	17.778	-0.000	36.766	-0.000	17.778	0.000		
	1600	18.323	37.933	19.586	37.933	-0.000	19.586	0.000	37.933	0.000	19.586	0.000		
	1700	18.817	39.059	21.443	39.059	0.000	21.443	0.000	39.059	0.000	21.443	0.000		
	1800	19.311	40.148	23.349	40.148	-0.000	23.349	0.000	40.148	-0.000	23.349	-0.000		
	1900	19.805	41.205	25.305	41.206	-0.001	25.305	0.000	41.205	-0.001	25.305	0.000		
	2000	20.298	42.234	27.310	42.234	-0.000	27.310	-0.000	42.234	0.000	27.310	-0.000		

662

$$\begin{array}{r} 1\ 17\ 1 \\ + 8.9304 \\ - 1.2500 \\ \hline \end{array}$$

(L) 20CLLI*

FITS
1 17 1
-467779
-467779

-----EST-----

T	K	C
400	8	
600	8	
800	8	
1000	8	
1200	9	
1400	9	
1600	9	
1800	9	
2000	9	
2200	9	
2400	9	
2600	9	
2800	9	
3000	9	
3000	9	
3200	9	
3400	9	
3600	9	
3800	9	
4000	9	
4200	9	
4400	9	
4600	9	
4800	9	
5000	9	
5200	9	
5400	9	
5600	9	
5800	9	
6000	9	

LITHIUM OXYCHLORIDE (G) CL 1LI 10 1 1260
 MOL. WT. = 58.390 BLOCK = 1036 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MCLE)) = -3.400 KEY = 193
 FTS FOR NOTS RMS = 0.003738
 8 1 17 1 71 0 0 0 0 0 LITHIUM OXYCHLORIDE (G) 10J1260 193
 3694013E+1+1.3748741E-1-3.1120050E-2+2.3832414E-3 400 6000 11J1260 193
 0776672E-1-9.0249233E+0+7.5424179E+1-3.3999996E+0CLLIO (G) 12J1260 193

LITH
 MOI
 DATA
 FITS
 4 8
 +2.1506
 -3.3634

FTS FOR EST RMS LOW = 0.004941 RMS HIGH = 0.004249
 8 1 17 1 71 0 0 0 0 0 LITHIUM OXYCHLORIDE (G) 10CLLIO
 9999+4+360150+5+137780+2+423071-4-522864+6+907909+2 4003000J126011CLLIO
 9999+4+360160+5+139931+2-119792-4-123446+7+907909+230006000J126012CLLIO

FITS
 4 8
 -910000
 -910000

T	-----NOTS-----								-----EST-----				T
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		
06	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
02	11.240	64.425	1.098	64.516	-0.091	1.132	-0.034	64.525	-0.100	1.138	-0.040	400	
01	12.387	69.227	3.474	69.211	0.016	3.460	0.014	69.212	0.015	3.462	0.012	500	
01	12.960	72.878	6.015	72.866	0.012	6.004	0.011	72.866	0.012	6.006	0.009	600	
00	13.270	75.806	8.641	75.801	0.005	8.636	0.005	75.802	0.004	8.638	0.003	700	
00	13.453	78.243	11.315	78.241	0.002	11.313	0.002	78.243	0.000	11.316	-0.001	800	
00	13.568	80.326	14.018	80.326	0.000	14.018	0.000	80.327	-0.001	14.021	-0.003	900	
00	13.645	82.143	16.740	82.143	0.000	16.740	-0.000	82.144	-0.001	16.742	-0.002	1000	
00	13.699	83.754	19.474	83.753	0.001	19.475	-0.001	83.754	0.000	19.476	-0.002	1100	
00	13.738	85.199	22.218	85.199	0.000	22.218	-0.000	85.198	0.001	22.218	-0.000	1200	
00	13.768	86.510	24.969	86.509	0.001	24.969	0.000	86.509	0.001	24.968	0.001	1300	
00	13.790	87.709	27.725	87.708	0.001	27.725	0.000	87.707	0.002	27.723	0.002	1400	
00	13.808	88.814	30.465	88.813	0.001	30.464	0.001	88.812	0.002	30.463	0.002	1500	
00	13.822	89.837	33.248	89.837	0.000	33.247	0.001	89.836	0.001	33.247	0.001		
02	13.833	90.791	36.013	90.791	0.000	36.013	-0.000	90.791	0.000	36.015	-0.002		
01	13.833	90.791	36.013	90.791	0.000	36.013	-0.000	90.791	0.000	36.016	-0.003		
01	13.842	91.685	38.781	91.684	0.001	38.781	-0.000	91.683	0.002	38.781	-0.000		
01	13.850	92.524	41.550	92.523	0.001	41.551	-0.001	92.522	0.002	41.550	0.000		
01	13.857	93.316	44.321	93.315	0.001	44.322	-0.001	93.314	0.002	44.320	0.001		
00	13.862	94.065	47.093	94.065	0.000	47.094	-0.001	94.063	0.002	47.091	0.002		
01	13.867	94.776	49.866	94.776	0.000	49.867	-0.001	94.775	0.001	49.864	0.002		
01	13.871	95.453	52.640	95.452	0.001	52.640	-0.000	95.451	0.002	52.638	0.002		
00	13.874	96.098	55.414	96.098	0.000	55.415	-0.001	96.097	0.001	55.413	0.001		
01	13.878	96.715	58.189	96.714	0.001	58.190	-0.001	96.714	0.001	58.189	-0.000		
01	13.880	97.306	60.965	97.305	0.001	60.965	0.000	97.304	0.002	60.965	-0.000		
01	13.883	97.872	63.741	97.872	0.000	63.741	0.000	97.871	0.001	63.742	-0.001		
01	13.885	98.417	66.518	98.416	0.001	66.517	0.001	98.416	0.001	66.519	-0.001		
00	13.887	98.941	69.295	98.940	0.001	69.294	0.001	98.940	0.001	69.296	-0.001		
00	13.888	99.446	72.073	99.445	0.001	72.072	0.001	99.445	0.001	72.073	-0.000		
00	13.890	99.934	74.851	99.933	0.001	74.851	0.000	99.932	0.002	74.851	0.000		
00	13.891	100.404	77.629	100.404	0.000	77.630	-0.001	100.403	0.001	77.628	0.001		

[illegible]

LITHIUM PERCHLORATE (L) CL 1LI 10 4 364 MAGNE
 MOL. WT.= 106.390 BLCK= 1044 NO. POINT = 14 MOL.
 DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -85.684 KEY = 195 DATA FI
 TS FOR NOTS RMS = 0.000222 FITS FO
 8 1 17 1 71 0 0 0 0 0 LITHIUM PERCHLORATE (L) 20J 364 195 1 12 1
 149963E+1+8.7618005E-1-7.7723318E-1+2.3262083E-1 400 1500 21J 364 195 +8.93874
 936157E-2-9.7030792E+1+8.5280822E+1-8.5683990E+1CLLI04 (L) 22J 364 195 -7.023620

TS FOR EST RMS LOW = 0.000177 RMS HIGH = 0.000177 FITS FO
 8 1 17 1 71 0 0 0 0 0 LITHIUM PERCHLORATE (L) 20CLLI04* 1 12 1
 839+5+104008+6+385146+2-968715-5-382400+4+128128+3 4001500J 36421CLLI04* -103999+
 839+5+104008+6+385146+2-968715-5-382400+4+128128+3 4001500J 36422CLLI04* -103999+

-----NOTS-----												-----EST-----	
CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T		
C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M	
38.500	50.559	3.921	50.558	0.001	3.921	0.000	50.562	-0.003	3.922	-0.001	400	8.5	
38.500	59.150	7.771	59.150	-0.000	7.771	-0.000	59.151	-0.001	7.771	-0.000	600	8.6	
38.500	66.169	11.621	66.169	-0.000	11.621	0.000	66.170	-0.001	11.621	0.000	800	8.6	
38.500	72.104	15.471	72.104	0.000	15.471	0.000	72.104	-0.000	15.471	0.000	1000	8.9	
38.500	77.245	19.321	77.245	-0.000	19.321	0.000	77.245	-0.000	19.321	0.000	1200	9.0	
38.500	81.780	23.171	81.780	0.000	23.171	-0.000	81.780	-0.000	23.171	0.000	1400	9.0	
38.500	85.836	27.021	85.836	-0.000	27.021	-0.000	85.837	-0.001	27.021	0.000	1600	9.0	
38.500	89.506	30.871	89.506	0.000	30.871	-0.000	89.506	-0.000	30.871	0.000	1800	9.1	
38.500	92.855	34.721	92.856	-0.001	34.721	-0.000	92.856	-0.001	34.721	-0.000	2000	9.1	
38.500	95.937	38.571	95.937	0.000	38.571	0.000	95.938	-0.001	38.571	-0.000	2200	9.1	
38.500	98.790	42.421	98.790	-0.000	42.421	0.000	98.791	-0.001	42.421	0.000	2400	9.2	
38.500	101.447	46.271	101.447	0.000	46.271	-0.000	101.447	0.000	46.271	0.000	2600	9.2	
											2800	9.2	
											3000	9.2	
											3200	9.2	
											3400	9.3	
											3600	9.3	
											3800	9.3	
											4000	9.3	
											4200	9.4	
											4400	9.4	
											4600	9.4	
											4800	9.4	
											5000	9.5	
											5200	9.5	
											5400	9.5	
											5600	9.5	
											5800	9.5	
											6000	9.6	

MAGNESIUM MONOCHLORIDE (G) CL 1MG 1 0 0 0 0 366
 MOL. WT.= 59.760 BLOCK= 1045 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -10."00 KEY = 196
 FITS FOR NOTS RMS = 0.001521
 1 12 1 17 0 0 0 0 0 0 MAGNESIUM MONOCHLORIDE (G) 10J 366 196
 +8.9387407E+0+1.1817359E-1-2.0454099E-3+2.1519110E-4 400 6000 11J 366 196
 -7.0236206E-2-1.3296514E+1+6.6177383E+1-1.0399999E+1CLMG (G) 12J 366 196

FITS FOR EST RMS LOW = 0.000515 RMS HIGH = 0.002912
 1 12 1 17 0 0 0 0 0 0 MAGNESIUM MONOCHLORIDE (G) 10CLMG
 -103999+5+244602+5+894026+1+113360-3-695200+5+763489+2 4003000J 36611CLMG
 -103999+5+244622+5+899697+1+104733-3-424272+6+763489+230006000J 36612CLMG

-----NOTS-----												
-----EST-----												
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
11	400	8.587	58.247	0.863	58.253	-0.007	0.864	-0.001	58.254	-0.007	0.865	-0.002
10	600	8.819	61.780	2.607	61.779	0.001	2.605	0.002	61.781	-0.001	2.607	0.000
10	800	8.922	64.333	4.382	64.332	0.001	4.380	0.002	64.333	-0.000	4.382	0.000
10	1000	8.983	66.331	6.173	66.330	0.001	6.171	0.002	66.331	-0.000	6.173	0.000
10	1200	9.027	67.973	7.974	67.972	0.001	7.973	0.001	67.973	-0.000	7.974	-0.000
10	1400	9.063	69.367	9.783	69.367	0.000	9.782	0.001	69.368	-0.001	9.783	-0.000
10	1600	9.094	70.580	11.599	70.579	0.001	11.598	0.001	70.580	-0.000	11.599	-0.000
10	1800	9.123	71.652	13.421	71.652	-0.000	13.420	0.001	71.653	-0.001	13.421	0.000
10	2000	9.150	72.615	15.248	72.615	0.000	15.248	0.000	72.615	-0.000	15.248	-0.000
10	2200	9.175	73.488	17.081	73.488	-0.000	17.081	0.000	73.489	-0.001	17.081	0.000
10	2400	9.200	74.288	18.918	74.288	0.000	18.918	-0.000	74.288	-0.000	18.918	-0.000
10	2600	9.225	75.025	20.761	75.025	-0.000	20.761	-0.000	75.026	-0.001	20.761	0.000
	2800	9.249	75.710	22.608	75.710	0.000	22.609	-0.001	75.710	-0.000	22.608	-0.000
	3000	9.272	76.349	24.460	76.349	0.000	24.461	-0.001	76.349	0.000	24.460	-0.000
	3000	9.272	76.349	24.460	76.349	0.000	24.461	-0.001	76.349	0.000	24.462	-0.002
	3200	9.296	76.948	26.317	76.948	0.000	26.318	-0.001	76.948	0.000	26.318	-0.001
	3400	9.319	77.512	28.179	77.512	-0.000	28.179	-0.000	77.512	0.000	28.178	0.001
	3600	9.343	78.045	30.045	78.046	-0.001	30.045	-0.000	78.045	0.000	30.044	0.001
	3800	9.366	78.551	31.916	78.551	-0.000	31.916	-0.000	78.551	0.000	31.915	0.001
	4000	9.389	79.032	33.791	79.032	-0.000	33.792	-0.001	79.032	0.000	33.790	0.001
	4200	9.412	79.491	35.671	79.491	0.000	35.671	-0.000	79.490	0.001	35.671	0.000
	4400	9.435	79.929	37.556	79.929	-0.000	37.556	0.000	79.929	0.000	37.555	0.001
	4600	9.457	80.349	39.445	80.349	0.000	39.445	0.000	80.349	0.000	39.445	0.000
	4800	9.480	80.752	41.339	80.752	0.000	41.339	0.000	80.752	0.000	41.339	0.000
	5000	9.503	81.139	43.237	81.139	-0.000	43.237	0.000	81.139	-0.000	43.237	-0.000
	5200	9.526	81.513	45.140	81.513	0.000	45.140	0.000	81.512	0.001	45.140	-0.000
	5400	9.549	81.872	47.047	81.872	-0.000	47.047	-0.000	81.872	-0.000	47.048	-0.001
	5600	9.571	82.220	48.959	82.220	-0.000	48.959	-0.000	82.220	0.000	48.960	-0.001
	5800	9.594	82.556	50.876	82.556	-0.000	50.876	0.000	82.556	-0.000	50.876	0.000
	6000	9.617	82.882	52.797	82.882	-0.000	52.797	-0.000	82.882	0.000	52.796	0.001

NITROSYL CHLORIDE (G) CL 1N 10 1 1265
 MOL. WT.= 65.450 BLOCK= 1052 NO. POINT = 62
 DATA FROM 0 TO 600C K HFORM(KCAL/(MOLE)) = 12.370 KEY = 197
 FITS FOR NOTS RMS = C.008331
 1 7 1 8 1 17 0 0 0 0 0 NITROSYL CHLORIDE (G) 10J1265 197
 +1.3168069E+1+8.1337380E-1-9.6785604E-2+7.1066841E-3 400 6000 11J1265 197
 -5.5517578E-1+6.8544816E+0+7.5975204E+1+1.2369999E+1CLNO (G) 12J1265 197

SODIU
 MOL.
 DATA F
 FITS F
 1 11 1
 +3.07930
 -9.55365

FITS FOR EST RMS LOW = 0.013069 RMS HIGH = 0.004883
 1 7 1 8 1 17 0 0 0 0 0 NITROSYL CHLORIDE (G) 10CLNO
 +123699+5+371139+5+134493+2+508885-3-609536+6+925439+2 4003000J126511CLNO
 +123699+5+371114+5+140065+2+351173-3-189158+7+925439+230006000J126512CLNO

FITS F
 1 11 1
 -982599+
 -982599+

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T			
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/		
400	11.311	65.757	1.121	65.962	-0.205	1.203	-0.082	65.993	-0.236	1.217	-0.096	400	12.		
600	12.196	70.521	3.477	70.491	0.030	3.450	0.027	70.489	0.032	3.450	0.027	500	12.		
800	12.827	74.120	5.982	74.092	0.028	5.957	0.025	74.090	0.030	5.957	0.025	600	13.		
1000	13.273	77.033	8.595	77.020	0.013	8.584	0.011	77.021	0.012	8.586	0.009	700	13.		
1200	13.597	79.483	11.283	79.479	0.004	11.282	0.001	79.482	0.001	11.286	-0.003	800	14.		
1400	13.841	81.598	14.028	81.598	0.000	14.032	-0.004	81.601	-0.003	14.036	-0.008	900	14.		
1600	14.035	83.459	16.816	83.460	-0.001	16.821	-0.005	83.462	-0.003	16.824	-0.008	1000	15.		
1800	14.195	85.122	19.640	85.122	0.000	19.644	-0.004	85.123	-0.001	19.645	-0.005	1100	16.		
2000	14.335	86.625	22.493	86.624	0.001	22.495	-0.002	86.624	0.001	22.494	-0.001	1200	17.		
2200	14.458	87.997	25.372	87.995	0.002	25.373	-0.001	87.995	0.002	25.370	0.002	1300	17.		
2400	14.570	89.260	28.275	89.258	0.002	28.275	0.000	89.257	0.003	28.271	0.004	1400	18.		
2600	14.675	90.430	31.200	90.428	0.002	31.198	0.002	90.427	0.003	31.196	0.004	1500	18.		
2800	14.771	91.521	34.144	91.519	0.002	34.143	0.001	91.519	0.002	34.143	0.001				
3000	14.866	92.544	37.108	92.541	0.003	37.107	0.001	92.544	0.000	37.114	-0.006				
3000	14.866	92.544	37.108	92.541	0.003	37.107	0.001	92.544	0.000	37.111	-0.003				
3200	14.957	93.506	40.090	93.504	0.002	40.089	0.001	93.505	0.001	40.091	-0.001				
3400	15.044	94.415	43.050	94.413	0.002	43.090	0.000	94.414	0.001	43.089	0.001				
3600	15.126	95.277	46.107	95.275	0.001	46.108	-0.001	95.276	0.001	46.106	0.001				
3800	15.210	96.098	49.141	96.096	0.002	49.142	-0.001	96.096	0.002	49.139	0.002				
4000	15.292	96.880	52.191	96.878	0.002	52.193	-0.002	96.879	0.001	52.190	0.001				
4200	15.371	97.628	55.257	97.626	0.002	55.259	-0.002	97.627	0.001	55.256	0.001				
4400	15.454	98.345	58.340	98.343	0.002	58.341	-0.001	98.344	0.001	58.339	0.001				
4600	15.530	99.033	61.438	99.032	0.001	61.439	-0.001	99.032	0.001	61.438	0.000				
4800	15.608	99.696	64.552	99.694	0.002	64.552	-0.000	99.695	0.001	64.552	-0.000				
5000	15.688	100.335	67.681	100.333	0.002	67.681	0.000	100.334	0.001	67.682	-0.001				
5200	15.766	100.952	70.826	100.949	0.003	70.825	0.001	100.951	0.001	70.827	-0.001				
5400	15.838	101.548	73.986	101.545	0.003	73.984	0.002	101.547	0.001	73.987	-0.001				
5600	15.911	102.125	77.161	102.123	0.002	77.160	0.001	102.124	0.001	77.162	-0.001				
5800	16.002	102.685	80.352	102.683	0.002	80.352	0.000	102.684	0.001	80.352	0.000				
6000	16.066	103.228	83.558	103.227	0.001	83.560	-0.002	103.227	0.001	83.557	0.001				

964

1 11 1 17 0 0 0 0 0 0 0 SODIUM CHLORIDE	(C)	30J	964	198
+3.0793029E+1-4.8808074E+1+4.8601226E+1-1.4098846E+1 400 1500		31J	964	198
-9.5536518E-1-1.0875260E+2+6.2020874E+1-9.8259994E+1CLNA (C)		32J	964	198

1 11 1 17 0 0 0 0 0 0 0 SODIUM CHLORIDE (C) 30CLN\$
 -982599+5+561905+5+717506+1+800714-2+411882+6+573747+2 4001500J 96431CLN\$
 -982599+5+561905+5+717506+1+800714-2+411882+6+573747+2 4001500J 96432CLN\$

[illegible]

SODI
MOL
DATA
FITS
1 11 1
+8.9524
-4.8355

FITS :
1 11 1
-433599.
-433599.

[illegible]

SODIUM CHLORIDE

(G) CL 1NA 1

1264

MOL. WT.= 58.440

BLOCK= 1062

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -43.360 KEY = 200

FITS FOR NOTS RMS = 0.001628

1 11 1 17 0 0 0 0 0 0 0 SODIUM CHLORIDE (G) 10J1264 200
+8.9524574E+0+1.6083252E-1+6.1466824E-4-1.0759555E-5 400 6000 11J1264 200
-4.8355102E-2-4.6191589E+1+6.5434555E+1-4.3359985E+1CLNA (G) 12J1264 200

FITS FOR EST RMS ICW = 0.000483 RMS HIGH = 0.003107

1 11 1 17 0 0 0 0 0 0 0 SODIUM CHLORIDE (G) 10CLNA
-433599+5+247703+5+894354+1+165323-3-449920+5+757569+2 4003000J126411CLNA
-433599+5+247728+5+901474+1+155048-3-504704+6+757569+230006000J126412CLNA

-----NOTS-----														-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH					
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M					
8 0.235	400	8.749	57.441	0.882	57.447	-0.006	0.883	-0.001	57.445	-0.004	0.884	-0.002					
7 0.176	600	8.921	61.026	2.652	61.025	0.001	2.649	0.003	61.026	-0.000	2.652	0.000					
9 0.022	800	9.006	63.605	4.445	63.604	0.001	4.442	0.003	63.605	0.000	4.445	0.000					
3 -0.166	1000	9.064	65.622	6.252	65.620	0.002	6.250	0.002	65.621	0.001	6.252	0.000					
9 -0.351	1200	9.110	67.278	8.070	67.277	0.001	8.068	0.002	67.278	0.000	8.070	0.000					
0 -0.143	1400	9.152	68.686	9.896	68.685	0.001	9.895	0.001	68.685	0.001	9.896	0.000					
16 0.004	1600	9.190	69.910	11.730	69.910	0.000	11.729	0.001	69.910	0.000	11.730	-0.000					
2 0.081	1800	9.227	70.995	13.572	70.995	0.000	13.571	0.001	70.994	0.001	13.572	0.000					
1 0.104	2000	9.263	71.969	15.421	71.969	0.000	15.421	0.000	71.968	0.001	15.421	0.000					
2 0.095	2200	9.298	72.853	17.277	72.853	-0.000	17.277	-0.000	72.853	0.000	17.277	-0.000					
3 0.071	2400	9.332	73.664	19.140	73.664	-0.000	19.140	-0.000	73.663	0.000	19.140	-0.000					
2 0.043	2600	9.367	74.412	21.010	74.412	-0.000	21.010	-0.000	74.412	0.000	21.010	-0.000					
17 0.018	2800	9.401	75.108	22.887	75.108	0.000	22.887	-0.000	75.107	0.001	22.887	0.000					
8 -0.003	3000	9.435	75.757	24.770	75.758	-0.001	24.771	-0.001	75.757	0.000	24.770	-0.000					
14 -0.019	3000	9.435	75.757	24.770	75.758	-0.001	24.771	-0.001	75.757	0.000	24.773	-0.003					
5 -0.030	3200	9.468	76.367	26.661	76.368	-0.001	26.661	-0.000	76.366	0.001	26.661	-0.000					
0 -0.035	3400	9.502	76.942	28.558	76.943	-0.001	28.558	-0.000	76.941	0.001	28.557	0.001					
9 -0.034	3600	9.536	77.486	30.461	77.487	-0.001	30.462	-0.001	77.485	0.001	30.461	0.000					
11 -0.026	3800	9.569	78.003	32.372	78.003	-0.000	32.372	-0.000	78.001	0.002	32.371	0.001					
17 -0.012	4000	9.602	78.495	34.289	78.495	0.000	34.289	-0.000	78.493	0.002	34.288	0.001					
15 0.010	4200	9.636	78.964	36.213	78.964	-0.000	36.213	-0.000	78.963	0.001	36.212	0.001					
17 0.038	4400	9.669	79.413	38.143	79.413	-0.000	38.143	-0.000	79.412	0.001	38.143	-0.000					
	4600	9.703	79.843	40.081	79.844	-0.001	40.081	0.000	79.842	0.001	40.081	0.000					
	4800	9.736	80.257	42.024	80.257	-0.000	42.024	-0.000	80.256	0.001	42.025	-0.001					
	5000	9.769	80.655	43.975	80.655	-0.000	43.975	0.000	80.654	0.001	43.975	-0.000					
	5200	9.802	81.039	45.932	81.039	-0.000	45.932	0.000	81.038	0.001	45.933	-0.001					
	5400	9.836	81.410	47.896	81.410	0.000	47.895	0.001	81.408	0.002	47.896	-0.000					
	5600	9.869	81.768	49.866	81.768	0.000	49.866	0.000	81.767	0.001	49.866	-0.000					
	5800	9.902	82.115	51.843	82.115	0.000	51.843	-0.000	82.113	0.001	51.843	-0.000					
	6000	9.935	82.451	53.827	82.451	-0.000	53.827	0.000	82.450	0.001	53.826	0.001					

CHLORINE MONOXIDE (G) CL 10 1
 MOL. WT.= 51.450 BLOCK= 1069 NO. POINT = 62
 ATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 24.192 KEY = 201
 FITS FOR NOTS RMS = 0.001958
 8 1 17 0 0 0 0 0 0 0 CHLORINE MONOXIDE (G) 10J 661 201
 .8825454E+0+1.4911782E-1-9.1155841E-3+7.262702E-4 400 6000 11J 661 201
 .9839477E-1+2.093206E+1+6.3911117E+1+2.4191986E+1CLO(G) 12J 661 201

661

CHLORINE DIOX
 MOL. WT.=
 DATA FROM 0
 FITS FOR NOTS
 2 8 1 17 0 0
 +1.3654690E+1+3.
 -5.7723999E-1+1.

FITS FOR EST RMS LOW = 0.001769 RMS HIGH = 0.003104
 8 1 17 0 0 0 0 0 0 0 CHLORINE MONOXIDE (G) 10CLO
 41919+5+240577+5+890338+1+122685-3-201488+6+740939+2 4003000J 66111CLO
 41919+5+240591+5+900249+1+101568-3-645008+6+740939+230006000J 66112CLO

FITS FOR EST
 2 8 1 17 0 0
 +250000+5+365804
 +250000+5+365805

-----NOTS-----												-----EST-----											
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	CP	S									
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K	C/M-K									
20	7.942	56.419	0.789	56.451	-0.032	0.801	-0.012	56.454	-0.035	0.803	-0.014	400	11.011	64.									
40	8.429	59.743	2.432	59.737	0.006	2.426	0.006	59.739	0.004	2.428	0.004	600	12.279	69.									
60	8.676	62.205	4.145	62.201	0.004	4.140	0.005	62.202	0.003	4.142	0.003	800	12.957	72.									
80	8.816	64.158	5.895	64.155	0.003	5.893	0.002	64.157	0.001	5.895	0.000	1000	13.346	75.									
100	8.906	65.773	7.668	65.772	0.001	7.667	0.001	65.774	-0.001	7.669	-0.001	1200	13.590	78.									
120	8.971	67.151	9.456	67.151	0.000	9.456	0.000	67.152	-0.001	9.457	-0.001	1400	13.758	80.									
140	9.022	68.353	11.256	68.353	0.000	11.256	0.000	68.354	-0.001	11.257	-0.001	1600	13.882	82.									
160	9.064	69.418	13.065	69.418	0.000	13.065	0.000	69.419	-0.001	13.065	-0.000	1800	13.979	83.									
180	9.100	70.375	14.881	70.375	0.000	14.881	-0.000	70.375	-0.000	14.881	-0.000	2000	14.059	85.									
200	9.133	71.244	16.704	71.244	0.000	16.705	-0.001	71.244	-0.000	16.704	-0.000	2200	14.128	86.									
240	9.163	72.040	18.534	72.040	0.000	18.534	-0.000	72.040	0.000	18.534	0.000	2400	14.189	87.									
260	9.192	72.774	20.370	72.774	-0.000	20.370	0.000	72.775	-0.001	20.369	0.001	2600	14.244	89.									
280	9.219	73.457	22.211	73.457	0.000	22.211	0.000	73.457	0.000	22.211	0.000	2800	14.295	90.									
300	9.245	74.094	24.057	74.093	0.001	24.057	-0.000	74.094	0.000	24.058	-0.001	3000	14.344	91.									
320	9.245	74.094	24.057	74.093	0.001	24.057	-0.000	74.094	0.000	24.059	-0.002	3000	14.344	91.									
340	9.271	74.691	25.909	74.691	0.000	25.909	-0.000	74.691	0.000	25.909	-0.000	3200	14.389	92.									
360	9.295	75.254	27.765	75.254	0.000	27.766	-0.001	75.253	0.001	27.765	0.000	3400	14.433	92.									
380	9.320	75.786	29.627	75.786	0.000	29.627	-0.000	75.785	0.001	29.626	0.001	3600	14.475	93.									
400	9.344	76.290	31.493	76.290	-0.000	31.494	-0.001	76.290	0.000	31.492	0.001	3800	14.517	94.									
420	9.368	76.770	33.364	76.770	-0.000	33.365	-0.001	76.770	0.000	33.363	0.001	4000	14.557	95.									
440	9.391	77.228	35.240	77.228	0.000	35.241	-0.001	77.227	0.001	35.240	0.000	4200	14.600	96.									
460	9.415	77.665	37.121	77.665	-0.000	37.121	0.000	77.665	0.000	37.120	0.001	4400	14.636	96.									
480	9.438	78.084	39.006	78.084	-0.000	39.006	-0.000	78.084	0.000	39.006	0.000	4600	14.674	97.									
500	9.461	78.486	40.896	78.486	-0.000	40.896	0.000	78.486	-0.000	40.896	-0.000	4800	14.712	97.									
520	9.484	78.873	42.790	78.873	0.000	42.790	-0.000	78.873	0.000	42.791	-0.001	5000	14.750	98.									
540	9.506	79.245	44.689	79.245	-0.000	44.689	0.000	79.245	-0.000	44.690	-0.001	5200	14.787	99.									
560	9.529	79.605	46.593	79.604	0.001	46.593	0.000	79.605	0.000	46.593	-0.000	5400	14.824	99.									
580	9.552	79.952	48.501	79.951	0.001	48.501	0.000	79.951	0.001	48.501	-0.000	5600	14.861	100.									
600	9.574	80.287	50.414	80.287	-0.000	50.414	0.000	80.287	0.000	50.414	0.000	5800	14.898	100.									
620	9.597	80.612	52.331	80.612	-0.000	52.331	-0.000	80.612	0.000	52.330	0.001	6000	14.934	101.									

CHLORINE DIOXIDE

(G) CL 10 2

361

MOL. WT. = 67.450 BLOCK = 1075 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 25.000 KEY = 202

FITS FOR NOTS RMS = 0.004503

2 8 1 17 0 0 0 0 0 0 0 CHLORINE DIOXIDE (G) 10J 361 202
 +1.3654690E+1+3.3194839E-1-3.4610264E-2+2.5769136E-3 400 6000 11J 361 202
 -5.7723999E-1+1.9186660E+1+7.5235977E+1+2.5000000E+1CLO2 (G) 12J 361 202

FITS FOR EST RMS LOW = 0.006107 RMS HIGH = 0.004566

2 8 1 17 0 0 0 0 0 0 0 CHLORINE DIOXIDE (G) 10CLO2
 +250000+5+365804+5+137463+2+226650-3-593168+6+911339+2 4003000J 36111CLO2
 +250000+5+365809+5+140210+2+158143-3-151244+7+911339+23C006000J 36112CLO2

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.014	400	11.011	64.544	1.074	64.658	-0.114	1.117	-0.043	64.668	-0.124	1.123	-0.049	
0.004	600	12.279	69.275	3.416	69.256	0.019	3.399	0.017	69.257	0.018	3.401	0.015	
0.003	800	12.957	72.910	5.946	72.895	0.015	5.933	0.013	72.896	0.014	5.935	0.011	
0.000	1000	13.346	75.847	8.580	75.840	0.007	8.574	0.006	75.842	0.005	8.576	0.004	
0.001	1200	13.590	78.303	11.275	78.301	0.002	11.274	0.001	78.303	-0.000	11.277	-0.002	
0.001	1400	13.758	80.411	14.011	80.411	0.000	14.012	-0.001	80.413	-0.002	14.014	-0.003	
0.001	1600	13.882	82.257	16.775	82.257	0.000	16.777	-0.002	82.258	-0.001	16.779	-0.004	
0.000	1800	13.979	83.898	19.562	83.898	0.000	19.563	-0.001	83.899	-0.001	19.564	-0.002	
0.000	2000	14.059	85.375	22.366	85.374	0.001	22.367	-0.001	85.375	0.000	22.366	-0.000	
0.000	2200	14.128	86.718	25.185	86.717	0.001	25.185	0.000	86.717	0.001	25.184	0.001	
0.000	2400	14.189	87.950	28.017	87.949	0.001	28.016	0.001	87.949	0.001	28.015	0.002	
0.001	2600	14.244	89.088	30.860	89.087	0.001	30.859	0.000	89.087	0.001	30.858	0.002	
0.000	2800	14.295	90.146	33.714	90.145	0.001	33.713	0.001	90.145	0.001	33.714	0.000	
0.001	3000	14.344	91.134	36.578	91.133	0.001	36.578	0.000	91.134	0.000	36.580	-0.002	
0.002	3000	14.344	91.134	36.578	91.133	0.001	36.578	0.000	91.134	0.000	36.581	-0.003	
0.000	3200	14.389	92.061	39.451	92.060	0.001	39.451	-0.000	92.060	0.001	39.452	-0.001	
0.000	3400	14.433	92.934	42.333	92.934	0.000	42.334	-0.001	92.934	0.000	42.332	0.001	
0.001	3600	14.475	93.761	45.224	93.760	0.001	45.225	-0.001	93.760	0.001	45.223	0.001	
0.001	3800	14.517	94.544	48.123	94.544	0.000	48.124	-0.001	94.543	0.001	48.122	0.001	
0.001	4000	14.557	95.290	51.031	95.289	0.001	51.032	-0.001	95.289	0.001	51.029	0.002	
0.000	4200	14.600	96.001	53.946	96.001	0.000	53.947	-0.001	96.000	0.001	53.945	0.001	
0.001	4400	14.636	96.681	56.870	96.680	0.001	56.870	-0.000	96.680	0.001	56.869	0.001	
0.000	4600	14.674	97.333	59.801	97.332	0.001	59.801	-0.000	97.332	0.001	59.801	0.000	
0.000	4800	14.712	97.958	62.740	97.957	0.001	62.740	0.000	97.957	0.001	62.740	0.000	
0.001	5000	14.750	98.559	65.686	98.558	0.001	65.685	0.001	98.559	0.000	65.686	-0.000	
0.001	5200	14.787	99.139	68.639	99.137	0.001	68.639	0.000	99.138	0.001	68.640	-0.001	
0.000	5400	14.824	99.697	71.601	99.696	0.001	71.600	0.001	99.697	0.000	71.601	-0.000	
0.000	5600	14.861	100.237	74.569	100.236	0.001	74.568	0.001	100.236	0.001	74.569	-0.001	
0.000	5800	14.898	100.759	77.545	100.758	0.001	77.545	0.000	100.758	0.000	77.545	0.000	
0.001	6000	14.934	101.265	80.528	101.264	0.001	80.529	-0.001	101.264	0.001	80.527	0.001	

SILICON MONOCHLORIDE (G) CL 1SI 1 0 0 0 0 967
 MOL. WT. = 63.530 BLOCK = 1081 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = 45.700 KEY = 203
 ITS FOR NOTS RMS = 0.001701
 14 1 17 0 0 0 0 0 0 0 SILICON MONOCHLORIDE (G) 10J 967 203
 .9042310E+0+1.4900803E-1-2.3440930E-2+3.5183746E-3 400 6000 11J 967 203
 .4204711E-2+4.2896148E+1+6.7318725E+1+4.5699996E+1CLSI (G) 12J 967 203

ITS FOR EST RMS LOW = 0.000622 RMS HIGH = 0.005767
 14 1 17 0 0 0 0 0 0 0 SILICON MONOCHLORIDE (G) 10CLSI
 .6999+5+244537+5+893792+1+989276-4-480640+5+774759+2 4003000J 96711CLSI
 .6999+5+244526+5+832226+1+217031-3+246638+7+774759+230006000J 96712CLSI

C/M

	-----NOTS-----								-----EST-----				T
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	K	
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		
.049	8.711	59.352	0.880	59.356	-0.004	0.880	0.000	59.357	-0.005	0.882	-0.002	400	
.015	8.866	62.918	2.640	62.917	0.001	2.638	0.002	62.918	0.000	2.639	0.001	600	
.011	8.941	65.480	4.421	65.479	0.001	4.419	0.002	65.479	0.001	4.421	0.000	800	
.004	8.988	67.481	6.214	67.479	0.002	6.212	0.002	67.480	0.001	6.214	-0.000	1000	
.002	9.023	69.123	8.016	69.121	0.002	8.014	0.002	69.122	0.001	8.016	0.000	1200	
.002	9.052	70.516	9.823	70.515	0.001	9.822	0.001	70.515	0.001	9.823	-0.000	1400	
.000	9.077	71.726	11.636	71.726	0.000	11.635	0.001	71.726	0.000	11.636	-0.000	1600	
.001	9.101	72.797	13.454	72.796	0.001	13.453	0.001	72.796	0.001	13.454	-0.000	1800	
.002	9.124	73.757	15.277	73.757	0.000	15.276	0.001	73.756	0.001	15.277	0.000	2000	
.002	9.146	74.627	17.103	74.627	-0.000	17.104	-0.001	74.627	0.000	17.103	-0.000	2200	
.000	9.167	75.424	18.935	75.424	-0.000	18.935	-0.000	75.424	0.000	18.935	0.000	2400	
.002	9.188	76.159	20.770	76.159	0.000	20.771	-0.001	76.158	0.001	20.770	-0.000	2600	
.003	9.209	76.840	22.610	76.841	-0.001	22.610	-0.000	76.840	0.000	22.610	0.000	2800	
.001	9.230	77.476	24.454	77.477	-0.001	24.454	-0.000	77.476	0.000	24.454	0.000	3000	
.001	9.230	77.476	24.454	77.477	-0.001	24.454	-0.000	77.476	0.000	24.453	0.001	3000	
.001	9.252	78.073	26.302	78.073	-0.000	26.303	-0.001	78.073	-0.000	26.303	-0.001	3200	
.001	9.275	78.634	28.155	78.635	-0.001	28.155	-0.000	78.635	-0.001	28.156	-0.001	3400	
.002	9.298	79.165	30.012	79.165	-0.000	30.012	-0.000	79.165	-0.000	30.013	-0.001	3600	
.001	9.322	79.668	31.874	79.669	-0.001	31.874	-0.000	79.669	-0.001	31.874	0.000	3800	
.001	9.348	80.147	33.741	80.148	-0.001	33.741	-0.000	80.147	-0.000	33.740	0.001	4000	
.000	9.375	80.604	35.613	80.604	-0.000	35.613	-0.000	80.604	0.000	35.612	0.001	4200	
.000	9.404	81.041	37.491	81.041	-0.000	37.491	-0.000	81.040	0.000	37.490	0.001	4400	
.000	9.435	81.459	39.375	81.460	-0.001	39.375	0.000	81.459	-0.000	39.374	0.001	4600	
.001	9.467	81.862	41.265	81.862	0.000	41.265	0.000	81.862	0.000	41.265	0.000	4800	
.000	9.502	82.249	43.162	82.249	-0.000	43.162	0.000	82.249	0.000	43.162	-0.000	5000	
.001	9.539	82.622	45.066	82.622	-0.000	45.066	0.000	82.622	-0.000	45.067	-0.001	5200	
.000	9.578	82.983	46.978	82.983	-0.000	46.977	0.001	82.983	-0.000	46.979	-0.001	5400	
.000	9.619	83.332	48.897	83.332	-0.000	48.897	0.000	83.332	-0.000	48.899	-0.002	5600	
.001	9.664	83.670	50.826	83.671	-0.001	50.825	0.001	83.670	-0.000	50.826	0.000	5800	
.001	9.710	83.999	52.763	83.999	0.000	52.763	-0.000	83.998	0.001	52.760	0.003	6000	

CHLORINE, DIATOMIC (R) CL 2 965
 MOL. WT. = 70.900 BLOCK = 1094 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFCORR(KCAL/(MOLE)) = 0.000 KEY = 205
 FITS FOR NOTS RMS = 0.012776
 17 0 0 0 0 0 0 0 0 CHLORINE, DIATOMIC (R) 10J 965 205
 .1582717E+0-2.4994826E-1+1.6138535E-1-1.7226040E-2 400 6000 11J 965 205
 .0408325E-2-3.0511779E+0+6.3874633E+1+0.0000000E+0CL2(R) 12J 965 205

DIC
 MC
 DATA
 FITS
 2 1
 +2.333
 -1.674

FITS FOR EST RMS LOW = 0.004675 RMS HIGH = 0.008115
 17 0 0 0 0 0 0 0 0 CHLORINE, DIATOMIC (R) 10CL2
 0000+0+244252+5+881852+1+175386-3-489760+5+737599+2 4003000J 96511CL2
 0000+0+244384+5+105370+2-814276-4-894643+7+737599+230006000J 96512CL2

FITS
 2 1
 -75000
 -75000

T/M	-----NOTS-----												-----EST-----	
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T		
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K		
037														
012	8.437	55.724	0.845	55.678	0.046	0.821	0.024	55.686	0.038	0.828	0.017	400	1	
012	8.741	59.212	2.567	59.200	0.012	2.561	0.006	59.211	0.001	2.568	-0.001	600	1	
003	8.878	61.747	4.331	61.750	-0.003	4.334	-0.003	61.754	-0.007	4.336	-0.005	800	2	
004	8.956	63.737	6.115	63.745	-0.008	6.122	-0.007	63.743	-0.006	6.119	-0.004	1000	2	
005	9.010	65.375	7.912	65.382	-0.007	7.918	-0.006	65.378	-0.003	7.913	-0.001	1200	2	
004	9.051	66.767	9.718	66.772	-0.005	9.721	-0.003	66.768	-0.001	9.717	0.001	1400	2	
001	9.086	67.978	11.532	67.980	-0.002	11.531	0.001	67.978	0.000	11.529	0.003	1600	2	
001	9.117	69.050	13.352	69.050	0.000	13.348	0.004	69.050	0.000	13.349	0.003	1800	2	
002	9.149	70.013	15.179	70.011	0.002	15.172	0.007	70.012	0.001	15.176	0.003	2000	2	
000	9.184	70.886	17.012	70.884	0.002	17.005	0.007	70.887	-0.001	17.012	0.000	2200	2	
001	9.223	71.687	18.852	71.686	0.001	18.847	0.005	71.688	-0.001	18.854	-0.002	2400	2	
001	9.268	72.427	20.701	72.427	0.000	20.699	0.002	72.429	-0.002	20.704	-0.003	2600	2	
001	9.319	73.116	22.560	73.117	-0.001	22.561	-0.001	73.117	-0.001	22.561	-0.001	2800	2	
001	9.374	73.760	24.429	73.762	-0.002	24.433	-0.004	73.760	0.000	24.425	0.004	3000	2	
001	9.374	73.760	24.429	73.762	-0.002	24.433	-0.004	73.760	0.000	24.438	-0.009	3000	2	
001	9.432	74.367	26.310	74.370	-0.003	26.315	-0.005	74.364	0.003	26.309	0.001	3200	2	
000	9.490	74.941	28.202	74.943	-0.003	28.208	-0.006	74.936	0.005	28.198	0.004	3400	2	
000	9.546	75.485	30.106	75.487	-0.002	30.111	-0.005	75.480	0.005	30.102	0.004	3600	2	
001	9.598	76.002	32.020	76.004	-0.002	32.023	-0.003	75.998	0.004	32.019	0.001	3800	2	
002	9.645	76.496	33.945	76.497	-0.001	33.945	-0.000	76.492	0.004	33.945	0.000	4000	2	
001	9.685	76.967	35.878	76.968	-0.001	35.876	0.002	76.964	0.003	35.879	-0.001	4200	2	
001	9.718	77.419	37.818	77.419	-0.000	37.815	0.003	77.416	0.003	37.820	-0.002	4400	2	
000	9.743	77.851	39.764	77.852	-0.001	39.760	0.004	77.848	0.003	39.765	-0.001	4600	2	
001	9.762	78.266	41.715	78.267	-0.001	41.711	0.004	78.263	0.003	41.715	-0.000	4800	2	
001	9.774	78.665	43.669	78.666	-0.001	43.667	0.002	78.662	0.003	43.668	0.001	5000	2	
001	9.783	79.049	45.624	79.050	-0.001	45.625	-0.001	79.045	0.004	45.624	0.000	5200	2	
001	9.790	79.418	47.582	79.420	-0.002	47.585	-0.003	79.414	0.004	47.581	0.001	5400	2	
000	9.794	79.774	49.540	79.776	-0.002	49.544	-0.004	79.771	0.003	49.540	0.000	5600	2	
002	9.797	80.118	51.499	80.119	-0.001	51.501	-0.002	80.114	0.004	51.499	-0.000	5800	2	
	9.798	80.450	53.459	80.450	-0.000	53.453	0.006	80.447	0.003	53.459	-0.000	6000	2	

DICHLOROSILANE

(G) CL 2H 2SI 1

1260

MOL. WT. = 101.000 BLOCK = 1100 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -75.000 KEY = 206

FITS FOR NOTS RMS = 0.025021

2 1 1 14 2 17 0 0 0 0 0 DICHLOROSILANE (G) 10J1260 206
 +2.3335357E+1+1.4767360E+0-3.1396508E-1+2.2761836E-2 400 6000 11J1260 206
 -1.6743164E+0-8.6756332E+1+8.9374496E+1-7.5000000E+1CL2H2SI (G) 12J1260 206

FITS FOR EST RMS LOW = 0.040207 RMS HIGH = 0.007784

2 1 1 14 2 17 0 0 0 0 0 DICHLOROSILANE (G) 10CL2H2SI
 -750000+5+631132+5+242603+2+483231-3-185356+7+118334+3 4003000J126011CL2H2SI
 -750000+5+631001+5+259839+2-224397-4-520366+7+118334+330006000J126012CL2H2SI

-----NOTS-----

-----EST-----

H	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
.017	400	17.078	73.191	1.632	73.791	-0.600	1.875	-0.243	73.886	-0.695	1.917	-0.285
.001	600	19.837	80.689	5.349	80.611	0.078	5.279	0.070	80.601	0.088	5.272	0.077
.005	800	21.531	86.645	9.498	86.560	0.085	9.426	0.072	86.551	0.094	9.420	0.078
.004	1000	22.655	91.578	13.924	91.539	0.039	13.893	0.031	91.540	0.038	13.895	0.029
.001	1200	23.420	95.781	18.536	95.770	0.011	18.536	0.000	95.776	0.005	18.545	-0.009
.001	1400	23.954	99.434	23.277	99.434	0.000	23.291	-0.014	99.442	-0.008	23.302	-0.025
.003	1600	24.336	102.658	28.108	102.661	-0.003	28.125	-0.018	102.667	-0.009	28.133	-0.025
.003	1800	24.617	105.542	33.004	105.543	-0.001	33.019	-0.015	105.545	-0.003	33.021	-0.017
.003	2000	24.827	108.147	37.950	108.145	0.002	37.959	-0.009	108.144	0.003	37.954	-0.004
.000	2200	24.989	110.521	42.932	110.516	0.005	42.935	-0.003	110.512	0.009	42.925	0.007
.002	2400	25.115	112.701	47.943	112.694	0.007	47.941	0.002	112.689	0.012	47.929	0.014
.003	2600	25.216	114.716	52.977	114.707	0.009	52.972	0.005	114.704	0.012	52.963	0.014
.001	2800	25.297	116.587	58.028	116.578	0.009	58.022	0.006	116.580	0.007	58.025	0.003
.004	3000	25.363	118.335	63.094	118.326	0.009	63.088	0.006	118.335	0.000	63.113	-0.019
.009	3000	25.363	118.335	63.094	118.326	0.009	63.088	0.006	118.335	0.000	63.100	-0.006
.001	3200	25.418	119.974	68.173	119.965	0.009	68.168	0.005	119.972	0.002	68.174	-0.001
.004	3400	25.464	121.516	73.261	121.508	0.007	73.259	0.002	121.514	0.002	73.260	0.001
.004	3600	25.503	122.973	78.358	122.966	0.007	78.358	-0.000	122.970	0.003	78.355	0.003
.001	3800	25.536	124.352	83.462	124.346	0.006	83.465	-0.003	124.350	0.002	83.459	0.003
.000	4000	25.565	125.663	88.572	125.657	0.006	88.576	-0.004	125.660	0.003	88.569	0.003
.001	4200	25.589	126.911	93.688	126.905	0.006	93.693	-0.005	126.908	0.003	93.685	0.003
.002	4400	25.610	128.102	98.808	128.096	0.006	98.812	-0.004	128.100	0.002	98.806	0.002
.001	4600	25.629	129.241	103.932	129.235	0.006	103.935	-0.003	129.239	0.002	103.931	0.001
.000	4800	25.646	130.332	109.059	130.326	0.006	109.061	-0.002	130.330	0.002	109.060	-0.001
.001	5000	25.660	131.379	114.190	131.372	0.007	114.189	0.001	131.377	0.002	114.191	-0.001
.000	5200	25.673	132.386	119.323	132.378	0.008	119.320	0.003	132.384	0.002	119.324	-0.001
.001	5400	25.685	133.355	124.459	133.347	0.008	124.455	0.004	133.353	0.002	124.460	-0.001
.000	5600	25.695	134.289	129.597	134.282	0.007	129.593	0.004	134.287	0.002	129.598	-0.001
.000	5800	25.704	135.191	134.737	135.184	0.007	134.736	0.001	135.189	0.002	134.737	0.000
.000	6000	25.713	136.063	139.879	136.057	0.006	139.885	-0.006	136.060	0.003	139.877	0.002

1265

-1.0177612E-1-1.5913169E+2+4.1619461E+1-1.5334999E+2CL2MG (C) 32J1265 208

-153349+6+596975+5+178440+2+267186-2-143856+6+690769+2 4002000J126532CL2MG\$

[illegible]

MAGNESIUM CHLORIDE (L) CL 2MG 1 1265 MAGNESIUM
 MOL. WT.= 95.210 BLOCK= 1115 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = -143.779 KEY = 209
 ITS FOR NOTS RMS = 0.023756
 12 2 17 0 0 0 0 0 0 0 MAGNESIUM CHLORIDE (L) 20J1265 209
 3008666E+1-6.5525186E-1+1.4717388E-1-1.1028543E-2 400 6000 21J1265 209
 7163085E-1-1.5300611E+2+5.4919799E+1-1.4377899E+2CL2MG (L) 22J1265 209
 1 12 2 17
 +1.48992441
 -1.41220091

ITS FOR EST RMS LOW = 0.038160 RMS HIGH = 0.038160
 12 2 17 0 0 0 0 0 0 0 MAGNESIUM CHLORIDE (L) 20CL2MG*
 3778+6+581623+5+220777+2-141304-4-244016+6+788239+2 4006000J126521CL2MG*
 3778+6+581623+5+220777+2-141304-4-244016+6+788239+2 4006000J126522CL2MG*
 1 12 2 17
 -937999+5+
 -937999+5+

-----NOTS-----								-----EST-----							
I	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	CP		
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K		
100	18.095	36.123	1.796	35.685	0.438	1.606	0.190	35.125	0.998	1.351	0.445	400	14.111		
200	19.090	43.634	5.505	43.732	-0.098	5.590	-0.085	43.650	-0.016	5.562	-0.057	600	14.511		
300	22.000	49.745	9.769	49.831	-0.086	9.834	-0.065	49.851	-0.106	9.874	-0.105	800	14.680		
400	22.000	54.654	14.169	54.670	-0.016	14.172	-0.003	54.706	-0.052	14.226	-0.057	1000	14.751		
500	22.000	58.665	18.569	58.661	0.004	18.550	0.019	58.691	-0.026	18.598	-0.029	1200	14.801		
600	22.000	62.056	22.969	62.050	0.006	22.947	0.022	62.069	-0.013	22.981	-0.012	1400	14.821		
700	22.000	64.994	27.369	64.990	0.004	27.351	0.018	65.000	-0.006	27.370	-0.001	1600	14.841		
800	22.000	67.585	31.769	67.585	-0.000	31.757	0.012	67.587	-0.002	31.764	0.005	1800	14.851		
900	22.000	69.903	36.169	69.907	-0.004	36.164	0.005	69.903	-0.000	36.161	0.008	2000	14.861		
1000	22.000	72.000	40.569	72.006	-0.006	40.569	-0.000	71.999	0.001	40.559	0.010	2200	14.871		
1100	22.000	73.914	44.969	73.922	-0.008	44.973	-0.004	73.914	0.000	44.959	0.010	2400	14.871		
1200	22.000	75.675	49.369	75.684	-0.009	49.375	-0.006	75.675	0.000	49.360	0.009	2600	14.881		
1300	22.000	77.306	53.769	77.314	-0.008	53.776	-0.007	77.306	0.000	53.761	0.008	2800	14.881		
1400	22.000	78.824	58.169	78.832	-0.008	58.175	-0.006	78.824	0.000	58.162	0.007	3000	14.881		
1500	22.000	80.243	62.569	80.251	-0.008	62.574	-0.005	80.244	-0.001	62.564	0.005	3200	14.881		
1600	22.000	81.577	66.969	81.585	-0.008	66.972	-0.003	81.579	-0.002	66.966	0.003	3400	14.881		
1700	22.000	82.835	71.369	82.842	-0.007	71.370	-0.001	82.837	-0.002	71.367	0.002	3600	14.891		
1800	22.000	84.024	75.769	84.031	-0.007	75.769	0.000	84.026	-0.003	75.769	0.000	3800	14.891		
1900	22.000	85.153	80.169	85.159	-0.006	80.167	0.002	85.155	-0.002	80.170	-0.001	4000	14.891		
2000	22.000	86.226	84.569	86.232	-0.006	84.566	0.002	86.229	-0.003	84.571	-0.002	4200	14.891		
2100	22.000	87.249	88.969	87.255	-0.006	88.966	0.003	87.253	-0.004	88.972	-0.003	4400	14.891		
2200	22.000	88.227	93.369	88.233	-0.006	93.367	0.002	88.231	-0.004	93.372	-0.004	4600	14.891		
2300	22.000	89.164	97.769	89.170	-0.006	97.768	0.001	89.167	-0.003	97.773	-0.004	4800	14.891		
2400	22.000	90.062	102.169	90.068	-0.006	102.169	0.000	90.065	-0.003	102.172	-0.003	5000	14.891		
2500	22.000	90.925	106.569	90.931	-0.006	106.570	-0.001	90.928	-0.003	106.571	-0.003	5200	14.891		
2600	22.000	91.755	110.969	91.762	-0.007	110.971	-0.002	91.758	-0.003	110.970	-0.001	5400	14.891		
2700	22.000	92.555	115.369	92.562	-0.007	115.371	-0.002	92.557	-0.003	115.369	0.000	5600	14.891		
2800	22.000	93.327	119.769	93.333	-0.006	119.769	-0.000	93.329	-0.002	119.767	0.002	5800	14.891		
2900	22.000	94.073	124.169	94.079	-0.006	124.166	0.003	94.075	-0.002	124.164	0.005	6000	14.901		

SILICON DICHLORIDE (G) CL 2SI 1 0 0 0 0 1270
 MOL. WT.= 98.990 BLOCK= 1134 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -40.000 KEY = 212
 FITS FOR NOTS RMS = 0.007225
 1 14 2 17 0 0 0 0 0 0 0 SILICON DICHLORIDE (G) 10J1270 212
 +1.4006218E+1-8.5370540E-3-3.6988992E-2+1.0216198E-2 400 6000 11J1270 212
 -2.3103332E-1-4.4864135E+1+8.3252853E+1-4.0000000E+1CL2SI (G) 12J1270 212

FITS FOR EST RMS LOW = 0.000564 RMS HIGH = 0.013845
 1 14 2 17 0 0 0 0 0 0 0 SILICON DICHLORIDE (G) 10CL2SI
 -400000+5+370677+5+138909+2+791383-5-171856+6+985539+2 4003000J127011CL2SI
 -400000+5+370605+5+110206+2+571029-3+111879+8+985539+23006000J127012CL2SI

-----NOTS-----													-----EST-----			
H	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
.012	400	12.893	71.063	1.285	71.135	-0.072	1.315	-0.030	71.072	-0.009	1.289	-0.004				
.003	600	13.420	76.408	3.925	76.408	0.000	3.921	0.004	76.407	0.001	3.924	0.001				
.003	800	13.626	80.301	6.633	80.291	0.010	6.622	0.011	80.301	0.000	6.632	0.001				
.001	1000	13.726	83.354	9.369	83.345	0.009	9.359	0.010	83.354	0.000	9.369	0.000				
.000	1200	13.781	85.862	12.120	85.856	0.006	12.114	0.006	85.862	0.000	12.120	0.000				
.001	1400	13.815	87.989	14.880	87.986	0.003	14.877	0.003	87.989	0.000	14.880	0.000				
.001	1600	13.837	89.835	17.645	89.834	0.001	17.645	-0.000	89.835	0.000	17.645	-0.000				
.001	1800	13.852	91.466	20.414	91.466	0.000	20.416	-0.002	91.466	0.000	20.414	0.000				
.000	2000	13.863	92.926	23.186	92.926	-0.000	23.189	-0.003	92.926	0.000	23.186	0.000				
.001	2200	13.872	94.248	25.959	94.248	0.000	25.962	-0.003	94.247	0.001	25.959	-0.000				
.000	2400	13.879	95.455	28.735	95.455	0.000	28.737	-0.002	95.455	0.000	28.735	0.000				
.001	2600	13.885	96.566	31.511	96.566	0.000	31.512	-0.001	96.566	-0.000	31.511	-0.000				
.000	2800	13.893	97.595	34.289	97.595	0.000	34.289	0.000	97.595	-0.000	34.289	-0.000				
.001	3000	13.902	98.554	37.068	98.553	0.001	37.067	0.001	98.554	0.000	37.068	0.000				
.003	3000	13.902	98.554	37.068	98.553	0.001	37.067	0.001	98.554	0.000	37.061	0.007				
.001	3200	13.914	99.452	39.850	99.450	0.002	39.848	0.002	99.455	-0.003	39.852	-0.002				
.001	3400	13.930	100.296	42.634	100.294	0.002	42.632	0.002	100.299	-0.003	42.638	-0.004				
.001	3600	13.952	101.092	45.422	101.091	0.001	45.421	0.001	101.096	-0.004	45.425	-0.003				
.002	3800	13.980	101.847	48.215	101.846	0.001	48.215	0.000	101.850	-0.003	48.215	-0.000				
.001	4000	14.015	102.565	51.014	102.565	0.000	51.015	-0.001	102.567	-0.002	51.012	0.002				
.002	4200	14.058	103.250	53.822	103.250	0.000	53.823	-0.001	103.252	-0.002	53.818	0.004				
.001	4400	14.109	103.905	56.638	103.905	0.000	56.640	-0.002	103.907	-0.002	56.634	0.004				
.000	4600	14.169	104.534	59.466	104.533	0.001	59.468	-0.002	104.535	-0.001	59.463	0.003				
.000	4800	14.237	105.138	62.306	105.138	0.000	62.308	-0.002	105.140	-0.002	62.305	0.001				
.000	5000	14.313	105.721	65.161	105.720	0.001	65.161	-0.000	105.723	-0.002	65.162	-0.001				
.001	5200	14.396	106.284	68.032	106.283	0.001	68.031	0.001	106.287	-0.003	68.034	-0.002				
.001	5400	14.487	106.829	70.920	106.828	0.001	70.918	0.002	106.832	-0.003	70.923	-0.003				
.000	5600	14.583	107.357	73.827	107.356	0.001	73.825	0.002	107.360	-0.003	73.830	-0.003				
.000	5800	14.685	107.871	76.754	107.870	0.001	76.753	0.001	107.873	-0.002	76.754	0.000				
.001	6000	14.791	108.371	79.701	108.370	0.001	79.705	-0.004	108.372	-0.001	79.696	0.005				

TITANIUM DICHLORIDE (C) CL 2TI 1 0 0 0 0 668
 MOL. WT. = 118.800 BLOCK = 1140 NO. POINT = 22
 TA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -123.200 KEY = 213
 TS FOR NOTS RMS = 0.000901
 17 1 22 0 0 0 0 0 0 0 TITANIUM DICHLORIDE (C) 30J 668 213
 474700E+1+3.8551769E+0+3.3417302E-1-5.4887235E-2 400 2000 31J 668 213
 430786E-2-1.2852175E+2+3.9226669E+1-1.2319999E+2CL2TI(C) 32J 668 213

IRON DI
 MOL. W
 DATA FRO
 FITS FOR
 2 9 1 26
 +2.3448822
 +4.6997070

TS FOR EST RMS LOW = 0.000923 RMS HIGH = 0.000923
 17 1 22 0 0 0 0 0 0 0 TITANIUM DICHLORIDE (C) 30CL2TIS
 3199+6+633519+5+160475+2+450637-2-134720+5+698981+2 4002000J 66831CL2TIS
 3199+6+633519+5+160475+2+450637-2-134720+5+698981+2 4002000J 66832CL2TIS

FITS FOR
 2 9 1 26
 -161228+6+
 -161228+6+

-----NOTS-----								-----EST-----				T	CI
CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	K	C/M-	
C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M			
17.541	25.902	1.744	25.897	0.005	1.742	0.002	25.889	0.013	1.739	0.005	400	23.50	
18.280	29.897	3.536	29.901	-0.004	3.537	-0.001	29.905	-0.008	3.540	-0.004	600	23.50	
18.732	33.270	5.387	33.268	0.002	5.385	0.002	33.273	-0.003	5.388	-0.001	800	23.50	
19.184	36.192	7.282	36.189	0.002	7.281	0.001	36.193	-0.001	7.283	-0.001	1000	23.50	
19.636	38.783	9.223	38.782	0.001	9.222	0.001	38.783	0.000	9.223	-0.000	1200	23.50	
20.088	41.122	11.210	41.122	0.000	11.209	0.001	41.121	0.001	11.209	0.001	1400	23.50	
20.540	43.262	13.241	43.262	-0.000	13.242	-0.001	43.261	0.001	13.240	0.001	1600	23.50	
20.992	45.240	15.318	45.242	-0.002	15.319	-0.001	45.240	-0.000	15.317	0.001	1800	23.50	
21.444	47.086	17.439	47.088	-0.002	17.440	-0.001	47.086	-0.000	17.439	-0.000	2000	23.50	
21.896	48.821	19.606	48.822	-0.001	19.607	-0.001	48.821	0.000	19.606	-0.000	2200	23.50	
22.348	50.460	21.819	50.461	-0.001	21.819	-0.000	50.460	-0.000	21.819	0.000	2400	23.50	
22.800	52.017	24.076	52.018	-0.001	24.076	-0.000	52.017	-0.000	24.076	-0.000	2600	23.50	
23.252	53.503	26.379	53.503	-0.000	26.378	0.001	53.503	-0.000	26.379	0.000	2800	23.50	
23.704	54.926	28.726	54.926	-0.000	28.726	0.000	54.927	-0.001	28.727	-0.001	3000	23.50	
24.156	56.294	31.119	56.294	-0.000	31.119	0.000	56.294	-0.000	31.120	-0.001			
24.608	57.612	33.558	57.612	-0.000	33.557	0.001	57.612	-0.000	33.558	0.000			
25.060	58.886	36.041	58.886	-0.000	36.041	-0.000	58.886	0.000	36.041	0.000			

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ZIRCONIUM
MOL. WT.
DATA FROM
FITS FOR 1
2 17 1 40 (
+1.2732184E-
+2.0602416E-

FITS FOR 1
2 17 1 40 ()
-103000+6+50
-103000+6+50

T	CP
K	C/M-K
400	18.168
500	18.700
600	19.130
700	19.530
800	19.868
900	20.206
1000	20.536
1100	20.720
1200	20.900
1300	21.080
1400	21.180
1500	21.250
1600	21.300
1700	21.350
1800	21.400
1900	21.450
2000	21.500

ZIRCONIUM DICHLORIDE (L) CL 2ZR 1 0 0 0 0 1269
 MOL. WT.= 162.120 BLOCK= 1153 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -98.372 KEY = 217
 FITS FOR NOTS RMS = C.000745
 17 1 40 0 0 0 0 0 0 0 ZIRCONIUM DICHLORIDE (L) 20J1269 217
 .1684371E+1+2.0558428E-1-1.8772834E-1+5.2048236E-2 400 2000 21J1269 217
 .0000000E+0-1.0484414E+2+5.5470382E+1-9.8371994E+1CL2ZR(L) 22J1269 217

ZIRCONIUM D
 MOL. WT.=
 DATA FROM
 FITS FOR NOT
 2 17 1 40 0
 +1.2319531E+1+
 +4.9052429E-1-

FITS FOR EST RMS LOW = 0.000093 RMS HIGH = 0.000093
 17 1 40 0 0 0 0 0 0 0 ZIRCONIUM DICHLORIDE (L) 20CL2ZR*
 +83719+5+587639+5+217527+2-141589-5-107200+4+794934+2 4002000J126921CL2ZR*
 +83719+5+587639+5+217527+2-141589-5-107200+4+794934+2 4002000J126922CL2ZR*

FITS FOR EST
 2 17 1 40 0
 -445000+5+4127
 -445000+5+4127

-----NOTS-----													-----EST-----												
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		T	CP	S	H	SC	DS	HC	DH		T	CP	S	H
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M		K	C/M-K	C/M-K	KC/M
400	21.750	35.670	2.215	35.670	0.000	2.214	0.001	35.671	-0.001	2.215	-0.000		400	14.231	7							400	14.231	7	
500	21.750	40.523	4.390	40.521	0.002	4.389	0.001	40.523	-0.000	4.390	-0.000		600	14.587	7							600	14.587	7	
600	21.750	44.489	6.565	44.487	0.002	6.564	0.001	44.489	0.000	6.565	0.000		800	14.724	8							800	14.724	8	
700	21.750	47.841	8.740	47.840	0.001	8.739	0.001	47.841	-0.000	8.740	0.000		1000	14.803	8							1000	14.803	8	
800	21.750	50.746	10.915	50.745	0.001	10.914	0.001	50.746	0.000	10.915	0.000		1200	14.885	9							1200	14.885	9	
900	21.750	53.307	13.090	53.307	-0.000	13.090	0.000	53.307	-0.000	13.090	0.000		1400	14.997	9							1400	14.997	9	
1000	21.750	55.599	15.265	55.599	-0.000	15.265	-0.000	55.599	0.000	15.265	0.000		1600	15.146	9							1600	15.146	9	
1100	21.750	57.672	17.440	57.673	-0.001	17.441	-0.001	57.672	0.000	17.440	0.000		1800	15.323	9							1800	15.323	9	
1200	21.750	59.564	19.615	59.565	-0.001	19.616	-0.001	59.564	-0.000	19.615	0.000		2000	15.516	9							2000	15.516	9	
1300	21.750	61.305	21.790	61.306	-0.001	21.791	-0.001	61.305	-0.000	21.790	0.000		2200	15.709	9							2200	15.709	9	
1400	21.750	62.917	23.965	62.918	-0.001	23.966	-0.001	62.917	-0.000	23.965	0.000		2400	15.893	10							2400	15.893	10	
1500	21.750	64.418	26.140	64.418	-0.000	26.140	-0.000	64.418	0.000	26.140	0.000		2600	16.062	10							2600	16.062	10	
1600	21.750	65.822	28.315	65.822	0.000	28.315	0.000	65.822	0.000	28.315	-0.000		2800	16.213	10							2800	16.213	10	
1700	21.750	67.140	30.490	67.140	-0.000	30.490	0.000	67.140	-0.000	30.490	0.000		3000	16.346	10							3000	16.346	10	
1800	21.750	68.383	32.665	68.383	-0.000	32.664	0.001	68.383	-0.000	32.665	0.000		3200	16.463	10							3200	16.463	10	
1900	21.750	69.559	34.840	69.559	-0.000	34.840	0.000	69.559	-0.000	34.840	0.000		3400	16.567	10							3400	16.567	10	
2000	21.750	70.675	37.015	70.675	-0.000	37.015	-0.000	70.675	0.000	37.015	0.000		3600	16.660	10							3600	16.660	10	
													3800	16.743	10							3800	16.743	10	
													4000	16.821	10							4000	16.821	10	
													4200	16.892	10							4200	16.892	10	
													4400	16.960	11							4400	16.960	11	
													4600	17.023	11							4600	17.023	11	
													4800	17.082	11							4800	17.082	11	
													5000	17.137	11							5000	17.137	11	
													5200	17.188	11							5200	17.188	11	
													5400	17.235	11							5400	17.235	11	
													5600	17.276	11							5600	17.276	11	
													5800	17.313	11							5800	17.313	11	
													6000	17.345	11							6000	17.345	11	

ZIRCONIUM DICHLORIDE

(G)

CL 2ZR 1 0 0 0 0

1269

MOL. WT. = 162.120

BLOCK = 1155

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -44.500 KEY = 218

FITS FOR NOTS RMS = 0.017418

2 17 1 40 0 0 0 0 0 0 0 ZIRCONIUM DICHLORIDE (G) 10J1269 218
+1.2319531E+1+2.1572418E+0-3.3923864E-1+1.9915938E-2 400 6000 11J1269 218
+4.9052429E-1-4.7082275E+1+8.5653518E+1-4.4500000E+1CL2ZR (G) 12J1269 218

FITS FOR EST RMS LOW = 0.009767 RMS HIGH = 0.007728

2 17 1 40 0 0 0 0 0 0 0 ZIRCONIUM DICHLORIDE (G) 10CL2ZR
-445000+5+412710+5+136534+2+912304-3+166896+6+104278+3 4003000J126911CL2ZR
-445000+5+412733+5+168285+2+125810-3-808166+7+104278+330006000J126912CL2ZR

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
.000	400	14.231	74.017	1.429	73.669	0.348	1.285	0.144	73.884	0.133	1.378	0.051
.000	600	14.587	79.868	4.318	79.914	-0.046	4.356	-0.038	79.893	-0.025	4.339	-0.021
.000	800	14.724	84.085	7.250	84.142	-0.057	7.295	-0.045	84.104	-0.019	7.267	-0.017
.000	1000	14.803	87.380	10.204	87.403	-0.023	10.217	-0.013	87.380	-0.000	10.204	0.000
.000	1200	14.885	90.086	13.172	90.085	0.001	13.161	0.011	90.078	0.008	13.163	0.009
.000	1400	14.997	92.388	16.160	92.379	0.009	16.138	0.022	92.380	0.008	16.151	0.009
.000	1600	15.146	94.400	19.173	94.392	0.008	19.153	0.020	94.396	0.004	19.170	0.003
.000	1800	15.323	96.194	22.220	96.191	0.003	22.208	0.012	96.193	0.001	22.222	-0.002
.000	2000	15.516	97.818	25.304	97.821	-0.003	25.301	0.003	97.819	-0.001	25.309	-0.005
.000	2200	15.709	99.306	28.426	99.312	-0.006	28.431	-0.005	99.306	-0.000	28.430	-0.004
.000	2400	15.893	100.681	31.587	100.688	-0.007	31.595	-0.008	100.680	0.001	31.587	-0.000
.000	2600	16.062	101.960	34.783	101.968	-0.008	34.791	-0.008	101.957	0.003	34.779	0.004
.000	2800	16.213	103.156	38.010	103.163	-0.007	38.017	-0.007	103.153	0.003	38.007	0.003
.000	3000	16.346	104.279	41.267	104.285	-0.006	41.271	-0.004	104.279	0.000	41.271	-0.004
.000	3000	16.346	104.279	41.267	104.285	-0.006	41.271	-0.004	104.279	0.000	41.273	-0.006
.000	3200	16.463	105.338	44.548	105.343	-0.005	44.549	-0.001	105.336	0.002	44.549	-0.001
.000	3400	16.567	106.339	47.851	106.343	-0.004	47.850	0.001	106.336	0.003	47.849	0.002
.000	3600	16.660	107.289	51.174	107.293	-0.004	51.171	0.003	107.285	0.004	51.171	0.003
.000	3800	16.743	108.192	54.514	108.196	-0.004	54.511	0.003	108.189	0.003	54.511	0.003
.000	4000	16.821	109.053	57.871	109.057	-0.004	57.869	0.002	109.050	0.003	57.869	0.002
.000	4200	16.892	109.875	61.242	109.879	-0.004	61.241	0.001	109.872	0.003	61.241	0.001
.000	4400	16.960	110.663	64.628	110.667	-0.004	64.628	0.000	110.660	0.003	64.628	0.000
.000	4600	17.023	111.418	68.026	111.423	-0.005	68.027	-0.001	111.415	0.003	68.027	-0.001
.000	4800	17.082	112.144	71.436	112.148	-0.004	71.438	-0.002	112.141	0.003	71.438	-0.002
.000	5000	17.137	112.842	74.858	112.847	-0.005	74.860	-0.002	112.840	0.002	74.859	-0.001
.000	5200	17.188	113.515	78.291	113.520	-0.005	78.291	-0.000	113.513	0.002	78.291	-0.000
.000	5400	17.235	114.165	81.733	114.169	-0.004	81.733	0.000	114.162	0.003	81.733	0.000
.000	5600	17.276	114.792	85.185	114.796	-0.005	85.183	0.002	114.790	0.002	85.183	0.002
.000	5800	17.313	115.399	88.644	115.403	-0.004	88.642	0.002	115.396	0.002	88.643	0.001
.000	6000	17.345	115.987	92.109	115.991	-0.004	92.111	-0.002	115.984	0.003	92.110	-0.001

PHOSPHORUS TRICHLORIDE (G) CL 3P 1 0 0 0 0 670
 MOL. WT. = 137.330 BLOCK = 1187 NO. POINT = 62
 DATA FROM 0 TO 6000 K BFORM (KCAL/(MOLE)) = -64.800 KEY = 223
 FITS FOR NOTS RMS = 0.003095
 15 3 17 0 0 0 0 0 0 PHOSPHORUS TRICHLORIDE (G) 10J 670 223
 .9859039E+1+1.2045182E-2-3.9795003E-3+4.0348339E-4 400 6000 11J 670 223
 .9489135E-1-7.1673126E+1+9.6952087E+1-6.4799987E+1CL3P (G) 12J 670 223

THIOPH
 MOL.
 DATA FR
 FITS PO
 1 15 1 1
 +2.578456
 -4.880371

FITS FOR EST RMS LOW = 0.000847 RMS HIGH = 0.006041
 15 3 17 0 0 0 0 0 0 PHOSPHORUS TRICHLORIDE (G) 10CL3P
 47999+5+528281+5+198570+2+465078-5-291552+6+118806+3 4003000J 67011CL3P
 47999+5+528319+5+200011+2-188346-4-115225+7+118806+330006000J 67012CL3P

FITS FO
 1 15 1 1
 -867999+5
 -867999+5

-----NOTS-----												-----EST-----	
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M
100	18.173	79.661	1.803	79.682	-0.021	1.809	-0.006	79.680	-0.019	1.811	-0.008	400	23.0
200	19.057	87.228	5.541	87.224	0.004	5.536	0.005	87.226	0.002	5.540	0.001	600	24.4
300	19.401	92.764	9.392	92.759	0.005	9.386	0.006	92.762	0.002	9.390	0.002	800	25.0
400	19.566	97.113	13.290	97.110	0.003	13.286	0.004	97.112	0.001	13.290	0.000	1000	25.3
500	19.658	100.689	17.214	100.687	0.002	17.210	0.004	100.689	0.000	17.214	0.000	1200	25.4
600	19.714	103.724	21.151	103.723	0.001	21.149	0.002	103.724	0.000	21.152	-0.001	1400	25.5
700	19.751	106.359	25.098	106.358	0.001	25.096	0.002	106.359	0.000	25.098	-0.000	1600	25.6
800	19.776	108.687	29.051	108.686	0.001	29.050	0.001	108.687	0.000	29.051	-0.000	1800	25.6
900	19.794	110.771	33.008	110.771	-0.000	33.007	0.001	110.771	-0.000	33.008	-0.000	2000	25.7
1000	19.807	112.659	36.968	112.659	0.000	36.968	-0.000	112.658	0.001	36.968	-0.000	2200	25.7
1100	19.818	114.383	40.931	114.383	0.000	40.931	-0.000	114.382	0.001	40.931	0.000	2400	25.7
1200	19.826	115.969	44.895	115.970	-0.001	44.896	-0.001	115.969	0.000	44.895	-0.000	2600	25.7
1300	19.832	117.439	48.861	117.439	-0.000	48.862	-0.001	117.438	0.001	48.861	0.000	2800	25.7
1400	19.837	118.807	52.828	118.808	-0.001	52.829	-0.001	118.807	0.000	52.828	-0.000	3000	25.7
1500	19.837	118.807	52.828	118.808	-0.001	52.829	-0.001	118.807	0.000	52.832	-0.004	3000	25.7
1600	19.841	120.088	56.795	120.088	-0.000	56.797	-0.002	120.086	0.002	56.796	-0.001	3200	25.7
1700	19.845	121.291	60.764	121.291	-0.000	60.765	-0.001	121.289	0.002	60.763	0.001	3400	25.7
1800	19.848	122.425	64.733	122.425	-0.000	64.734	-0.001	122.423	0.002	64.731	0.002	3600	25.7
1900	19.850	123.498	68.703	123.499	-0.001	68.704	-0.001	123.496	0.002	68.701	0.002	3800	25.7
2000	19.852	124.516	72.673	124.517	-0.001	72.674	-0.001	124.514	0.002	72.671	0.002	4000	25.8
2100	19.854	125.485	76.644	125.485	-0.000	76.644	-0.000	125.483	0.002	76.642	0.002	4200	25.8
2200	19.856	126.409	80.615	126.409	0.000	80.615	-0.000	126.407	0.002	80.614	0.001	4400	25.8
2300	19.857	127.291	84.586	127.291	-0.000	84.586	0.000	127.289	0.002	84.586	0.000	4600	25.8
2400	19.858	128.136	88.558	128.136	-0.001	88.557	0.001	128.135	0.001	88.558	0.000	4800	25.8
2500	19.859	128.947	92.529	128.947	-0.000	92.529	0.000	128.945	0.002	92.530	-0.001	5000	25.8
2600	19.860	129.726	96.501	129.726	-0.000	96.501	0.000	129.724	0.002	96.502	-0.001	5200	25.8
2700	19.861	130.475	100.473	130.476	-0.001	100.473	0.000	130.474	0.001	100.474	-0.001	5400	25.8
2800	19.862	131.198	104.446	131.198	0.000	104.445	0.001	131.196	0.002	104.446	0.000	5600	25.8
2900	19.862	131.895	108.418	131.895	0.000	108.418	-0.000	131.893	0.002	108.418	0.000	5800	25.8
3000	19.863	132.568	112.391	132.568	-0.000	112.391	-0.000	132.566	0.002	112.389	0.002	6000	25.8

THIOPHOSPHORYL CHLORIDE

(G) CL 3P 1S 1

962

MOL. WT. = 169.390 BLOCK = 1193 NO. POINT = 62

DATA FROM 0 TO 6000 K HFCRM(KCAL/(MOLE)) = -86.800 KEY = 224

FITS FOR NOTS RMS = 0.004061

1 15 1 16 3 17 0 0 0 0 0 THIOPHOSPHORYL CHLORIDE (G) 10J 962 224
 +2.5784561E+1+3.5986542E-2-9.3715228E-3+8.0696679E-4 400 6000 11J 962 224
 -4.8803710E-1-9.6044296E+1+1.0929406E+2-8.6799987E+1CL3PS(G) 12J 962 224

FITS FOR EST RMS LOW = 0.001879 RMS HIGH = 0.007873

1 15 1 16 3 17 0 0 0 0 0 THIOPHOSPHORYL CHLORIDE (G) 10CL3PS
 -867999+5+683653+5+257932+2+133897-4-484656+6+137720+3 4003000J 96211CL3PS
 -867999+5+683702+5+260182+2-269249-4-171366+7+137720+330006000J 96212CL3PS

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
8	400	23.069	87.161	2.277	87.207	-0.046	2.292	-0.015	87.203	-0.042	2.294	-0.017
1	600	24.469	96.827	7.054	96.820	0.007	7.046	0.008	96.822	0.005	7.050	0.004
2	800	25.036	103.955	12.012	103.948	0.007	12.003	0.009	103.951	0.004	12.009	0.003
0	1000	25.313	109.574	17.050	109.570	0.004	17.043	0.007	109.573	0.001	17.048	0.002
0	1200	25.469	114.205	22.129	114.201	0.003	22.125	0.004	114.204	0.001	22.129	-0.000
1	1400	25.564	118.138	27.233	118.136	0.002	27.230	0.003	118.138	-0.000	27.234	-0.001
0	1600	25.627	121.556	32.353	121.555	0.001	32.351	0.002	121.556	-0.000	32.353	-0.000
0	1800	25.670	124.577	37.482	124.576	0.001	37.481	0.001	124.577	0.000	37.483	-0.001
0	2000	25.701	127.284	42.620	127.283	0.001	42.619	0.001	127.283	0.001	42.619	0.001
0	2200	25.724	129.734	47.762	129.734	0.000	47.762	-0.000	129.734	0.000	47.762	0.000
0	2400	25.741	131.973	52.909	131.973	-0.000	52.909	-0.000	131.972	0.001	52.908	0.001
0	2600	25.755	134.034	58.058	134.034	-0.000	58.059	-0.001	134.034	0.000	58.058	0.000
0	2800	25.766	135.943	63.211	135.943	-0.000	63.212	-0.001	135.943	0.000	63.210	0.001
0	3000	25.775	137.721	68.365	137.721	-0.000	68.366	-0.001	137.721	0.000	68.365	-0.000
4	3000	25.775	137.721	68.365	137.721	-0.000	68.366	-0.001	137.721	0.000	68.370	-0.005
1	3200	25.782	139.385	73.520	139.385	-0.000	73.522	-0.002	139.383	0.002	73.521	-0.001
1	3400	25.788	140.948	78.677	140.948	-0.000	78.679	-0.002	140.946	0.002	78.676	0.001
2	3600	25.793	142.422	83.836	142.423	-0.001	83.837	-0.001	142.419	0.003	83.833	0.003
2	3800	25.797	143.817	88.995	143.817	-0.000	88.996	-0.001	143.814	0.003	88.991	0.004
2	4000	25.801	145.140	94.154	145.140	-0.000	94.156	-0.002	145.137	0.003	94.151	0.003
2	4200	25.804	146.399	99.315	146.399	-0.000	99.316	-0.001	146.396	0.003	99.313	0.002
1	4400	25.807	147.600	104.476	147.600	0.000	104.477	-0.001	147.597	0.003	104.474	0.002
0	4600	25.809	148.747	109.637	148.747	0.000	109.638	-0.001	148.745	0.002	109.637	0.000
0	4800	25.811	149.845	114.800	149.845	-0.000	114.799	0.001	149.843	0.002	114.800	0.000
1	5000	25.813	150.899	119.962	150.899	0.000	119.962	0.000	150.897	0.002	119.963	-0.001
1	5200	25.815	151.911	125.125	151.911	-0.000	125.124	0.001	151.909	0.002	125.126	-0.001
1	5400	25.816	152.886	130.288	152.885	0.001	130.287	0.001	152.884	0.002	130.289	-0.001
0	5600	25.817	153.825	135.451	153.824	0.001	135.450	0.001	153.822	0.003	135.451	-0.000
0	5800	25.818	154.731	140.615	154.730	0.001	140.614	0.001	154.728	0.003	140.614	0.001
2	6000	25.820	155.606	145.778	155.606	0.000	145.779	-0.001	155.603	0.003	145.776	0.002

TITANIUM TRICHLORIDE (C) CL 3TI 1 0 0 0 0 668
 MOL. WT. = 154.250 BLOCK = 1200 NO. POINT = 17
 DATA FROM 0 TO 1500 K HFORM (KCAL/(MOLE)) = -172.500 KEY = 225
 FITS FOR NOTS RMS = 0.000231
 3 17 1 22 0 0 0 0 0 0 0 TITANIUM TRICHLORIDE (C) 30J 668 225
 +2.3309921E+1+1.9821939E+0+3.6428993E-1-7.0797622E-2 400 1500 31J 668 225
 -8.3999633E-2-1.7981285E+2+6.0561141E+1-1.7250000E+2CL3TI (C) 32J 668 225

FITS FOR EST RMS LOW = 0.000343 RMS HIGH = 0.000343
 3 17 1 22 0 0 0 0 0 0 0 TITANIUM TRICHLORIDE (C) 30CL3TIS
 -172500+6+733916+5+229972+2+256514-2-579680+5+931124+2 4001500J 66831CL3TIS
 -172500+6+733916+5+229972+2+256514-2-579680+5+931124+2 4001500J 66832CL3TIS

TITANIUM T
 MOL. WT. =
 DATA FROM
 FITS FOR NO
 3 17 1 22 0
 +2.0798645E+1
 -2.6527404E-1

FITS FOR ES
 3 17 1 22 0
 -128899+6+547
 -128899+6+547

-----NOTS-----										-----EST-----			
T	CP	S	H	SC	ES	HC	DH	SC	DS	HC	DH		
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		
400	23.652	40.286	2.387	40.286	0.000	2.387	-0.000	40.284	0.002	2.387	0.000		
500	24.038	45.606	4.772	45.606	0.000	4.772	0.000	45.607	-0.001	4.773	-0.001		
600	24.390	50.020	7.194	50.020	-0.000	7.194	0.000	50.021	-0.001	7.194	-0.000		
700	24.677	53.802	9.647	53.801	0.001	9.647	-0.000	53.801	0.001	9.647	0.000		
800	24.958	57.115	12.129	57.116	-0.001	12.129	-0.000	57.115	0.000	12.129	0.000		
900	25.235	60.071	14.639	60.071	-0.000	14.639	-0.000	60.070	0.001	14.638	0.001		
1000	25.503	62.744	17.176	62.744	0.000	17.176	0.000	62.743	0.001	17.175	0.001		
1100	25.769	65.187	19.739	65.187	0.000	19.739	-0.000	65.186	0.001	19.739	-0.000		
1200	26.034	67.440	22.329	67.440	-0.000	22.329	-0.000	67.440	0.000	22.329	-0.000		
1300	26.297	69.535	24.946	69.534	0.001	24.946	0.000	69.534	0.001	24.946	-0.000		
1400	26.559	71.493	27.589	71.493	-0.000	27.589	0.000	71.493	0.000	27.589	0.000		
1500	26.820	73.334	30.258	73.335	-0.001	30.258	-0.000	73.334	0.000	30.258	0.000		

T	CP
K	C/M-K C
400	18.796
500	19.924
600	20.261
1000	20.377
1200	20.424
1400	20.445
1600	20.452
1800	20.452
2000	20.448
2200	20.443
2400	20.437
2600	20.431
2800	20.426
3000	20.421
3000	20.421
3200	20.416
3400	20.410
3600	20.404
3800	20.398
4000	20.392
4200	20.384
4400	20.377
4600	20.369
4800	20.360
5000	20.351
5200	20.342
5400	20.333
5600	20.324
5800	20.314
6000	20.305

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SILICON TETRACHLORIDE (G) CL 4SI 1 0 0 0 0 1270
 MOL. WT.= 169.890 BLOCK= 1220 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -158.400 KEY = 230
 FITS FOR NOTS RMS = 0.004092
 1 14 4 17 0 0 0 0 0 0 0 SILICON TETRACHLORIDE (G) 10J1270 230
 +2.5793457E+1+2.9033005E-2-7.7788047E-3+6.8861152E-4 400 6000 11J1270 230
 -4.7705078E-1-1.6761308E+2+1.0782734E+2-1.5839999E+2CL4SI (G) 12J1270 230

FITS FOR EST RMS LOW = 0.001669 RMS HIGH = 0.007876
 1 14 4 17 0 0 0 0 0 0 0 SILICON TETRACHLORIDE (G) 10CL4SI
 -158399+6+684001+5+257958+2+120395-4-472192+6+136248+3 4003000J127011CL4SI
 -158399+6+684053+5+260155+2-266268-4-169472+7+136248+330006000J127012CL4SI

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	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
.052	400	23.133	85.651	2.285	85.695	-0.044	2.299	-0.014	85.691	-0.040	2.301	-0.016
.018	600	24.505	95.337	7.071	95.330	0.007	7.063	0.008	95.333	0.004	7.068	0.003
.011	800	25.057	102.473	12.035	102.465	0.008	12.026	0.009	102.469	0.004	12.032	0.003
.001	1000	25.328	108.096	17.076	108.091	0.005	17.070	0.006	108.095	0.001	17.075	0.001
.004	1200	25.479	112.728	22.158	112.725	0.003	22.153	0.005	112.729	-0.001	22.158	-0.000
.004	1400	25.571	116.663	27.264	116.661	0.002	27.260	0.004	116.664	-0.001	27.264	-0.000
.002	1600	25.632	120.082	32.384	120.081	0.001	32.382	0.002	120.083	-0.001	32.385	-0.001
.000	1800	25.674	123.104	37.515	123.103	0.001	37.514	0.001	123.104	0.000	37.515	-0.000
.001	2000	25.704	125.810	42.653	125.810	0.000	42.652	0.001	125.810	-0.000	42.653	0.000
.002	2200	25.726	128.261	47.796	128.261	-0.000	47.796	0.000	128.261	-0.000	47.796	0.000
.001	2400	25.743	130.501	52.943	130.501	0.000	52.943	-0.000	130.500	0.001	52.943	0.000
.000	2600	25.756	132.562	58.093	132.562	0.000	58.094	-0.001	132.561	0.001	58.093	0.000
.001	2800	25.767	134.471	63.245	134.471	-0.000	63.246	-0.001	134.471	0.000	63.245	-0.000
.000	3000	25.775	136.249	68.400	136.249	-0.000	68.401	-0.001	136.249	0.000	68.400	-0.000
.005	3000	25.775	136.249	68.400	136.249	-0.000	68.401	-0.001	136.249	0.000	68.405	-0.005
.000	3200	25.782	137.912	73.555	137.913	-0.001	73.557	-0.002	137.911	0.001	73.557	-0.002
.001	3400	25.788	139.476	78.712	139.476	-0.000	78.714	-0.002	139.474	0.002	78.711	0.001
.002	3600	25.793	140.950	83.871	140.950	-0.000	83.872	-0.001	140.947	0.003	83.868	0.003
.002	3800	25.797	142.345	89.030	142.345	0.000	89.031	-0.001	142.342	0.003	89.026	0.004
.003	4000	25.801	143.668	94.189	143.668	-0.000	94.190	-0.001	143.665	0.003	94.186	0.003
.002	4200	25.804	144.927	99.350	144.927	0.000	99.350	-0.001	144.924	0.003	99.347	0.003
.001	4400	25.806	146.127	104.511	146.127	-0.000	104.511	-0.000	146.125	0.002	104.509	0.002
.000	4600	25.809	147.274	109.672	147.274	-0.000	109.672	-0.000	147.272	0.002	109.672	0.000
.000	4800	25.811	148.373	114.834	148.373	0.000	114.834	0.000	148.371	0.002	114.834	-0.000
.001	5000	25.812	149.426	119.996	149.426	-0.000	119.996	0.000	149.425	0.001	119.997	-0.001
.001	5200	25.814	150.439	125.159	150.439	0.000	125.158	0.001	150.437	0.002	125.160	-0.001
.001	5400	25.815	151.413	130.322	151.413	-0.000	130.321	0.001	151.412	0.001	130.323	-0.001
.001	5600	25.817	152.352	135.485	152.352	0.000	135.485	0.000	152.350	0.002	135.486	-0.001
.000	5800	25.818	153.258	140.649	153.258	0.000	140.648	0.001	153.256	0.002	140.648	0.001
.002	6000	25.819	154.133	145.812	154.133	-0.000	145.813	-0.001	154.131	0.002	145.810	0.002

TITANIUM TETRACHLORIDE (G) CL 4TI 1 0 0 0 0 1257 ZIRCO
 MOL. WT. = 189.710 BLOCK = 1226 NO. POINT = 62 MOL.
 ATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -182.400 KEY = 231 DATA
 ITS FOR NOTS RMS = 0.003959 FITS
 17 1 22 0 0 0 0 0 0 0 TITANIUM TETRACHLORIDE (G) 10J1267 231 4 17 1
 .5825164E+1+1.0567575E-2-4.0148571E-3+4.3038208E-4 400 6000 11J1267 231 +2.5826
 .1860351E-1-1.9112701E+2+1.1437870E+2-1.8239999E+2CL4TI (G) 12J1267 231 -4.0378

FITS FOR EST RMS LOW = 0.001051 RMS HIGH = 0.007787 FITS
 17 1 22 0 0 0 0 0 0 0 TITANIUM TETRACHLORIDE (G) 10CL4TI 4 17 1
 12399+6+688732+5+258208+2+375063-5-313920+6+142784+3 4003000J126711CL4TI -234169
 2399+6+688790+5+260114+2-260307-4-148275+7+142784+330006000J126712CL4TI -234169

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	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K C,
16	24.008	91.690	2.393	91.715	-0.025	2.400	-0.007	91.712	-0.022	2.403	-0.010	400 29
03	24.962	101.639	7.307	101.635	0.004	7.301	0.006	101.637	0.002	7.306	0.001	500 30
03	25.330	108.877	12.341	108.872	0.005	12.334	0.007	108.876	0.001	12.339	0.002	600 31
01	25.507	114.551	17.427	114.547	0.004	17.421	0.006	114.550	0.001	17.426	0.001	700 31
00	25.605	119.211	22.539	119.208	0.003	22.534	0.005	119.210	0.001	22.538	0.001	800 32
00	25.665	123.163	27.666	123.161	0.002	27.663	0.003	123.163	0.000	27.666	-0.000	900 32
01	25.704	126.592	32.803	126.591	0.001	32.801	0.002	126.592	-0.000	32.804	-0.001	1000 33
00	25.731	129.622	37.947	129.621	0.001	37.946	0.001	129.622	0.000	37.947	-0.000	
00	25.750	132.334	43.095	132.333	0.001	43.095	0.000	132.334	0.000	43.095	-0.000	
00	25.765	134.789	48.247	134.789	0.000	48.247	0.000	134.788	0.000	48.247	0.000	
00	25.776	137.031	53.401	137.031	-0.000	53.402	-0.001	137.031	0.000	53.401	0.000	
00	25.784	139.094	58.557	139.095	-0.001	58.558	-0.001	139.094	-0.000	58.557	0.000	
00	25.791	141.006	63.714	141.006	-0.000	63.716	-0.002	141.005	0.001	63.714	-0.000	
00	25.796	142.785	68.873	142.786	-0.001	68.875	-0.002	142.785	0.000	68.873	-0.000	
15	25.796	142.785	68.873	142.786	-0.001	68.875	-0.002	142.785	0.000	68.879	-0.006	
02	25.801	144.450	74.033	144.451	-0.001	74.035	-0.002	144.449	0.001	74.034	-0.001	
11	25.804	146.014	79.193	146.015	-0.001	79.195	-0.002	146.012	0.002	79.192	0.001	
03	25.807	147.489	84.355	147.490	-0.001	84.356	-0.001	147.487	0.002	84.352	0.003	
04	25.810	148.885	89.516	148.885	-0.000	89.518	-0.002	148.882	0.003	89.513	0.003	
02	25.812	150.209	94.679	150.209	-0.000	94.680	-0.001	150.206	0.003	94.676	0.003	
03	25.814	151.468	99.841	151.469	-0.001	99.842	-0.001	151.465	0.002	99.839	0.002	
02	25.816	152.669	105.004	152.669	-0.000	105.005	-0.001	152.667	0.002	105.003	0.001	
00	25.817	153.817	110.168	153.817	0.000	110.168	0.000	153.814	0.003	110.167	0.001	
00	25.819	154.916	115.331	154.916	0.000	115.331	0.000	154.913	0.003	115.331	-0.001	
01	25.820	155.969	120.495	155.970	-0.001	120.495	0.000	155.968	0.001	120.496	-0.001	
01	25.821	156.982	125.659	156.982	-0.000	125.658	0.001	156.980	0.002	125.660	-0.001	
01	25.822	157.957	130.823	157.957	0.000	130.823	0.000	157.955	0.002	130.824	-0.001	
01	25.823	158.896	135.988	158.896	0.000	135.987	0.001	158.894	0.002	135.988	-0.000	
01	25.823	159.802	141.152	159.802	-0.000	141.152	-0.000	159.800	0.002	141.152	0.000	
02	25.824	160.677	146.317	160.678	-0.001	146.318	-0.001	160.675	0.002	146.315	0.002	

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IRON TRIFLUORIDE (C) F 3FE 1
 MOL. WT. = 112.840 BLOCK = 1233 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM (KCAL/(MOLE)) = -249.000 KEY = 233
 ITS FOR NOTS RMS = 0.000988
 9 1 26 0 0 0 0 0 0 0 IRON TRIFLUORIDE (C) 30J 965 233
 .0511154E+1+.4.4827232E+0-9.5555770E-1+2.1008563E-1 400 2000 31J 965 233
 .3811035E-2-2.5488554E+2+.7850540E+1-2.4900000E+2F3FE(C) 32J 965 233

965

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 MOL.
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 FITS
 4 17 1
 +2.5841
 -2.4511

ITS FOR EST RMS LOW = 0.001123 RMS HIGH = 0.001123
 9 1 26 0 0 0 0 0 0 0 IRON TRIFLUORIDE (C) 30F3FE\$
 .9000+6+711988+5+213033+2+301808-2+183360+5+813271+2 4002000J 96531F3FE\$
 .9000+6+711988+5+213033+2+301808-2+183360+5+813271+2 4002000J 96532F3FE\$

FITS
 4 17 1
 -207769
 -207769

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CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		SC	DS	HC	DH									K	C
C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		C/M-K	C/M-K	KC/M	KC/M										
23.033	30.477	2.423	30.484	-0.007	2.424	-0.001	30.500	-0.023	2.430	-0.007		30.500	-0.023	2.430	-0.007									400	24
22.865	35.584	4.711	35.576	0.008	4.706	0.005	35.576	0.008	4.706	0.005		35.576	0.008	4.706	0.005									600	25
23.140	39.778	7.011	39.775	0.003	7.010	0.001	39.773	0.005	7.008	0.003		39.773	0.005	7.008	0.003									800	25
23.440	43.367	9.340	43.367	0.000	9.340	0.000	43.365	0.002	9.339	0.001		43.365	0.002	9.339	0.001									1000	25
23.740	46.517	11.699	46.517	0.000	11.699	-0.000	46.516	0.001	11.699	-0.000		46.516	0.001	11.699	-0.000									1200	25
24.040	49.330	14.088	49.330	-0.000	14.088	-0.000	49.330	-0.000	14.088	-0.000		49.330	-0.000	14.088	-0.000									1400	25
24.340	51.879	16.507	51.879	0.000	16.507	-0.000	51.879	0.000	16.508	-0.001		51.879	0.000	16.508	-0.001									1600	25
24.640	54.212	18.956	54.213	-0.001	18.956	-0.000	54.212	-0.001	18.956	-0.001		54.212	-0.001	18.956	-0.001									1800	25
24.940	56.369	21.435	56.370	-0.001	21.436	-0.001	56.369	-0.000	21.435	-0.000		56.369	-0.000	21.435	-0.000									2000	25
25.240	58.377	23.944	58.378	-0.001	23.945	-0.001	58.377	-0.000	23.944	-0.000		58.377	-0.000	23.944	-0.000									2200	25
25.540	60.259	26.483	60.260	-0.001	26.484	-0.001	60.258	0.001	26.483	0.000		60.258	0.001	26.483	0.000									2400	25
25.840	62.031	29.052	62.032	-0.001	29.053	-0.001	62.031	0.000	29.052	0.000		62.031	0.000	29.052	0.000									2600	25
26.140	63.708	31.651	63.709	-0.001	31.651	-0.000	63.708	0.000	31.651	0.000		63.708	0.000	31.651	0.000									2800	25
26.440	65.302	34.280	65.302	0.000	34.280	0.000	65.301	0.001	34.280	0.000		65.301	0.001	34.280	0.000									3000	25
26.740	66.822	36.939	66.822	0.000	36.938	0.001	66.821	0.001	36.939	0.000		66.821	0.001	36.939	0.000									3000	25
27.040	68.276	39.628	68.275	0.001	39.627	0.001	68.275	0.001	39.628	0.000		68.275	0.001	39.628	0.000									3200	25
27.340	69.670	42.347	69.671	-0.001	42.347	-0.000	69.670	0.000	42.347	-0.000		69.670	0.000	42.347	-0.000									3400	25
																								3600	25
																								3800	25
																								4000	25
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ZIRCONIUM TETRACHLORIDE (G) CL 4ZR 1 0 0 0 0 1269
 MOL. WT.= 233.030 BLOCK= 1235 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -207.770 KEY = 234
 FITS FOR NOTS RMS = 0.003942
 4 17 1 40 0 0 0 0 0 0 0 ZIRCONIUM TETRACHLORIDE (G) 10J1269 234
 +2.5841766E+1-3.3540907E-4-1.5019106E-3+2.3671024E-4 400 6000 11J1269 234
 -2.4511718E-1-2.1626921E+2+1.1796218E+2-2.0776998E+2CL4ZR (G) 12J1269 234

FITS FOR EST RMS LOW = 0.000755 RMS HIGH = 0.007836
 4 17 1 40 0 0 0 0 0 0 0 ZIRCONIUM TETRACHLORIDE (G) 10CL4ZR
 -207769+6+690960+5+258273+2+183781-5-237696+6+146358+3 4003000J126911CL4ZR
 -207769+6+691016+5+260127+2-262010-4-140467+7+146358+330006000J126912CL4ZR

-----NOTS-----

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T	CP	S	H	SC	ES	HC	DH	SC	DS	HC	DH	C/
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
400	24.430	95.031	2.446	95.049	-0.018	2.450	-0.004	95.044	-0.013	2.452	-0.006	28.
600	25.176	105.105	7.420	105.102	0.003	7.414	0.006	105.104	0.001	7.419	0.001	30.
800	25.456	112.391	12.487	112.387	0.004	12.480	0.007	112.390	0.001	12.486	0.001	30.
1000	25.590	118.088	17.593	118.084	0.004	17.587	0.006	118.087	0.001	17.592	0.001	31.
1200	25.663	122.760	22.719	122.757	0.003	22.714	0.005	122.760	0.000	22.719	0.000	31.
1400	25.708	126.720	27.857	126.718	0.002	27.853	0.004	126.719	0.001	27.856	0.001	31.
1600	25.737	130.155	33.001	130.154	0.001	32.999	0.002	130.154	0.001	33.001	-0.000	31.
1800	25.757	133.188	38.151	133.187	0.001	38.149	0.002	133.187	0.001	38.151	0.000	31.
2000	25.772	135.902	43.304	135.902	0.000	43.303	0.001	135.902	0.000	43.304	0.000	31.
2200	25.782	138.359	48.459	138.359	-0.000	48.459	-0.000	138.358	0.001	48.459	-0.000	31.
2400	25.790	140.603	53.617	140.603	-0.000	53.617	-0.000	140.602	0.001	53.616	0.001	31.
2600	25.797	142.667	58.775	142.668	-0.001	58.776	-0.001	142.667	0.000	58.775	-0.000	31.
2800	25.802	144.579	63.935	144.580	-0.001	63.937	-0.002	144.579	0.000	63.935	-0.000	31.
3000	25.806	146.359	69.096	146.360	-0.001	69.098	-0.002	146.359	0.000	69.096	-0.000	31.
3000	25.806	146.359	69.096	146.360	-0.001	69.098	-0.002	146.359	0.000	69.102	-0.006	31.
3200	25.809	148.025	74.257	148.026	-0.001	74.259	-0.002	148.023	0.002	74.259	-0.002	31.
3400	25.812	149.590	79.420	149.591	-0.001	79.421	-0.001	149.587	0.003	79.418	0.002	31.
3600	25.814	151.065	84.582	151.066	-0.001	84.584	-0.002	151.062	0.003	84.579	0.003	31.
3800	25.816	152.461	89.745	152.462	-0.001	89.746	-0.001	152.458	0.003	89.742	0.003	31.
4000	25.818	153.785	94.909	153.786	-0.001	94.910	-0.001	153.782	0.003	94.906	0.003	31.
4200	25.819	155.045	100.072	155.045	-0.000	100.073	-0.001	155.042	0.003	100.070	0.002	31.
4400	25.820	156.246	105.236	156.246	-0.000	105.236	-0.001	156.243	0.003	105.235	0.001	31.
4600	25.821	157.394	110.400	157.394	-0.000	110.400	-0.000	157.391	0.003	110.400	0.000	31.
4800	25.822	158.493	115.565	158.493	-0.000	115.564	0.001	158.490	0.003	115.565	-0.000	31.
5000	25.823	159.547	120.729	159.547	-0.000	120.729	0.000	159.545	0.002	120.730	-0.001	31.
5200	25.824	160.560	125.894	160.560	0.000	125.893	0.001	160.557	0.003	125.895	-0.001	31.
5400	25.825	161.534	131.059	161.535	-0.001	131.058	0.001	161.532	0.002	131.060	-0.001	31.
5600	25.825	162.474	136.224	162.474	0.000	136.223	0.001	162.471	0.003	136.224	-0.000	31.
5800	25.826	163.380	141.389	163.380	-0.000	141.389	0.000	163.377	0.003	141.388	0.001	31.
6000	25.826	164.255	146.554	164.256	-0.001	146.555	-0.001	164.253	0.002	146.552	0.002	31.

PHOSPHORUS PENTACHLORIDE (G) CL 5P 1
 MOL. WT.= 208.230 BLOCK= 1242 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -81.913 KEY = 235
 FITS FOR NOTS RMS = 0.004846
 15 5 17 0 0 0 0 0 0 0 PHOSPHORUS PENTACHLORIDE (G) 10J 962 235
 1.779479E+1+1.4897160E-2-4.8246756E-3+4.8417993E-4 400 6000 11J 962 235
 1.3930664E-1-9.3126724E+1+1.2267709E+2-8.1912994E+1CL5P (G) 12J 962 235

962

FLU

HC

DAT

FIT

1 9

+5.03

+7.62

FITS FOR EST RMS LOW = 0.001545 RMS HIGH = 0.009519
 15 5 17 0 0 0 0 0 0 0 PHOSPHORUS PENTACHLORIDE (G) 10CL5P
 19129+5+843362+5+317700+2+813887-5-531424+6+157646+3 4003000J 96211CL5P
 19129+5+843435+5+320308+2-342912-4-207692+7+157646+330006000J 96212CL5P

FIT

1 9

+1885

+1885

-----NOTS-----

-----EST-----

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
/M	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
006	28.698	95.208	2.835	95.249	-0.041	2.847	-0.012	95.243	-0.035	2.849	-0.015	400
001	30.313	107.207	8.764	107.200	0.007	8.755	0.009	107.204	0.003	8.761	0.003	600
001	30.939	116.025	14.898	116.017	0.008	14.888	0.010	116.022	0.003	14.895	0.003	800
001	31.240	122.965	21.119	122.959	0.006	21.111	0.008	122.964	0.001	21.118	0.001	1000
000	31.407	128.677	27.385	128.673	0.004	27.375	0.006	128.677	0.000	27.385	-0.000	1200
001	31.509	133.527	33.678	133.524	0.003	33.673	0.005	133.527	0.000	33.678	0.000	1400
000	31.576	137.739	39.987	137.737	0.002	39.984	0.003	137.739	0.000	39.987	0.000	1600
000	31.622	141.461	46.307	141.460	0.001	46.305	0.002	141.461	0.000	46.307	0.000	1800
000	31.655	144.794	52.634	144.794	0.000	52.634	0.000	144.794	-0.000	52.634	-0.000	2000
000	31.679	147.812	58.968	147.812	-0.000	58.968	0.000	147.812	-0.000	58.968	0.000	2200
001	31.698	150.570	65.306	150.570	0.000	65.306	-0.000	150.569	0.001	65.305	0.001	2400
000	31.712	153.107	71.647	153.108	-0.001	71.648	-0.001	153.107	-0.000	71.646	0.001	2600
000	31.724	155.458	77.990	155.459	-0.001	77.992	-0.002	155.458	0.000	77.990	-0.000	2800
000	31.733	157.647	84.336	157.648	-0.001	84.338	-0.002	157.647	0.000	84.336	-0.000	3000
006	31.733	157.647	84.336	157.648	-0.001	84.338	-0.002	157.647	0.000	84.344	-0.008	3000
002	31.741	159.695	90.684	159.696	-0.001	90.685	-0.001	159.693	0.002	90.685	-0.001	3200
002	31.747	161.620	97.032	161.620	-0.000	97.034	-0.002	161.617	0.003	97.031	0.001	3400
003	31.752	163.435	103.382	163.435	-0.000	103.384	-0.002	163.431	0.004	103.379	0.003	3600
003	31.757	165.151	109.733	165.152	-0.001	109.735	-0.002	165.148	0.003	109.729	0.004	3800
003	31.761	166.780	116.085	166.781	-0.001	116.086	-0.001	166.777	0.003	116.081	0.004	4000
002	31.764	168.330	122.437	168.331	-0.001	122.438	-0.001	168.327	0.003	122.435	0.002	4200
001	31.767	169.808	128.791	169.808	-0.000	128.791	-0.000	169.805	0.003	128.789	0.002	4400
000	31.769	171.220	135.144	171.220	-0.000	135.144	-0.000	171.217	0.003	135.144	0.000	4600
000	31.772	172.572	141.498	172.572	-0.000	141.498	-0.000	172.570	0.002	141.499	-0.001	4800
001	31.774	173.869	147.853	173.869	-0.000	147.852	0.001	173.867	0.002	147.854	-0.001	5000
001	31.775	175.115	154.208	175.115	-0.000	154.207	0.001	175.113	0.002	154.209	-0.001	5200
001	31.777	176.315	160.563	176.315	0.000	160.562	0.001	176.312	0.003	160.564	-0.001	5400
000	31.778	177.470	166.919	177.470	-0.000	166.918	0.001	177.468	0.002	166.919	-0.000	5600
001	31.779	178.586	173.274	178.586	0.000	173.274	0.000	178.583	0.003	173.273	0.001	5800
002	31.781	179.663	179.630	179.663	-0.000	179.631	-0.001	179.660	0.003	179.627	0.003	6000

FLUORINE, MONATOMIC

(G) F 1

965

MOL. WT.= 18.990 BLOCK= 1248 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 18.860 KEY = 236

FITS FOR NOTS RMS = 0.001488

1 9 0 0 0 0 0 0 0 0 0 FLUORINE, MONATOMIC (G) 10J 965 236
 +5.0312166E+0-3.6209583E-2+7.3420777E-3-5.0200056E-4 400 6000 11J 965 236
 +7.6263427E-2+1.7582824E+1+4.4349617E+1+1.8859985E+1F (G) 12J 965 236

FITS FOR EST RMS LOW = 0.001265 RMS HIGH = 0.001932

1 9 0 0 0 0 0 0 0 0 0 FLUORINE, MONATOMIC (G) 10F
 +188599+5+136827+5+500753+1-123770-4+813880+5+497909+2 4003000J 96511F
 +188599+5+136844+5+500021+1-462705-5-684160+5+497909+230006000J 96512F

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	ES	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.015	400	5.361	39.505	0.550	39.486	0.019	0.542	0.008	39.484	0.021	0.542	0.008
0.003	600	5.218	41.650	1.607	41.652	-0.002	1.608	-0.001	41.653	-0.003	1.610	-0.003
0.003	800	5.133	43.138	2.641	43.140	-0.002	2.642	-0.001	43.140	-0.002	2.643	-0.002
0.001	1000	5.083	44.277	3.663	44.278	-0.001	3.662	0.001	44.278	-0.001	3.663	0.000
0.000	1200	5.052	45.201	4.676	45.201	0.000	4.675	0.001	45.201	-0.000	4.675	0.001
0.000	1400	5.032	45.978	5.684	45.978	-0.000	5.683	0.001	45.978	-0.000	5.683	0.001
0.000	1600	5.018	46.649	6.689	46.649	-0.000	6.688	0.001	46.649	-0.000	6.688	0.001
0.000	1800	5.009	47.240	7.692	47.240	0.000	7.691	0.001	47.240	0.000	7.691	0.001
0.000	2000	5.001	47.767	8.693	47.767	-0.000	8.692	0.001	47.767	-0.000	8.693	0.000
0.000	2200	4.996	48.244	9.692	48.244	0.000	9.692	-0.000	48.244	0.000	9.693	-0.001
0.001	2400	4.992	48.678	10.691	48.679	-0.001	10.691	-0.000	48.678	-0.000	10.692	-0.001
0.001	2600	4.988	49.078	11.689	49.078	-0.000	11.690	-0.001	49.078	0.000	11.689	-0.000
0.000	2800	4.986	49.447	12.687	49.448	-0.001	12.687	-0.000	49.447	-0.000	12.687	0.000
0.000	3000	4.984	49.791	13.683	49.792	-0.001	13.684	-0.001	49.791	0.000	13.683	0.000
0.008	3000	4.984	49.791	13.683	49.792	-0.001	13.684	-0.001	49.791	0.000	13.684	-0.001
0.001	3200	4.982	50.113	14.680	50.113	-0.000	14.681	-0.001	50.112	0.001	14.680	-0.000
0.001	3400	4.980	50.415	15.676	50.415	-0.000	15.677	-0.001	50.414	0.001	15.676	0.000
0.003	3600	4.979	50.699	16.672	50.700	-0.001	16.672	-0.000	50.699	0.000	16.672	0.000
0.004	3800	4.978	50.968	17.668	50.969	-0.001	17.668	-0.000	50.968	0.000	17.667	0.001
0.004	4000	4.977	51.224	18.663	51.224	-0.000	18.663	-0.000	51.223	0.001	18.663	0.000
0.002	4200	4.976	51.467	19.659	51.467	0.000	19.659	0.000	51.466	0.001	19.658	0.001
0.002	4400	4.975	51.698	20.654	51.698	-0.000	20.654	0.000	51.697	0.001	20.654	0.000
0.000	4600	4.975	51.919	21.649	51.920	-0.001	21.649	0.000	51.919	0.000	21.649	0.000
0.001	4800	4.974	52.131	22.644	52.131	-0.000	22.644	0.000	52.130	0.001	22.644	0.000
0.001	5000	4.974	52.334	23.639	52.334	-0.000	23.639	0.000	52.334	0.000	23.639	0.000
0.001	5200	4.973	52.529	24.633	52.529	-0.000	24.633	-0.000	52.529	0.000	24.634	-0.001
0.001	5400	4.973	52.717	25.628	52.717	-0.000	25.628	0.000	52.716	0.001	25.628	-0.000
0.000	5600	4.973	52.898	26.623	52.898	0.000	26.623	0.000	52.897	0.001	26.623	0.000
0.001	5800	4.972	53.072	27.617	53.072	-0.000	27.617	-0.000	53.072	0.000	27.617	-0.000
0.003	6000	4.972	53.241	28.612	53.241	-0.000	28.612	0.000	53.240	0.001	28.611	0.001

HYDROGEN OXYFLUORIDE (G) F 1H 10 1 965
 MOL. WT.= 36.000 BLOCK= 1261 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -31.000 KEY = 238
 FITS FOR NOTS RMS = 0.018294
 1 1 1 8 1 9 0 0 0 0 0 HYDROGEN OXYFLUORIDE (G) 10J 965 238
 +1.0595363E+1+1.7996215E+0-3.6038160E-1+2.5005206E-2 400 6000 11J 965 238
 -6.9610595E-1-3.6091690E+1+6.3676025E+1-3.1000000E+1FHO(G) 12J 965 238

FITS FOR EST RMS LOW = 0.033032 RMS HIGH = 0.004302
 1 1 1 8 1 9 0 0 0 0 0 HYDROGEN OXYFLUORIDE (G) 10FHO
 -310000+5+323113+5+117383+2+618516-3-933632+6+793629+2 4003000J 96511FHO
 -310000+5+322966+5+139226+2-401673-5-523801+7+793629+230006000J 96512FHO

R	-----NOTS-----										-----EST-----			
	T	CP	S	H	SC	ES	HC	DH	SC	DS	HC	DH		
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		
.100	400	8.876	56.477	0.876	56.834	-0.357	1.023	-0.147	56.969	-0.492	1.081	-0.205		
.013	600	9.904	60.278	2.758	60.247	0.031	2.724	0.034	60.231	0.047	2.712	0.046		
.035	800	10.668	63.238	4.819	63.184	0.054	4.772	0.047	63.165	0.073	4.757	0.062		
.022	1000	11.248	65.683	7.013	65.652	0.031	6.986	0.027	65.645	0.038	6.983	0.030		
.004	1200	11.708	67.776	9.310	67.764	0.012	9.304	0.006	67.766	0.010	9.311	-0.001		
.010	1400	12.076	69.609	11.690	69.608	0.001	11.697	-0.007	69.613	-0.004	11.708	-0.019		
.015	1600	12.372	71.242	14.135	71.244	-0.002	14.148	-0.013	71.249	-0.007	14.158	-0.023		
.012	1800	12.610	72.713	16.635	72.715	-0.002	16.647	-0.012	72.717	-0.004	16.651	-0.016		
.006	2000	12.801	74.052	19.176	74.052	-0.000	19.185	-0.009	74.050	0.002	19.182	-0.006		
.003	2200	12.956	75.280	21.753	75.278	0.002	21.757	-0.004	75.272	0.008	21.747	0.006		
.009	2400	13.083	76.413	24.357	76.409	0.004	24.357	0.000	76.402	0.011	24.344	0.013		
.010	2600	13.188	77.464	26.984	77.459	0.005	26.981	0.003	77.453	0.011	26.971	0.013		
.003	2800	13.275	78.445	29.631	78.439	0.006	29.626	0.005	78.437	0.008	29.627	0.004		
.013	3000	13.347	79.363	32.293	79.357	0.006	32.288	0.005	79.363	0.000	32.311	-0.018		
.003	3000	13.347	79.363	32.293	79.357	0.006	32.288	0.005	79.363	0.000	32.297	-0.004		
.000	3200	13.409	80.227	34.969	80.221	0.006	34.964	0.005	80.225	0.002	34.970	-0.001		
.001	3400	13.461	81.041	37.656	81.036	0.005	37.653	0.003	81.040	0.001	37.655	0.001		
.001	3600	13.506	81.812	40.353	81.807	0.005	40.352	0.001	81.810	0.002	40.351	0.002		
.001	3800	13.544	82.543	43.058	82.539	0.004	43.059	-0.001	82.541	0.002	43.056	0.002		
.001	4000	13.577	83.239	45.770	83.235	0.004	45.773	-0.003	83.237	0.002	45.769	0.001		
.001	4200	13.606	83.902	48.489	83.898	0.004	48.492	-0.003	83.900	0.002	48.488	0.001		
.001	4400	13.632	84.535	51.213	84.532	0.003	51.217	-0.004	84.534	0.001	51.212	0.001		
.000	4600	13.655	85.142	53.941	85.138	0.004	53.945	-0.004	85.140	0.002	53.941	-0.000		
.000	4800	13.674	85.723	56.674	85.720	0.003	56.676	-0.002	85.722	0.001	56.675	-0.001		
.001	5000	13.692	86.282	59.411	86.278	0.004	59.411	0.000	86.281	0.001	59.411	-0.000		
.000	5200	13.708	86.819	62.151	86.815	0.004	62.149	0.002	86.818	0.001	62.152	-0.001		
.000	5400	13.722	87.337	64.894	87.332	0.005	64.890	0.004	87.336	0.001	64.895	-0.001		
.000	5600	13.735	87.836	67.640	87.831	0.005	67.636	0.004	87.835	0.001	67.640	0.000		
.000	5800	13.746	88.318	70.388	88.314	0.004	70.387	0.001	88.317	0.001	70.388	0.000		
.001	6000	13.757	88.785	73.138	88.781	0.004	73.144	-0.006	88.783	0.002	73.137	0.001		

FLUOROSILANE (G) F 1H 3SI 1
 MOL. WT. = 50.100 BLOCK= 1267 NO. POINT = 62
 ATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -105.000 KEY = 239
 ITS FOR NOTS RMS = 0.038510

1260

LITH
 MOI
 DAT2
 FITS

1 1 9 1 14 0 0 0 0 0 FLUCROSILANE (G) 10J1260 239
 2025527E+1+2.2470397E+0-4.7658455E-1+3.4457474E-2 400 6000 11J1260 239
 3630371E+0-1.1823297E+2+7.3568634E+1-1.0500000E+2FH3SI (G) 12J1260 239

1 9 1
 +8.4738
 +3.1036

ITS FOR EST RMS LOW = 0.061647 RMS HIGH = 0.007658

FITS

1 1 9 1 14 0 0 0 0 0 FLUOROSILANE (G) 10FH3SI
 5000+6+601907+5+234323+2+738162-3-263636+7+102817+3 4003000J126011FH3SI
 5000+6+601681+5+259839+2-228088-4-727603+7+102817+330006000J126012FH3SI

1 9 1
 -147449
 -147449

-----NOTS-----

-----EST-----

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C
1	13.730	60.711	1.280	61.633	-0.922	1.655	-0.375	61.777	-1.066	1.716	-0.436	400	11
0	17.213	66.985	4.398	66.864	0.121	4.292	0.106	66.849	0.136	4.279	0.119	500	11
0	19.563	72.280	8.091	72.151	0.129	7.982	0.109	72.135	0.145	7.971	0.120	600	12
0	21.173	76.829	12.174	76.770	0.059	12.129	0.045	76.770	0.059	12.131	0.043	700	12
0	22.285	80.794	16.527	80.778	0.016	16.528	-0.001	80.787	0.007	16.541	-0.014	800	13
0	23.065	84.291	21.066	84.293	-0.002	21.090	-0.024	84.304	-0.013	21.105	-0.039	900	13
0	23.625	87.410	25.738	87.415	-0.005	25.767	-0.029	87.423	-0.013	25.778	-0.040	1000	14
0	24.037	90.217	30.506	90.219	-0.002	30.530	-0.024	90.223	-0.006	30.532	-0.026	1100	14
0	24.347	92.767	35.346	92.764	0.003	35.361	-0.015	92.762	0.005	35.352	-0.006	1200	15
0	24.586	95.099	40.241	95.091	0.008	40.245	-0.004	95.086	0.013	40.229	0.012	1300	15
0	24.772	97.247	45.177	97.235	0.012	45.174	0.003	97.229	0.018	45.155	0.022	1400	15
0	24.920	99.235	50.147	99.222	0.013	50.139	0.008	99.218	0.017	50.126	0.021	1500	16
0	25.040	101.087	55.143	101.073	0.014	55.133	0.010	101.075	0.012	55.139	0.004	1600	16
0	25.138	102.818	60.162	102.804	0.014	60.151	0.011	102.818	0.000	60.191	-0.029	1700	16
0	25.138	102.818	60.162	102.804	0.014	60.151	0.011	102.818	0.000	60.168	-0.006	1800	17
0	25.219	104.443	65.198	104.430	0.013	65.190	0.008	104.441	0.002	65.199	-0.001	1900	17
0	25.287	105.974	70.248	105.962	0.012	70.244	0.004	105.972	0.002	70.247	0.001	2000	17
0	25.344	107.421	75.312	107.410	0.011	75.311	0.001	107.418	0.003	75.309	0.003	2100	17
0	25.393	108.793	80.386	108.783	0.010	80.389	-0.003	108.790	0.003	80.383	0.003	2200	18
0	25.435	110.096	85.469	110.087	0.009	85.474	-0.005	110.093	0.003	85.466	0.003	2300	18
0	25.472	111.338	90.559	111.329	0.009	90.566	-0.008	111.335	0.003	90.557	0.002	2400	18
0	25.503	112.524	95.657	112.515	0.009	95.664	-0.007	112.521	0.003	95.656	0.001	2500	18
0	25.531	113.658	100.760	113.649	0.009	100.766	-0.006	113.656	0.002	100.760	-0.000		
0	25.555	114.745	105.869	114.735	0.010	105.872	-0.003	114.743	0.002	105.869	-0.001		
0	25.577	115.789	110.982	115.778	0.011	110.982	0.000	115.787	0.002	110.983	-0.001		
0	25.596	116.792	116.100	116.781	0.011	116.095	0.005	116.790	0.002	116.101	-0.001		
0	25.613	117.759	121.221	117.747	0.012	121.214	0.007	117.757	0.002	121.222	-0.001		
0	25.628	118.690	126.345	118.679	0.011	126.339	0.006	118.688	0.002	126.345	-0.000		
0	25.642	119.590	131.472	119.579	0.011	131.470	0.002	119.588	0.002	131.471	0.001		
0	25.655	120.459	136.601	120.451	0.008	136.611	-0.010	120.457	0.002	136.599	0.002		

LITHIUM FLUORIDE (L) F 1LI 1 0 0 0 0 1268
 MOL. WT.= 25.930 BLOCK= 1276 NO. POINT = 29
 DATA FROM 298 TO 3000 K HFORM(KCAL/(MOLE)) = -143.081 KEY = 241
 FITS FOR NOTS RMS = 0.000702
 9 1 71 0 0 0 0 0 0 0 LITHIUM FLUORIDE (L) 20J1268 241
 .5307383E+1+.5893231E-2-3.3779494E-2+6.0432627E-3 400 3000 21J1268 241
 .1433105E-3-1.4763954E+2+2.8789398E+1-1.4308099E+2FLI(L) 22J1268 241

LITHIUM
 MOL.
 DATA 1
 FITS 1
 1 9 1
 +8.86717
 -2.14630

FITS FOR EST RMS LOW = 0.000223 RMS HIGH = 0.000223
 9 1 71 0 0 0 0 0 0 0 LITHIUM FLUORIDE (L) 20FLI*
 43080+6+414459+5+153425+2-900152-6-188800+4+456849+2 4003000J126821FLI*
 43080+6+414459+5+153425+2-900152-6-188800+4+456849+2 4003000J126822FLI*

FITS 1
 1 9 1
 -8144994
 -8144994

-----NOTS-----												-----EST-----											
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	CP	S	H	SC	DS	HC	DH	T	CP	S	H
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K	C/M-K	KC/M
400	15.340	14.776	1.562	14.775	0.001	1.561	0.001	14.779	-0.003	1.563	-0.001	400	15.340	14.776	1.562	14.775	0.001	1.561	0.001	400	15.340	14.776	1.562
600	15.340	20.996	4.630	20.995	0.001	4.629	0.001	20.997	-0.001	4.630	-0.000	600	15.340	20.996	4.630	20.995	0.001	4.629	0.001	600	15.340	20.996	4.630
800	15.340	25.409	7.698	25.409	0.000	7.697	0.001	25.409	-0.000	7.698	0.000	800	15.340	25.409	7.698	25.409	0.000	7.697	0.001	800	15.340	25.409	7.698
1000	15.340	28.832	10.766	28.832	0.000	10.765	0.001	28.832	-0.000	10.766	0.000	1000	15.340	28.832	10.766	28.832	0.000	10.765	0.001	1000	15.340	28.832	10.766
1200	15.340	31.629	13.834	31.629	-0.000	13.834	0.000	31.629	0.000	13.834	0.000	1200	15.340	31.629	13.834	31.629	-0.000	13.834	0.000	1200	15.340	31.629	13.834
1400	15.340	33.994	16.902	33.994	-0.000	16.902	-0.000	33.994	0.000	16.902	0.000	1400	15.340	33.994	16.902	33.994	-0.000	16.902	-0.000	1400	15.340	33.994	16.902
1600	15.340	36.042	19.970	36.043	-0.001	19.970	-0.000	36.042	-0.000	19.970	0.000	1600	15.340	36.042	19.970	36.043	-0.001	19.970	-0.000	1600	15.340	36.042	19.970
1800	15.340	37.849	23.038	37.849	-0.000	23.039	-0.001	37.849	0.000	23.038	0.000	1800	15.340	37.849	23.038	37.849	-0.000	23.039	-0.001	1800	15.340	37.849	23.038
2000	15.340	39.465	26.106	39.466	-0.001	26.107	-0.001	39.465	-0.000	26.106	0.000	2000	15.340	39.465	26.106	39.466	-0.001	26.107	-0.001	2000	15.340	39.465	26.106
2200	15.340	40.927	29.174	40.928	-0.001	29.174	-0.000	40.927	-0.000	29.174	-0.000	2200	15.340	40.927	29.174	40.928	-0.001	29.174	-0.000	2200	15.340	40.927	29.174
2400	15.340	42.262	32.242	42.262	-0.000	32.242	-0.000	42.262	0.000	32.242	-0.000	2400	15.340	42.262	32.242	42.262	-0.000	32.242	-0.000	2400	15.340	42.262	32.242
2600	15.340	43.490	35.310	43.490	0.000	35.310	0.000	43.490	0.000	35.310	-0.000	2600	15.340	43.490	35.310	43.490	0.000	35.310	0.000	2600	15.340	43.490	35.310
2800	15.340	44.627	38.378	44.627	0.000	38.378	0.000	44.627	0.000	38.378	0.000	2800	15.340	44.627	38.378	44.627	0.000	38.378	0.000	2800	15.340	44.627	38.378
3000	15.340	45.685	41.446	45.685	-0.000	41.446	-0.000	45.685	0.000	41.446	0.000	3000	15.340	45.685	41.446	45.685	-0.000	41.446	-0.000	3000	15.340	45.685	41.446

400 7.
 600 8.
 800 8.
 1000 8.
 1200 8.
 1400 8.
 1600 9.
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 2400 9.
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LITHIUM FLUORIDE (G) F 1LI 1 0 0 0 0 1268
MOL. WT.= 25.930 BLOCK= 1279 NO. POINT = 62
DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -81.450 KEY = 242
FITS FOR NOTS RMS = 0.002087
1 9 1 71 0 0 0 0 0 0 0 LITHIUM FLUORIDE (G) 10J1268 242
+8.8671770E+0+1.8414509E-1-1.0932087E-2+8.4462505E-4 400 6000 11J1268 242
-2.1463012E-1-8.4751235E+1+5.7515258E+1-8.1449996E+1FLI(G) 12J1268 242

FITS FOR EST RMS LOW = 0.001842 RMS HIGH = 0.003156
1 9 1 71 0 0 0 0 0 0 0 LITHIUM FLUORIDE (G) 10FLI
-814499+5+241196+5+889116+1+152730-3-217200+6+677799+2 4003000J126811FLI
-814499+5+241213+5+901072+1+126264-3-723088+6+677799+230006000J126812FLI

-----NOTS-----													-----EST-----				K	C
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH							
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M							
400	7.879	50.096	0.783	50.134	-0.038	0.797	-0.014	50.135	-0.039	0.798	-0.015	11						
600	8.391	53.399	2.415	53.392	0.007	2.409	0.006	53.393	0.006	2.411	0.004	12						
800	8.660	55.854	4.123	55.848	0.006	4.118	0.005	55.850	0.004	4.120	0.003	13						
1000	8.816	57.804	5.872	57.802	0.002	5.869	0.003	57.803	0.001	5.871	0.001	13						
1200	8.919	59.421	7.646	59.420	0.001	7.645	0.001	59.422	-0.001	7.647	-0.001	13						
1400	8.994	60.802	9.438	60.801	0.001	9.437	0.001	60.803	-0.001	9.439	-0.001	13						
1600	9.052	62.007	11.243	62.007	0.000	11.243	0.000	62.007	-0.000	11.244	-0.001	13						
1800	9.102	63.076	13.058	63.076	0.000	13.058	-0.000	63.076	-0.000	13.059	-0.001	13						
2000	9.145	64.037	14.883	64.037	-0.000	14.883	0.000	64.037	-0.000	14.883	0.000	13						
2200	9.184	64.911	16.716	64.910	0.001	16.716	0.000	64.911	0.000	16.715	0.001	13						
2400	9.220	65.711	18.556	65.711	-0.000	18.556	-0.000	65.711	-0.000	18.556	0.000	13						
2600	9.255	66.451	20.404	66.451	0.000	20.404	0.000	66.451	0.000	20.403	0.001	13						
2800	9.288	67.138	22.258	67.138	0.000	22.258	-0.000	67.138	0.000	22.258	-0.000	13						
3000	9.320	67.780	24.119	67.780	0.000	24.119	-0.000	67.780	0.000	24.120	-0.001	13						
3000	9.320	67.780	24.119	67.780	0.000	24.119	-0.000	67.780	0.000	24.121	-0.002	13						
3200	9.351	68.382	25.986	68.382	-0.000	25.986	-0.000	68.382	0.000	25.987	-0.001	13						
3400	9.381	68.950	27.859	68.950	0.000	27.860	-0.001	68.949	0.001	27.859	0.000	13						
3600	9.411	69.487	29.739	69.487	-0.000	29.739	0.000	69.486	0.001	29.738	0.001	13						
3800	9.441	69.997	31.624	69.997	0.000	31.624	-0.000	69.996	0.001	31.623	0.001	13						
4000	9.470	70.482	33.515	70.482	0.000	33.515	-0.000	70.481	0.001	33.514	0.001	13						
4200	9.499	70.944	35.412	70.944	-0.000	35.412	0.000	70.944	0.000	35.411	0.001	13						
4400	9.527	71.387	37.314	71.387	0.000	37.314	-0.000	71.386	0.001	37.314	0.000	13						
4600	9.556	71.811	39.222	71.811	0.000	39.222	-0.001	71.810	0.001	39.222	-0.000	13						
4800	9.584	72.218	41.136	72.218	-0.000	41.136	-0.000	72.218	0.000	41.137	-0.001	13						
5000	9.612	72.610	43.056	72.610	0.000	43.056	0.000	72.610	0.000	43.056	-0.000	13						
5200	9.640	72.988	44.981	72.988	0.000	44.981	0.000	72.987	0.001	44.982	-0.001	13						
5400	9.669	73.352	46.912	73.352	0.000	46.912	0.000	73.352	0.000	46.913	-0.001	13						
5600	9.696	73.704	48.849	73.704	0.000	48.848	0.001	73.704	0.000	48.849	0.000	13						
5800	9.724	74.045	50.791	74.045	0.000	50.791	0.000	74.044	0.001	50.791	0.000							
6000	9.752	74.375	52.738	74.375	0.000	52.739	-0.001	74.374	0.001	52.738	0.000							

LITHIUM OXYFLUORIDE (G) F 1LI 10 1
 MOL. WT.= 41.930 BLOCK= 1285 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -22.000 KEY = 243
 ITS FOR NOTS RMS = 0.003363
 8 1 9 1 71 0 0 0 0 0 LITHIUM OXYFLUORIDE (G) 10J 965 243
 .3771984E+1+.8.7549090E-2-1.9766617E-2+1.5117172E-3 400 6000 11J 965 243
 .8289489E-1-2.7591400E+1+7.3102706E+1-2.2000000E+1FLIO (G) 12J 965 243

965

MAGN
 MOL
 DATA
 FITS
 1 9 1
 +8.9154
 -1.4971

FITS FOR EST RMS LOW = 0.003589 RMS HIGH = 0.004310
 8 1 9 1 71 0 0 0 0 0 LITHIUM OXYFLUORIDE (G) 10FLIO
 20000+5+361333+5+138171+2+300800-4-488304+6+884469+2 4003000J 96511FLIO
 20000+5+361357+5+140147+2-151443-4-128288+7+884469+230006000J 96512FLIO

FITS
 1 9 1
 -530999
 -530999

-----NOTS-----													-----EST-----	
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T		
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C	
500	11.331	61.953	1.104	62.026	-0.073	1.131	-0.027	62.027	-0.074	1.134	-0.030	400	8	
600	12.502	66.800	3.502	66.787	0.013	3.491	0.011	66.788	0.012	3.493	0.009	600	8	
700	13.052	70.481	6.064	70.471	0.010	6.055	0.009	70.472	0.009	6.057	0.007	800	8	
800	13.339	73.427	8.706	73.422	0.005	8.701	0.005	73.424	0.003	8.704	0.002	1000	8	
900	13.505	75.875	11.392	75.873	0.002	11.390	0.002	75.875	0.000	11.393	-0.001	1200	8	
1000	13.609	77.965	14.104	77.964	0.001	14.103	0.001	77.966	-0.001	14.106	-0.002	1400	8	
1100	13.678	79.787	16.833	79.787	0.000	16.833	-0.000	79.788	-0.001	16.835	-0.002	1600	9	
1200	13.725	81.401	19.574	81.401	0.000	19.574	0.000	81.401	0.000	19.575	-0.001	1800	9	
1300	13.760	82.849	22.322	82.849	0.000	22.322	-0.000	82.848	0.001	22.322	-0.000	2000	9	
1400	13.786	84.162	25.077	84.161	0.001	25.077	-0.000	84.161	0.001	25.076	0.001	2200	9	
1500	13.805	85.362	27.836	85.362	0.000	27.836	-0.000	85.361	0.001	27.835	0.001	2400	9	
1600	13.821	86.468	30.599	86.467	0.001	30.599	0.000	86.467	0.001	30.598	0.001	2600	9	
1700	13.833	87.493	33.364	87.492	0.001	33.364	-0.000	87.492	0.001	33.364	-0.000	2800	9	
1800	13.843	88.447	36.132	88.447	0.000	36.132	-0.000	88.447	0.000	36.133	-0.001	3000	9	
1900	13.843	88.447	36.132	88.447	0.000	36.132	-0.000	88.447	0.000	36.136	-0.004	3000	9	
2000	13.851	89.341	38.902	89.341	0.000	38.902	0.000	89.340	0.001	38.903	-0.001	3200	9	
2100	13.858	90.181	41.673	90.181	0.000	41.673	0.000	90.179	0.002	41.672	0.001	3400	9	
2200	13.864	90.973	44.445	90.973	0.000	44.445	-0.000	90.971	0.002	44.443	0.002	3600	9	
2300	13.868	91.723	47.218	91.723	0.000	47.219	-0.001	91.721	0.002	47.216	0.002	3800	9	
2400	13.873	92.434	49.992	92.434	-0.000	49.993	-0.001	92.432	0.002	49.991	0.001	4000	9	
2500	13.876	93.111	52.767	93.111	-0.000	52.768	-0.001	93.109	0.002	52.766	0.001	4200	9	
2600	13.879	93.757	55.542	93.757	0.000	55.543	-0.001	93.755	0.002	55.542	0.000	4400	9	
2700	13.882	94.374	58.319	94.374	0.000	58.319	0.000	94.372	0.002	58.318	0.001	4600	9	
2800	13.884	94.965	61.095	94.964	0.001	61.095	-0.000	94.963	0.002	61.096	-0.001	4800	9	
2900	13.886	95.532	63.872	95.531	0.001	63.872	-0.000	95.530	0.002	63.873	-0.001	5000	9	
3000	13.888	96.076	66.650	96.076	0.000	66.649	0.001	96.075	0.001	66.651	-0.001	5200	9	
3100	13.890	96.600	69.428	96.600	0.000	69.427	0.001	96.599	0.001	69.428	-0.000	5400	9	
3200	13.891	97.106	72.206	97.105	0.001	72.205	0.001	97.104	0.002	72.206	-0.000	5600	9	
3300	13.893	97.593	74.984	97.593	0.000	74.984	-0.000	97.592	0.001	74.984	0.000	5800	9	
3400	13.894	98.064	77.763	98.064	0.000	77.763	-0.000	98.062	0.002	77.762	0.001	6000	9	

MAGNESIUM MONOFLUORIDE (G) F 1MG 1 0 0 0 0 367
 MOL. WT.= 43.310 BLOCK= 1292 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -53.100 KEY = 244
 FITS FOR NOTS RMS = 0.001701
 1 9 1 12 0 0 0 0 0 0 0 MAGNESIUM MONOFLUORIDE (G) 10J 367 244
 +8.9154100E+0+1.1186641E-1-4.7954842E-3+4.0886318E-4 400 6000 11J 367 244
 -1.4971923E-1-5.6228775E+1+6.2812667E+1-5.3099990E+1FMG(G) 12J 367 244

FITS FOR EST RMS LOW = 0.001030 RMS HIGH = 0.003049
 1 9 1 12 0 0 0 0 0 0 0 MAGNESIUM MONOFLUORIDE (G) 10FMG
 -530999+5+241355+5+892420+1+986815-4-150208+6+729329+2 4003000J 36711FMG
 -530999+5+241374+5+900124+1+844508-4-557296+6+729329+230006000J 36712FMG

T	-----NOTS-----								-----EST-----			
	K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
30	400	8.168	55.136	0.814	55.156	-0.020	0.821	-0.007	55.156	-0.020	0.822	-0.008
09	600	8.574	58.536	2.493	58.533	0.003	2.490	0.003	58.533	0.003	2.491	0.002
07	800	8.763	61.031	4.229	61.028	0.003	4.226	0.003	61.029	0.002	4.228	0.001
02	1000	8.868	62.999	5.993	62.997	0.002	5.991	0.002	62.998	0.001	5.993	0.000
01	1200	8.936	64.622	7.774	64.621	0.001	7.772	0.002	64.622	-0.000	7.774	-0.000
02	1400	8.985	66.004	9.566	66.003	0.001	9.565	0.001	66.004	0.000	9.567	-0.001
02	1600	9.024	67.206	11.367	67.206	0.000	11.367	0.000	67.206	0.000	11.368	-0.001
01	1800	9.056	68.271	13.175	68.271	0.000	13.175	-0.000	68.271	0.000	13.176	-0.001
00	2000	9.085	69.226	14.990	69.226	-0.000	14.989	0.001	69.226	-0.000	14.990	0.000
01	2200	9.111	70.094	16.809	70.094	0.000	16.809	-0.000	70.093	0.001	16.809	-0.000
01	2400	9.135	70.887	18.634	70.887	-0.000	18.634	-0.000	70.887	-0.000	18.634	0.000
01	2600	9.158	71.620	20.463	71.620	0.000	20.464	-0.001	71.619	0.001	20.463	-0.000
00	2800	9.180	72.299	22.297	72.299	-0.000	22.298	-0.001	72.299	0.000	22.297	-0.000
01	3000	9.202	72.933	24.135	72.933	-0.000	24.136	-0.001	72.933	0.000	24.136	-0.001
04	3000	9.202	72.933	24.135	72.933	-0.000	24.136	-0.001	72.933	0.000	24.137	-0.002
01	3200	9.223	73.528	25.978	73.528	0.000	25.978	-0.000	73.527	0.001	25.978	-0.000
01	3400	9.243	74.087	27.825	74.088	-0.001	27.825	-0.000	74.087	0.000	27.824	0.001
02	3600	9.264	74.616	29.675	74.616	-0.000	29.676	-0.001	74.615	0.001	29.674	0.001
02	3800	9.284	75.118	31.530	75.118	0.000	31.530	-0.000	75.117	0.001	31.529	0.001
01	4000	9.303	75.594	33.389	75.595	-0.001	33.389	-0.000	75.593	0.001	33.388	0.001
01	4200	9.323	76.049	35.251	76.049	0.000	35.252	-0.001	76.048	0.001	35.251	0.000
00	4400	9.343	76.483	37.118	76.483	-0.000	37.118	-0.000	76.482	0.001	37.118	0.000
01	4600	9.362	76.899	38.988	76.899	0.000	38.988	-0.000	76.898	0.001	38.988	-0.000
01	4800	9.381	77.298	40.863	77.298	0.000	40.863	0.000	77.297	0.001	40.863	0.000
01	5000	9.400	77.681	42.741	77.681	0.000	42.741	0.000	77.680	0.001	42.741	-0.000
01	5200	9.420	78.050	44.623	78.050	0.000	44.622	0.000	78.049	0.001	44.623	-0.000
00	5400	9.439	78.406	46.509	78.406	0.000	46.508	0.001	78.405	0.001	46.509	-0.000
00	5600	9.458	78.749	48.398	78.749	-0.000	48.398	-0.000	78.749	0.000	48.399	-0.001
00	5800	9.477	79.082	50.292	79.082	0.000	50.292	0.000	79.081	0.001	50.292	0.000
01	6000	9.496	79.403	52.189	79.403	-0.000	52.189	-0.000	79.402	0.001	52.188	0.001

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NITROGEN MONOFLUORIDE

(G) F 1N 1

665

MOL. WT. = 33.000 BLOCK = 1298 NO. POINT = 62

ATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 59.500 KEY = 245

ITS FOR NOTS RMS = 0.002788

7 1 9 0 0 0 0 0 0 0 NITROGEN MONOFLUORIDE (G) 10J 665 245
7887296E+0+2.0068693E-1-2.1263021E-2+1.5977937E-3 400 6000 11J 665 245
7801513E-1+5.6056091E+1+6.0779754E+1+5.9500000E+1FN (G) 12J 665 245

ITS FOR EST RMS LOW = 0.003544 RMS HIGH = 0.003045

7 1 9 0 0 0 0 0 0 0 NITROGEN MONOFLUORIDE (G) 10FN
5000+5+237606+5+884297+1+136830-3-286384+6+709719+2 4003000J 66511FN
5000+5+237612+5+900963+1+950533-4-844848+6+709719+230006000J 66512FN

DH

KC/M

-0.008

0.002

0.001

0.000

-0.000

-0.001

-0.001

-0.001

0.000

-0.000

0.000

-0.000

-0.000

-0.001

-0.002

-0.000

0.001

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0.001

-----NOTS-----

-----EST-----

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
0	7.604	53.607	0.756	53.674	-0.067	0.782	-0.026	53.678	-0.071	0.785	-0.029	40
0	8.156	56.804	2.337	56.793	0.011	2.327	0.010	56.793	0.011	2.328	0.009	60
0	8.480	59.199	4.003	59.190	0.009	3.995	0.008	9.191	0.008	3.997	0.006	80
0	8.674	61.113	5.720	61.109	0.004	5.716	0.004	61.111	0.002	5.718	0.002	100
0	8.799	62.707	7.468	62.705	0.002	7.467	0.001	62.706	0.001	7.469	-0.001	120
0	8.887	64.070	9.237	64.069	0.001	9.238	-0.001	64.071	-0.001	9.239	-0.002	140
0	8.953	65.261	11.022	65.261	0.000	11.022	-0.000	65.262	-0.001	11.023	-0.001	160
0	9.006	66.319	12.818	66.318	0.001	12.818	-0.000	66.319	0.000	12.819	-0.001	180
0	9.050	67.270	14.623	67.269	0.001	14.624	-0.001	67.270	0.000	14.623	-0.000	200
0	9.088	68.134	16.437	68.134	0.000	16.437	-0.000	68.133	0.001	16.436	0.001	220
0	9.122	68.927	18.258	68.926	0.001	18.258	-0.000	68.926	0.001	18.257	0.001	240
0	9.154	69.658	20.086	69.657	0.001	20.086	0.000	69.657	0.001	20.085	0.001	260
0	9.183	70.338	21.920	70.337	0.001	21.919	0.001	70.337	0.001	21.920	0.000	280
0	9.211	70.972	23.759	70.971	0.001	23.759	0.000	70.972	0.000	23.761	-0.002	300
0	9.211	70.972	23.759	70.971	0.001	23.759	0.000	70.972	0.000	23.761	-0.002	300
0	9.237	71.567	25.604	71.567	0.000	25.604	-0.000	71.567	0.000	25.605	-0.001	320
0	9.263	72.128	27.454	72.128	0.000	27.454	-0.000	72.127	0.001	27.454	0.000	340
0	9.288	72.658	29.309	72.658	0.000	29.310	-0.001	72.657	0.001	29.308	0.001	360
0	9.312	73.161	31.169	73.161	0.000	31.170	-0.001	73.160	0.001	31.168	0.001	380
0	9.336	73.639	33.034	73.639	0.000	33.035	-0.001	73.638	0.001	33.033	0.001	400
0	9.359	74.095	34.904	74.095	-0.000	34.904	-0.000	74.095	0.000	34.903	0.001	420
0	9.383	74.531	36.778	74.531	0.000	36.778	-0.000	74.531	0.000	36.778	0.000	440
0	9.405	74.949	38.657	74.948	0.001	38.657	0.000	74.948	0.001	38.657	0.000	460
0	9.428	75.350	40.540	75.349	0.001	40.540	0.000	75.349	0.001	40.540	-0.000	480
0	9.450	75.735	42.428	75.734	0.001	42.428	0.000	75.734	0.001	42.428	-0.000	500
0	9.473	76.106	44.320	76.105	0.001	44.320	0.000	76.105	0.001	44.321	-0.001	520
0	9.495	76.464	46.217	76.463	0.001	46.216	0.001	76.463	0.001	46.217	-0.000	540
0	9.517	76.810	48.118	76.809	0.001	48.117	0.001	76.809	0.001	48.118	-0.000	560
0	9.539	77.144	50.024	77.143	0.001	50.023	0.001	77.143	0.001	50.023	0.001	580
0	9.560	77.468	51.933	77.467	0.001	51.934	-0.001	77.467	0.001	51.933	0.000	600

NITROSYL FLUORIDE (G) F 1N 10 1 661
 MOL. WT. = 49.000 BLOCK = 1304 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = -15.700 KEY = 246
 FITS FOR NOTS RMS = 0.008980
 1 7 1 8 1 9 0 0 0 0 0 NITROSYL FLUORIDE (G) 10J 661 246
 +1.3130489E+1+4.6985650E-1-1.0141938E-1+7.4456110E-3 400 6000 11J 661 246
 -6.5327453E-1-2.1483169E+1+7.2325851E+1-1.5699999E+1FNO(G) 12J 661 246

FITS FOR EST RMS LOW = 0.014125 RMS HIGH = 0.004199
 1 7 1 8 1 9 0 0 0 0 0 NITROSYL FLUORIDE (G) 10FNO
 -156999+5+351863+5+134242+2+151338-3-709488+6+878109+2 4003000J 66111FNO
 -156999+5+351831+5+139948+2-124050-4-196412+7+878109+230006000J 66112FNO

M	-----NOTS-----												-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M				
29	400	10.654	62.291	1.048	62.516	-0.225	1.138	-0.090	62.547	-0.256	1.152	-0.104				
09	600	11.686	66.822	3.290	66.790	0.032	3.261	0.029	66.788	0.034	3.260	0.030				
06	800	12.352	70.282	5.698	70.251	0.031	5.672	0.026	70.249	0.033	5.671	0.027				
02	1000	12.784	73.088	8.215	73.074	0.014	8.204	0.011	73.076	0.012	8.206	0.009				
01	1200	13.069	75.446	10.802	75.442	0.004	10.802	0.000	75.445	0.001	10.805	-0.003				
02	1400	13.263	77.476	13.437	77.476	0.000	13.441	-0.004	77.479	-0.003	13.445	-0.008				
01	1600	13.399	79.256	16.103	79.257	-0.001	16.109	-0.006	79.260	-0.004	16.112	-0.009				
01	1800	13.498	80.840	18.794	80.840	-0.001	18.798	-0.004	80.842	-0.002	18.799	-0.005				
00	2000	13.571	82.267	21.501	82.266	0.001	21.503	-0.002	82.266	0.001	21.502	-0.001				
01	2200	13.626	83.563	24.221	83.561	0.002	24.221	-0.001	83.560	0.003	24.218	0.003				
01	2400	13.670	84.750	26.951	84.748	0.002	26.950	0.001	84.747	0.003	26.946	0.005				
01	2600	13.704	85.846	29.688	85.843	0.003	29.686	0.002	85.842	0.004	29.684	0.004				
00	2800	13.731	86.862	32.432	86.859	0.003	32.430	0.002	86.860	0.002	32.431	0.001				
02	3000	13.754	87.811	35.180	87.808	0.003	35.178	0.002	87.811	0.000	35.186	-0.006				
02	3000	13.754	87.811	35.180	87.808	0.003	35.178	0.002	87.811	0.000	35.183	-0.003				
01	3200	13.772	88.699	37.933	88.696	0.003	37.932	0.001	88.698	0.001	37.933	-0.000				
00	3400	13.788	89.534	40.689	89.532	0.002	40.688	0.001	89.533	0.001	40.688	0.001				
01	3600	13.801	90.323	43.448	90.320	0.003	43.448	-0.000	90.322	0.001	43.446	0.002				
01	3800	13.812	91.069	46.209	91.067	0.002	46.210	-0.001	91.068	0.001	46.207	0.002				
01	4000	13.821	91.778	48.972	91.776	0.002	48.974	-0.002	91.777	0.001	48.971	0.001				
01	4200	13.829	92.452	51.737	92.450	0.002	51.739	-0.002	92.451	0.001	51.736	0.001				
00	4400	13.837	93.096	54.504	93.094	0.002	54.506	-0.002	93.095	0.001	54.503	0.001				
00	4600	13.843	93.711	57.272	93.709	0.002	57.273	-0.001	93.710	0.001	57.272	0.000				
00	4800	13.848	94.300	60.041	94.298	0.002	60.041	-0.000	94.300	0.000	60.041	-0.000				
00	5000	13.853	94.866	62.811	94.863	0.003	62.811	0.000	94.865	0.001	62.812	-0.001				
01	5200	13.857	95.409	65.582	95.407	0.002	65.581	0.001	95.409	0.000	65.583	-0.001				
00	5400	13.861	95.932	68.354	95.930	0.002	68.352	0.002	95.932	0.000	68.355	-0.001				
00	5600	13.865	96.436	71.127	96.434	0.002	71.125	0.002	96.436	0.000	71.127	0.000				
01	5800	13.868	96.923	73.900	96.921	0.002	73.900	0.000	96.922	0.001	73.900	0.000				
00	6000	13.871	97.393	76.674	97.391	0.002	76.676	-0.002	97.392	0.001	76.673	0.001				

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SODIUM FLUORIDE

(L)

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1268

MOL. WT. = 41.980 BLOCK = 1314 NO. POINT = 34

DATA FROM 298 TO 3500 K HFORM(KCAL/(MOLE)) = -130.545 KEY = 248

FITS FOR NOTS RMS = 0.073007

1 9 1 11 0 0 0 0 0 0 0 SODIUM FLUORIDE (L) 20J1268 248
 +2.7710510E+1-1.0615655E+1+3.2575063E+0-3.4351301E-1 400 3500 21J1268 248
 -3.4593811E+0-1.4792623E+2+4.0587173E+1-1.3054499E+2FNA(L) 22J1268 248

FITS FOR EST RMS LOW = 0.145157 RMS HIGH = 0.145157

1 9 1 11 0 0 0 0 0 0 0 SODIUM FLUORIDE (L) 20FNA*
 -130544+6+415362+5+176377+2-693376-3-918176+6+509559+2 4003500J126821FNA*
 -130544+6+415362+5+176377+2-693376-3-918176+6+509559+2 4003500J126822FNA*

-----NOTS-----

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TH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
(C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
0.749	400	11.854	20.953	1.178	22.014	-1.061	1.569	-0.391	20.039	0.914	0.732	0.446	400
0.201	600	12.590	25.906	3.626	25.429	0.477	3.323	0.303	25.458	0.448	3.425	0.201	600
0.268	800	13.315	29.624	5.214	29.598	0.026	6.235	-0.021	29.835	-0.211	6.473	-0.259	800
0.091	1000	17.710	33.112	9.365	33.215	-0.103	9.481	-0.116	33.374	-0.262	9.646	-0.281	1000
0.082	1200	16.960	36.269	12.826	36.249	0.020	12.809	0.017	36.311	-0.042	12.868	-0.042	1200
0.123	1400	16.500	38.846	16.168	38.810	0.036	16.131	0.037	38.806	0.040	16.106	0.062	1400
0.059	1600	16.210	41.029	19.437	41.002	0.027	19.414	0.023	40.968	0.061	19.344	0.093	1600
0.005	1800	16.010	42.926	22.658	42.910	0.016	22.653	0.005	42.869	0.057	22.572	0.086	1800
0.021	2000	15.860	44.604	25.844	44.595	0.009	25.851	-0.007	44.562	0.042	25.785	0.059	2000
0.028	2200	15.750	46.111	29.004	46.103	0.008	29.015	-0.011	46.084	0.027	28.980	0.024	2200
0.024	2400	15.670	47.477	32.146	47.468	0.009	32.154	-0.008	47.465	0.012	32.153	-0.007	2400
0.012	2600	15.610	48.729	35.274	48.718	0.011	35.276	-0.002	48.726	0.003	35.305	-0.031	2600
0.004	2800	15.560	49.884	38.391	49.871	0.013	38.388	0.003	49.885	-0.001	38.433	-0.042	2800
0.023	3000	15.520	50.956	41.499	50.943	0.013	41.494	0.005	50.956	0.000	41.536	-0.037	3000
	3200	15.490	51.957	44.599	51.944	0.013	44.597	0.002	51.949	0.008	44.615	-0.016	3200
	3400	15.460	52.895	47.693	52.883	0.012	47.695	-0.002	52.875	0.020	47.668	0.025	3400

SODIUM FLUORIDE (G) P 1NA 1 0 0 0 0 1268
 MOL. WT.= 41.980 BLOCK= 1317 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -69.420 KEY = 249
 FITS FOR NOTS RMS = 0.001768
 9 1 11 0 0 0 0 0 0 0 SODIUM FLUORIDE (G) 10J1268 249
 .9417982E+0+1.6527569E-1-1.0085015E-3+1.2373487E-4 400 6000 11J1268 249
 .3383789E-2-7.2389694E+1+6.2280899E+1-6.9419998E+1FNA(G) 12J1268 249

FLUOR
 MOL.
 DATA F
 FITS F
 1 8 1
 +8.77716
 -2.51617

FITS FOR EST RMS LOW = 0.000657 RMS HIGH = 0.003231
 9 1 11 0 0 0 0 0 0 0 SODIUM FLUORIDE (G) 10FNA
 94199+5+246233+5+893998+1+163740-3-918720+5+726019+2 4003000J126811FNA
 94199+5+246255+5+900377+1+154381-3-497088+6+726019+230006000J126812FNA

FITS F
 1 8 1
 +260000+
 +260000+

-----NOTS-----														-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T					
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/				
400	8.494	54.435	0.851	54.445	-0.010	0.854	-0.003	54.445	-0.010	0.855	-0.004	400	7.				
500	8.789	57.943	2.583	57.942	0.001	2.581	0.002	57.943	-0.000	2.583	0.000	600	8.				
600	8.926	60.493	4.356	60.490	0.003	4.353	0.003	60.492	0.001	4.355	0.001	800	8.				
700	9.010	62.494	6.150	62.492	0.002	6.148	0.002	62.494	0.000	6.150	0.000	1000	8.				
800	9.071	64.142	7.959	64.141	0.001	7.957	0.002	64.142	-0.000	7.958	0.001	1200	8.				
900	9.121	65.545	9.778	65.544	0.001	9.777	0.001	65.545	0.000	9.778	-0.000	1400	8.				
1000	9.166	66.766	11.607	66.765	0.001	11.606	0.001	66.766	0.000	11.607	0.000	1600	9.				
1100	9.206	67.848	13.444	67.847	0.001	13.444	0.000	67.848	0.000	13.444	-0.000	1800	9.				
1200	9.244	68.820	15.289	68.819	0.001	15.289	0.000	68.820	0.000	15.289	-0.000	2000	9.				
1300	9.281	69.702	17.142	69.702	-0.000	17.142	0.000	69.703	-0.001	17.142	0.000	2200	9.				
1400	9.317	70.511	19.002	70.512	-0.001	19.002	0.000	70.512	-0.001	19.002	0.000	2400	9.				
1500	9.352	71.259	20.869	71.259	0.000	20.869	0.000	71.259	0.000	20.869	0.000	2600	9.				
1600	9.387	71.953	22.743	71.953	-0.000	22.743	-0.000	71.953	-0.000	22.743	0.000	2800	9.				
1700	9.421	72.602	24.623	72.602	-0.000	24.624	-0.001	72.602	0.000	24.623	-0.000	3000	9.				
1800	9.421	72.602	24.623	72.602	-0.000	24.624	-0.001	72.602	0.000	24.626	-0.003	3000	9.				
1900	9.455	73.211	26.511	73.211	-0.000	26.512	-0.001	73.211	0.000	26.512	-0.001	3200	9.				
2000	9.489	73.785	28.406	73.785	-0.000	28.406	-0.000	73.785	0.000	28.405	0.001	3400	9.				
2100	9.523	74.329	30.307	74.329	0.000	30.307	-0.000	74.328	0.001	30.306	0.001	3600	9.				
2200	9.556	74.844	32.215	74.844	-0.000	32.215	0.000	74.843	0.001	32.214	0.001	3800	9.				
2300	9.589	75.335	34.129	75.335	-0.000	34.129	-0.000	75.334	0.001	34.128	0.001	4000	9.				
2400	9.623	75.804	36.050	75.804	-0.000	36.050	-0.001	75.803	0.001	36.050	0.000	4200	9.				
2500	9.656	76.252	37.978	76.252	-0.000	37.978	-0.000	76.252	0.000	37.978	0.000	4400	9.				
2600	9.689	76.682	39.913	76.682	-0.000	39.913	0.000	76.682	0.000	39.913	0.000	4600	9.				
2700	9.722	77.095	41.854	77.095	-0.000	41.854	0.000	77.095	0.000	41.854	0.000	4800	9.				
2800	9.755	77.493	43.801	77.493	0.000	43.801	-0.000	77.492	0.001	43.802	-0.001	5000	9.				
2900	9.788	77.876	45.756	77.876	-0.000	45.755	0.001	77.876	0.000	45.756	-0.000	5200	9.				
3000	9.821	78.246	47.717	78.246	-0.000	47.716	0.001	78.246	0.000	47.717	-0.000	5400	9.				
3100	9.854	78.604	49.684	78.604	0.000	49.684	0.000	78.603	0.001	49.684	-0.000	5600	9.				
3200	9.887	78.950	51.658	78.950	-0.000	51.658	-0.000	78.950	0.000	51.658	-0.000	5800	9.				
3300	9.919	79.286	53.639	79.286	-0.000	53.639	-0.000	79.285	0.001	53.638	0.001	6000	9.				

FLUORINE MONOXIDE (G) F 10 1 0 0 0 0 1266
 MOL. WT. = 34.990 BLOCK = 1324 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 26.000 KEY = 250
 FITS FOR NOTS RMS = 0.002369
 1 8 1 9 0 0 0 0 0 0 0 FLUORINE MONOXIDE (G) 10J1266 250
 +8.7771682E+0+2.7016925E-1-3.5077247E-2+3.6152107E-3 400 6000 11J1266 250
 -2.5161743E-1+2.2623519E+1+6.1171310E+1+2.6000000E+1FO (G) 12J1266 250

FITS FOR EST RMS LOW = 0.003020 RMS HIGH = 0.004397
 1 8 1 9 0 0 0 0 0 0 0 FLUORINE MONOXIDE (G) 10FO
 +260000+5+240132+5+886111+1+172644-3-266768+6+715139+2 4003000J126611FO
 +260000+5+240121+5+862806+1+206571-3+898992+6+715139+230006000J126612FO

--		-----NOTS-----								-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.004	400	7.694	53.968	0.765	54.021	-0.053	0.784	-0.019	54.030	-0.062	0.789	-0.024	
0.000	600	8.246	57.202	2.364	57.193	0.009	2.355	0.009	57.194	0.008	2.356	0.008	
0.001	800	8.562	59.622	4.047	59.615	0.007	4.041	0.006	59.616	0.006	4.042	0.005	
0.000	1000	8.750	61.554	5.780	61.551	0.003	5.777	0.003	61.552	0.002	5.778	0.002	
0.001	1200	8.875	63.161	7.543	63.160	0.001	7.542	0.001	63.162	-0.001	7.544	-0.001	
0.000	1400	8.965	64.537	9.328	64.536	0.001	9.327	0.001	64.538	-0.001	9.329	-0.001	
0.000	1600	9.035	65.738	11.128	65.738	-0.000	11.128	-0.000	65.739	-0.001	11.130	-0.002	
0.000	1800	9.093	66.806	12.941	66.806	0.000	12.941	-0.000	66.807	-0.001	12.942	-0.001	
0.000	2000	9.144	67.767	14.765	67.766	0.001	14.765	0.000	67.767	0.000	14.765	0.000	
0.000	2200	9.189	68.640	16.598	68.640	-0.000	16.598	-0.000	68.640	-0.000	16.598	0.000	
0.000	2400	9.230	69.442	18.440	69.441	0.001	18.440	0.000	69.441	0.001	18.439	0.001	
0.000	2600	9.269	70.182	20.290	70.182	0.000	20.290	0.000	70.182	0.000	20.289	0.001	
0.000	2800	9.306	70.870	22.147	70.870	0.000	22.147	-0.000	70.870	-0.000	22.147	-0.000	
0.000	3000	9.341	71.514	24.012	71.513	0.001	24.012	-0.000	71.514	0.000	24.013	-0.001	
0.003	3000	9.341	71.514	24.012	71.513	0.001	24.012	-0.000	71.514	0.000	24.012	-0.000	
0.001	3200	9.376	72.118	25.884	72.117	0.001	25.884	0.000	72.118	-0.000	25.885	-0.001	
0.001	3400	9.410	72.687	27.762	72.687	0.000	27.763	-0.001	72.688	-0.001	27.763	-0.001	
0.001	3600	9.444	73.226	29.648	73.226	0.000	29.648	-0.000	73.226	-0.000	29.648	0.000	
0.001	3800	9.478	73.737	31.540	73.737	-0.000	31.540	-0.000	73.738	-0.001	31.540	0.000	
0.001	4000	9.512	74.224	33.439	74.224	-0.000	33.439	-0.000	74.225	-0.001	33.438	0.001	
0.000	4200	9.547	74.689	35.345	74.689	-0.000	35.345	-0.000	74.689	-0.000	35.344	0.001	
0.000	4400	9.582	75.134	37.258	75.134	0.000	37.258	-0.000	75.134	-0.000	37.257	0.001	
0.000	4600	9.618	75.561	39.178	75.561	0.000	39.178	-0.000	75.561	-0.000	39.177	0.001	
0.000	4800	9.656	75.971	41.105	75.971	0.000	41.105	-0.000	75.971	-0.000	41.105	-0.000	
0.001	5000	9.694	76.366	43.040	76.366	0.000	43.040	-0.000	76.367	-0.001	43.041	-0.001	
0.000	5200	9.733	76.747	44.983	76.747	0.000	44.983	0.000	76.748	-0.001	44.984	-0.001	
0.000	5400	9.774	77.115	46.934	77.115	0.000	46.933	0.001	77.116	-0.001	46.935	-0.001	
0.000	5600	9.816	77.471	48.893	77.471	0.000	48.892	0.001	77.472	-0.001	48.894	-0.001	
0.000	5800	9.860	77.817	50.860	77.816	0.001	50.860	-0.000	77.817	0.000	50.860	-0.000	
0.001	6000	9.904	78.152	52.837	78.151	0.001	52.837	-0.000	78.152	0.000	52.835	0.002	

PHOSPHORUS THIOFLUORIDE (G) F 1P 1S 1 962
 MOL. WT. = 82.030 BLOCK = 1336 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -37.000 KEY = 252
 FITS FOR NOTS RMS = 0.002973
 1 9 1 15 1 16 0 0 0 0 0 PHOSPHORUS THIOFLUORIDE (G) 10J 962 252
 +1.3783823E+1+8.2135796E-2-1.9000377E-2+1.4848187E-3 400 6000 11J 962 252
 -4.3000793E-1-4.2437561E+1+8.0931747E+1-3.7000000E+1FPS(G) 12J 962 252

FITS FOR EST RMS LOW = 0.003091 RMS HIGH = 0.004241
 1 9 1 15 1 16 0 0 0 0 0 PHOSPHORUS THIOFLUORIDE (G) 10FPS
 -370000+5+362869+5+138288+2+264419-4-436112+6+962729+2 4003000J 96211FPS
 -370000+5+362888+5+140049+2-136966-4-115412+7+962729+230006000J 96212FPS

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.013	400	11.590	69.615	1.134	69.677	-0.062	1.157	-0.023	69.679	-0.064	1.160	-0.026	
0.003	600	12.652	74.545	3.573	74.534	0.011	3.563	0.010	74.534	0.011	3.565	0.008	
0.003	800	13.146	78.260	6.158	78.252	0.008	6.150	0.008	78.253	0.007	6.153	0.005	
0.001	1000	13.402	81.224	8.816	81.220	0.004	8.811	0.005	81.221	0.003	8.814	0.002	
0.000	1200	13.550	83.682	11.512	83.680	0.002	11.510	0.002	83.681	0.001	11.513	-0.001	
-0.001	1400	13.642	85.778	14.232	85.777	0.001	14.231	0.001	85.778	-0.000	14.234	-0.002	
-0.001	1600	13.704	87.604	16.967	87.603	0.001	16.967	0.000	87.604	0.000	16.969	-0.002	
-0.000	1800	13.746	89.220	19.712	89.220	0.000	19.712	-0.000	89.220	-0.000	19.713	-0.001	
-0.000	2000	13.777	90.670	22.465	90.670	0.000	22.465	0.000	90.670	0.000	22.465	0.000	
0.000	2200	13.800	91.985	25.222	91.984	0.001	25.222	-0.000	91.984	0.001	25.222	0.000	
0.001	2400	13.817	93.186	27.984	93.186	0.000	27.984	-0.000	93.185	0.001	27.983	0.001	
0.000	2600	13.831	94.293	30.749	94.292	0.001	30.749	0.000	94.292	0.001	30.748	0.001	
0.001	2800	13.842	95.318	33.516	95.318	0.000	33.516	-0.000	95.317	0.001	33.516	-0.000	
-0.001	3000	13.851	96.273	36.286	96.273	0.000	36.286	0.000	96.273	0.000	36.287	-0.001	
-0.002	3000	13.851	96.273	36.286	96.273	0.000	36.286	0.000	96.273	0.000	36.289	-0.003	
-0.000	3200	13.858	97.168	39.057	97.167	0.001	39.057	0.000	97.166	0.002	39.057	-0.000	
0.000	3400	13.864	98.008	41.829	98.007	0.001	41.829	-0.000	98.006	0.002	41.828	0.001	
0.001	3600	13.869	98.800	44.602	98.800	-0.000	44.603	-0.001	98.799	0.001	44.601	0.001	
0.000	3800	13.873	99.550	47.376	99.550	-0.000	47.377	-0.001	99.548	0.002	47.375	0.001	
0.001	4000	13.877	100.262	50.151	100.262	0.000	50.152	-0.001	100.260	0.002	50.150	0.001	
0.001	4200	13.880	100.939	52.927	100.939	0.000	52.928	-0.001	100.937	0.002	52.926	0.001	
0.000	4400	13.883	101.585	55.703	101.585	0.000	55.704	-0.001	101.583	0.002	55.702	0.001	
-0.000	4600	13.885	102.202	58.480	102.202	0.000	58.480	-0.000	102.201	0.001	58.480	0.000	
-0.000	4800	13.887	102.793	61.257	102.793	0.000	61.257	-0.000	102.792	0.001	61.257	-0.000	
-0.000	5000	13.889	103.360	64.035	103.360	0.000	64.035	0.000	103.359	0.001	64.035	-0.000	
-0.001	5200	13.891	103.905	66.813	103.904	0.001	66.812	0.001	103.903	0.002	66.813	-0.001	
-0.000	5400	13.892	104.429	69.591	104.429	0.000	69.591	0.000	104.428	0.001	69.592	-0.001	
-0.000	5600	13.893	104.934	72.370	104.934	0.000	72.369	0.001	104.933	0.001	72.370	-0.000	
-0.000	5800	13.895	105.422	75.149	105.421	0.001	75.149	0.000	105.420	0.002	75.148	0.001	
0.001	6000	13.896	105.893	77.928	105.893	0.000	77.929	-0.001	105.891	0.002	77.927	0.001	

SILICON MONOFLUORIDE (G) F 1SI 1 0 0 0 0 1269
 MOL. WT.= 47.080 BLOCK= 1343 NO. POINT = 62
 TA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -4.600 KEY = 253
 TS FOR NOTS RMS = 0.001951
 9 1 14 0 0 0 0 0 0 0 SILICON MONOFLUORIDE (G) 10J1269 253
 215961E+0+1.9769668E-1-4.2876653E-2+5.6487657E-3 400 6000 11J1269 253
 951538E-1-7.7230005E+0+6.3807006E+1-4.5999994E+0PSI(G) 12J1269 253

FLUO
 MOL
 DATA
 FITS
 2 9 0
 +8.8657
 -2.1647

TS FOR EST RMS LOW = 0.001430 RMS HIGH = 0.007531
 9 1 14 0 0 0 0 0 0 0 SILICON MONOFLUORIDE (G) 10PSI
 999+4+240132+5+890050+1+950762-4-170928+6+739579+2 4003000J126911PSI
 999+4+240102+5+805310+1+250371-3+348884+7+739579+230006000J126912PSI

FITS
 2 9 0
 +000000
 +000000

-----NOTS-----														-----EST-----			
/H	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C				
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K					
026	8.096	56.272	0.810	56.298	-0.026	0.819	-0.009	56.302	-0.030	0.822	-0.012	400	7				
008	8.492	59.638	2.473	59.634	0.004	2.468	0.005	59.633	0.005	2.469	0.004	600	8				
005	8.699	62.112	4.194	62.109	0.003	4.190	0.004	62.109	0.003	4.191	0.003	800	8				
002	8.817	64.067	5.947	64.065	0.002	5.944	0.003	64.066	0.001	5.946	0.001	1000	8				
001	8.893	65.682	7.718	65.680	0.002	7.716	0.002	65.681	0.001	7.718	-0.000	1200	9				
002	8.946	67.057	9.502	67.056	0.001	9.501	0.001	67.057	0.000	9.503	-0.001	1400	9				
001	8.987	68.254	11.296	68.253	0.001	11.295	0.001	68.254	0.000	11.296	-0.000	1600	9				
000	9.021	69.315	13.097	69.314	0.001	13.096	0.001	69.314	0.001	13.097	0.000	1800	9				
000	9.050	70.267	14.904	70.266	0.001	14.904	0.000	70.266	0.001	14.904	0.000	2000	9				
001	9.075	71.130	16.716	71.130	-0.000	16.716	-0.000	71.130	0.000	16.716	0.000	2200	9				
001	9.099	71.921	18.534	71.921	0.000	18.534	0.000	71.920	0.001	18.533	0.001	2400	9				
000	9.121	72.650	20.356	72.650	-0.000	20.356	-0.000	72.649	0.001	20.355	0.001	2600	9				
001	9.142	73.327	22.182	73.327	0.000	22.182	-0.000	73.326	0.001	22.182	-0.000	2800	9				
003	9.164	73.958	24.013	73.958	-0.000	24.013	-0.000	73.958	0.000	24.013	-0.000	3000	9				
000	9.164	73.958	24.013	73.958	-0.000	24.013	-0.000	73.958	0.000	24.010	0.003	3000	9				
001	9.185	74.550	25.847	74.550	-0.000	25.848	-0.001	74.551	-0.001	25.849	-0.002	3200	9				
001	9.206	75.108	27.687	75.108	0.000	27.687	0.000	75.109	-0.001	27.689	-0.002	3400	9				
001	9.229	75.635	29.530	75.635	0.000	29.530	-0.000	75.636	-0.001	29.532	-0.002	3600	9				
001	9.253	76.134	31.378	76.134	-0.000	31.379	-0.001	76.135	-0.001	31.379	-0.001	3800	9				
001	9.278	76.610	33.231	76.610	0.000	33.232	-0.001	76.610	0.000	33.230	0.001	4000	9				
001	9.305	77.063	35.090	77.063	0.000	35.090	0.000	77.063	-0.000	35.088	0.002	4200	9				
000	9.335	77.496	36.954	77.496	-0.000	36.954	0.000	77.496	-0.001	36.952	0.002	4400	9				
000	9.367	77.912	38.824	77.912	-0.000	38.824	0.000	77.912	-0.000	38.822	0.002	4600	9				
000	9.401	78.311	40.700	78.311	-0.000	40.700	-0.000	78.312	-0.001	40.700	0.000	4800	9				
001	9.439	78.696	42.584	78.696	0.000	42.584	-0.000	78.696	-0.000	42.585	-0.001	5000	9				
001	9.479	79.067	44.476	79.067	0.000	44.476	0.000	79.068	-0.001	44.477	-0.001	5200	10				
001	9.523	79.426	46.376	79.425	0.001	46.376	0.000	79.426	-0.000	46.378	-0.002	5400	10				
000	9.570	79.773	48.286	79.773	0.000	48.285	0.001	79.774	-0.001	48.287	-0.001	5600	10				
001	9.621	80.109	50.205	80.109	-0.000	50.204	0.000	80.110	-0.001	50.205	0.000	5800	10				
001	9.674	80.436	52.134	80.436	-0.001	52.135	-0.001	80.436	-0.000	52.131	0.003	6000	10				

FLUORINE, DIATOMIC

(R) F 2

1260

MOL. WT. = 37.990 BLOCK = 1349 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 0.000 KEY = 254

FITS FOR NOTS RMS = 0.002128

2 9 0 0 0 0 0 0 0 0 FLUORINE, DIATOMIC (R) 10J1260 254
+8.8657398E+0+2.5642538E-1-1.1067990E-2+8.5000484E-4 400 6000 11J1260 254
-2.1647644E-1-3.3091735E+0+5.8091217E+1+0.0000000E+0F2 (R) 12J1260 254

FITS FOR EST RMS LOW = 0.002007 RMS HIGH = 0.003228

2 9 0 0 0 0 0 0 0 0 FLUORINE, DIATOMIC (R) 10F2
+000000+0+244324+5+888958+1+224855-3-219120+6+685699+2 4003000J126011F2
+000000+0+244340+5+901714+1+196763-3-765472+6+685699+230006000J126012F2

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.012	400	7.900	50.707	0.784	50.746	-0.039	0.799	-0.015	50.746	-0.039	0.800	-0.016	
0.004	600	8.429	54.022	2.423	54.015	0.007	2.416	0.007	54.015	0.007	2.418	0.005	
0.003	800	8.713	56.489	4.140	56.484	0.005	4.134	0.006	56.484	0.005	4.136	0.004	
0.001	1000	8.885	58.453	5.901	58.451	0.002	5.898	0.003	58.451	0.002	5.900	0.001	
-0.000	1200	9.003	60.084	7.690	60.083	0.001	7.689	0.001	60.084	0.000	7.691	-0.001	
-0.001	1400	9.092	61.479	9.500	61.478	0.001	9.499	0.001	61.479	0.000	9.501	-0.001	
-0.000	1600	9.166	62.698	11.326	62.698	0.000	11.326	0.000	62.698	0.000	11.327	-0.001	
0.000	1800	9.229	63.781	13.166	63.781	-0.000	13.166	0.000	63.781	0.000	13.166	-0.000	
0.000	2000	9.287	64.757	15.017	64.757	0.000	15.017	-0.000	64.756	0.001	15.017	-0.000	
0.000	2200	9.341	65.644	16.880	65.644	-0.000	16.880	-0.000	65.643	0.001	16.880	0.000	
0.001	2400	9.391	66.459	18.753	66.459	-0.000	18.753	-0.000	66.458	0.001	18.753	0.000	
0.001	2600	9.440	67.213	20.637	67.213	0.000	20.637	0.000	67.212	0.001	20.636	0.001	
-0.000	2800	9.488	67.914	22.529	67.914	-0.000	22.529	-0.000	67.913	0.001	22.529	-0.000	
-0.000	3000	9.534	68.570	24.432	68.570	-0.000	24.432	0.000	68.570	0.000	24.432	-0.000	
0.003	3000	9.534	68.570	24.432	68.570	-0.000	24.432	0.000	68.570	0.000	24.434	-0.002	
-0.002	3200	9.579	69.187	26.343	69.187	-0.000	26.343	-0.000	69.186	0.001	26.344	-0.001	
-0.002	3400	9.624	69.769	28.263	69.769	-0.000	28.264	-0.001	69.768	0.001	28.263	0.000	
-0.002	3600	9.668	70.321	30.192	70.321	0.000	30.193	-0.001	70.319	0.002	30.191	0.001	
-0.001	3800	9.712	70.845	32.130	70.845	0.000	32.131	-0.001	70.843	0.002	32.129	0.001	
0.001	4000	9.755	71.344	34.077	71.344	0.000	34.078	-0.001	71.342	0.002	34.076	0.001	
0.002	4200	9.799	71.821	36.033	71.821	0.000	36.033	0.000	71.819	0.002	36.032	0.001	
0.002	4400	9.842	72.278	37.997	72.278	0.000	37.997	0.000	72.276	0.002	37.996	0.001	
0.002	4600	9.884	72.716	39.969	72.716	0.000	39.969	-0.000	72.715	0.001	39.969	-0.000	
0.000	4800	9.927	73.138	41.950	73.138	0.000	41.950	-0.000	73.136	0.002	41.951	-0.001	
-0.001	5000	9.970	73.544	43.940	73.544	0.000	43.940	0.000	73.542	0.002	43.940	-0.000	
-0.001	5200	10.012	73.936	45.938	73.935	0.001	45.938	0.000	73.934	0.002	45.939	-0.001	
-0.002	5400	10.054	74.314	47.945	74.314	-0.000	47.944	0.001	74.313	0.001	47.945	-0.000	
-0.001	5600	10.097	74.681	49.960	74.680	0.001	49.959	0.001	74.679	0.002	49.960	0.000	
0.000	5800	10.139	75.036	51.983	75.035	0.001	51.983	-0.000	75.034	0.002	51.983	-0.000	
0.003	6000	10.181	75.380	54.015	75.380	0.000	54.015	-0.000	75.379	0.001	54.014	0.001	

DIFLUOROSILANE (G) F 2H 2SI 1 1260
 MOL. WT. = 68.090 BLOCK = 1355 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFCRM(KCAL/(MOLE)) = -194.000 KEY = 255
 FITS FOR NOTS RMS = 0.030505
 1 2 9 1 14 0 0 0 0 0 DIFLUOROSILANE (G) 10J1260 255 2
 .2946838E+1+1.7141017E+0-3.6533331E-1+2.5516929E-2 400 6000 11J1260 255 +1
 .1970214E+0-2.0712867E+2+8.0468414E+1-1.9400000E+2F2H2SI (G) 12J1260 255 -5

FITS FOR EST RMS LOW = 0.048892 RMS HIGH = 0.007601
 1 2 9 1 14 0 0 0 0 0 DIFLUOROSILANE (G) 10F2H2SI 2
 94000+6+614366+5+240208+2+559669-3-240571+7+109547+3 4003000J126011F2H2SI -2
 94000+6+614200+5+259858+2-228939-4-611020+7+109547+330006000J126012F2H2SI -2

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.016	00	14.621	66.212	1.368	66.965	-0.753	1.672	-0.304	67.077	-0.865	1.721	-0.353	4
0.005	00	18.172	72.866	4.674	72.763	0.103	4.584	0.090	72.752	0.114	4.576	0.098	6
0.004	00	20.428	78.427	8.551	78.323	0.104	8.464	0.087	78.313	0.114	8.456	0.095	8
0.001	00	21.891	83.154	12.793	83.107	0.047	12.757	0.036	83.108	0.046	12.760	0.033	10
-0.001	00	22.866	87.237	17.275	87.224	0.013	17.276	-0.001	87.232	0.005	17.286	-0.011	12
-0.001	00	23.536	90.815	21.919	90.816	-0.001	21.937	-0.018	90.825	-0.010	21.950	-0.031	14
-0.001	00	24.010	93.990	26.676	93.994	-0.004	26.698	-0.022	94.001	-0.011	26.707	-0.031	16
-0.000	00	24.356	96.839	31.515	96.840	-0.001	31.532	-0.017	96.843	-0.004	31.534	-0.019	18
-0.000	00	24.614	99.420	36.413	99.417	0.003	36.424	-0.011	99.416	0.004	36.417	-0.005	20
0.000	00	24.812	101.775	41.356	101.769	0.006	41.360	-0.004	101.765	0.010	41.347	0.009	22
0.000	00	24.966	103.941	46.335	103.932	0.009	46.332	0.003	103.927	0.014	46.318	0.017	24
0.001	00	25.088	105.944	51.341	105.934	0.010	51.334	0.007	105.931	0.013	51.325	0.016	26
-0.000	00	25.186	107.807	56.369	107.796	0.011	56.361	0.008	107.799	0.008	56.365	0.004	28
-0.000	00	25.267	109.548	61.414	109.537	0.011	61.407	0.007	109.548	0.000	61.437	-0.023	30
-0.002	00	25.267	109.548	61.414	109.537	0.011	61.407	0.007	109.548	0.000	61.420	-0.006	30
-0.001	00	25.333	111.181	66.474	111.171	0.010	66.469	0.005	111.179	0.002	66.476	-0.002	32
0.000	00	25.389	112.718	71.547	112.709	0.009	71.544	0.003	112.716	0.002	71.545	0.002	34
0.001	00	25.436	114.171	76.629	114.162	0.009	76.629	-0.000	114.168	0.003	76.627	0.002	36
0.001	00	25.476	115.547	81.721	115.539	0.008	81.723	-0.002	115.545	0.002	81.718	0.003	38
0.001	00	25.510	116.855	86.819	116.848	0.007	86.824	-0.005	116.852	0.003	86.817	0.002	40
0.001	00	25.539	118.100	91.924	118.093	0.007	91.930	-0.006	118.098	0.002	91.922	0.002	42
0.001	00	25.565	119.289	97.035	119.282	0.007	97.040	-0.005	119.287	0.002	97.034	0.001	44
-0.000	00	25.588	120.426	102.150	120.418	0.008	102.154	-0.004	120.424	0.002	102.150	0.000	46
-0.001	00	25.607	121.515	107.270	121.507	0.008	107.272	-0.002	121.513	0.002	107.270	-0.000	48
-0.000	00	25.625	122.561	112.393	122.553	0.008	112.392	0.001	122.559	0.002	112.394	-0.001	50
-0.001	00	25.641	123.566	117.519	123.557	0.009	117.516	0.003	123.565	0.001	117.521	-0.002	52
-0.000	00	25.655	124.534	122.649	124.525	0.009	122.644	0.005	124.532	0.002	122.650	-0.001	54
0.000	00	25.667	125.467	127.781	125.458	0.009	127.776	0.005	125.466	0.001	127.782	-0.001	56
-0.000	00	25.678	126.368	132.916	126.360	0.008	132.915	0.001	126.366	0.002	132.915	0.001	58
0.001	00	25.688	127.239	138.052	127.232	0.007	138.060	-0.008	127.237	0.002	138.050	0.002	60

LITHIUM FLUORIDE, DIMERIC (G) F 2LI 2 0 0 0 0 1268
 MOL. WT.= 51.870 BLOCK= 1361 NO. POINT = 62
 DATA FROM 0 TC 6000 K HFCRM(KCAL/(MOLE)) = -225.330 KEY = 256
 FITS FOR NOTS RMS = 0.003424
 2 9 2 71 0 0 0 0 0 0 LITHIUM FLUORIDE, DIMERIC (G) 10J1268 256
 +1.9818634E+1+3.5443820E-2-8.6999498E-3+7.2089023E-4 400 6000 11J1268 256
 -5.3970336E-1-2.3295899E+2+8.2995559E+1-2.2532998E+2F2LI2 (G) 12J1268 256

FITS FOR EST RMS LOW = 0.002204 RMS HIGH = 0.005969
 2 9 2 71 0 0 0 0 0 0 LITHIUM FLUORIDE, DIMERIC (G) 10F2LI2
 -225329+6+521026+5+198267+2+145524-4-536688+6+104871+3 4003000J126811F2LI2
 -225329+6+521066+5+200199+2-216591-4-155084+7+104871+330006000J126812F2LI2

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	16.813	66.487	1.633	66.536	-0.049	1.650	-0.017	66.533	-0.046	1.652	-0.019
600	18.359	73.648	5.176	73.641	0.007	5.167	0.009	73.643	0.005	5.171	0.005
800	18.987	79.028	8.919	79.020	0.008	8.910	0.009	79.023	0.005	8.915	0.004
1000	19.295	83.301	12.750	83.297	0.004	12.744	0.006	83.300	0.001	12.749	0.001
1200	19.467	86.836	16.628	86.833	0.003	16.624	0.004	86.835	0.001	16.628	0.000
1400	19.572	89.845	20.532	89.843	0.002	20.530	0.002	89.845	-0.000	20.533	-0.001
1600	19.642	92.463	24.454	92.462	0.001	24.453	0.001	92.463	-0.000	24.455	-0.001
1800	19.689	94.780	28.387	94.779	0.001	28.387	0.000	94.779	0.001	28.388	-0.001
2000	19.724	96.856	32.329	96.856	0.000	32.329	0.000	96.856	0.000	32.329	0.000
2200	19.749	98.737	36.276	98.737	0.000	36.276	-0.000	98.737	0.000	36.276	-0.000
2400	19.769	100.456	40.228	100.456	-0.000	40.229	-0.001	100.456	0.000	40.228	0.000
2600	19.784	102.039	44.184	102.039	-0.000	44.184	-0.000	102.039	0.000	44.183	0.001
2800	19.796	103.506	48.142	103.506	0.000	48.142	-0.000	103.506	0.000	48.142	0.000
3000	19.806	104.872	52.102	104.872	-0.000	52.103	-0.001	104.872	0.000	52.103	-0.001
3000	19.806	104.872	52.102	104.872	-0.000	52.103	-0.001	104.872	0.000	52.107	-0.005
3200	19.814	106.151	56.064	106.151	0.000	56.065	-0.001	106.149	0.002	56.065	-0.001
3400	19.820	107.352	60.027	107.352	-0.000	60.028	-0.001	107.350	0.002	60.026	0.001
3600	19.826	108.485	63.992	108.485	-0.000	63.993	-0.001	108.483	0.002	63.990	0.002
3800	19.830	109.557	67.957	109.557	-0.000	67.958	-0.001	109.555	0.002	67.955	0.002
4000	19.834	110.574	71.924	110.574	-0.000	71.924	-0.001	110.572	0.002	71.921	0.003
4200	19.838	111.542	75.891	111.542	-0.000	75.892	-0.001	111.540	0.002	75.889	0.002
4400	19.841	112.465	79.859	112.465	-0.000	79.859	-0.000	112.463	0.002	79.858	0.001
4600	19.843	113.347	83.827	113.347	0.000	83.827	-0.000	113.345	0.002	83.827	-0.000
4800	19.846	114.192	87.796	114.192	0.000	87.796	-0.000	114.190	0.002	87.797	-0.001
5000	19.848	115.002	91.766	115.002	0.000	91.765	0.001	115.000	0.002	91.766	-0.001
5200	19.850	115.780	95.735	115.780	-0.000	95.735	0.000	115.779	0.001	95.736	-0.001
5400	19.851	116.530	99.706	116.529	0.001	99.705	0.001	116.528	0.002	99.706	-0.001
5600	19.853	117.252	103.676	117.251	0.001	103.675	0.001	117.250	0.002	103.676	-0.000
5800	19.854	117.948	107.647	117.948	0.000	107.646	0.001	117.946	0.002	107.646	0.001
6000	19.855	118.621	111.617	118.621	-0.000	111.618	-0.001	118.619	0.002	111.616	0.001

MAGNE:
 MOL.
 ATA F
 ITS F
 9 1
 70218
 41363
 ITS F
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C/I
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MAGNESIUM FLUORIDE (C) F 2MG 1 0 0 0 0 366
 MOL. WT.= 62.300 BLOCK= 1368 NO. POINT = 27
 DATA FROM 0 TO 2500 K HFORM(KCAL/(MOLE)) = -268.700 KEY = 257
 ITS FOR NOTS RMS = 0.001123
 9 1 12 0 0 0 0 0 0 MAGNESIUM FLUORIDE (C) 30J 366 257
 .7021881E+1+2.4367904E+0+1.8535964E-2+7.1683828E-4 400 2500 31J 366 257
 .4136352E-1-2.7471826E+2+3.2125625E+1-2.6869995E+2F2MG(C) 32J 366 257

MAGI
 MOI
 DATA
 FITS
 2 9
 +2.2568
 -8.3007

ITS FOR EST RMS LOW = 0.000574 RMS HIGH = 0.000574
 9 1 12 0 0 0 0 0 0 MAGNESIUM FLUORIDE (C) 30F2MG\$
 8699+6+562662+5+169446+2+251504-2-229056+6+582362+2 4002500J 36631F2MG\$
 8699+6+562662+5+169446+2+251504-2-229056+6+582362+2 4002500J 36632F2MG\$

FITS
 2 9 1
 -259556
 -259556

-----NOTS-----												-----EST-----											
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH												
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M												
00	16.390	18.265	1.592	18.259	0.006	1.589	0.003	18.258	0.007	1.590	0.002												
00	17.310	22.028	3.280	22.030	-0.002	3.281	-0.001	22.033	-0.005	3.283	-0.003												
00	17.830	25.232	5.038	25.231	0.001	5.037	0.001	25.234	-0.002	5.039	-0.001												
00	18.250	28.013	6.843	28.011	0.002	6.841	0.002	28.013	-0.000	6.843	0.000												
00	18.600	30.473	8.685	30.471	0.002	8.684	0.001	30.473	0.000	8.685	-0.000												
00	18.930	32.683	10.562	32.682	0.001	10.561	0.001	32.682	0.001	10.561	0.001												
00	19.230	34.693	12.470	34.693	0.000	12.470	0.000	34.692	0.001	12.469	0.001												
00	19.520	36.539	14.408	36.540	-0.001	14.408	0.000	36.539	0.000	14.407	0.001												
00	19.800	38.250	16.374	38.251	-0.001	16.375	-0.001	38.250	0.000	16.373	0.001												
00	20.080	39.846	18.368	39.847	-0.001	18.369	-0.001	39.846	0.000	18.368	0.000												
00	20.350	41.344	20.389	41.345	-0.001	20.390	-0.001	41.344	0.000	20.389	-0.000												
00	20.610	42.757	22.437	42.758	-0.001	22.439	-0.002	42.757	0.000	22.437	-0.000												
00	20.880	44.096	24.512	44.097	-0.001	24.513	-0.001	44.096	0.000	24.512	-0.000												
00	21.140	45.369	26.613	45.370	-0.001	26.614	-0.001	45.369	-0.000	26.613	-0.000												
00	21.400	46.585	28.740	46.586	-0.001	28.741	-0.001	46.585	-0.000	28.740	-0.000												
00	21.660	47.749	30.893	47.750	-0.001	30.893	-0.000	47.749	-0.000	30.893	-0.000												
00	21.920	48.867	33.072	48.867	-0.000	33.072	0.000	48.867	0.000	33.072	-0.000												
00	22.175	49.942	35.277	49.942	-0.000	35.276	0.001	49.942	-0.000	35.277	0.000												
00	22.430	50.980	37.507	50.980	0.000	37.507	0.000	50.980	0.000	37.507	0.000												
00	22.686	51.982	39.763	51.983	-0.001	39.762	0.001	51.982	-0.000	39.763	0.000												
00	22.943	52.953	42.044	52.954	-0.001	42.044	-0.000	52.953	-0.000	42.044	-0.000												
00	23.200	53.895	44.351	53.896	-0.001	44.351	-0.000	53.895	0.000	44.351	0.000												

T
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 400 22
 600 22
 800 22
 1000 22
 1200 22
 1400 22
 1600 22
 1800 22
 2000 22
 2200 22
 2400 22
 2600 22
 2800 22
 3000 22
 3200 22
 3400 22
 3600 22
 3800 22
 4000 22

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PITS FOR EST      RMS LOW =      0.000807 RMS HIGH =      0.000807
 2  9  1 12  0   0  0  0  0  0  0  0 MAGNESIUM FLUORIDE      (L) 20F2MG*
-259556+6+609811+5+225745+2-120408-5-568000+4+673989+2 4004000J 36621F2MG*
-259556+6+609811+5+225745+2-120408-5-568000+4+673989+2 4004000J 36622F2MG*

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[illegible]

MAGNESIUM FLUORIDE (G) F 2MG 1 0 0 0 0 366
 MOL. WT.= 62.300 BLOCK= 1375 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -173.200 KEY = 259
 FITS FOR NOTS RMS = 0.002501
 9 1 12 0 0 0 0 0 0 0 MAGNESIUM FLUORIDE (G) 10J 366 259
 3853984E+1+3.7638448E-2-9.0907178E-3+7.3702959E-4 400 6000 11J 366 259
 3224182E-1-1.7821325E+2+7.7094619E+1-1.7319999E+2P2MG (G) 12J 366 259

FLUOR
 MOL.
 DATA F
 FITS F
 1 8 2
 +1.37662
 -4.73068

FITS FOR EST RMS LOW = 0.001671 RMS HIGH = 0.004285
 9 1 12 0 0 0 0 0 0 0 MAGNESIUM FLUORIDE (G) 10F2MG
 3199+6+367453+5+138695+2+132022-4-282624+6+924089+2 4003000J 36611F2MG
 3199+6+367481+5+140119+2-149172-4-988672+6+924089+230006000J 36612F2MG

FITS F
 1 8 2
 +585999+
 +585999+

-----NOTS-----

-----EST-----

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C/
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
1	12.364	65.262	1.225	65.297	-0.035	1.237	-0.012	65.296	-0.034	1.239	-0.014	400	11.
16	13.103	70.437	3.782	70.431	0.006	3.776	0.006	70.432	0.005	3.778	0.004	600	12.
12	13.427	74.256	6.439	74.251	0.005	6.433	0.006	74.253	0.003	6.436	0.003	800	13.
10	13.592	77.272	9.143	77.269	0.003	9.139	0.004	77.271	0.001	9.142	0.001	1000	13.
10	13.685	79.759	11.871	79.758	0.001	11.869	0.002	79.759	-0.000	11.872	-0.001	1200	13.
11	13.743	81.874	14.615	81.873	0.001	14.613	0.002	81.874	0.000	14.615	-0.000	1400	13.
1	13.782	83.711	17.367	83.711	0.000	17.366	0.001	83.711	-0.000	17.368	-0.001	1600	13.
1	13.808	85.336	20.126	85.336	0.000	20.126	0.000	85.336	-0.000	20.127	-0.001	1800	13.
11	13.827	86.792	22.890	86.792	0.000	22.890	0.000	86.792	0.000	22.890	0.000	2000	13.
0	13.841	88.111	25.657	88.110	0.001	25.657	0.000	88.110	0.001	25.657	0.000	2200	13.
0	13.852	89.315	28.426	89.315	-0.000	28.426	-0.001	89.315	0.000	28.426	0.000	2400	13.
0	13.861	90.425	31.198	90.425	0.000	31.198	0.000	90.424	0.001	31.197	0.001	2600	13.
0	13.868	91.452	33.971	91.452	-0.000	33.971	-0.000	91.452	0.000	33.971	0.000	2800	13.
0	13.873	92.409	36.745	92.409	-0.000	36.745	-0.000	92.409	0.000	36.745	-0.000	3000	13.
0	13.873	92.409	36.745	92.409	-0.000	36.745	-0.000	92.409	0.000	36.748	-0.003	3000	13.
0	13.877	93.304	39.520	93.305	-0.001	39.520	-0.000	93.304	0.000	39.521	-0.001	3200	13.
0	13.881	94.146	42.296	94.146	-0.000	42.296	-0.000	94.145	0.001	42.295	0.001	3400	13.
0	13.884	94.939	45.072	94.940	-0.001	45.073	-0.001	94.938	0.001	45.071	0.001	3600	13.
0	13.887	95.690	47.849	95.690	-0.000	47.850	-0.001	95.689	0.001	47.848	0.001	3800	13.
0	13.889	96.403	50.627	96.403	0.000	50.628	-0.001	96.401	0.002	50.625	0.002	4000	13.
0	13.891	97.080	53.405	97.080	-0.000	53.405	-0.000	97.079	0.001	53.404	0.001	4200	13.
0	13.893	97.727	56.183	97.727	0.000	56.184	-0.001	97.725	0.002	56.183	0.000	4400	13.
0	13.894	98.344	58.962	98.344	-0.000	58.962	-0.000	98.343	0.001	58.962	0.000	4600	13.
0	13.896	98.935	61.741	98.935	-0.000	61.741	0.000	98.934	0.001	61.741	-0.000	4800	13.
0	13.897	99.503	64.520	99.503	0.000	64.520	0.000	99.502	0.001	64.521	-0.001	5000	13.
0	13.898	100.048	67.300	100.048	0.000	67.299	0.001	100.047	0.001	67.300	-0.000	5200	13.
0	13.899	100.572	70.079	100.572	-0.000	70.079	0.000	100.571	0.001	70.080	-0.001	5400	13.
0	13.899	101.078	72.859	101.078	0.000	72.859	0.000	101.077	0.001	72.859	-0.000	5600	13.
0	13.900	101.566	75.639	101.565	0.001	75.639	0.000	101.564	0.002	75.639	0.000	5800	13.
0	13.901	102.037	78.419	102.037	0.000	78.419	-0.000	102.035	0.002	78.418	0.001	6000	13.

FLUORINE OXIDE (G) F 20 1 0 0 0 0 1269
 MOL. WT. = 53.990 BLCK = 1381 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 5.860 KEY = 260
 FITS FOR NOTS RMS = 0.003270
 1 8 2 9 0 0 0 0 0 0 0 FLUORINE OXIDE (G) 10J1269 260
 +1.3766277E+1+9.2569530E-2-2.1304361E-2+1.6569709E-3 400 6000 11J1269 260
 -4.7306823E-1+2.9919338E-1+7.3481430E+1+5.8599996E+0F20(G) 12J1269 260

FITS FOR EST RMS LOW = 0.003710 RMS HIGH = 0.004326
 1 8 2 9 0 0 0 0 0 0 0 FLUORINE OXIDE (G) 10F20
 +585999+4+361554+5+138193+2+292549-4-481600+6+888289+2 4003000J126911F20
 +585999+4+361565+5+139967+2-126179-4-116014+7+888289+230006000J126912F20

-----NOTS-----													
-----EST-----													
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
14	400	11.373	62.311	1.109	62.381	-0.070	1.135	-0.026	62.387	-0.076	1.139	-0.030	15
04	600	12.524	67.170	3.514	67.158	0.012	3.503	0.011	67.160	0.010	3.505	0.009	17
03	800	13.065	70.856	6.079	70.847	0.009	6.070	0.009	70.848	0.008	6.072	0.007	18
01	1000	13.348	73.805	8.723	73.800	0.005	8.718	0.005	73.802	0.003	8.721	0.002	18
01	1200	13.511	76.254	11.410	76.252	0.002	11.408	0.002	76.254	-0.000	11.411	-0.001	19
00	1400	13.613	78.345	14.123	78.344	0.001	14.123	0.000	78.346	-0.001	14.125	-0.002	19
01	1600	13.681	80.168	16.853	80.167	0.001	16.853	0.000	80.168	-0.000	16.855	-0.002	19
01	1800	13.728	81.782	19.594	81.781	0.001	19.594	-0.000	81.782	-0.000	19.595	-0.001	19
00	2000	13.762	83.230	22.343	83.230	0.000	22.343	-0.000	83.230	0.000	22.343	-0.000	19
00	2200	13.787	84.543	25.098	84.542	0.001	25.098	-0.000	84.542	0.001	25.098	0.000	19
00	2400	13.806	85.743	27.858	85.743	0.000	27.857	0.001	85.743	0.000	27.857	0.001	19
01	2600	13.822	86.849	30.621	86.849	0.000	30.620	0.001	86.849	0.000	30.620	0.001	19
00	2800	13.834	87.874	33.386	87.873	0.001	33.386	-0.000	87.874	0.000	33.386	-0.000	19
00	3000	13.844	88.829	36.154	88.828	0.001	36.154	-0.000	88.829	0.000	36.155	-0.001	19
03	3000	13.844	88.829	36.154	88.828	0.001	36.154	-0.000	88.829	0.000	36.157	-0.003	19
01	3200	13.852	89.722	38.923	89.722	-0.000	38.924	-0.001	89.722	0.000	38.924	-0.001	19
01	3400	13.858	90.562	41.694	90.562	0.000	41.695	-0.001	90.562	0.000	41.694	0.000	19
01	3600	13.864	91.355	44.467	91.354	0.001	44.467	-0.000	91.354	0.001	44.465	0.002	19
01	3800	13.868	92.104	47.240	92.104	-0.000	47.241	-0.001	92.103	0.001	47.238	0.002	19
02	4000	13.873	92.816	50.014	92.815	0.001	50.015	-0.001	92.815	0.001	50.012	0.002	19
01	4200	13.876	93.493	52.789	93.492	0.001	52.789	-0.000	93.492	0.001	52.788	0.001	19
00	4400	13.879	94.138	55.564	94.138	0.000	55.565	-0.001	94.137	0.001	55.564	0.000	19
00	4600	13.882	94.755	58.340	94.755	0.000	58.340	-0.000	94.755	0.000	58.340	-0.000	19
00	4800	13.884	95.346	61.117	95.346	0.000	61.117	0.000	95.345	0.001	61.117	-0.000	19
01	5000	13.886	95.913	63.894	95.912	0.001	63.893	0.001	95.912	0.001	63.894	-0.000	19
00	5200	13.888	96.458	66.671	96.457	0.001	66.671	0.000	96.457	0.001	66.672	-0.001	19
01	5400	13.889	96.982	69.449	96.981	0.001	69.448	0.001	96.981	0.001	69.450	-0.001	19
00	5600	13.891	97.487	72.227	97.486	0.001	72.227	0.000	97.486	0.001	72.227	-0.000	19
00	5800	13.892	97.974	75.006	97.974	0.000	75.005	0.001	97.974	0.000	75.005	0.001	19
01	6000	13.893	98.445	77.784	98.445	-0.000	77.785	-0.001	98.445	0.000	77.783	0.001	19

THIONYL FLUORIDE (G) P 20 1S 1
 MOL. WT. = 86.060 BLCK= 1387 NO. POINT = 62
 TA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -135.000 KEY = 261
 TS FOR NOTS RMS = 0.005890
 8 2 9 1 16 0 0 0 0 0 THIONYL FLUORIDE (G) 10J 965 261
 506027E+1+2.2988677E-1-5.1492121E-2+3.9057191E-3 400 6000 11J 965 261
 542419E-1-1.4332630E+2+8.6634841E+1-1.3500000E+2F20S(G) 12J 965 261

965

SUL.

MO.

DATA

FITS

2 8 :

+2.5010

-1.4591

TS FOR EST RMS LOW = 0.008185 RMS HIGH = 0.006002

8 2 9 1 16 0 0 0 0 0 THIONYL FLUORIDE (G) 10F20S
 5000+6+511202+5+196462+2+718621-4-850688+6+108604+3 4003000J 96511F20S
 5000+6+511211+5+199946+2-177985-4-194841+7+108604+330006000J 96512F20S

FITS

2 8 :

-181299

-181299

-----NOTS-----

-----EST-----

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
0	15.508	71.280	1.500	71.429	-0.149	1.557	-0.057	71.444	-0.164	1.566	-0.066	400	18
9	17.389	77.971	4.813	77.946	0.025	4.791	0.022	77.947	0.024	4.793	0.020	600	21
7	18.317	83.115	8.393	83.095	0.020	8.375	0.018	83.097	0.018	8.378	0.015	800	22
2	18.821	87.262	12.112	87.253	0.009	12.104	0.008	87.256	0.006	12.108	0.004	1000	23
1	19.120	90.722	15.908	90.719	0.003	15.907	0.001	90.722	-0.000	15.911	-0.003	1200	24
2	19.309	93.684	19.753	93.684	0.000	19.754	-0.001	93.687	-0.003	19.757	-0.004	1400	24
2	19.435	96.271	23.628	96.271	-0.000	23.630	-0.002	96.273	-0.002	23.632	-0.004	1600	25
1	19.524	98.566	27.524	98.566	0.000	27.526	-0.002	98.567	-0.001	27.527	-0.003	1800	25
0	19.588	100.627	31.436	100.626	0.001	31.437	-0.001	100.626	0.001	31.436	-0.000	2000	25
0	19.637	102.496	35.358	102.495	0.001	35.359	-0.001	102.495	0.001	35.357	0.001	2200	25
1	19.674	104.206	39.290	104.205	0.001	39.289	0.001	104.205	0.001	39.287	0.003	2400	25
1	19.703	105.782	43.227	105.781	0.001	43.227	0.000	105.781	0.001	43.225	0.002	2600	25
0	19.726	107.243	47.170	107.242	0.001	47.170	0.000	107.242	0.001	47.170	0.000	2800	25
1	19.744	108.605	51.117	108.603	0.002	51.117	-0.000	108.605	0.000	51.120	-0.003	3000	25
3	19.744	108.605	51.117	108.603	0.002	51.117	-0.000	108.605	0.000	51.121	-0.004	3000	25
1	19.760	109.879	55.068	109.878	0.001	55.068	0.000	109.879	0.000	55.068	-0.000	3200	25
0	19.772	111.078	59.021	111.077	0.001	59.022	-0.001	111.076	0.001	59.020	0.001	3400	25
2	19.783	112.208	62.977	112.207	0.001	62.977	-0.001	112.207	0.001	62.975	0.002	3600	25
2	19.792	113.278	66.934	113.277	0.001	66.935	-0.001	113.276	0.002	66.932	0.002	3800	25
2	19.800	114.294	70.893	114.293	0.001	70.895	-0.002	114.292	0.002	70.891	0.002	4000	25
1	19.807	115.260	74.854	115.259	0.001	74.855	-0.001	115.258	0.002	74.852	0.002	4200	25
0	19.813	116.181	78.816	116.180	0.001	78.817	-0.001	116.180	0.001	78.815	0.001	4400	25
0	19.818	117.062	82.779	117.061	0.001	82.780	-0.001	117.061	0.001	82.779	0.000	4600	25
0	19.822	117.906	86.743	117.904	0.002	86.743	0.000	117.905	0.001	86.743	-0.000	4800	25
0	19.826	118.715	90.708	118.714	0.001	90.707	0.001	118.714	0.001	90.708	-0.000	5000	25
1	19.830	119.493	94.673	119.491	0.002	94.672	0.001	119.492	0.001	94.674	-0.001	5200	25
1	19.833	120.241	98.640	120.240	0.001	98.638	0.002	120.240	0.001	98.640	-0.000	5400	25
0	19.835	120.962	102.606	120.961	0.001	102.605	0.001	120.961	0.001	102.607	-0.001	5600	25
1	19.838	121.658	106.574	121.657	0.001	106.574	0.000	121.657	0.001	106.573	0.001	5800	25
1	19.840	122.331	110.542	122.330	0.001	110.543	-0.001	122.330	0.001	110.540	0.002	6000	25

SULFURYL FLUORIDE (G) F 20 2S 1 0 0 0 671
 MOL. WT.= 102.600 BLOCK= 1393 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -181.300 KEY = 262
 FITS FOR NOTS RMS = 0.011848
 2 8 2 9 1 16 0 0 0 0 0 SULFURYL FLUORIDE (G) 10J 671 262
 +2.5010650E+1+5.0612545E-1-1.1104547E-1+8.2525797E-3 400 6000 11J 671 262
 -1.4592285E+0-1.9312719E+2+9.1239547E+1-1.8129998E+2F202S(G) 12J 671 262

FITS FOR EST RMS LOW = 0.017639 RMS HIGH = 0.007781
 2 8 2 9 1 16 0 0 0 0 0 SULFURYL FLUORIDE (G) 10F202S
 -181299+6+651453+5+253178+2+163565-3-151523+7+119893+3 4003000J 67111F202S
 -181299+6+651436+5+260086+2-258320-4-334131+7+119893+330006000J 67112F202S

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	C
6	400	18.287	72.762	1.740	73.076	-0.314	1.863	-0.123	73.107	-0.345	1.879	-0.139	11.
10	600	21.349	80.824	5.737	80.774	0.050	5.695	0.042	80.774	0.050	5.696	0.041	12.
5	800	22.960	87.210	10.184	87.169	0.041	10.149	0.035	87.170	0.040	10.151	0.033	13.
4	1000	23.866	92.440	14.875	92.423	0.017	14.861	0.014	92.426	0.014	14.865	0.010	13.
3	1200	24.413	96.844	19.707	96.838	0.006	19.706	0.001	96.843	0.001	19.712	-0.005	13.
4	1400	24.764	100.635	24.627	100.634	0.001	24.632	-0.005	100.639	-0.004	24.638	-0.011	13.
4	1600	25.002	103.958	29.606	103.959	-0.001	29.612	-0.006	103.962	-0.004	29.616	-0.010	13.
3	1800	25.169	106.913	34.623	106.913	0.000	34.628	-0.005	106.914	-0.001	34.630	-0.007	13.
0	2000	25.291	109.572	39.670	109.570	0.002	39.673	-0.003	109.570	0.002	39.671	-0.001	13.
1	2200	25.382	111.987	44.738	111.984	0.003	44.738	-0.001	111.983	0.004	44.734	0.004	13.
3	2400	25.452	114.198	49.821	114.195	0.003	49.821	0.000	114.194	0.004	49.816	0.005	13.
2	2600	25.508	116.238	54.918	116.234	0.004	54.916	0.002	116.233	0.005	54.913	0.005	13.
0	2800	25.552	118.130	60.024	118.126	0.004	60.022	0.002	118.127	0.003	60.023	0.001	13.
3	3000	25.587	119.894	65.138	119.891	0.003	65.136	0.002	119.894	0.000	65.145	-0.007	13.
4	3000	25.587	119.894	65.138	119.891	0.003	65.136	0.002	119.894	0.000	65.144	-0.006	13.
0	3200	25.617	121.546	70.258	121.543	0.003	70.258	0.000	121.545	0.001	70.260	-0.002	13.
1	3400	25.641	123.100	75.384	123.097	0.003	75.384	-0.000	123.098	0.002	75.383	0.001	13.
2	3600	25.662	124.566	80.514	124.564	0.002	80.516	-0.002	124.564	0.002	80.512	0.002	13.
2	3800	25.679	125.954	85.649	125.952	0.002	85.651	-0.002	125.952	0.002	85.646	0.003	13.
2	4000	25.694	127.272	90.786	127.269	0.003	90.786	-0.002	127.269	0.003	90.783	0.003	13.
2	4200	25.707	128.526	95.926	128.523	0.003	95.929	-0.003	128.523	0.003	95.924	0.002	13.
1	4400	25.718	129.722	101.069	129.719	0.003	101.071	-0.002	129.720	0.002	101.067	0.002	13.
0	4600	25.728	130.865	106.213	130.863	0.002	106.215	-0.002	130.863	0.002	106.213	0.000	13.
0	4800	25.736	131.960	111.360	131.958	0.002	111.360	-0.000	131.958	0.002	111.360	-0.000	13.
0	5000	25.744	133.011	116.508	133.008	0.003	116.507	0.001	133.009	0.002	116.509	-0.001	13.
1	5200	25.751	134.021	121.657	134.018	0.003	121.655	0.002	134.019	0.002	121.658	-0.001	13.
0	5400	25.757	134.993	126.808	134.990	0.003	126.806	0.002	134.991	0.002	126.809	-0.001	13.
1	5600	25.762	135.930	131.960	135.926	0.004	131.958	0.002	135.928	0.002	131.960	0.000	13.
1	5800	25.767	136.834	137.112	136.831	0.003	137.112	0.000	136.832	0.002	137.112	0.000	13.
2	6000	25.771	137.708	142.266	137.705	0.003	142.269	-0.003	137.705	0.003	142.264	0.002	13.

PHOSPHORUS DIFLUORIDE (G) F 2P 1 662
 MOL. WT. = 68.970 BLOCK = 1400 NO. POINT = 62
 DATA FROM 0 TO 6000 K RFORM(KCAL/(MOLE)) = -105.000 KEY = 263
 ITS FOR NOTS RMS = 0.002923
 9 1 15 0 0 0 0 0 0 0 PHOSPHORUS DIFLUORIDE (G) 10J 662 263
 5795281E+1+7.5002133E-2-1.7424076E-2+1.3664634E-3 400 6000 11J 662 263
 2019653E-1-1.1041293E+2+7.6845352E+1-1.0500000E+2F2P(G) 12J 662 263

SIL:
 MOI
 DATA
 FITS
 2 9
 +1.439
 -6.1509

ITS FOR EST RMS LOW = 0.002895 RMS HIGH = 0.004303
 9 1 15 0 0 0 0 0 0 0 PHOSPHORUS DIFLUORIDE (G) 10F2P
 5000+6+363220+5+138362+2+240040-4-425744+6+921839+2 4003000J 66211F2P
 5000+6+363241+5+140025+2-133702-4-111755+7+921839+230006000J 66212F2P

FITS
 2 9 1
 -140500
 -140500

-----NOTS-----

-----EST-----

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C
1													
39	11.640	65.488	1.140	65.547	-0.059	1.161	-0.021	65.550	-0.062	1.164	-0.024	400	11
11	12.687	70.434	3.586	70.424	0.010	3.577	0.009	70.425	0.008	3.579	0.007	600	12
33	13.169	74.158	6.178	74.150	0.008	6.170	0.008	74.152	0.006	6.172	0.006	800	13
10	13.419	77.126	8.839	77.122	0.004	8.835	0.004	77.125	0.001	8.837	0.002	1000	13
5	13.562	79.586	11.538	79.585	0.001	11.536	0.002	79.587	-0.001	11.539	-0.001	1200	13
11	13.652	81.684	14.260	81.683	0.001	14.259	0.001	81.685	-0.001	14.262	-0.002	1400	13
10	13.711	83.511	16.997	83.511	0.000	16.997	0.000	83.512	-0.001	16.998	-0.001	1600	13
7	13.752	85.129	19.743	85.128	0.001	19.743	-0.000	85.129	-0.000	19.744	-0.001	1800	13
11	13.782	86.579	22.497	86.579	0.000	22.497	0.000	86.579	-0.000	22.497	0.000	2000	13
14	13.804	87.894	25.255	87.893	0.001	25.255	-0.000	87.894	0.000	25.255	0.000	2200	13
5	13.821	89.096	28.018	89.095	0.001	28.018	0.000	89.095	0.001	28.017	0.001	2400	13
5	13.834	90.202	30.783	90.202	-0.000	30.783	-0.000	90.202	-0.000	30.782	0.001	2600	13
11	13.844	91.228	33.551	91.228	0.000	33.551	-0.000	91.228	-0.000	33.551	0.000	2800	13
7	13.853	92.184	36.321	92.183	0.001	36.321	-0.000	92.184	0.000	36.322	-0.001	3000	13
6	13.853	92.184	36.321	92.183	0.001	36.321	-0.000	92.184	0.000	36.324	-0.003	3000	13
2	13.860	93.078	39.092	93.078	0.000	39.093	-0.001	93.077	0.001	39.093	-0.001	3200	13
1	13.866	93.918	41.865	93.918	-0.000	41.865	-0.000	93.917	0.001	41.864	0.001	3400	13
2	13.870	94.711	44.639	94.711	0.000	44.639	-0.000	94.710	0.001	44.637	0.002	3600	13
3	13.875	95.461	47.413	95.461	0.000	47.414	-0.001	95.460	0.001	47.411	0.002	3800	14
3	13.878	96.173	50.188	96.173	0.000	50.189	-0.001	96.172	0.001	50.187	0.001	4000	14
2	13.881	96.850	52.964	96.850	0.000	52.965	-0.001	96.849	0.001	52.963	0.001	4200	14
2	13.884	97.496	55.741	97.495	0.001	55.741	-0.000	97.495	0.001	55.740	0.001	4400	14
0	13.886	98.113	58.518	98.113	0.000	58.518	0.000	98.112	0.001	58.517	0.001	4600	14
0	13.888	98.704	61.295	98.704	0.000	61.295	0.000	98.703	0.001	61.295	-0.000	4800	14
1	13.890	99.271	64.073	99.271	0.000	64.072	0.001	99.270	0.001	64.073	-0.000	5000	14
1	13.891	99.816	66.851	99.815	0.001	66.850	0.001	99.815	0.001	66.852	-0.001	5200	14
1	13.893	100.340	69.629	100.340	0.000	69.629	0.000	100.339	0.001	69.630	-0.001	5400	14
0	13.894	100.845	72.408	100.845	0.000	72.408	0.000	100.845	0.000	72.408	-0.000	5600	14
0	13.895	101.333	75.187	101.333	0.000	75.187	0.000	101.332	0.001	75.187	0.000	5800	14
2	13.896	101.804	77.966	101.804	0.000	77.967	-0.001	101.803	0.001	77.965	0.001	6000	14

SILICON DIFLUORIDE (G) F 2SI 1 0 0 0 0 1268
 MOL. WT.= 66.080 BLOCK= 1406 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -140.500 KEY = 264
 FITS FOR NOTS RMS = 0.013449
 2 9 1 14 0 0 0 0 0 0 0 0 SILICON DIFLUORIDE (G) 10J1268 264
 +1.4397637E+1-4.2365920E-1+9.4973802E-2-1.0920949E-3 400 6000 11J1268 264
 -6.1509704E-1-1.4654231E+2+7.6211044E+1-1.4050000E+2F2SI (G) 12J1268 264

FITS FOR EST RMS LOW = 0.002611 RMS HIGH = 0.005342
 2 9 1 14 0 0 0 0 0 0 0 0 SILICON DIFLUORIDE (G) 10F2SI
 -140500+6+362854+5+137917+2+442574-4-426448+6+912129+2 40030^0J126811F2SI
 -140500+6+362863+5+113752+2+566118-3+746163+7+912129+230006000J126812F2SI

-----NOTS-----								-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	11.581	64.564	1.134	64.779	-0.215	1.223	-0.089	64.618	-0.054	1.155	-0.021
600	12.640	69.488	3.570	69.473	0.015	3.552	0.018	69.478	0.010	3.563	0.007
800	13.137	73.201	6.154	73.170	0.031	6.125	0.029	73.196	0.005	6.150	0.004
1000	13.396	76.163	8.809	76.142	0.021	8.790	0.019	76.162	0.001	8.809	-0.000
1200	13.545	78.619	11.505	78.609	0.010	11.497	0.008	78.620	-0.001	11.506	-0.001
1400	13.639	80.715	14.224	80.711	0.004	14.224	-0.000	80.716	-0.001	14.225	-0.001
1600	13.700	82.540	16.958	82.540	-0.000	16.964	-0.006	82.541	-0.001	16.959	-0.001
1800	13.744	84.157	19.703	84.158	-0.001	19.711	-0.008	84.157	0.000	19.703	0.000
2000	13.775	85.606	22.455	85.607	-0.001	22.462	-0.007	85.606	-0.000	22.454	0.001
2200	13.800	86.921	25.213	86.920	0.001	25.217	-0.004	86.920	0.001	25.212	0.001
2400	13.821	88.122	27.975	88.121	0.001	27.977	-0.002	88.122	-0.000	27.974	0.001
2600	13.841	89.229	30.741	89.227	0.002	30.740	0.001	89.230	-0.001	30.741	-0.000
2800	13.862	90.256	33.511	90.252	0.004	33.508	0.003	90.256	-0.000	33.512	-0.001
3000	13.887	91.213	36.286	91.209	0.004	36.282	0.004	91.213	0.000	36.285	0.001
3000	13.887	91.213	36.286	91.209	0.004	36.282	0.004	91.213	0.000	36.286	-0.000
3200	13.917	92.110	39.066	92.106	0.004	39.062	0.004	92.111	-0.001	39.068	-0.002
3400	13.953	92.955	41.853	92.951	0.004	41.850	0.003	92.955	0.000	41.854	-0.001
3600	13.996	93.754	44.648	93.750	0.004	44.646	0.002	93.753	0.001	44.647	0.001
3800	14.047	94.512	47.452	94.509	0.003	47.452	0.000	94.511	0.001	47.450	0.002
4000	14.107	95.234	50.267	95.231	0.003	50.269	-0.002	95.233	0.001	50.265	0.002
4200	14.173	95.923	53.095	95.922	0.001	53.098	-0.003	95.923	0.000	53.093	0.002
4400	14.247	96.584	55.937	96.583	0.001	55.940	-0.003	96.584	0.000	55.936	0.001
4600	14.327	97.220	58.794	97.218	0.002	58.797	-0.003	97.219	0.001	58.794	0.000
4800	14.413	97.831	61.668	97.829	0.002	61.670	-0.002	97.831	0.000	61.669	-0.001
5000	14.503	98.421	64.560	98.419	0.002	64.560	0.000	98.421	-0.000	64.561	-0.001
5200	14.596	98.992	67.469	98.989	0.003	67.468	0.001	98.992	0.000	67.470	-0.001
5400	14.691	99.544	70.398	99.541	0.003	70.395	0.003	99.544	-0.000	70.399	-0.001
5600	14.787	100.081	73.346	100.077	0.004	73.342	0.004	100.080	0.001	73.346	0.000
5800	14.884	100.601	76.313	100.598	0.003	76.312	0.001	100.601	0.000	76.312	0.001
6000	14.979	101.107	79.299	101.106	0.001	79.304	-0.005	101.107	0.000	79.298	0.001

ZIRCO
MOL.
DATA F
PITS F
2 9 1
+1.46232
-1.36901

FITS P
2 9 1
-230000+
-230000+

-----NOTS-----

-----EST-----

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	K
7	13.486	64.927	1.335	64.585	0.342	1.193	0.142	64.804	0.123	1.287	0.048	400
3	14.213	70.557	4.117	70.602	-0.045	4.155	-0.038	70.581	-0.024	4.137	-0.020	500
0	14.504	74.692	6.993	74.748	-0.056	7.036	-0.043	74.710	-0.018	7.008	-0.015	600
3	14.660	77.946	9.910	77.969	-0.023	9.924	-0.014	77.947	-0.001	9.910	-0.000	700
2	14.784	80.630	12.855	80.630	0.000	12.843	0.012	80.623	0.007	12.846	0.009	800
3	14.923	82.919	15.825	82.910	0.009	15.803	0.022	82.912	0.007	15.816	0.009	900
3	15.089	84.922	18.826	84.915	0.007	18.805	0.021	84.918	0.004	18.822	0.004	1000
2	15.278	86.710	21.862	86.707	0.003	21.850	0.012	86.710	0.000	21.864	-0.002	1100
0	15.479	88.330	24.937	88.332	-0.002	24.935	0.002	88.331	-0.001	24.943	-0.006	1200
1	15.678	89.815	28.053	89.820	-0.005	28.058	-0.005	89.815	-0.000	28.057	-0.004	1300
1	15.868	91.187	31.208	91.194	-0.007	31.216	-0.008	91.186	0.001	31.208	-0.000	1400
1	16.040	92.464	34.399	92.472	-0.008	34.408	-0.009	92.462	0.002	34.396	0.003	1500
0	16.194	93.659	37.623	93.665	-0.006	37.630	-0.007	93.656	0.003	37.620	0.003	1600
2	16.330	94.781	40.876	94.786	-0.005	40.879	-0.003	94.781	0.000	40.880	-0.004	1700
5	16.330	94.781	40.876	94.786	-0.005	40.879	-0.003	94.781	0.000	40.882	-0.006	1800
1	16.449	95.838	44.154	95.843	-0.005	44.155	-0.001	95.837	0.001	44.155	-0.001	1900
1	16.554	96.839	47.454	96.843	-0.004	47.453	0.001	96.836	0.003	47.452	0.002	2000
3	16.648	97.788	50.775	97.791	-0.003	50.772	0.003	97.785	0.003	50.772	0.003	
3	16.733	98.690	54.113	98.694	-0.004	54.110	0.003	98.688	0.002	54.110	0.003	
3	16.811	99.550	57.468	99.554	-0.004	57.465	0.002	99.548	0.002	57.466	0.002	
2	16.884	100.372	60.837	100.377	-0.005	60.836	0.001	100.370	0.002	60.836	0.001	
1	16.952	101.160	64.221	101.164	-0.004	64.221	-0.000	101.158	0.002	64.221	-0.000	
1	17.016	101.914	67.618	101.919	-0.005	67.619	-0.001	101.913	0.001	67.619	-0.001	
0	17.075	102.640	71.027	102.645	-0.005	71.029	-0.002	102.638	0.002	71.028	-0.001	
1	17.131	103.338	74.448	103.343	-0.005	74.449	-0.001	103.336	0.002	74.449	-0.001	
1	17.183	104.011	77.879	104.016	-0.005	77.879	-0.000	104.009	0.002	77.879	-0.000	
1	17.230	104.660	81.320	104.665	-0.005	81.319	0.001	104.658	0.002	81.320	0.000	
1	17.272	105.288	84.770	105.292	-0.004	84.769	0.001	105.286	0.002	84.769	0.001	
1	17.309	105.895	88.229	105.899	-0.004	88.227	0.002	105.893	0.002	88.228	0.001	
2	17.341	106.482	91.694	106.487	-0.005	91.695	-0.001	106.480	0.002	91.695	-0.001	

ZIRCONIUM DIFLUORIDE (C) F 2ZR 1 0 0 0 0 669
 MOL. WT.= 129.210 BLOCK= 1431 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -230.000 KEY = 268
 FITS FOR NOTS RMS = 0.000921
 2 9 1 40 0 0 0 0 0 0 ZIRCONIUM DIFLUORIDE (C) 30J 669 268
 +1.4623288E+1+8.3362789E+0-3.0600786E+0+3.1039667E-1 400 2000 31J 669 268
 -1.3690185E-1-2.3514167E+2+3.2640823E+1-2.3000000E+2F2ZR(C) 32J 669 268

FITS FOR EST RMS LOW = 0.021455 RMS HIGH = 0.021455
 2 9 1 40 0 0 0 0 0 0 ZIRCONIUM DIFLUORIDE (C) 30F2ZR\$
 -230000+6+562392+5+202017+2+899157-3-925872+6+631999+2 4002000J 66931F2ZR\$
 -230000+6+562392+5+202017+2+899157-3-925872+6+631999+2 4002000J 66932F2ZR\$

H C/M	-----NOTS-----												-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M				
.048	400	16.700	22.766	1.654	22.766	0.000	1.653	0.001	23.000	-0.234	1.747	-0.093				
.020	500	17.500	26.580	3.365	26.577	0.003	3.363	0.002	26.556	0.024	3.344	0.021				
.015	600	18.200	29.834	5.151	29.834	-0.000	5.151	0.000	29.763	0.071	5.105	0.046				
.000	700	18.800	32.687	7.002	32.686	0.001	7.001	0.001	32.626	0.061	6.963	0.039				
.009	800	19.270	35.228	8.906	35.227	0.001	8.905	0.001	35.192	0.036	8.886	0.020				
.009	900	19.700	37.523	10.855	37.523	-0.000	10.855	0.000	37.509	0.014	10.854	0.001				
.004	1000	20.080	39.619	12.844	39.619	0.000	12.844	-0.000	39.619	-0.000	12.856	-0.012				
.002	1100	20.380	41.547	14.868	41.547	-0.000	14.868	0.000	41.554	-0.007	14.887	-0.019				
.006	1200	20.650	43.332	16.919	43.334	-0.002	16.921	-0.002	43.341	-0.009	16.940	-0.021				
.004	1300	20.890	44.995	18.997	44.997	-0.002	18.999	-0.002	45.000	-0.005	19.014	-0.017				
.000	1400	21.100	46.551	21.097	46.552	-0.001	21.097	-0.000	46.549	0.002	21.104	-0.007				
.003	1500	21.230	48.011	23.213	48.011	-0.001	23.213	-0.000	48.003	0.008	23.211	0.002				
.003	1600	21.350	49.386	25.343	49.385	0.001	25.342	0.001	49.372	0.014	25.332	0.011				
.004	1700	21.420	50.682	27.481	50.682	-0.000	27.481	-0.000	50.665	0.016	27.466	0.015				
.006	1800	21.490	51.909	29.627	51.909	0.000	29.627	0.000	51.893	0.016	29.613	0.014				
.001	1900	21.500	53.071	31.777	53.071	0.000	31.777	0.000	53.060	0.011	31.773	0.004				
.002	2000	21.500	54.174	33.927	54.174	-0.000	33.927	-0.000	54.174	0.000	33.944	-0.017				
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ZIRCONIUM DIFLUORIDE (L) P 2ZR 1 0 0 0 0 669
 MOL. WT.= 129.210 BLOCK= 1433 NO. POINT = 29
 DATA FROM 298 TO 3000 K HFORM(KCAL/(MOLE)) = -222.502 KEY = 269
 ITS FOR NOTS RMS = 0.056039
 9 1 40 0 0 0 0 0 0 0 ZIRCONIUM DIFLUORIDE (L) 20J 669 269
 1954299E+1-7.040834E+0+2.2033233E+0-2.3080307E-1 400 3000 21J 669 269
 3614501E+0-2.4124670E+2+5.1039428E+1-2.2250199E+2F2ZR(L) 22J 669 269

ITS FOR EST RMS LOW = 0.082634 RMS HIGH = 0.082634
 9 1 40 0 0 0 0 0 0 0 ZIRCONIUM DIFLUORIDE (L) 20F2ZR*
 2501+6+616758+5+258600+2-619192-3-202803+7+730539+2 4003000J 66921F2ZR*
 2501+6+616758+5+258600+2-619192-3-202803+7+730539+2 4003000J 66922F2ZR*

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-8.3789

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-3626194

T	NOTS-----								EST-----				T	C/
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH			
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K		
0	17.453	71.102	1.664	71.570	-0.468	1.852	-0.188	71.636	-0.534	1.882	-0.218	400	27.	
0	20.433	78.801	5.482	78.736	0.064	5.425	0.057	78.731	0.070	5.422	0.060	600	29.	
0	22.132	84.933	9.753	84.869	0.064	9.699	0.054	84.864	0.069	9.696	0.057	800	30.	
0	23.173	89.993	14.292	89.963	0.030	14.268	0.024	89.965	0.028	14.272	0.020	1000	30.	
0	23.847	94.281	18.998	94.273	0.008	18.998	0.000	94.278	0.003	19.005	-0.007	1200	31.	
0	24.303	97.994	23.816	97.994	0.000	23.826	-0.010	98.000	-0.006	23.835	-0.019	1400	31.	
0	24.623	101.261	28.711	101.263	-0.002	28.723	-0.012	101.267	-0.006	28.729	-0.018	1600	31.	
0	24.854	104.175	33.660	104.176	-0.001	33.670	-0.010	104.178	-0.003	33.671	-0.011	1800	31.	
0	25.027	106.803	38.648	106.802	0.001	38.655	-0.007	106.801	0.002	38.651	-0.003	2000	31.	
0	25.158	109.195	43.668	109.191	0.004	43.670	-0.002	109.189	0.006	43.662	0.006	2200	31.	
0	25.260	111.389	48.710	111.383	0.006	48.708	0.002	111.380	0.009	48.699	0.011	2400	31.	
0	25.341	113.414	53.770	113.408	0.006	53.767	0.003	113.406	0.008	53.761	0.009	2600	31.	
0	25.407	115.294	58.845	115.288	0.006	58.841	0.004	115.289	0.005	58.843	0.002	2800	31.	
0	25.460	117.049	63.932	117.043	0.006	63.928	0.004	117.049	0.000	63.945	-0.013	3000	31.	
0	25.460	117.049	63.932	117.043	0.006	63.928	0.004	117.049	0.000	63.938	-0.006	3000	31.	
0	25.504	118.694	69.029	118.688	0.006	69.026	0.003	118.692	0.002	69.030	-0.001	3200	31.	
0	25.541	120.241	74.133	120.236	0.005	74.132	0.001	120.239	0.002	74.132	0.001	3400	31.	
0	25.572	121.702	79.245	121.697	0.005	79.245	-0.000	121.699	0.003	79.242	0.003	3600	31.	
0	25.598	123.085	84.362	123.081	0.004	84.364	-0.002	123.082	0.003	84.358	0.004	3800	31.	
0	25.620	124.399	89.483	124.395	0.004	89.487	-0.004	124.396	0.003	89.481	0.002	4000	31.	
0	25.640	125.649	94.609	125.645	0.004	94.613	-0.004	125.646	0.003	94.607	0.002	4200	31.	
0	25.657	126.842	99.739	126.838	0.004	99.743	-0.004	126.840	0.002	99.738	0.001	4400	31.	
0	25.672	127.983	104.872	127.979	0.004	104.875	-0.003	127.981	0.002	104.872	0.000	4600	31.	
0	25.685	129.076	110.008	129.071	0.005	110.009	-0.001	129.074	0.002	110.008	-0.000	4800	31.	
0	25.696	130.125	115.146	130.120	0.005	115.145	0.001	130.123	0.002	115.147	-0.001	5000	31.	
0	25.707	131.133	120.286	131.128	0.005	120.284	0.002	131.131	0.002	120.287	-0.001	5200	31.	
0	25.716	1												

NITROGEN TRIFLUORIDE (G) P 3N 1 0 0 0 0 669
 MOL. WT. = 71.000 BLOCK = 1455 NO. POINT = 62
 TA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -31.430 KEY = 273
 TS FOR NOTS RMS = 0.005637
 7 3 9 0 0 0 0 0 0 0 NITROGEN TRIFLUORIDE (G) 10J 669 273
 560424E+1+1.9587135E-1-4.3927509E-2+3.3300826E-3 400 6000 11J 669 273
 953918E-1-4.0178131E+1+8.1374908E+1-3.1429992E+1F3N(G) 12J 669 273

PHOS
 MOI
 DATA
 FITS
 3 9 1
 +1.967
 -7.540

TS FOR EST RMS LOW = 0.007565 RMS HIGH = 0.005998
 7 3 9 0 0 0 0 0 0 0 NITROGEN TRIFLUORIDE (G) 10F3N
 299+5+508060+5+196760+2+625605-4-968928+6+103337+3 4003000J 66911F3N
 299+5+508073+5+200035+2-193314-4-207360+7+103337+330006000J 66912F3N

FITS
 3 9 1
 -224895
 -224895

-----NOTS-----												-----EST-----			
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		T		
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		K	C	
1	14.785	66.349	1.409	66.494	-0.145	1.465	-0.056	66.504	-0.155	1.471	-0.062		400	15	
32	17.072	72.836	4.624	72.812	0.024	4.603	0.021	72.812	0.024	4.605	0.019		600	17	
9	18.157	77.914	8.159	77.895	0.019	8.143	0.016	77.897	0.017	8.145	0.014		800	18	
6	18.728	82.033	11.853	82.025	0.008	11.846	0.007	82.027	0.006	11.850	0.003		1000	18	
2	19.059	85.479	15.635	85.476	0.003	15.633	0.002	85.479	-0.000	15.637	-0.002		1200	19	
1	19.266	88.434	19.469	88.433	0.001	19.470	-0.001	88.435	-0.001	19.473	-0.004		1400	19	
2	19.404	91.016	23.337	91.016	0.000	23.338	-0.001	91.017	-0.001	23.341	-0.004		1600	19	
1	19.500	93.307	27.227	93.307	0.000	27.229	-0.002	93.308	-0.001	27.230	-0.003		1800	19	
1	19.569	95.366	31.135	95.365	0.001	31.135	-0.000	95.365	0.001	31.135	-0.000		2000	19	
0	19.621	97.233	35.054	97.232	0.001	35.054	0.000	97.232	0.001	35.053	0.001		2200	19	
1	19.660	98.942	38.982	98.941	0.001	38.982	0.000	98.940	0.002	38.980	0.002		2400	19	
1	19.691	100.517	42.917	100.516	0.001	42.917	0.000	100.515	0.002	42.915	0.002		2600	19	
1	19.716	101.977	46.858	101.976	0.001	46.858	0.000	101.976	0.001	46.858	0.000		2800	19	
0	19.736	103.338	50.803	103.337	0.001	50.803	-0.000	103.338	0.000	50.806	-0.003		3000	19	
1	19.736	103.338	50.803	103.337	0.001	50.803	-0.000	103.338	0.000	50.807	-0.004		3000	19	
7	19.752	104.612	54.752	104.611	0.001	54.752	-0.000	104.611	0.001	54.753	-0.001		3200	19	
2	19.766	105.810	58.704	105.809	0.001	58.704	-0.000	105.808	0.002	58.703	0.001		3400	19	
1	19.777	106.940	62.658	106.939	0.001	62.659	-0.001	106.938	0.002	62.656	0.002		3600	19	
4	19.787	108.010	66.615	108.009	0.001	66.616	-0.001	108.008	0.002	66.612	0.003		3800	19	
4	19.795	109.025	70.573	109.024	0.001	70.574	-0.001	109.023	0.002	70.570	0.003		4000	19	
3	19.802	109.991	74.532	109.990	0.001	74.533	-0.001	109.989	0.002	74.531	0.001		4200	19	
3	19.808	110.912	78.493	110.911	0.001	78.494	-0.001	110.910	0.001	78.492	0.001		4400	19	
2	19.814	111.793	82.456	111.792	0.001	82.456	-0.000	111.791	0.002	82.455	0.001		4600	19	
0	19.818	112.636	86.419	112.635	0.001	86.419	0.000	112.635	0.001	86.419	0.000		4800	19	
1	19.822	113.446	90.383	113.444	0.002	90.382	0.001	113.444	0.002	90.383	-0.000		5000	19	
1	19.826	114.223	94.348	114.222	0.001	94.347	0.001	114.221	0.002	94.348	-0.000		5200	19	
1	19.829	114.971	98.313	114.970	0.001	98.312	0.001	114.970	0.001	98.314	-0.001		5400	19	
1	19.832	115.693	102.279	115.691	0.002	102.278	0.001	115.691	0.002	102.280	-0.001		5600	19	
1	19.835	116.389	106.246	116.387	0.002	106.246	0.000	116.387	0.002	106.245	0.000		5800	19	
0	19.837	117.061	110.213	117.060	0.001	110.214	-0.001	117.059	0.002	110.211	0.002		6000	19	

PHOSPHORUS TRIFLUORIDE (G) F 3P 1 0 0 0 0 1269
 MOL. WT.= 87.960 BLOCK= 1461 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -224.900 KEY = 274
 FITS FOR NOTS RMS = 0.004527
 3 9 1 15 0 0 0 0 0 0 PHOSPHORUS TRIFLUORIDE (G) 10J1269 274
 +1.9671813E+1+1.2616300E-1-2.8526131E-2+2.1841898E-3 400 6000 11J1269 274
 -7.5402832E-1-2.3309944E+2+8.5344436E+1-2.2489999E+2P3P(G) 12J1269 274

FITS FOR EST RMS LOW = 0.005247 RMS HIGH = 0.005941
 3 9 1 15 0 0 0 0 0 0 PHOSPHORUS TRIFLUORIDE (G) 10F3P
 -224899+6+514242+5+197411+2+416695-4-764128+6+107267+3 4003000J126911F3P
 -224899+6+514265+5+200062+2-196862-4-180147+7+107267+330006000J126912F3P

	-----NOTS-----								-----EST-----			
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
.062	400	15.791	69.619	1.525	69.724	-0.105	1.564	-0.039	69.729	-0.110	1.569	-0.044
.019	600	17.678	76.431	4.897	76.414	0.017	4.881	0.016	76.415	0.016	4.884	0.013
.014	800	18.543	81.650	8.530	81.636	0.014	8.516	0.014	81.638	0.012	8.520	0.010
.003	1000	18.990	85.841	12.287	85.834	0.007	12.281	0.006	85.836	0.005	12.285	0.002
.002	1200	19.247	89.328	16.113	89.325	0.003	16.111	0.002	89.327	0.001	16.115	-0.002
.004	1400	19.407	92.308	19.980	92.306	0.002	19.979	0.001	92.308	-0.000	19.983	-0.003
.004	1600	19.513	94.906	23.873	94.906	0.000	23.873	0.000	94.907	-0.001	23.875	-0.002
.003	1800	19.587	97.209	27.783	97.209	0.000	27.783	-0.000	97.209	-0.000	27.785	-0.002
.000	2000	19.640	99.276	31.706	99.275	0.001	31.706	-0.000	99.275	0.001	31.706	-0.000
.001	2200	19.680	101.150	35.638	101.149	0.001	35.638	-0.000	101.148	0.002	35.637	0.001
.002	2400	19.710	102.863	39.577	102.863	0.000	39.577	-0.000	102.862	0.001	39.576	0.001
.002	2600	19.734	104.442	43.522	104.441	0.001	43.521	0.000	104.440	0.002	43.520	0.002
.000	2800	19.753	105.905	47.470	105.904	0.001	47.470	-0.000	105.904	0.001	47.470	-0.000
.003	3000	19.768	107.268	51.422	107.268	0.000	51.423	-0.001	107.268	0.000	51.424	-0.002
.004	3000	19.763	107.268	51.422	107.268	0.000	51.423	-0.001	107.268	0.000	51.427	-0.005
.001	3200	19.780	108.545	55.377	108.544	0.001	55.378	-0.001	108.543	0.002	55.378	-0.001
.001	3400	19.791	109.744	59.334	109.744	0.000	59.335	-0.001	109.742	0.002	59.333	0.001
.002	3600	19.799	110.876	63.293	110.875	0.001	63.294	-0.001	110.873	0.003	63.291	0.002
.003	3800	19.807	111.946	67.254	111.946	0.000	67.255	-0.001	111.944	0.002	67.252	0.002
.003	4000	19.813	112.962	71.216	112.962	0.000	71.217	-0.001	112.960	0.002	71.214	0.002
.001	4200	19.818	113.929	75.179	113.929	0.000	75.180	-0.001	113.927	0.002	75.177	0.002
.001	4400	19.823	114.851	79.143	114.851	0.000	79.144	-0.001	114.849	0.002	79.142	0.001
.001	4600	19.827	115.733	83.108	115.732	0.001	83.109	-0.001	115.730	0.002	83.108	0.000
.000	4800	19.831	116.576	87.074	116.576	0.000	87.074	0.000	116.575	0.001	87.074	-0.000
.000	5000	19.834	117.386	91.041	117.385	0.001	91.040	0.001	117.384	0.002	91.041	-0.000
.000	5200	19.837	118.164	95.008	118.163	0.001	95.007	0.001	118.162	0.002	95.009	-0.001
.001	5400	19.839	118.913	98.975	118.912	0.001	98.974	0.001	118.911	0.002	98.976	-0.001
.001	5600	19.842	119.634	102.944	119.633	0.001	102.943	0.001	119.632	0.002	102.944	0.000
.000	5800	19.844	120.331	106.912	120.330	0.001	106.912	0.000	120.329	0.002	106.912	0.000
.002	6000	19.846	121.003	110.881	121.003	0.000	110.882	-0.001	121.001	0.002	110.879	0.002

HYDROGEN UNINEGATIVE ION

(G) H 1- 1

965

MOL. WT.= 1.000 BLOCK= 1470 NO. POINT = 59

DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 33.200 KEY = 276

FITS FOR NOTS RMS = 0.001250

1 -1 1 1 0 0 0 0 0 0 0 HYDROGEN UNINEGATIVE ION (G) 10J 965 276
 +4.9685955E+0+1.8382566E-3-9.7069144E-4+1.1566519E-4 400 6000 11J 965 276
 -1.1444091E-3+3.1715530E+1+3.2024368E+1+3.3199996E+1H- (G) 12J 965 276

FITS FOR EST RMS LOW = 0.000553 RMS HIGH = 0.001933

1 -1 1 1 0 0 0 0 0 0 0 HYDROGEN UNINEGATIVE ION (G) 10H-
 +331999+5+134231+5+496911+1-360998-6-723000+3+374849+2 4003000J 96511H-
 +331999+5+134242+5+499621+1-403093-5-186576+6+374849+230006000J 96512H-

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
201	400	4.968	27.475	0.506	27.476	-0.001	0.506	0.000	27.476	-0.001	0.507	-0.001
006	600	4.968	29.489	1.500	29.489	0.000	1.499	0.001	29.489	-0.000	1.500	0.000
087	800	4.968	30.918	2.493	30.918	0.000	2.492	0.001	30.918	-0.000	2.493	-0.000
099	1000	4.968	32.027	3.487	32.026	0.001	3.486	0.001	32.027	0.000	3.487	0.000
075	1200	4.968	32.933	4.481	32.932	0.001	4.480	0.001	32.933	0.000	4.480	0.001
035	1400	4.968	33.699	5.474	33.698	0.001	5.473	0.001	33.699	0.000	5.474	-0.000
006	1600	4.968	34.362	6.468	34.362	0.000	6.467	0.001	34.362	0.000	6.468	0.000
043	1800	4.968	34.947	7.461	34.947	0.000	7.461	-0.000	34.947	-0.000	7.461	-0.000
066	2000	4.968	35.471	8.455	35.471	0.000	8.455	0.000	35.471	0.000	8.455	-0.000
071	2200	4.968	35.944	9.449	35.944	-0.000	9.449	0.000	35.944	-0.000	9.449	0.000
053	2400	4.968	36.376	10.442	36.376	-0.000	10.442	-0.000	36.376	-0.000	10.442	-0.000
002	2600	4.968	36.774	11.436	36.774	-0.000	11.436	-0.000	36.774	-0.000	11.436	0.000
044	2800	4.968	37.142	12.430	37.142	-0.000	12.430	0.000	37.142	-0.000	12.430	0.000
061	3000	4.968	37.485	13.423	37.485	-0.000	13.424	-0.001	37.485	0.000	13.423	-0.000
050	3000	4.968	37.485	13.423	37.485	-0.000	13.424	-0.001	37.485	0.000	13.424	-0.001
010	3200	4.968	37.806	14.417	37.806	0.000	14.417	-0.000	37.805	0.001	14.417	-0.000
057	3400	4.968	38.107	15.410	38.107	-0.000	15.411	-0.001	38.106	0.001	15.410	-0.000
	3600	4.968	38.391	16.404	38.391	0.000	16.404	-0.000	38.390	0.001	16.404	0.000
	3800	4.968	38.659	17.398	38.660	-0.001	17.398	0.000	38.659	0.000	17.397	0.001
	4000	4.968	38.914	18.391	38.914	-0.000	18.392	-0.001	38.914	0.000	18.391	0.000
	4200	4.968	39.157	19.385	39.157	0.000	19.385	-0.000	39.156	0.001	19.385	0.000
	4400	4.968	39.388	20.379	39.388	0.000	20.379	0.000	39.387	0.001	20.378	0.001
	4600	4.968	39.609	21.372	39.609	0.000	21.372	-0.000	39.608	0.001	21.372	-0.000
	4800	4.968	39.820	22.366	39.820	-0.000	22.366	0.000	39.820	0.000	22.366	0.000
	5000	4.968	40.023	23.359	40.023	0.000	23.359	-0.000	40.022	0.001	23.360	-0.001
	5200	4.968	40.218	24.353	40.218	0.000	24.353	0.000	40.217	0.001	24.353	-0.000
	5400	4.968	40.405	25.347	40.405	-0.000	25.347	0.000	40.405	0.000	25.347	0.000
	5600	4.968	40.586	26.340	40.586	0.000	26.340	-0.000	40.586	0.000	26.341	-0.001
	5800	4.968	40.760	27.334	40.760	-0.000	27.334	-0.000	40.760	0.000	27.334	-0.000
	6000	4.968	40.929	28.328	40.929	0.000	28.328	0.000	40.928	0.001	28.327	0.001

TITANIUM TRIFLUORIDE (G) F 3TI 1 0 0 0 0 668
 MOL. WT.= 104.890 BLOCK= 1476 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -284.100 KEY = 277
 ITS FOR NOTS RMS = 0.003748
 9 1 22 0 0 0 0 0 0 0 TITANIUM TRIFLUORIDE (G) 10J 668 277
 703369E+1-1.4639413E-1+2.6251081E-2-2.1465308E-3 400 6000 113 668 277
 920104E-1-2.9195190E+2+9.1935485E+1-2.8409985E+2F3TI (G) 123 668 277

ZIR
 MO
 DATA
 FITS
 3 9
 +1.650
 -6.297

ITS FOR EST RMS LOW = 0.001774 RMS HIGH = 0.006125
 9 1 22 0 0 0 0 0 0 0 TITANIUM TRIFLUORIDE (G) 10F3TI
 4099+6+539586+5+206243+2-650734-4-493664+6+114366+3 4003000J 66811F3TI
 4099+6+539647+5+207801+2-737490-4-179072+7+114366+330006000J 66812F3TI

FITS
 3 9
 -33500
 -33500

-----NOTS-----													-----EST-----			
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T				
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K				
01	17.513	74.509	1.699	74.500	0.009	1.691	0.008	74.495	0.014	1.693	0.006	400				
00	19.190	81.986	5.398	81.984	0.002	5.394	0.004	81.988	-0.002	5.400	-0.002	500				
00	19.808	87.605	9.307	87.604	0.001	9.305	0.002	87.608	-0.003	9.310	-0.003	600				
00	20.074	92.057	13.298	92.056	0.001	13.296	0.002	92.058	-0.001	13.299	-0.001	700				
01	20.209	95.730	17.328	95.729	0.001	17.325	0.003	95.730	-0.000	17.328	0.000	800				
00	20.284	98.851	21.378	98.850	0.001	21.375	0.003	98.851	0.000	21.377	0.001	900				
00	20.328	101.563	25.439	101.562	0.001	25.436	0.003	101.562	0.001	25.438	0.001	1000				
00	20.353	103.959	29.508	103.958	0.001	29.505	0.003	103.958	0.001	29.507	0.001	1100				
00	20.367	106.104	33.580	106.104	0.000	33.578	0.002	106.104	0.000	33.579	0.001	1200				
00	20.376	108.046	37.654	108.046	0.000	37.653	0.001	108.046	0.000	37.654	-0.000	1300				
00	20.381	109.819	41.730	109.819	-0.000	41.730	0.000	109.819	-0.000	41.731	-0.001	1400				
00	20.383	111.450	45.806	111.451	-0.001	45.807	-0.001	111.451	-0.001	45.807	-0.001	1500				
00	20.384	112.961	49.883	112.962	-0.001	49.884	-0.001	112.961	-0.000	49.883	-0.000					
00	20.385	114.367	53.960	114.368	-0.001	53.962	-0.002	114.367	0.000	53.959	0.001					
01	20.385	114.367	53.960	114.368	-0.001	53.962	-0.002	114.367	0.000	53.965	-0.005					
00	20.384	115.683	58.037	115.684	-0.001	58.039	-0.002	115.681	0.002	58.038	-0.001					
00	20.382	116.918	62.113	116.920	-0.002	62.115	-0.002	116.916	0.002	62.112	0.001					
00	20.379	118.083	66.189	118.084	-0.001	66.191	-0.002	118.081	0.002	66.187	0.002					
01	20.376	119.185	70.265	119.186	-0.001	70.266	-0.001	119.183	0.002	70.263	0.002					
00	20.371	120.230	74.340	120.231	-0.001	74.340	-0.000	120.228	0.002	74.338	0.002					
00	20.366	121.224	78.413	121.225	-0.001	78.413	-0.000	121.222	0.002	78.412	0.001					
01	20.360	122.171	82.486	122.172	-0.001	82.486	0.000	122.169	0.002	82.485	0.001					
00	20.353	123.076	86.557	123.077	-0.001	86.557	0.000	123.074	0.002	86.557	0.000					
00	20.346	123.942	90.627	123.943	-0.001	90.627	0.000	123.940	0.002	90.627	-0.000					
01	20.338	124.773	94.696	124.773	-0.000	94.695	0.001	124.771	0.002	94.696	-0.000					
00	20.330	125.570	98.762	125.571	-0.001	98.762	-0.000	125.568	0.002	98.763	-0.001					
00	20.322	126.337	102.828	126.338	-0.001	102.828	0.000	126.336	0.001	102.828	-0.000					
01	20.313	127.076	106.891	127.077	-0.001	106.891	-0.000	127.074	0.002	106.892	-0.001					
00	20.305	127.789	110.953	127.789	-0.000	110.953	0.000	127.787	0.002	110.952	0.000					
01	20.296	128.477	115.013	128.478	-0.001	115.013	0.000	128.475	0.002	115.011	0.002					

ZIRCONIUM TRIFLUORIDE (C) F 3ZR 1 0 0 0 0 669

MOL. WT. = 148.210 BLOCK = 1482 NO. POINT = 14

DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -335.000 KEY = 278

FITS FOR NOTS RMS = 0.000707

3 9 1 40 0 0 0 0 0 0 0 ZIRCONIUM TRIFLUORIDE (C) 30J 669 278
+1.6501968E+1+1.9905654E+1-1.3971044E+1+3.3578310E+0 400 1500 31J 669 278
-6.2973022E-2-3.4092797E+2+3.5165775E+1-3.3500000E+2F3ZR (C) 32J 669 278

FITS FOR EST RMS LOW = 0.006369 RMS HIGH = 0.006369

3 9 1 40 0 0 0 0 0 0 0 ZIRCONIUM TRIFLUORIDE (C) 30F3ZR\$
-335000+6+698568+5+262251+2+296547-3-835152+6+782924+2 4001500J 66931F3ZR\$
-335000+6+698568+5+262251+2+296547-3-835152+6+782924+2 4001500J 66932F3ZR\$

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
400	21.950	27.182	2.147	27.178	0.004	2.146	0.001	27.244	-0.062	2.170	-0.023				
500	23.150	32.215	4.405	32.220	-0.005	4.407	-0.002	32.186	0.029	4.389	0.016				
600	24.000	36.515	6.765	36.514	0.001	6.764	0.001	36.487	0.028	6.749	0.016				
700	24.600	40.261	9.195	40.259	0.002	9.194	0.001	40.251	0.010	9.192	0.003				
800	25.100	43.580	11.682	43.580	0.000	11.682	0.000	43.583	-0.003	11.688	-0.006				
900	25.450	46.557	14.210	46.559	-0.002	14.211	-0.001	46.564	-0.007	14.219	-0.009				
1000	25.750	49.255	16.771	49.257	-0.002	16.772	-0.001	49.259	-0.004	16.777	-0.006				
1100	25.930	51.719	19.355	51.718	0.001	19.355	0.000	51.716	0.003	19.355	0.000				
1200	26.020	53.979	21.953	53.978	0.001	21.952	0.001	53.972	0.007	21.948	0.005				
1300	26.100	56.065	24.559	56.065	0.000	24.559	-0.000	56.058	0.007	24.554	0.005				
1400	26.170	58.001	27.173	58.002	-0.001	27.173	-0.000	57.997	0.004	27.171	0.002				
1500	26.230	59.809	29.793	59.809	-0.000	29.793	-0.000	59.809	0.000	29.797	-0.004				

DISULFUR MONOXIDE (G) 0 1S 2 965
 MOL. WT.= 80.120 BLOCK= 1484 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -13.500 KEY = 279
 FITS FOR NOTS RMS = 0.003954
 1 8 2 16 0 0 0 0 0 0 0 DISULFUR MONOXIDE (G) 10J 965 279
 +1.3704794E+1+1.2882483E-1-2.8821766E-2+2.1841898E-3 400 6000 11J 965 279
 -4.7909545E-1-1.9032928E+1+7.8127777E+1-1.3500000E+2+10S2 (G) 12J 965 279

FITS FOR EST RMS LOW = 0.005027 RMS HIGH = 0.004256
 1 8 2 16 0 0 0 0 0 0 0 DISULFUR MONOXIDE (G) 100S2
 -135000+5+361076+5+137786+2+421571-4-491008+6+934879+2 4003000J 965110S2
 -135000+5+361091+5+140115+2-147611-4-131678+7+934879+230006000J 965120S2

-----NOTS-----													-----EST-----	
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T		
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K		
400	11.424	67.024	1.121	67.117	-0.093	1.156	-0.035	67.123	-0.099	1.161	-0.040	400		
600	12.477	71.880	3.523	71.865	0.015	3.510	0.013	71.866	0.014	3.512	0.011	600		
800	13.011	75.551	6.078	75.538	0.013	6.066	0.012	75.540	0.011	6.069	0.009	800		
1000	13.303	78.488	8.712	78.482	0.006	8.706	0.006	78.485	0.003	8.709	0.003	1000		
1200	13.475	80.930	11.391	80.928	0.002	11.389	0.002	80.930	-0.000	11.392	-0.001	1200		
1400	13.585	83.016	14.098	83.015	0.001	14.098	0.000	83.017	-0.001	14.101	-0.003	1400		
1600	13.658	84.835	16.822	84.835	0.000	16.823	-0.001	84.836	-0.001	16.825	-0.003	1600		
1800	13.709	86.447	19.559	86.447	0.000	19.560	-0.001	86.447	-0.000	19.561	-0.002	1800		
2000	13.747	87.893	22.305	87.893	0.000	22.306	-0.001	87.893	-0.000	22.305	-0.000	2000		
2200	13.774	89.205	25.057	89.204	0.001	25.058	-0.001	89.204	0.001	25.057	0.000	2200		
2400	13.796	90.404	27.815	90.404	0.000	27.814	0.001	90.403	0.001	27.813	0.002	2400		
2600	13.813	91.509	30.576	91.509	0.000	30.575	0.001	91.508	0.001	30.574	0.002	2600		
2800	13.826	92.534	33.339	92.533	0.001	33.339	-0.000	92.533	0.001	33.339	-0.000	2800		
3000	13.837	93.488	36.106	93.487	0.001	36.106	0.000	93.488	0.000	36.108	-0.002	3000		
3000	13.837	93.488	36.106	93.487	0.001	36.106	0.000	93.488	0.000	36.109	-0.003	3000		
3200	13.846	94.381	38.874	94.380	0.001	38.874	-0.000	94.380	0.001	38.875	-0.001	3200		
3400	13.853	95.221	41.644	95.220	0.001	41.644	-0.000	95.220	0.001	41.643	0.001	3400		
3600	13.859	96.013	44.415	96.012	0.001	44.416	-0.001	96.011	0.002	44.414	0.001	3600		
3800	13.864	96.762	47.187	96.762	0.000	47.188	-0.001	96.761	0.001	47.186	0.001	3800		
4000	13.869	97.473	49.961	97.473	0.000	49.962	-0.001	97.472	0.001	49.959	0.002	4000		
4200	13.873	98.150	52.735	98.150	0.000	52.736	-0.001	98.149	0.001	52.734	0.001	4200		
4400	13.876	98.796	55.510	98.795	0.001	55.510	-0.000	98.794	0.002	55.509	0.001	4400		
4600	13.879	99.413	58.285	99.412	0.001	58.286	-0.001	99.411	0.002	58.285	-0.000	4600		
4800	13.882	100.003	61.061	100.003	0.000	61.061	-0.000	100.002	0.001	61.062	-0.001	4800		
5000	13.884	100.570	63.838	100.569	0.001	63.838	0.000	100.569	0.001	63.839	-0.001	5000		
5200	13.886	101.115	66.615	101.114	0.001	66.614	0.001	101.114	0.001	66.616	-0.001	5200		
5400	13.888	101.639	69.392	101.638	0.001	69.391	0.001	101.638	0.001	69.393	-0.001	5400		
5600	13.889	102.144	72.170	102.143	0.001	72.169	0.001	102.143	0.001	72.170	-0.000	5600		
5800	13.891	102.631	74.948	102.630	0.001	74.948	0.000	102.630	0.001	74.948	0.000	5800		
6000	13.892	103.102	77.726	103.102	0.000	77.727	-0.001	103.101	0.001	77.725	0.001	6000		

MOL. WT. = 104.080 BLOCK = 1496 NO. POINT = 62
DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -385.980 KEY = 281
ETS FOR NOTS RMS = 0.007368

9 1 14 0 0 0 0 0 0 0 0	SILICON TETRAFLUORIDE	(G)	10J	963	281
5411972E+1+2.6592040E-1-5.9687029E-2+4.5297704E-3	400 6000		11J	963	281
1298828E+0-3.9700390E+2+9.2775451E+1-3.8597998E+2	F4SI (G)		12J	963	281

ITS FOR EST RMS LOW = 0.009997 RMS HIGH = 0.007037
 9 1 14 0 0 0 0 0 0 0 SILICON TETRAFLUORIDE (G) 10F4SI
 5979+6+663436+5+255691+2+849518-4-115649+7+121327+3 4003000J 96311F4SI
 5979+6+663453+5+260080+2-254204-4-262502+7+121327+330006000J 96312F4SI

-----NOTS-----

EST

-----		CP		S		H		SC		DS		HC		DH		SC		DS		HC		DH	
		C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	C/M-K	KC/M	C/M-K	KC/M	C/M-K	KC/M	C/M-K	KC/M	C/M-K	KC/M	C/M-K	KC/M	C/M-K	KC/M	C/M-K	KC/M
		19.850	72.934	1.912	73.123	-0.189	1.986	-0.074	73.138	-0.204	1.994	-0.082											
		22.477	81.544	6.177	81.513	0.031	6.150	0.027	81.514	0.030	6.153	0.024											
		23.758	88.206	10.815	88.182	0.024	10.793	0.022	88.184	0.022	10.797	0.018											
		24.442	93.589	15.642	93.578	0.011	15.632	0.010	93.582	0.007	15.637	0.005											
		24.842	98.083	20.573	98.080	0.003	20.571	0.002	98.084	-0.001	20.576	-0.003											
		25.094	101.933	25.569	101.932	0.001	25.570	-0.001	101.936	-0.003	25.575	-0.006											
		25.261	105.296	30.605	105.295	0.001	30.608	-0.003	105.298	-0.002	30.611	-0.006											
		25.378	108.278	35.670	108.277	0.001	35.672	-0.002	108.279	-0.001	35.673	-0.003											
		25.463	110.957	40.754	110.955	0.002	40.756	-0.002	110.956	0.001	40.755	-0.001											
		25.526	113.387	45.854	113.385	0.002	45.854	-0.000	113.385	0.002	45.852	0.002											
		25.575	115.610	50.964	115.608	0.002	50.964	0.000	115.608	0.002	50.961	0.003											
		25.613	117.658	56.083	117.657	0.001	56.083	0.000	117.656	0.002	56.080	0.003											
		25.643	119.558	61.209	119.556	0.002	61.208	0.001	119.556	0.002	61.208	0.001											
		25.667	121.328	66.340	121.326	0.002	66.340	0.000	121.328	0.000	66.344	-0.004											
		25.667	121.328	66.340	121.326	0.002	66.340	0.000	121.328	0.000	66.345	-0.005											
		25.687	122.985	71.475	122.983	0.002	71.476	-0.001	122.984	0.001	71.476	-0.001											
		25.704	124.543	76.614	124.541	0.002	76.615	-0.001	124.541	0.002	76.613	0.001											
		25.718	126.012	81.757	126.011	0.001	81.758	-0.001	126.010	0.002	81.754	0.003											
		25.730	127.403	86.901	127.402	0.001	86.903	-0.002	127.401	0.002	86.898												

967

NO. POINT = 17

KEY = 282

0.000347

(C) 30J 967 282

31J 967 282

32J 967 282

0.005152

(C) 30F4TIS

96731F4TIS

96732F4TI\$

-NOTES-

EST-

[illegible]

TITANIUM TETRAFLUORIDE (G) F 4TI 1 0 0 0 0 967
 MOL. WT. = 123.890 BLOCK = 1504 NO. POINT = 62
 ATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = -370.800 KEY = 283
 FITS FOR NOTS RMS = 0.004573
 9 1 22 0 0 0 0 0 0 0 TITANIUM TETRAFLUORIDE (G) 10J 967 283
 .5704360E+1+8.3849430E-2-1.9658938E-2+1.5547554E-3 400 6000 11J 967 283
 .7480468E-1-3.8057397E+2+1.0298645E+2-3.7079980E+2F4TI (G) 12J 967 283

FITS FOR EST RMS LOW = 0.003841 RMS HIGH = 0.007790
 9 1 22 0 0 0 0 0 0 0 TITANIUM TETRAFLUORIDE (G) 10F4TI
 70799+6+677960+5+257422+2+292924-4-677056+6+131439+3 4003000J 96711F4TI
 70799+6+678005+5+260236+2-279184-4-201497+7+131439+330006000J 96712F4TI

	-----NOTS-----								-----EST-----							
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T			
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K			
C/M																
.019	22.126	81.492	2.170	81.575	-0.083	2.201	-0.031	81.574	-0.082	2.204	-0.034	400				
.014	23.905	90.853	6.800	90.840	0.013	6.787	0.013	90.842	0.011	6.791	0.009	500				
.012	24.682	97.850	11.668	97.839	0.011	11.656	0.012	97.842	0.008	11.661	0.007	600				
.002	25.075	103.405	16.648	103.398	0.007	16.641	0.007	103.402	0.003	16.646	0.002	700				
.004	25.298	107.998	21.687	107.995	0.003	21.683	0.004	107.997	0.001	21.688	-0.001	800				
.006	25.436	111.909	26.761	111.907	0.002	26.760	0.001	111.909	-0.000	26.763	-0.002	900				
.005	25.527	115.312	31.858	115.310	0.002	31.858	0.000	115.312	0.000	31.860	-0.002	1000				
.001	25.591	118.322	36.970	118.321	0.001	36.970	-0.000	118.322	0.000	36.971	-0.001	1100				
.003	25.636	121.021	42.093	121.020	0.001	42.093	-0.000	121.020	0.001	42.093	-0.000	1200				
.004	25.670	123.466	47.224	123.465	0.001	47.224	-0.000	123.465	0.001	47.223	0.001	1300				
.003	25.696	125.701	52.361	125.700	0.001	52.361	-0.000	125.699	0.002	52.360	0.001	1400				
.004	25.716	127.758	57.502	127.758	0.000	57.503	-0.001	127.757	0.001	57.501	0.001					
.004	25.732	129.665	62.647	129.664	0.001	62.648	-0.001	129.664	0.001	62.647	0.000					
	25.745	131.440	67.795	131.440	-0.000	67.796	-0.001	131.440	0.000	67.796	-0.001					
	25.745	131.440	67.795	131.440	-0.000	67.796	-0.001	131.440	0.000	67.800	-0.005					
	25.756	133.102	72.945	133.102	-0.000	72.946	-0.001	133.100	0.002	72.946	-0.001					
	25.764	134.664	78.097	134.664	0.000	78.098	-0.001	134.661	0.003	78.095	0.002					
	25.772	136.137	83.250	136.137	0.000	83.252	-0.002	136.134	0.003	83.247	0.003					
	25.778	137.530	88.405	137.530	-0.000	88.407	-0.002	137.527	0.003	88.402	0.003					
	25.783	138.853	93.561	138.853	0.000	93.563	-0.002	138.850	0.003	93.558	0.003					
	25.788	140.111	98.719	140.111	0.000	98.720	-0.001	140.108	0.003	98.716	0.003					
	25.792	141.311	103.877	141.310	0.001	103.877	-0.000	141.308	0.003	103.875	0.002					
	25.795	142.457	109.035	142.457	0.000	109.036	-0.001	142.455	0.002	109.035	0.000					
	25.799	143.555	114.195	143.555	0.000	114.195	0.000	143.553	0.002	114.195	-0.000					
	25.801	144.608	119.355	144.608	0.000	119.354	0.001	144.606	0.002	119.356	-0.001					
	25.804	145.620	124.515	145.620	0.000	124.515	0.000	145.618	0.002	124.516	-0.001					
	25.806	146.594	129.676	146.594	0.000	129.675	0.001	146.592	0.002	129.677	-0.001					
	25.808	147.533	134.838	147.532	0.001	134.837	0.001	147.530	0.003	134.838	0.000					
	25.809	148.438	139.999	148.438	0.000	139.999	-0.000	148.436	0.002	139.998	0.001					
	25.811	149.313	145.161	149.313	-0.000	145.162	-0.001	149.310	0.003	145.159	0.002					

ZIRCONIUM TETRAFLUORIDE (C) F 4ZR 1 0 0 0 0 669
 MOL. WT.= 167.210 BLOCK= 1511 NO. POINT = 16
 DATA FROM 0 TO 1400 K HPOPM(KCAL/(MOLE)) = -456.800 KEY = 284
 FITS FOR NOTS RMS = 0.000606
 4 9 1 40 0 0 0 0 0 0 0 ZIRCONIUM TETRAFLUORIDE (C) 30J 669 284
 +3.0763610E+1-1.1158180E+0+3.9182109E+0-9.1819548E-1 400 1400 31J 669 284
 -6.1064147E-1-4.6796752E+2+5.9093627E+1-4.5679980E+2F4ZR(C) 32J 669 284

FITS FOR EST RMS LOW = 0.001800 RMS HIGH = 0.001800
 4 9 1 40 0 0 0 0 0 0 0 ZIRCONIUM TETRAFLUORIDE (C) 30F4ZR\$
 -456799+6+942090+5+280282+2+442361-2-398768+6+993986+2 4001400J 66931F4ZR\$
 -456799+6+942090+5+280282+2+442361-2-398768+6+993986+2 4001400J 66932F4ZR\$

-----NOTS-----										-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		
400	27.120	32.663	2.653	32.661	0.002	2.653	0.000	32.647	0.016	2.647	0.006		
500	28.610	38.883	5.444	38.885	-0.002	5.445	-0.001	38.895	-0.012	5.450	-0.006		
600	29.630	44.195	8.359	44.197	-0.002	8.360	-0.001	44.204	-0.009	8.363	-0.004		
700	30.350	48.820	11.360	48.818	0.002	11.359	0.001	48.820	0.000	11.358	0.002		
800	30.930	52.911	14.424	52.910	0.001	14.424	-0.000	52.910	0.001	14.422	0.002		
900	31.510	56.587	17.546	56.589	-0.002	17.548	-0.002	56.588	-0.001	17.545	0.001		
1000	32.050	59.936	20.725	59.936	-0.000	20.725	-0.000	59.936	-0.000	20.724	0.001		
1100	32.560	63.014	23.955	63.014	0.000	23.955	0.000	63.016	-0.002	23.955	0.000		
1200	33.050	65.868	27.235	65.868	0.000	27.235	0.000	65.870	-0.002	27.236	-0.001		
1300	33.550	68.533	30.565	68.533	-0.000	30.566	-0.001	68.536	-0.003	30.566	-0.001		
1400	34.060	71.039	33.946	71.038	0.001	33.946	0.000	71.039	0.000	33.945	0.001		

GAMMA
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 8 2 1
 815293
 86981

ITS FC
 8 2 1
 6000+6
 6000+6

C
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 30.1
 31.3
 31.9
 32.8
 33.5
 34.1
 34.6
 35.1
 35.5
 36.0
 36.4
 36.8

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      ZIRC
      MOI
      DATA
      FITS
      4 9
      +2.575
      -5.764

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FITS
4 9 1
-400000
-400000

M	P	NOTS-----						EST-----				
		CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
		C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
06	0	24.135	19.023	2.254	18.952	0.071	2.225	0.029	19.289	-0.266	2.369	-0.115
04	0	28.233	29.694	7.545	29.721	-0.027	7.562	-0.017	29.696	-0.002	7.537	0.008
02	0	30.196	38.112	13.407	38.123	-0.011	13.412	-0.005	38.074	0.038	13.372	0.035
02	0	31.305	44.977	19.565	44.963	0.014	19.547	0.018	44.935	0.042	19.526	0.039
01	0	31.987	50.743	25.891	50.738	0.005	25.885	0.006	50.728	0.015	25.884	0.007
01	0	32.855	55.741	32.378	55.746	-0.005	32.384	-0.006	55.747	-0.006	32.396	-0.018
00	0	33.516	60.172	39.016	60.177	-0.005	39.023	-0.007	60.180	-0.008	39.038	-0.022
01	0	34.115	64.155	45.781	64.159	-0.004	45.784	-0.003	64.159	-0.004	45.796	-0.015
01	0	34.650	67.778	52.658	67.779	-0.001	52.657	0.001	67.775	0.003	52.661	-0.003
01	0	35.123	71.102	59.636	71.103	-0.001	59.633	0.003	71.095	0.007	59.629	0.007
	0	35.574	74.178	66.706	74.179	-0.001	66.704	0.001	74.169	0.009	66.695	0.011
	0	36.026	77.043	73.866	77.045	-0.002	73.867	-0.001	77.036	0.007	73.857	0.008
	0	36.472	79.730	81.116	79.731	-0.001	81.117	-0.001	79.724	0.006	81.115	0.001
	0	36.897	82.260	88.453	82.261	-0.001	88.452	0.001	82.260	0.000	88.465	-0.012

SULFUR HEXAFLUORIDE (G) F 6S 1 965 HYDROG
 MOL. WT.= 146.050 BLCK= 1522 NO. POINT = 62 MOL.
 TA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -291.790 KEY = 287 DATA FR
 TS FOR NOTS RMS = 0.008908 FITS FO
 9 1 16 0 0 0 0 0 0 0 SULFUR HEXAFLUORIDE (G) 10J 965 287 1 1 0
 7310775E+1+2.8650307E-1-6.5449237E-2+5.0462298E-3 400 6000 11J 965 287 +4.968595
 939453E+0-3.0851904E+2+1.0592558E+2-2.9178979E+2F6S(G) 12J 965 287 -1.144409

 TS FOR EST RMS LOW = 0.011079 RMS HIGH = 0.011356 FITS FO
 9 1 16 0 0 0 0 0 0 0 SULFUR HEXAFLUORIDE (G) 10F6S 1 1 0
 1789+6+966070+5+374770+2+904277-4-182094+7+147626+3 4003000J 96511F6S +520999+5
 1789+6+966113+5+380101+2-367893-4-382054+7+147626+330006000J 96512F6S +520999+5

-----NOTS-----												-----EST-----	
CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		T	C
C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		K	C/M
27.852	77.237	2.619	77.454	-0.217	2.701	-0.082	77.469	-0.232	2.713	-0.094		400	4.9
32.544	89.555	8.727	89.518	0.037	8.694	0.033	89.521	0.034	8.699	0.028		600	4.9
34.624	99.239	15.469	99.211	0.028	15.443	0.026	99.214	0.025	15.449	0.020		800	4.9
35.687	107.091	22.511	107.078	0.013	22.498	0.013	107.083	0.008	22.505	0.006		1000	4.9
36.294	113.656	29.714	113.651	0.005	29.710	0.004	113.655	0.001	29.717	-0.003		1200	4.9
36.670	119.281	37.013	119.279	0.002	37.013	0.000	119.283	-0.002	37.019	-0.006		1400	4.9
36.919	124.195	44.374	124.194	0.001	44.375	-0.001	124.197	-0.002	44.379	-0.005		1600	4.9
37.092	128.554	51.776	128.553	0.001	51.777	-0.001	128.554	-0.000	51.779	-0.003		1800	4.9
37.217	132.469	59.207	132.467	0.002	59.208	-0.001	132.467	0.002	59.207	-0.000		2000	4.9
37.309	136.020	66.660	136.019	0.001	66.660	-0.000	136.018	0.002	66.658	0.002		2200	4.9
37.380	139.270	74.130	139.268	0.002	74.129	0.001	139.267	0.003	74.126	0.004		2400	4.9
37.436	142.264	81.611	142.262	0.002	81.611	-0.000	142.261	0.003	81.608	0.003		2600	4.9
37.480	145.040	89.103	145.038	0.002	89.103	-0.000	145.038	0.002	89.102	0.001		2800	4.9
37.515	147.627	96.603	147.626	0.001	96.603	-0.000	147.627	0.000	96.607	-0.004		3000	4.9
37.515	147.627	96.603	147.626	0.001	96.603	-0.000	147.627	0.000	96.611	-0.008		3000	4.9
37.545	150.049	104.109	150.048	0.001	104.110	-0.001	150.047	0.002	104.111	-0.002		3200	4.9
37.569	152.326	111.620	152.325	0.001	111.622	-0.002	152.323	0.003	111.618	0.001		3400	4.9
37.589	154.474	119.136	154.473	0.001	119.138	-0.002	154.470	0.004	119.132	0.004		3600	4.9
37.606	156.507	126.656	156.506	0.001	126.658	-0.002	156.503	0.004	126.651	0.005		3800	4.9
37.621	158.436	134.178	158.435	0.001	134.181	-0.003	158.432	0.004	134.174	0.004		4000	4.9
37.634	160.272	141.704	160.271	0.001	141.706	-0.002	160.268	0.004	141.701	0.003		4200	4.9
37.645	162.023	149.232	162.022	0.001	149.234	-0.002	162.019	0.004	149.230	0.002		4400	4.9
37.654	163.697	156.762	163.695	0.002	156.763	-0.001	163.693	0.004	156.761	0.001		4600	4.9
37.663	165.300	164.293	165.298	0.002	164.294	-0.001	165.296	0.004	164.294	-0.001		4800	4.9
37.670	166.837	171.827	166.835	0.002	171.826	0.001	166.834	0.003	171.828	-0.001		5000	4.9
37.677	168.315	179.361	168.313	0.002	179.360	0.001	168.312	0.003	179.363	-0.002		5200	4.9
37.683	169.737	186.897	169.735	0.002	186.896	0.001	169.734	0.003	186.899	-0.002		5400	4.9
37.688	171.107	194.435	171.105	0.002	194.433	0.002	171.104	0.003	194.435	-0.000		5600	4.9
37.693	172.430	201.973	172.428	0.002	201.972	0.001	172.427	0.003	201.972	0.001		5800	4.9
37.697	173.708	209.512	173.707	0.001	209.514	-0.002	173.704	0.004	209.508	0.004		6000	4.9

HYDROGEN, MONATOMIC (G) H 1 965
 MOL. WT.= 1.000 BLOCK= 1528 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 52.100 KEY = 288
 FITS FOR NOTS RMS = 0.001250
 1 1 0 0 0 0 0 0 0 0 0 HYDROGEN, MCNATOMIC (G) 10J 965 288
 +4.9685955E+0+1.8382566E-3-9.7069144E-4+1.1566519E-4 400 6000 11J 965 288
 -1.1444091E-3+5.0615524E+1+3.3401840E+1+5.2099990E+1H (G) 12J 965 288

FITS FOR EST RMS LOW = 0.000553 RMS HIGH = 0.001933
 1 1 0 0 0 0 0 0 0 0 0 HYDROGEN, MONATOMIC (G) 10H
 +520999+5+134231+5+496911+1-360998-6-723000+3+388619+2 4003000J 96511H
 +520999+5+134242+5+499621+1-403093-5-186576+6+388619+230006000J 96512H

/M	-----NOTS-----								-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
094	400	4.968	28.852	0.506	28.853	-0.001	0.506	0.000	28.853	-0.001	0.507	-0.001
028	600	4.968	30.867	1.500	30.866	0.001	1.499	0.001	30.866	0.001	1.500	0.000
020	800	4.968	32.296	2.493	32.295	0.001	2.492	0.001	32.295	0.001	2.493	-0.000
006	1000	4.968	33.404	3.487	33.404	0.000	3.486	0.001	33.404	0.000	3.487	0.000
003	1200	4.968	34.310	4.481	34.310	0.000	4.480	0.001	34.310	0.000	4.480	0.001
006	1400	4.968	35.076	5.474	35.076	0.000	5.473	0.001	35.076	0.000	5.474	-0.000
005	1600	4.968	35.739	6.468	35.739	-0.000	6.467	0.001	35.739	0.000	6.468	0.000
003	1800	4.968	36.325	7.461	36.324	0.001	7.461	-0.000	36.324	0.001	7.461	-0.000
000	2000	4.968	36.848	8.455	36.848	0.000	8.455	0.000	36.848	0.000	8.455	-0.000
002	2200	4.968	37.322	9.449	37.322	0.000	9.449	0.000	37.321	0.001	9.449	0.000
004	2400	4.968	37.754	10.442	37.754	0.000	10.442	-0.000	37.753	0.001	10.442	-0.000
003	2600	4.968	38.152	11.436	38.152	0.000	11.436	-0.000	38.151	0.001	11.436	0.000
001	2800	4.968	38.520	12.430	38.520	0.000	12.430	0.000	38.519	0.001	12.430	0.000
004	3000	4.968	38.862	13.423	38.863	-0.001	13.424	-0.001	38.862	0.000	13.423	-0.000
008	3000	4.968	38.862	13.423	38.863	-0.001	13.424	-0.001	38.862	0.000	13.424	-0.001
002	3200	4.968	39.183	14.417	39.183	-0.000	14.417	-0.000	39.182	0.001	14.417	-0.000
001	3400	4.968	39.484	15.410	39.484	-0.000	15.411	-0.001	39.483	0.001	15.410	-0.000
004	3600	4.968	39.768	16.404	39.768	-0.000	16.404	-0.000	39.767	0.001	16.404	0.000
005	3800	4.968	40.037	17.398	40.037	-0.000	17.398	0.000	40.036	0.001	17.397	0.001
004	4000	4.968	40.292	18.391	40.292	0.000	18.392	-0.001	40.291	0.001	18.391	0.000
003	4200	4.968	40.534	19.385	40.534	-0.000	19.385	-0.000	40.533	0.001	19.385	0.000
002	4400	4.968	40.765	20.379	40.765	-0.000	20.379	0.000	40.764	0.001	20.378	0.001
001	4600	4.968	40.986	21.372	40.986	-0.000	21.372	-0.000	40.985	0.001	21.372	-0.000
001	4800	4.968	41.198	22.366	41.198	0.000	22.366	0.000	41.197	0.001	22.366	0.000
001	5000	4.968	41.400	23.359	41.400	-0.000	23.359	-0.000	41.399	0.001	23.360	-0.001
002	5200	4.968	41.595	24.353	41.595	-0.000	24.353	0.000	41.594	0.001	24.353	-0.000
002	5400	4.968	41.783	25.347	41.783	0.000	25.347	0.000	41.782	0.001	25.347	0.000
000	5600	4.968	41.963	26.340	41.963	-0.000	26.340	-0.000	41.963	0.000	26.341	-0.001
001	5800	4.968	42.138	27.334	42.138	0.000	27.334	-0.000	42.137	0.001	27.334	-0.000
004	6000	4.968	42.306	28.328	42.306	-0.000	28.328	0.000	42.305	0.001	28.327	0.001

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LITHIUM
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+1.1944996
-2.2828578

FITS FOR
1 1 1 8
-115899+6+
-115899+6+

-----NOTS-----								-----EST-----			
CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
7.364	42.943	0.736	43.047	-0.104	0.777	-0.041	43.071	-0.128	0.788	-0.052	
7.921	46.037	2.266	46.020	0.017	2.251	0.015	46.019	0.018	2.251	0.015	
8.329	48.376	3.894	48.362	0.014	3.882	0.012	48.360	0.016	3.881	0.013	
8.601	50.265	5.589	50.259	0.006	5.584	0.005	50.260	0.005	5.585	0.004	
8.790	51.851	7.329	51.849	0.002	7.328	0.001	51.851	0.000	7.331	-0.002	
8.929	53.217	9.101	53.217	0.000	9.103	-0.002	53.219	-0.002	9.105	-0.004	
9.038	54.417	10.898	54.417	0.000	10.900	-0.002	54.418	-0.001	10.902	-0.004	
9.128	55.487	12.715	55.486	0.001	12.717	-0.002	55.487	-0.000	12.718	-0.003	
9.206	56.452	14.549	56.452	0.000	14.550	-0.001	56.452	0.000	14.549	-0.000	
9.275	57.333	16.397	57.332	0.001	16.397	-0.000	57.332	0.001	16.396	0.001	
9.338	58.143	18.258	58.142	0.001	18.258	-0.000	58.141	0.002	18.256	0.002	
9.396	58.893	20.132	58.892	0.001	20.131	0.001	58.891	0.002	20.130	0.002	
9.452	59.591	22.017	59.590	0.001	22.016	0.001	59.590	0.001	22.016	0.001	
9.505	60.245	23.912	60.244	0.001	23.912	0.000	60.245	0.000	23.915	-0.003	
9.505	60.245	23.912	60.244	0.001	23.912	0.000	60.245	0.000	23.910	0.002	
9.557	60.860	25.819	60.859	0.001	25.818	0.001	60.861	-0.001	25.820	-0.001	
9.608	61.441	27.735	61.440	0.001	27.735	-0.000	61.442	-0.001	27.737	-0.002	
9.659	61.992	29.662	61.991	0.001	29.662	-0.000	61.993	-0.001	29.663	-0.001	
9.711	62.515	31.599	62.514	0.001	31.599	-0.000	62.516	-0.001	31.599	0.000	
9.763	63.015	33.546	63.014	0.001	33.547	-0.001	63.015	-0.000	33.545	0.001	
9.816	63.492	35.504	63.492	0.000	35.505	-0.001	63.493	-0.001	35.502	0.002	
9.870	63.950	37.473	63.949	0.001	37.473	-0.000	63.950	-0.000	37.470	0.003	
9.927	64.390	39.452	64.389	0.001	39.453	-0.001	64.391	-0.001	39.451	0.001	
9.986	64.814	41.443	64.813	0.001	41.444	-0.001	64.814	-0.000	41.443	0.000	
10.047	65.223	43.447	65.222	0.001	43.447	0.000	65.224	-0.001	43.447	-0.000	
10.111	65.618	45.463	65.617	0.001	45.462	0.001	65.619	-0.001	45.464	-0.001	
10.178	66.001	47.492	66.000	0.001	47.491	0.001	66.002	-0.001	47.493	-0.001	
10.248	66.372	49.534	66.371	0.001	49.533	0.001	66.373	-0.001	49.536	-0.002	
10.321	66.733	51.591	66.732	0.001	51.591	0.000	66.734	-0.001	51.591	-0.000	
10.396	67.084	53.663	67.084	0.000	53.664	-0.001	67.085	-0.001	53.660	0.003	

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[illegible]

LITHIUM
MOL.
DATA FI
FITS FO
1 1 1
+1.20846
-2.61093

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      FITS FC
      1  1  1
-560000+5
-560000+5

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T K	C C/M
400	11.7
600	12.3
800	12.6
1000	12.9
1200	13.2
1400	13.4
1600	13.6
1800	13.8
2000	14.0
2200	14.1
2400	14.2
2600	14.3
2800	14.3
3000	14.4
3000	14.4
3200	14.4
3400	14.5
3600	14.5
3800	14.5
4000	14.6
4200	14.6
4400	14.6
4600	14.6
4800	14.7
5000	14.7
5200	14.7
5400	14.7
5600	14.7
5800	14.7
6000	14.7

LITHIUM HYDROXIDE

(G)

H 1LI 10 1 0 0 0

671

MOL. WT. = 23.940 BLCK = 1545 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = -56.000 KEY = 292

FITS FOR NOTS RMS = 0.011875

1 1 1 8 1 71 0 0 0 0 0 LITHIUM HYDROXIDE (G) 10J 671 292
 +1.2084696E+1+1.4971446E+0-2.9518157E-1+2.0254865E-2 400 6000 11J 671 292
 -2.6109313E-1-6.0364608E+1+6.3525955E+1-5.6000000E+1HLIO (G) 12J 671 292

FITS FOR EST RMS LOW = 0.022722 RMS HIGH = 0.004520

1 1 1 8 1 71 0 0 0 0 0 LITHIUM HYDROXIDE (G) 10HLIO
 -560000+5+364847+5+130382+2+520662-3-462432+6+801659+2 4003000J 67111HLIO
 -560000+5+364744+5+149171+2-418705-5-437632+7+801659+230006000J 67112HLIO

-----NOTS-----

-----EST-----

/M	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
001	400	11.731	53.671	1.163	53.844	-0.173	1.236	-0.073	53.961	-0.290	1.286	-0.123
001	600	12.361	58.565	3.581	58.562	0.003	3.570	0.011	58.549	0.016	3.560	0.021
000	800	12.698	62.170	6.089	62.140	0.030	6.060	0.029	62.123	0.047	6.048	0.041
000	1000	12.983	65.035	8.657	65.013	0.022	8.636	0.021	65.006	0.029	8.634	0.023
001	1200	13.248	67.426	11.281	67.416	0.010	11.273	0.008	67.417	0.009	11.279	0.002
000	1400	13.486	69.486	13.955	69.484	0.002	13.957	-0.002	69.488	-0.002	13.967	-0.012
000	1600	13.691	71.301	16.673	71.302	-0.001	16.681	-0.008	71.306	-0.005	16.690	-0.017
000	1800	13.864	72.924	19.429	72.925	-0.001	19.438	-0.009	72.927	-0.003	19.442	-0.013
000	2000	14.008	74.392	22.217	74.393	-0.001	22.223	-0.006	74.391	0.001	22.222	-0.005
001	2200	14.127	75.733	25.031	75.732	0.001	25.034	-0.003	75.728	0.005	25.027	0.004
000	2400	14.226	76.966	27.866	76.965	0.001	27.867	-0.001	76.959	0.007	27.857	0.009
000	2600	14.309	78.109	30.720	78.106	0.003	30.718	0.002	78.100	0.009	30.710	0.010
000	2800	14.379	79.172	33.589	79.168	0.004	33.586	0.003	79.166	0.006	33.586	0.003
000	3000	14.437	80.166	36.471	80.162	0.004	36.467	0.004	80.166	0.000	36.485	-0.014
000	3000	14.437	80.166	36.471	80.162	0.004	36.467	0.004	80.166	0.000	36.474	-0.003
000	3200	14.487	81.099	39.363	81.096	0.003	39.360	0.003	81.098	0.001	39.364	-0.001
000	3400	14.529	81.979	42.265	81.976	0.003	42.263	0.002	81.978	0.001	42.264	0.001
000	3600	14.566	82.810	45.175	82.808	0.002	45.174	0.001	82.809	0.001	45.173	0.002
000	3800	14.598	83.599	48.091	83.596	0.003	48.092	-0.001	83.597	0.002	48.090	0.001
000	4000	14.625	84.348	51.014	84.346	0.002	51.016	-0.002	84.347	0.001	51.012	0.002
000	4200	14.649	85.062	53.941	85.061	0.001	53.944	-0.003	85.061	0.001	53.940	0.001
000	4400	14.670	85.744	56.873	85.743	0.001	56.876	-0.003	85.743	0.001	56.873	0.000
000	4600	14.689	86.397	59.809	86.395	0.002	59.811	-0.002	86.396	0.001	59.809	-0.000
000	4800	14.706	87.022	62.749	87.020	0.002	62.750	-0.001	87.021	0.001	62.749	0.000
000	5000	14.720	87.623	65.691	87.621	0.002	65.691	0.000	87.622	0.001	65.692	-0.001
000	5200	14.733	88.200	68.637	88.198	0.002	68.635	0.002	88.200	0.000	68.637	-0.000
000	5400	14.745	88.757	71.584	88.754	0.003	71.582	0.002	88.756	0.001	71.585	-0.001
000	5600	14.756	89.293	74.535	89.290	0.003	74.532	0.003	89.292	0.001	74.535	0.000
000	5800	14.766	89.811	77.487	89.809	0.002	77.486	0.001	89.810	0.001	77.487	0.000
000	6000	14.774	90.312	80.441	90.310	0.002	80.445	-0.004	90.311	0.001	80.440	0.001

$$\begin{array}{r} 1 \\ 1 \\ 1 \\ + 1. \\ - 7. \end{array}$$

1
-52
-52

-----NOTS-----								-----EST-----				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	7.298	48.257	0.731	48.485	-0.228	0.824	-0.093	48.389	-0.132	0.784	-0.053	40
600	7.834	51.319	2.245	51.296	0.023	2.222	0.023	51.298	0.021	2.228	0.017	60
800	8.248	53.633	3.856	53.601	0.032	3.828	0.028	53.617	0.016	3.843	0.013	80
1000	8.531	55.506	5.535	55.488	0.018	5.520	0.015	55.501	0.005	5.532	0.003	100
1200	8.728	57.080	7.262	57.072	0.008	7.258	0.004	57.080	0.000	7.265	-0.003	120
1400	8.873	58.436	9.023	58.435	0.001	9.027	-0.004	58.438	-0.002	9.028	-0.005	140
1600	8.986	59.629	10.810	59.630	-0.001	10.817	-0.007	59.630	-0.001	10.813	-0.003	160
1800	9.078	60.693	12.616	60.694	-0.001	12.624	-0.008	60.693	-0.000	12.618	-0.002	180
2000	9.157	61.654	14.440	61.654	0.000	14.446	-0.006	61.653	0.001	14.440	0.000	200
2200	9.227	62.530	16.279	62.529	0.001	16.282	-0.003	62.528	0.002	16.277	0.002	220
2400	9.293	63.335	18.131	63.333	0.002	18.131	-0.000	63.334	0.001	18.129	0.002	240
2600	9.355	64.082	19.995	64.079	0.003	19.994	0.001	64.080	0.002	19.994	0.001	260
2800	9.418	64.777	21.873	64.774	0.003	21.870	0.003	64.776	0.001	21.873	0.000	280
3000	9.483	65.429	23.763	65.426	0.003	23.759	0.004	65.429	0.000	23.765	-0.002	300
3000	9.483	65.429	23.763	65.426	0.003	23.759	0.004	65.429	0.000	23.762	0.001	300
3200	9.551	66.043	25.666	66.040	0.003	25.663	0.003	66.044	-0.001	25.668	-0.002	320
3400	9.623	66.625	27.584	66.621	0.004	27.581	0.003	66.625	-0.000	27.585	-0.001	340
3600	9.700	67.177	29.516	67.174	0.003	29.515	0.001	67.177	-0.000	29.517	-0.001	360
3800	9.783	67.704	31.464	67.701	0.003	31.465	-0.001	67.704	0.000	31.464	0.000	380
4000	9.871	68.208	33.429	68.205	0.003	33.431	-0.002	68.207	0.001	33.428	0.001	400
4200	9.965	68.691	35.413	68.689	0.002	35.416	-0.003	68.691	-0.000	35.411	0.002	420
4400	10.063	69.157	37.416	69.155	0.002	37.419	-0.003	69.157	-0.000	37.414	0.002	440
4600	10.167	69.607	39.439	69.605	0.002	39.441	-0.002	69.607	0.000	39.438	0.001	460
4800	10.274	70.042	41.483	70.039	0.003	41.484	-0.001	70.042	0.000	41.483	0.000	480
5000	10.386	70.463	43.549	70.461	0.002	43.549	0.000	70.464	-0.001	43.549	-0.000	500
5200	10.501	70.873	45.637	70.870	0.003	45.636	0.001	70.873	-0.000	45.639	-0.002	520
5400	10.618	71.272	47.749	71.268	0.004	47.747	0.002	71.272	0.000	47.751	-0.002	540
5600	10.739	71.660	49.885	71.657	0.003	49.882	0.003	71.660	-0.000	49.886	-0.001	560
5800	10.861	72.039	52.045	72.036	0.003	52.044	0.001	72.039	0.000	52.045	0.000	580
6000	10.984	72.409	54.229	72.407	0.002	54.233	-0.004	72.409	0.000	54.227	0.002	6000

MAGNESIUM MONOHYDROXIDE

(G)

H 1MG 10 1 0 0 0

667

MOL. WT. = 41.310

BLOCK = 1557

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -52.000 KEY = 294

FITS FOR NOTS RMS = 0.015961

1 1 1 8 1 12 0 0 0 0 0 MAGNESIUM MONOHYDROXIDE (G) 10J 667 294
 +1.1842735E+1+1.7007341E+C-3.5908412E-1+2.7598261E-2 400 6000 11J 667 294
 -7.2482299E-1-5.7648895E+1+6.3756088E+1-5.2000000E+1HMGO (G) 12J 667 294

FITS FOR EST RMS LOW = 0.028303 RMS HIGH = 0.007378

1 1 1 8 1 12 0 0 0 0 0 MAGNESIUM MONOHYDROXIDE (G) 10HMGO
 -520000+5+351219+5+129304+2+559519-3-947232+6+805469+2 4003000J 66711HMGO
 -520000+5+351049+5+139262+2+181122-3-649808+6+805469+230006000J 66712HMGO

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.053	400	9.485	55.535	0.910	55.822	-0.287	1.029	-0.119	55.946	-0.411	1.082	-0.172	
0.017	600	10.970	59.692	2.971	59.671	0.021	2.946	0.025	59.656	0.036	2.935	0.036	
0.013	800	11.817	62.974	5.257	62.930	0.044	5.217	0.040	62.912	0.062	5.204	0.053	
0.003	1000	12.394	65.676	7.681	65.649	0.027	7.656	0.025	65.643	0.033	7.654	0.027	
-0.003	1200	12.835	67.976	10.205	67.965	0.011	10.198	0.007	67.968	0.008	10.206	-0.001	
-0.005	1400	13.183	69.982	12.809	69.980	0.002	12.813	-0.004	69.986	-0.004	12.824	-0.015	
-0.003	1600	13.462	71.761	15.474	71.763	-0.002	15.484	-0.010	71.768	-0.007	15.494	-0.020	
-0.002	1800	13.685	73.360	18.190	73.362	-0.002	18.200	-0.010	73.364	-0.004	18.204	-0.014	
0.000	2000	13.864	74.812	20.945	74.812	-0.000	20.953	-0.008	74.810	0.002	20.951	-0.006	
0.002	2200	14.010	76.140	23.733	76.139	0.001	23.737	-0.004	76.134	0.006	23.729	0.004	
0.002	2400	14.129	77.365	26.548	77.362	0.003	26.548	0.000	77.355	0.009	26.536	0.012	
0.001	2600	14.227	78.500	29.363	78.495	0.005	29.381	0.002	78.490	0.010	29.372	0.011	
0.000	2800	14.309	79.557	32.237	79.552	0.005	32.233	0.004	79.551	0.006	32.234	0.003	
-0.002	3000	14.378	80.547	35.106	80.542	0.005	35.101	0.005	80.547	0.000	35.122	-0.016	
0.001	3000	14.378	80.547	35.106	80.542	0.005	35.101	0.005	80.547	0.000	35.105	0.001	
-0.002	3200	14.437	81.476	37.988	81.472	0.004	37.983	0.005	81.478	-0.002	37.989	-0.001	
-0.001	3400	14.488	82.353	40.880	82.349	0.004	40.877	0.003	82.354	-0.001	40.882	-0.002	
-0.001	3600	14.534	83.183	43.783	83.179	0.004	43.781	0.002	83.184	-0.001	43.783	-0.000	
0.000	3800	14.575	83.970	46.694	83.966	0.004	46.694	-0.000	83.970	-0.000	46.693	0.001	
0.001	4000	14.614	84.718	49.613	84.715	0.003	49.615	-0.002	84.719	-0.001	49.611	0.002	
0.002	4200	14.652	85.432	52.539	85.429	0.003	52.543	-0.004	85.432	-0.000	52.537	0.002	
0.002	4400	14.688	86.115	55.473	86.112	0.003	55.477	-0.004	86.115	0.000	55.471	0.002	
0.001	4600	14.725	86.768	58.415	86.766	0.002	58.418	-0.003	86.769	-0.001	58.413	0.002	
0.000	4800	14.762	87.396	61.363	87.393	0.003	61.365	-0.002	87.396	-0.000	61.362	0.001	
-0.000	5000	14.800	87.999	64.319	87.996	0.003	64.319	-0.000	88.000	-0.001	64.320	-0.001	
-0.002	5200	14.840	88.580	67.283	88.577	0.003	67.281	0.002	88.581	-0.001	67.285	-0.002	
-0.002	5400	14.881	89.141	70.256	89.137	0.004	70.252	0.004	89.142	-0.001	70.257	-0.001	
-0.001	5600	14.924	89.683	73.236	89.679	0.004	73.232	0.004	89.684	-0.001	73.238	-0.002	
0.000	5800	14.969	90.208	76.225	90.204	0.004	76.224	0.001	90.208	-0.001	76.225	-0.000	
0.002	6000	15.015	90.716	79.224	90.713	0.003	79.229	-0.005	90.716	-0.000	79.220	0.004	

SO
M
DAT
FIT
1 1
+8.76
-2.93

FIT
1 1
+2969
+2969

-----EST-----

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
0.000	6.973	45.343	0.710	45.570	-0.227	0.805	-0.095	45.665	-0.322	0.845	-0.135	400
0.001	7.041	48.179	2.110	48.166	0.013	2.091	0.019	48.154	0.025	2.082	0.028	600
0.002	7.223	50.228	3.534	50.190	0.038	3.501	0.033	50.176	0.052	3.490	0.044	800
0.003	7.471	51.865	5.003	51.842	0.023	4.983	0.020	51.838	0.027	4.981	0.022	1000
0.004	7.727	53.250	6.523	53.241	0.009	6.518	0.005	53.243	0.007	6.524	-0.001	1200
0.005	7.960	54.459	8.092	54.458	0.001	8.098	-0.006	54.463	-0.004	8.106	-0.014	1400
0.006	8.161	55.536	9.705	55.538	-0.002	9.715	-0.010	55.541	-0.005	9.722	-0.017	1600
0.007	8.331	56.507	11.355	56.509	-0.002	11.364	-0.009	56.510	-0.003	11.367	-0.012	1800
0.008	8.474	57.392	13.036	57.393	-0.001	13.042	-0.006	57.391	0.001	13.040	-0.004	2000
0.009	8.596	58.206	14.743	58.205	0.001	14.746	-0.003	58.201	0.005	14.739	0.004	2200
0.010	8.701	58.959	16.473	58.956	0.003	16.473	0.000	58.951	0.008	16.464	0.009	2400
0.011	8.791	59.659	18.222	59.655	0.004	18.220	0.002	59.651	0.008	18.213	0.009	2600
0.012	8.870	60.313	19.989	60.309	0.004	19.985	0.004	60.308	0.005	19.986	0.003	2800
0.013	8.941	60.928	21.770	60.923	0.005	21.766	0.004	60.928	0.000	21.783	-0.013	3000
0.014	8.941	60.928	21.770	60.923	0.005	21.766	0.004	60.928	0.000	21.773	-0.003	3000
0.015	9.004	61.507	23.565	61.503	0.004	23.561	0.004	61.506	0.001	23.565	-0.000	3200
0.016	9.062	62.054	25.371	62.051	0.003	25.369	0.002	62.054	0.000	25.371	0.000	3400
0.017	9.114	62.574	27.189	62.571	0.003	27.188	0.001	62.573	0.001	27.188	0.001	3600
0.018	9.163	63.068	29.017	63.065	0.003	29.018	-0.001	63.067	0.001	29.016	0.001	3800
0.019	9.209	63.539	30.854	63.537	0.002	30.856	-0.002	63.538	0.001	30.853	0.001	4000
0.020	9.251	63.989	32.700	63.987	0.002	32.703	-0.003	63.989	0.000	32.699	0.001	4200
0.021	9.292	64.421	34.554	64.418	0.003	34.557	-0.003	64.420	0.001	34.554	0.000	4400
0.022	9.330	64.835	36.417	64.832	0.003	36.419	-0.002	64.834	0.001	36.416	0.001	4600
0.023	9.367	65.232	38.286	65.230	0.002	38.288	-0.002	65.232	0.000	38.286	-0.000	4800
0.024	9.403	65.616	40.163	65.613	0.003	40.163	-0.000	65.615	0.001	40.164	-0.001	5000
0.025	9.437	65.985	42.047	65.982	0.003	42.046	0.001	65.985	0.000	42.048	-0.001	5200
0.026	9.470	66.342	43.938	66.338	0.004	43.935	0.003	66.341	0.001	43.938	-0.000	5400
0.027	9.502	66.687	45.835	66.683	0.004	45.833	0.002	66.686	0.001	45.835	-0.000	5600
0.028												

SODIUM HYDRIDE

(G) H 1NA 1

363

MOL. WT.= 23.990 BLOCK= 1570 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = 29.700 KEY = 296

FITS FOR NOTS RMS = 0.003120

295 1 1 1 11 0 0 0 0 0 0 0 SODIUM HYDRIDE (G) 10J 363 296
 295 +8.7609767E+0+3.4376275E-1-2.5079157E-2+1.8883021E-3 400 6000 11J 363 296
 295 -2.9354858E-1+2.6218215E+1+5.4225021E+1+2.9699996E+1HNA (G) 12J 363 296

FITS FOR EST RMS LOW = 0.004052 RMS HIGH = 0.003156

1 1 1 11 0 0 0 0 0 0 0 SODIUM HYDRIDE (G) 10HNA
 +296999+5+242601+5+882682+1+267696-3-304544+6+648019+2 4003000J 36311HNA
 +296999+5+242612+5+901207+1+220736-3-912064+6+648019+230006000J 36312HNA

-----NOTS-----													
-----EST-----													
M	DH KC/M	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
.845	-0.135	400	7.589	47.176	0.755	47.250	-0.074	0.783	-0.028	47.256	-0.080	0.787	-0.032
.082	0.028	600	8.172	50.372	2.335	50.359	0.013	2.324	0.011	50.359	0.013	2.325	0.010
.490	0.044	800	8.537	52.777	4.009	52.767	0.010	4.000	0.009	52.767	0.010	4.001	0.008
.981	0.022	1000	8.767	54.708	5.741	54.704	0.004	5.737	0.004	54.705	0.003	5.739	0.002
.524	-0.001	1200	8.926	56.321	7.511	56.320	0.001	7.510	0.001	56.321	0.000	7.512	-0.001
.106	-0.014	1400	9.044	57.707	9.309	57.706	0.001	9.309	-0.000	57.707	-0.000	9.311	-0.002
.722	-0.017	1600	9.139	58.921	11.127	58.921	0.000	11.128	-0.001	58.921	-0.000	11.129	-0.002
.367	-0.012	1800	9.220	60.002	12.963	60.002	0.000	12.964	-0.001	60.002	0.000	12.965	-0.002
.040	-0.004	2000	9.292	60.977	14.815	60.977	0.000	14.815	-0.000	60.976	0.001	14.815	0.000
.739	0.004	2200	9.357	61.866	16.680	61.865	0.001	16.680	0.000	61.865	0.001	16.679	0.001
.464	0.009	2400	9.418	62.683	18.557	62.682	0.001	18.557	0.000	62.681	0.002	18.556	0.001
.213	0.009	2600	9.475	63.439	20.446	63.438	0.001	20.446	-0.000	63.437	0.002	20.445	0.001
.986	0.003	2800	9.531	64.143	22.347	64.142	0.001	22.347	0.000	64.142	0.001	22.347	0.000
.783	-0.013	3000	9.584	64.802	24.259	64.802	0.000	24.258	0.001	64.802	0.000	24.260	-0.001
.773	-0.003	3000	9.584	64.802	24.259	64.802	0.000	24.258	0.001	64.802	0.000	24.261	-0.002
.565	-0.000	3200	9.636	65.423	26.181	65.422	0.001	26.181	0.000	65.422	0.001	26.181	-0.000
.371	0.000	3400	9.688	66.008	28.113	66.008	0.000	28.113	-0.000	66.007	0.001	28.113	0.000
.188	0.001	3600	9.738	66.563	30.056	66.563	0.000	30.056	-0.000	66.562	0.001	30.055	0.001
.016	0.001	3800	9.788	67.091	32.008	67.091	0.000	32.009	-0.001	67.090	0.001	32.007	0.001
.853	0.001	4000	9.837	67.595	33.971	67.594	0.001	33.971	-0.000	67.593	0.002	33.970	0.001
.699	0.001	4200	9.886	68.076	35.943	68.075	0.001	35.944	-0.001	68.074	0.002	35.942	0.001
.554	0.000	4400	9.935	68.537	37.925	68.536	0.001	37.926	-0.001	68.535	0.002	37.925	0.000
.416	0.001	4600	9.983	68.979	39.917	68.979	0.000	39.917	-0.000	68.978	0.001	39.917	0.000
.286	-0.000	4800	10.031	69.405	41.918	69.405	0.000	41.918	-0.000	69.404	0.001	41.919	-0.001
.164	-0.001	5000	10.078	69.816	43.929	69.815	0.001	43.929	0.000	69.815	0.001	43.930	-0.001
.048	-0.001	5200	10.126	70.212	45.950	70.211	0.001	45.949	0.001	70.211	0.001	45.950	-0.000
.938	-0.000	5400	10.173	70.595	47.980	70.594	0.001	47.979	0.001	70.594	0.001	47.980	-0.000
.835	-0.000	5600	10.221	70.966	50.019	70.965	0.001	50.018	0.001	70.965	0.001	50.019	-0.000
.739	0.000	5800	10.268	71.325	52.068	71.325	0.000	52.068	0.000	71.324	0.001	52.068	0.000
.648	0.001	6000	10.315	71.674	54.126	71.674	0.000	54.127	-0.001	71.673	0.001	54.125	0.001

SODIUM HYDROXIDE (C) H 1NA 10 1 0 0 0 1270
 MOL. WT.= 39.990 BLOCK= 1576 NO. POINT = 17
 ATA FROM 0 TO 1500 K HFORM(KCAL/(MOLE)) = -101.800 KEY = 297
 FITS FOR NOTS RMS = 0.126833
 1 1 8 1 11 0 0 0 0 0 SODIUM HYDROXIDE (C) 30J1270 297
 .3752912E+2-5.0293359E+2+4.1061645E+2-1.1349200E+2 400 1500 31J1270 297
 .1979578E+1-1.9324385E+2+3.7005810E+2-1.0179998E+2HNAO (C) 32J1270 297

FITS FOR EST RMS LOW = 0.145548 RMS HIGH = 0.145548
 1 1 8 1 11 0 0 0 0 0 SODIUM HYDROXIDE (C) 30HNAOS
 .1799+6+597166+5+143026+2+356176-2+262432+7+645728+2 4001500J127031HNAOS
 .1799+6+597166+5+143026+2+356176-2+262432+7+645728+2 4001500J127032HNAOS

SO
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 DAT
 FIT
 1 1
 +2.06
 +5.72
 FIT
 1 1
 -9964
 -9964

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-----NOTS-----								-----EST-----						
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T		
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K		
000	15.520	19.775	1.518	19.104	0.671	1.316	0.202	18.439	1.336	1.101	0.417	400		
000	17.963	23.464	3.176	24.506	-1.042	3.749	-0.573	24.939	-1.475	4.003	-0.827	500		
000	20.560	30.040	6.858	29.340	0.700	6.399	0.459	29.506	0.534	6.504	0.354	600		
000	20.560	33.209	8.914	33.134	0.075	8.856	0.058	33.034	0.175	8.791	0.123	700		
000	20.560	35.954	10.970	36.096	-0.142	11.072	-0.102	35.928	0.026	10.957	0.013	800		
000	20.560	38.376	13.026	38.508	-0.132	13.119	-0.093	38.399	-0.023	13.055	-0.029	900		
000	20.560	40.542	15.082	40.592	-0.050	15.097	-0.015	40.570	-0.028	15.115	-0.033	1000		
000	20.560	42.502	17.138	42.491	0.011	17.090	0.048	42.517	-0.015	17.158	-0.020	1100		
000	20.560	44.291	19.194	44.277	0.014	19.143	0.051	44.291	0.000	19.196	-0.002	1200		
000	20.560	45.936	21.250	45.965	-0.029	21.252	-0.002	45.927	0.009	21.240	0.010	1300		
000	20.560	47.460	23.306	47.526	-0.066	23.358	-0.052	47.450	0.010	23.295	0.011	1400		
000	20.560	48.879	25.362	48.895	-0.016	25.340	0.021	48.879	0.000	25.367	-0.005	1500		

1600
 1700
 1800
 1900
 2000
 2100
 2200
 2300
 2400
 2500

SODIUM HYDROXIDE

(L)

H 1NA 10 1 0 0 0

1270

MOL. WT. = 39.990

BLOCK = 1578

NO. POINT = 24

DATA FROM 298 TO 2500 K BFORM (KCAL/(MOLE)) = -99.641 KEY = 298

FITS FOR NOTS RMS = 0.001229

297 1 1 1 8 1 11 0 0 0 0 0 SODIUM HYDROXIDE

(L) 20J1270 298

297 +2.0634597E+1+2.3912155E-1-1.2140455E+0+3.0189132E-1 400 2500

21J1270 298

297 +5.7281494E-2-1.0561917E+2+4.3354553E+1-9.9640991E+1HNAO (L)

22J1270 298

FITS FOR EST RMS LOW = 0.015148 RMS HIGH = 0.015148

1 1 1 8 1 11 0 0 0 0 0 SODIUM HYDROXIDE

(L) 20HNAO*

-996409+5+518933+5+208532+2-108245-2+176368+6+638980+2 4002500J127021HNAO*

-996409+5+518933+5+208532+2-108245-2+176368+6+638980+2 4002500J127022HNAO*

-----NOTS-----								-----EST-----					
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
101 0.417	400	20.844	24.278	2.130	24.273	0.005	2.128	0.002	24.154	0.124	2.077	0.053	
003 -0.827	500	20.710	28.915	4.208	28.918	-0.003	4.209	-0.001	28.897	0.018	4.202	0.006	
504 0.354	600	20.570	32.682	6.274	32.681	0.001	6.273	0.001	32.699	-0.017	6.287	-0.013	
791 0.123	700	20.430	35.843	8.324	35.841	0.002	8.322	0.002	35.870	-0.027	8.344	-0.020	
957 0.013	800	20.290	38.562	10.360	38.560	0.002	10.358	0.002	38.589	-0.027	10.379	-0.019	
055 -0.029	900	20.150	40.943	12.382	40.942	0.001	12.381	0.001	40.965	-0.022	12.397	-0.015	
115 -0.033	1000	20.010	43.059	14.390	43.059	0.000	14.389	0.001	43.075	-0.016	14.399	-0.009	
158 -0.020	1100	19.870	44.960	16.384	44.960	-0.000	16.384	-0.000	44.969	-0.009	16.387	-0.003	
196 -0.002	1200	19.730	46.683	18.364	46.684	-0.001	18.365	-0.001	46.687	-0.004	18.361	0.003	
240 0.010	1300	19.590	48.256	20.330	48.257	-0.001	20.331	-0.001	48.257	-0.001	20.322	0.008	
295 0.011	1400	19.450	49.703	22.282	49.704	-0.001	22.283	-0.001	49.702	0.001	22.271	0.011	
367 -0.005	1500	19.310	51.040	24.220	51.041	-0.001	24.221	-0.001	51.038	0.002	24.208	0.012	
	1600	19.170	52.282	26.144	52.282	-0.000	26.144	-0.000	52.280	0.002	26.133	0.011	
	1700	19.030	53.440	28.054	53.441	-0.001	28.055	-0.001	53.440	-0.000	28.046	0.008	
	1800	18.910	54.524	29.951	54.525	-0.001	29.952	-0.001	54.527	-0.003	29.948	0.003	
	1900	18.795	55.543	31.836	55.544	-0.001	31.837	-0.001	55.549	-0.006	31.838	-0.002	
	2000	18.690	56.505	33.711	56.505	-0.000	33.711	0.000	56.513	-0.008	33.717	-0.006	
	2100	18.595	57.414	35.575	57.415	-0.001	35.574	0.001	57.424	-0.010	35.584	-0.009	
	2200	18.515	58.277	37.430	58.278	-0.001	37.429	0.001	58.288	-0.011	37.441	-0.011	
	2300	18.447	59.099	39.278	59.099	-0.000	39.277	0.001	59.108	-0.009	39.286	-0.008	
	2400	18.393	59.883	41.120	59.883	-0.000	41.119	0.001	59.889	-0.006	41.120	-0.000	
	2500	18.346	60.633	42.957	60.633	-0.001	42.958	-0.001	60.633	0.000	42.943	0.014	

SODIUM HYDROXIDE (G) H 1NA 10 1 0 0 0 1270
 MOL. WT. = 39.990 BLOCK = 1581 NO. POINT = 62
 TA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -47.265 KEY = 299
 TS FOR NOTS RMS = 0.011588
 1 1 8 1 11 0 0 0 0 0 SODIUM HYDROXIDE (G) 10J1270 299
 114806E+1+1.4822931E+0-2.9241997E-1+2.0071753E-2 400 6000 11J1270 299
 9606018E-1-5.1433990E+1+6.8142227E+1-4.7264999E+1HNAO(G) 12J1270 299

ITS FOR EST RMS LOW = 0.022564 RMS HIGH = 0.004521
 1 1 8 1 11 0 0 0 0 0 SODIUM HYDROXIDE (G) 10HNAO
 2649+5+367028+5+130625+2+513611-3-396896+6+847779+2 4003000J127011HNAO
 2649+5+366926+5+149164+2-414447-5-425011+7+847779+230006000J127012HNAO

-----NOTS-----

-----EST-----

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-----	12.110	58.056	1.209	58.224	-0.168	1.280	-0.071	58.341	-0.285	1.330	-0.121	
DH	12.563	63.067	3.6E3	63.064	0.003	3.673	0.010	63.051	0.016	3.663	0.020	
KC/M	12.822	66.717	6.223	66.688	0.029	6.194	0.029	66.671	0.046	6.182	0.041	
7 0.053	13.067	69.605	8.811	69.583	0.022	8.791	0.020	69.576	0.029	8.788	0.023	1
2 0.006	13.310	72.009	11.449	71.999	0.010	11.441	0.008	72.000	0.009	11.447	0.002	1
7 -0.013	13.534	74.078	14.134	74.076	0.002	14.136	-0.002	74.080	-0.002	14.146	-0.012	1
4 -0.020	13.729	75.898	16.861	75.899	-0.001	16.868	-0.007	75.903	-0.005	16.877	-0.016	1
9 -0.019	13.895	77.525	19.624	77.527	-0.002	19.632	-0.008	77.528	-0.003	19.637	-0.013	1
7 -0.015	14.034	78.996	22.417	78.997	-0.001	22.424	-0.007	78.996	0.000	22.422	-0.005	2
9 -0.009	14.149	80.339	25.236	80.339	-0.000	25.239	-0.003	80.335	0.004	25.233	0.003	2
7 -0.003	14.245	81.575	28.076	81.573	0.002	28.076	-0.000	81.567	0.008	28.066	0.010	2
1 0.003	14.326	82.718	30.933	82.716	0.002	30.931	0.002	82.711	0.007	30.923	0.010	2
2 0.008	14.393	83.783	33.805	83.779	0.004	33.802	0.003	83.777	0.006	33.802	0.003	2
1 0.011	14.450	84.778	36.689	84.774	0.004	36.686	0.003	84.778	0.000	36.703	-0.014	3
8 0.012	14.450	84.778	36.6E9	84.774	0.004	36.686	0.003	84.778	0.000	36.693	-0.004	3
3 0.011	14.498	85.712	39.5E4	85.709	0.003	39.581	0.003	85.711	0.001	39.585	-0.001	3
6 0.008	14.539	86.592	42.488	86.589	0.003	42.486	0.002	86.591	0.001	42.487	0.001	3
8 0.003	14.575	87.424	45.400	87.422	0.002	45.399	0.001	87.423	0.001	45.398	0.002	3
8 -0.002	14.606	88.213	48.318	88.211	0.002	48.319	-0.001	88.212	0.001	48.316	0.002	3
7 -0.006	14.632	88.963	51.242	88.961	0.002	51.244	-0.002	88.962	0.001	51.240	0.002	4
4 -0.009	14.656	89.677	54.171	89.676	0.001	54.173	-0.003	89.676	0.001	54.170	0.001	4
1 -0.011	14.676	90.359	57.104	90.358	0.001	57.107	-0.003	90.359	0.000	57.103	0.001	4
6 -0.008	14.695	91.012	60.041	91.011	0.001	60.043	-0.002	91.012	0.000	60.041	0.000	4
0 -0.000	14.711	91.638	62.982	91.636	0.002	62.983	-0.001	91.637	0.001	62.982	0.000	4
3 0.014	14.725	92.239	65.925	92.237	0.002	65.925	0.000	92.238	0.001	65.926	-0.001	5
	14.738	92.817	68.871	92.814	0.003	68.870	0.001	92.816	0.001	68.872	-0.001	5
	14.749	93.373	71.820	93.370	0.003	71.817	0.003	93.372	0.001	71.821	-0.001	5
	14.760	93.910	74.771	93.907	0.003	74.768	0.003	93.909	0.001	74.771	-0.000	5
	14.769	94.428	77.724	94.425	0.003	77.723	0.001	94.427	0.001	77.724	0.000	5
	14.778	94.929	80.679	94.927	0.002	80.683	-0.004	94.928	0.001	80.678	0.001	6

HYDROXYL (G) H 10 1 0 0 0 0 1270
 MOL. WT. = 17.000 BLCK = 1587 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 9.492 KEY = 300
 FITS FOR NOTS RMS = 0.011808
 1 1 1 8 0 0 0 0 0 0 0 HYDROXYL (G) 10J1270 300
 +6.1195230E+0+1.5940999E+0-2.9714387E-1+2.0636826E-2 400 6000 11J1270 300
 -4.3945312E-2+7.6088209E+0+5.0995559E+1+9.4919996E+0HO (G) 12J1270 300

FITS FOR EST RMS LOW = 0.022505 RMS HIGH = 0.002989
 1 1 1 8 0 0 0 0 0 0 0 HYDROXYL (G) 10HO
 +949199+4+214247+5+707608+1+614105-3-245744+6+613549+2 4003000J127011HO
 +949199+4+214133+5+881356+1+114838-3-349337+7+613549+230006000J127012HO

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.121	400	7.087	45.974	0.725	46.140	-0.166	0.796	-0.071	46.255	-0.281	0.845	-0.120	
0.020	600	7.057	48.837	2.137	48.835	0.002	2.128	0.009	48.820	0.017	2.117	0.020	
0.041	800	7.150	50.877	3.556	50.848	0.029	3.529	0.027	50.829	0.048	3.516	0.040	
0.023	1000	7.332	52.491	5.003	52.470	0.021	4.983	0.020	52.462	0.029	4.980	0.023	
0.002	1200	7.549	53.847	6.491	53.837	0.010	6.484	0.007	53.838	0.009	6.489	0.002	
-0.012	1400	7.766	55.027	8.023	55.025	0.002	8.026	-0.003	55.028	-0.001	8.035	-0.012	
-0.016	1600	7.963	56.077	9.596	56.079	-0.002	9.604	-0.008	56.081	-0.004	9.612	-0.016	
-0.013	1800	8.137	57.025	11.207	57.027	-0.002	11.215	-0.008	57.028	-0.003	11.219	-0.012	
-0.005	2000	8.286	57.891	12.849	57.892	-0.001	12.856	-0.007	57.889	0.002	12.854	-0.005	
0.003	2200	8.415	58.687	14.520	58.686	0.001	14.524	-0.004	58.681	0.006	14.516	0.004	
0.010	2400	8.526	59.424	16.214	59.422	0.002	16.215	-0.001	59.415	0.009	16.205	0.009	
0.010	2600	8.622	60.110	17.929	60.107	0.003	17.927	0.002	60.101	0.009	17.919	0.010	
0.003	2800	8.706	60.752	19.662	60.749	0.003	19.659	0.003	60.746	0.006	19.659	0.003	
-0.014	3000	8.780	61.355	21.411	61.352	0.003	21.407	0.004	61.355	0.000	21.425	-0.014	
-0.004	3000	8.780	61.355	21.411	61.352	0.003	21.407	0.004	61.355	0.000	21.413	-0.002	
-0.001	3200	8.846	61.924	23.174	61.921	0.003	23.170	0.004	61.923	0.001	23.174	-0.000	
0.001	3400	8.905	62.462	24.949	62.459	0.003	24.946	0.003	62.461	0.001	24.949	0.000	
0.002	3600	8.959	62.973	26.735	62.970	0.003	26.734	0.001	62.971	0.002	26.735	0.000	
0.002	3800	9.009	63.458	28.532	63.456	0.002	28.533	-0.001	63.457	0.001	28.531	0.001	
0.002	4000	9.054	63.922	30.339	63.920	0.002	30.340	-0.001	63.920	0.002	30.338	0.001	
0.001	4200	9.097	64.365	32.154	64.363	0.002	32.156	-0.002	64.363	0.002	32.153	0.001	
0.001	4400	9.137	64.789	33.977	64.787	0.002	33.980	-0.003	64.787	0.002	33.977	0.000	
0.000	4600	9.175	65.196	35.808	65.194	0.002	35.811	-0.003	65.194	0.002	35.808	-0.000	
0.000	4800	9.212	65.587	37.647	65.585	0.002	37.648	-0.002	65.586	0.001	37.647	-0.000	
-0.001	5000	9.247	65.964	39.493	65.961	0.003	39.493	0.000	65.963	0.001	39.493	-0.000	
-0.001	5200	9.281	66.327	41.346	66.325	0.002	41.344	0.002	66.326	0.001	41.346	-0.000	
-0.001	5400	9.314	66.678	43.205	66.675	0.003	43.203	0.002	66.677	0.001	43.206	-0.001	
-0.000	5600	9.347	67.017	45.071	67.015	0.002	45.069	0.002	67.016	0.001	45.072	-0.001	
0.000	5800	9.379	67.346	46.944	67.343	0.003	46.943	0.001	67.345	0.001	46.944	0.000	
0.001	6000	9.411	67.664	48.823	67.663	0.001	48.827	-0.004	67.663	0.001	48.822	0.001	

PHOSPHORUS MONOHYDRIDE (G) H 1P 1 0 0 0 0 667
 MOL. WT.= 31.980 BLOCK= 1593 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 60.600 KEY = 301
 ITS FOR NOTS RMS = 0.002885
 1 1 15 0 0 0 0 0 0 0 PHOSPHORUS MONOHYDRIDE (G) 10J 667 301
 7684898E+0+1.5184698E+0-2.3300260E-1+1.4385525E-2 400 6000 11J 667 301
 3273620E-1+5.8179992E+1+5.4216995E+1+6.0599990E+1HP (G) 12J 667 301

SULI
 MOI
 DATA
 FITS
 1 1
 +7.2744
 -2.1364

ITS FOR EST RMS LOW = 0.013606 RMS HIGH = 0.003591
 1 1 15 0 0 0 0 0 0 0 PHOSPHORUS MONOHYDRIDE (G) 10HP
 5999+5+229638+5+765516+1+682729-3-350672+6+652969+2 4003000J 66711HP
 5999+5+229581+5+960393+1+186884-3-518768+7+652969+230006000J 66712HP

FITS
 1 1
 +345995
 +345995

M	-----NOTS-----												-----EST-----	
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T		
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C	
20	7.008	48.953	0.711	49.019	-0.066	0.736	-0.025	49.174	-0.221	0.803	-0.092	400	7	
20	7.242	51.832	2.133	51.814	0.018	2.119	0.014	51.805	0.027	2.110	0.023	600	7	
40	7.586	53.962	3.616	53.953	0.009	3.608	0.008	53.931	0.031	3.590	0.026	800	7	
23	7.914	55.691	5.166	55.690	0.001	5.166	-0.000	55.677	0.014	5.156	0.010	1000	7	
02	8.188	57.159	6.777	57.160	-0.001	6.779	-0.002	57.156	0.003	6.779	-0.002	1200	8	
12	8.417	58.439	8.439	58.439	0.000	8.439	-0.000	58.440	-0.001	8.446	-0.007	1400	8	
16	8.615	59.576	10.142	59.575	0.001	10.142	0.000	59.578	-0.002	10.150	-0.008	1600	8	
12	8.792	60.601	11.883	60.600	0.001	11.882	0.001	60.602	-0.001	11.889	-0.006	1800	8	
05	8.954	61.536	13.658	61.534	0.002	13.656	0.002	61.535	0.001	13.660	-0.002	2000	8	
04	9.104	62.396	15.464	62.395	0.001	15.463	0.001	62.393	0.003	15.462	0.002	2200	8	
09	9.243	63.194	17.299	63.194	0.000	17.298	0.001	63.190	0.004	17.294	0.005	2400	8	
10	9.372	63.939	19.160	63.939	0.000	19.161	-0.001	63.935	0.004	19.155	0.005	2600	8	
03	9.491	64.638	21.047	64.638	-0.000	21.048	-0.001	64.635	0.003	21.045	0.002	2800	8	
14	9.600	65.297	22.956	65.297	0.000	22.957	-0.001	65.297	0.000	22.964	-0.008	3000	9	
02	9.600	65.297	22.956	65.297	0.000	22.957	-0.001	65.297	0.000	22.958	-0.002	3000	9	
00	9.701	65.920	24.886	65.919	0.001	24.887	-0.001	65.919	0.001	24.887	-0.001	3200	9	
00	9.793	66.510	26.836	66.510	-0.000	26.837	-0.001	66.510	0.000	26.836	0.000	3400	9	
01	9.877	67.073	28.803	67.072	0.001	28.803	-0.000	67.072	0.001	28.802	0.001	3600	9	
01	9.955	67.609	30.786	67.609	0.000	30.787	-0.001	67.608	0.001	30.786	0.000	3800	9	
01	10.027	68.121	32.785	68.121	-0.000	32.785	0.000	68.121	0.000	32.784	0.001	4000	9	
00	10.095	68.612	34.797	68.612	0.000	34.797	0.000	68.612	0.000	34.796	0.001	4200	9	
00	10.158	69.083	36.822	69.083	0.000	36.822	-0.000	69.083	0.000	36.822	0.000	4400	9	
00	10.217	69.536	38.860	69.536	0.000	38.860	0.000	69.536	0.000	38.859	0.001	4600	9	
00	10.274	69.972	40.909	69.972	0.000	40.909	0.000	69.972	0.000	40.909	0.000	4800	9	
00	10.329	70.393	42.969	70.392	0.001	42.969	-0.000	70.392	0.001	42.969	-0.000	5000	9	
01	10.383	70.799	45.040	70.798	0.001	45.040	-0.000	70.798	0.001	45.041	-0.001	5200	9	
01	10.435	71.192	47.122	71.191	0.001	47.122	0.000	71.191	0.001	47.123	-0.001	5400	9	
00	10.487	71.572	49.214	71.572	0.000	49.214	-0.000	71.572	0.000	49.215	-0.001	5600	9	
00	10.538	71.941	51.317	71.941	0.000	51.317	0.000	71.941	0.000	51.317	0.000	5800	9	
01	10.589	72.299	53.430	72.299	0.000	53.430	-0.000	72.298	0.001	53.428	0.002	6000	9	

SULFUR MONOHYDRIDE (G) H 1S 1 0 0 0 0 667
 MOL. WT.= 33.070 BLOCK= 1599 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 34.600 KEY = 302
 FITS FOR NOIS RMS = 0.012087
 1 1 1 16 0 0 0 0 0 0 0 SULFUR MONOHYDRIDE (G) 10J 667 302
 +7.2744970E+0+1.0688467E+0-2.0151060E-1+1.4735210E-2 400 6000 11J 667 302
 -2.1362304E-1+3.1956024E+1+5.4812957E+1+3.4599990E+1HS (G) 12J 667 302

FITS FOR EST RMS LOW = 0.020395 RMS HIGH = 0.003206
 1 1 1 16 0 0 0 0 0 0 0 SULFUR MONOHYDRIDE (G) 10HS
 +345999+5+225595+5+788392+1+425195-3-335984+6+652529+2 4003000J 66711HS
 +345999+5+225505+5+882690+1+132779-3-170974+7+652529+230006000J 66712HS

-----NOTS-----											
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	7.579	48.983	0.781	49.227	-0.244	0.881	-0.100	49.293	-0.310	0.910	-0.129
600	7.468	52.023	2.279	52.000	0.023	2.255	0.024	51.992	0.031	2.249	0.030
800	7.620	54.188	3.785	54.150	0.038	3.752	0.033	54.141	0.047	3.746	0.039
1000	7.855	55.914	5.333	55.893	0.021	5.315	0.018	55.891	0.023	5.315	0.018
1200	8.084	57.366	6.927	57.359	0.007	6.925	0.002	57.362	0.004	6.929	-0.002
1400	8.280	58.628	8.564	58.627	0.001	8.570	-0.006	58.631	-0.003	8.577	-0.013
1600	8.443	59.744	10.237	59.746	-0.002	10.246	-0.009	59.749	-0.005	10.251	-0.014
1800	8.576	60.747	11.939	60.748	-0.001	11.947	-0.008	60.749	-0.002	11.949	-0.010
2000	8.686	61.656	13.666	61.656	0.000	13.671	-0.005	61.654	0.002	13.669	-0.003
2200	8.779	62.488	15.412	62.487	0.001	15.415	-0.003	62.484	0.004	15.409	0.003
2400	8.858	63.256	17.176	63.253	0.003	17.176	0.000	63.249	0.007	17.168	0.008
2600	8.926	63.968	18.955	63.964	0.004	18.952	0.003	63.961	0.007	18.947	0.008
2800	8.986	64.631	20.746	64.627	0.004	20.743	0.003	64.627	0.004	20.744	0.002
3000	9.040	65.253	22.549	65.249	0.004	22.545	0.004	65.253	0.000	22.560	-0.011
3000	9.040	65.253	22.549	65.249	0.004	22.545	0.004	65.253	0.000	22.550	-0.001
3200	9.089	65.838	24.362	65.834	0.004	24.359	0.003	65.838	0.000	24.363	-0.001
3400	9.134	66.390	26.184	66.387	0.003	26.182	0.002	66.390	0.000	26.184	-0.000
3600	9.175	66.914	28.015	66.911	0.003	28.014	0.001	66.913	0.001	28.015	0.000
3800	9.214	67.411	29.854	67.408	0.003	29.855	-0.001	67.410	0.001	29.853	0.001
4000	9.251	67.884	31.701	67.882	0.002	31.702	-0.001	67.884	0.000	31.700	0.001
4200	9.287	68.337	33.554	68.334	0.003	33.557	-0.003	68.336	0.001	33.554	0.000
4400	9.322	68.770	35.415	68.767	0.003	35.418	-0.003	68.769	0.001	35.415	0.000
4600	9.355	69.185	37.283	69.182	0.003	37.285	-0.002	69.184	0.001	37.283	0.000
4800	9.388	69.583	39.157	69.581	0.002	39.158	-0.001	69.583	0.000	39.157	-0.000
5000	9.421	69.967	41.038	69.964	0.003	41.038	0.000	69.967	0.000	41.039	-0.001
5200	9.453	70.338	42.926	70.334	0.004	42.924	0.002	70.337	0.001	42.926	-0.000
5400	9.485	70.695	44.819	70.691	0.004	44.817	0.002	70.694	0.001	44.820	-0.001
5600	9.518	71.040	46.720	71.037	0.003	46.718	0.002	71.040	0.000	46.720	-0.000
5800	9.550	71.375	48.627	71.372	0.003	48.626	0.001	71.374	0.001	48.627	-0.000
6000	9.583	71.699	50.540	71.697	0.002	50.543	-0.003	71.698	0.001	50.539	0.001

SILICO
 MOL.
 ATA FR
 ITS FO
 1 1 1
 123661
 320220
 ITS FO
 1 1 1
 0000+5
 0000+5

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 7.1
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 9.9
 10.0
 10.1
 10.2
 10.3

SILICON MONOHYDRIDE (G) H 1SI 1 0 0 0 0 1269
 MOL. WT. = 29.090 BLOCK = 1606 NO. POINT = 62
 ATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 90.000 KEY = 303
 ITS FOR NOTS RMS = 0.013058
 1 1 14 0 0 0 0 0 0 0 SILICCN MONOHYDRIDE (G) 10J1269 303
 1236610E+0+6.3690865E-1-1.3258349E-1+1.4955781E-2 400 6000 11J1269 303
 3202209E-1+8.6462280E+1+5.5530014E+1+9.0000000E+1HSI (G) 12J1269 303

HYDROG
 MOL.
 DATA FR
 FITS PO
 2 1 0
 +5.872190
 +3.317260

ITS FOR EST RMS LOW = 0.014585 RMS HIGH = 0.010026
 1 1 14 0 0 0 0 0 0 0 SILICON MONOHYDRIDE (G) 10HSI
 0000+5+229631+5+835339+1+313566-3-450624+6+659319+2 4003000J126911HSI
 0000+5+229518+5+684299+1+549100-3+682908+7+659319+230006000J126912HSI

FITS PO
 2 1 0
 +000000+0
 +000000+0

-----NOTS-----												-----EST-----			
CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C			
C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M			
7.180	49.414	0.731	49.681	-0.267	0.840	-0.109	49.669	-0.255	0.835	-0.104	400	6.9			
7.451	52.368	2.190	52.340	0.028	2.162	0.028	52.336	0.032	2.161	0.029	600	7.0			
7.817	54.562	3.717	54.524	0.038	3.684	0.033	54.528	0.034	3.688	0.029	800	7.0			
8.129	56.342	5.313	56.322	0.020	5.296	0.017	56.328	0.014	5.303	0.010	1000	7.2			
8.369	57.846	6.964	57.839	0.007	6.961	0.003	57.845	0.001	6.967	-0.003	1200	7.3			
8.550	59.150	8.656	59.149	0.001	8.661	-0.005	59.154	-0.004	8.666	-0.010	1400	7.6			
8.690	60.301	10.381	60.302	-0.001	10.389	-0.008	60.305	-0.004	10.390	-0.009	1600	7.8			
8.801	61.331	12.130	61.332	-0.001	12.138	-0.008	61.333	-0.002	12.136	-0.006	1800	8.0			
8.891	62.264	13.900	62.263	0.001	13.906	-0.006	62.263	0.001	13.901	-0.001	2000	8.1			
8.967	63.115	15.686	63.113	0.002	15.689	-0.003	63.112	0.003	15.683	0.003	2200	8.3			
9.033	63.898	17.486	63.895	0.003	17.486	-0.000	63.894	0.004	17.481	0.005	2400	8.5			
9.092	64.623	19.298	64.620	0.003	19.297	0.001	64.619	0.004	19.294	0.004	2600	8.6			
9.146	65.299	21.122	65.295	0.004	21.119	0.003	65.297	0.002	21.121	0.001	2800	8.7			
9.198	65.932	22.957	65.927	0.005	22.953	0.004	65.932	0.000	22.963	-0.006	3000	8.8			
9.198	65.932	22.957	65.927	0.005	22.953	0.004	65.932	0.000	22.952	0.005	3000	8.8			
9.249	66.527	24.801	66.523	0.004	24.798	0.003	66.529	-0.002	24.803	-0.002	3200	8.9			
9.301	67.089	26.656	67.085	0.004	26.654	0.002	67.092	-0.003	26.660	-0.004	3400	9.0			
9.355	67.622	28.522	67.619	0.003	28.521	0.001	67.625	-0.003	28.524	-0.002	3600	9.1			
9.413	68.130	30.399	68.127	0.003	30.399	0.000	68.132	-0.002	30.399	-0.000	3800	9.2			
9.474	68.614	32.287	68.611	0.003	32.289	-0.002	68.616	-0.002	32.286	0.001	4000	9.3			
9.540	69.078	34.189	69.075	0.003	34.191	-0.002	69.079	-0.001	34.186	0.003	4200	9.4			
9.611	69.523	36.104	69.521	0.002	36.107	-0.003	69.525	-0.002	36.101	0.003	4400	9.5			
9.687	69.952	38.033	69.950	0.002	38.036	-0.003	69.954	-0.002	38.031	0.002	4600	9.5			
9.768	70.366	39.979	70.363	0.003	39.980	-0.001	70.368	-0.002	39.978	0.001	4800	9.6			
9.854	70.767	41.941	70.764	0.003	41.941	0.000	70.769	-0.002	41.941	-0.000	5000	9.7			
9.946	71.155	43.921	71.151	0.004	43.919	0.002	71.157	-0.002	43.922	-0.001	5200	9.8			
10.042	71.532	45.919	71.528	0.004	45.916	0.003	71.534	-0.002	45.922	-0.003	5400	9.8			
10.141	71.899	47.937	71.895	0.004	47.934	0.003	71.901	-0.002	47.939	-0.002	5600	9.9			
10.245	72.257	49.976	72.253	0.004	49.975	0.001	72.259	-0.002	49.976	-0.000	5800	10.0			
10.351	72.606	52.036	72.603	0.003	52.040	-0.004	72.607	-0.001	52.032	0.004	6000	10.1			

HYDROGEN, DIATOMIC

(R) H 2

361

MOL. WT. = 2.010

BLOCK = 1612

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 0.000 KEY = 304

FITS FOR NOTS RMS = 0.013428

2 1 0 0 0 0 0 0 0 0 HYDROGEN, DIATOMIC (R) 10J 361 304
 +5.8721904E+0+1.5631628E+0-2.3663038E-1+1.5735849E-2 400 6000 11J 361 304
 +3.3172607E-2-1.6252746E+0+3.8245452E+1+0.0000000E+0H2 (R) 12J 361 304

FITS FOR EST RMS LOW = 0.018568 RMS HIGH = 0.004180

2 1 0 0 0 0 0 0 0 0 HYDROGEN, DIATOMIC (R) 10H2
 +000000+0+212224+5+659109+1+796735-3-102816+6+484649+2 4003000J 36111H2
 +000000+0+212146+5+842520+1+300531-3-450683+7+484649+230006000J 36112H2

-----NOTS-----												
-----EST-----												
DH	T	CP	S	H	SC	ES	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.104	400	6.975	33.247	0.707	33.368	-0.121	0.761	-0.054	33.429	-0.182	0.787	-0.080
0.029	600	7.009	36.082	2.106	36.096	-0.014	2.108	-0.002	36.082	0.000	2.099	0.007
0.029	800	7.087	38.107	3.514	38.087	0.020	3.492	0.022	38.075	0.032	3.486	0.028
0.010	1000	7.219	39.702	4.944	39.679	0.023	4.920	0.024	39.676	0.026	4.922	0.022
-0.003	1200	7.390	41.033	6.404	41.019	0.014	6.391	0.013	41.021	0.012	6.398	0.006
-0.010	1400	7.600	42.187	7.902	42.184	0.003	7.903	-0.001	42.187	-0.000	7.911	-0.009
-0.009	1600	7.823	43.217	9.446	43.219	-0.002	9.453	-0.007	43.221	-0.004	9.459	-0.013
-0.006	1800	8.016	44.150	11.030	44.153	-0.003	11.040	-0.010	44.152	-0.002	11.041	-0.011
-0.001	2000	8.195	45.004	12.651	45.007	-0.003	12.661	-0.010	45.003	0.001	12.657	-0.006
0.003	2200	8.358	45.793	14.307	45.794	-0.001	14.314	-0.007	45.788	0.005	14.305	0.002
0.005	2400	8.506	46.527	15.993	46.526	0.001	15.996	-0.003	46.519	0.008	15.986	0.007
0.004	2600	8.639	47.213	17.708	47.211	0.002	17.707	0.001	47.205	0.008	17.699	0.009
0.001	2800	8.757	47.857	19.448	47.854	0.003	19.443	0.005	47.852	0.005	19.445	0.003
-0.006	3000	8.859	48.465	21.210	48.461	0.004	21.203	0.007	48.465	0.000	21.222	-0.012
0.005	3000	8.859	48.465	21.210	48.461	0.004	21.203	0.007	48.465	0.000	21.215	-0.005
-0.002	3200	8.962	49.040	22.992	49.037	0.003	22.987	0.005	49.039	0.001	22.992	-0.000
-0.004	3400	9.061	49.586	24.794	49.583	0.003	24.791	0.003	49.584	0.002	24.793	0.001
-0.002	3600	9.158	50.107	26.616	50.105	0.002	26.615	0.001	50.105	0.002	26.614	0.002
-0.000	3800	9.252	50.605	28.457	50.603	0.002	28.458	-0.001	50.603	0.002	28.456	0.001
0.001	4000	9.342	51.082	30.317	51.080	0.002	30.319	-0.002	51.080	0.002	30.316	0.001
0.003	4200	9.429	51.540	32.194	51.538	0.002	32.197	-0.003	51.538	0.002	32.194	0.000
0.003	4400	9.514	51.980	34.088	51.979	0.001	34.092	-0.004	51.979	0.001	34.089	-0.001
0.002	4600	9.595	52.405	35.999	52.403	0.002	36.002	-0.003	52.403	0.002	36.000	-0.001
0.001	4800	9.673	52.815	37.926	52.813	0.002	37.927	-0.001	52.813	0.002	37.926	-0.000
-0.000	5000	9.748	53.211	39.868	53.209	0.002	39.868	0.000	53.210	0.001	39.868	-0.000
-0.001	5200	9.822	53.595	41.825	53.593	0.002	41.823	0.002	53.593	0.002	41.825	-0.000
-0.003	5400	9.895	53.967	43.797	53.965	0.002	43.794	0.003	53.965	0.002	43.797	0.000
-0.002	5600	9.965	54.328	45.783	54.326	0.002	45.780	0.003	54.326	0.002	45.783	0.000
-0.000	5800	10.034	54.679	47.783	54.677	0.002	47.782	0.001	54.677	0.002	47.783	0.000
0.004	6000	10.100	55.020	49.796	55.019	0.001	49.800	-0.004	55.019	0.001	49.796	-0.000

LITHIUM HYDROXIDE, DIMERIC (G) H 2LI 20 2 0 0 0 671
 MOL. WT.= 47.890 BLOCK= 1618 NO. POINT = 62
 ATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -170.000 KEY = 305
 ITS FOR NOTS RMS = 0.034786
 1 2 8 2 71 0 0 0 0 0 LITHIUM HYDROXIDE, DIMERIC (G) 10J 671 305
 .5184814E+1+3.5717353E+0-7.1338999E-1+4.9424022E-2 400 6000 11J 671 305
 .7219238E+0-1.8250083E+2+8.6828872E+1-1.7000000E+2H2LI2O2(G) 12J 671 305

ITS FOR EST RMS LOW = 0.063667 RMS HIGH = 0.009492
 1 2 8 2 71 0 0 0 0 0 LITHIUM HYDROXIDE, DIMERIC (G) 10H2LI2O2
 70000+6+743268+5+274515+2+123129-2-219342+7+122553+3 4003000J 67111H2LI2O2
 70000+6+742991+5+318410+2-115818-4-110615+8+122553+330006000J 67112H2LI2O2

MA
M
DAT
FIT
2 1
+6.67
-3.71

FIT
2 1
-1819
-1819

/M	-----NOTS-----												T
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
080	19.542	69.825	1.868	70.506	-0.681	2.149	-0.281	70.773	-0.948	2.263	-0.395	400	
007	22.835	78.432	6.136	78.374	0.058	6.073	0.063	78.342	0.090	6.049	0.087	500	
028	24.808	85.293	10.915	85.192	0.101	10.826	0.089	85.153	0.140	10.797	0.118	600	
022	26.154	90.981	16.018	90.921	0.060	15.966	0.052	90.908	0.073	15.961	0.057	700	
006	27.166	95.843	21.355	95.819	0.024	21.342	0.013	95.824	0.019	21.357	-0.002	800	
009	27.955	100.092	26.870	100.089	0.003	26.883	-0.013	100.100	-0.008	26.906	-0.036	900	
013	28.581	103.867	32.526	103.871	-0.004	32.550	-0.024	103.880	-0.013	32.570	-0.044	1000	
011	29.080	107.264	38.254	107.267	-0.003	38.317	-0.023	107.270	-0.006	38.326	-0.032	1100	
006	29.480	110.349	44.151	110.349	-0.000	44.169	-0.018	110.344	0.005	44.163	-0.012	1200	
002	29.805	113.175	50.081	113.171	0.004	50.089	-0.008	113.159	0.016	50.070	0.011	1300	
007	30.070	115.780	56.069	115.772	0.008	56.069	-0.000	115.758	0.022	56.044	0.025	1400	
009	30.288	118.195	62.106	118.185	0.010	62.100	0.006	118.173	0.021	62.080	0.026	1500	
003	30.469	120.447	68.182	120.435	0.012	68.172	0.010	120.432	0.015	68.175	0.007	1600	
012	30.620	122.554	74.291	122.543	0.011	74.281	0.010	122.554	0.000	74.327	-0.036	1700	
005	30.620	122.554	74.291	122.543	0.011	74.281	0.010	122.554	0.000	74.299	-0.008	1800	
000	30.748	124.535	80.428	124.524	0.011	80.419	0.009	124.532	0.003	80.430	-0.002	1900	
001	30.857	126.402	86.589	126.392	0.010	86.583	0.006	126.399	0.003	86.587	0.002	2000	
002	30.950	128.168	92.770	128.159	0.009	92.768	0.002	128.165	0.003	92.766	0.004		
001	31.030	129.844	98.968	129.836	0.008	98.970	-0.003	129.840	0.004	98.964	0.004		
001	31.099	131.437	105.181	131.430	0.007	105.187	-0.006	131.434	0.003	105.178	0.003		
000	31.160	132.956	111.407	132.950	0.006	111.415	-0.008	132.953	0.003	111.405	0.002		
001	31.213	134.407	117.645	134.401	0.006	117.653	-0.008	134.404	0.003	117.643	0.002		
001	31.260	135.796	123.892	135.789	0.007	123.899	-0.007	135.793	0.003	123.892	0.000		
000	31.302	137.127	130.148	137.120	0.007	130.152	-0.004	137.124	0.003	130.149	-0.001		
000	31.339	138.406	136.413	138.397	0.009	136.412	0.001	138.403	0.003	136.414	-0.001		
000	31.372	139.635	142.684	139.626	0.009	142.679	0.005	139.633	0.002	142.685	-0.001		
000	31.401	140.820	148.961	140.810	0.010	148.954	0.007	140.817	0.003	148.962	-0.001		
000	31.428	141.962	155.244	141.953	0.009	155.237	0.007	141.959	0.003	155.244	-0.001		
000	31.452	143.066	161.532	143.057	0.009	161.530	0.002	143.062	0.004	161.531	0.001		
000	31.474	144.132	167.825	144.126	0.006	167.836	-0.011	144.129	0.003	167.822	0.003		

MAGNESIUM HYDRIDE

(C) H 2MG 1

963

MOL. WT.= 26.320 BLCK= 1625 NO. POINT = 22

DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -18.200 KEY = 306

FITS FOR NOTS RMS = 0.001942

2 1 1 12 0 0 0 0 0 0 0 MAGNESIUM HYDRIDE (C) 30J 963 306
 +6.6760471E+0+1.8199798E+1-1.0247463E+1+2.0109548E+0 400 2000 31J 963 306
 -3.7158203E-1-2.2065124E+1+8.6081409E+0-1.8199996E+1H2MG(C) 32J 963 306

FITS FOR EST RMS LOW = 0.017326 RMS HIGH = 0.017326

2 1 1 12 0 0 0 0 0 0 0 MAGNESIUM HYDRIDE (C) 30H2MG\$
 -181999+5+452348+5+171061+2+673352-3-151028+7+420193+2 4002000J 96331H2MG\$
 -181999+5+452348+5+171061+2+673352-3-151028+7+420193+2 4002000J 96332H2MG\$

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DB	SC	DS	HC	DB
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
95	400	10.350	10.186	0.960	10.201	-0.015	0.964	-0.004	10.437	-0.251	1.055	-0.095
87	500	11.950	12.674	2.078	12.661	0.013	2.070	0.008	12.623	0.051	2.041	0.037
18	600	13.200	14.967	3.337	14.960	0.007	3.333	0.004	14.886	0.081	3.285	0.052
57	700	14.230	17.081	4.710	17.083	-0.002	4.712	-0.002	17.034	0.047	4.680	0.030
02	800	15.080	19.039	6.177	19.044	-0.005	6.181	-0.004	19.024	0.015	6.171	0.006
36	900	15.750	20.855	7.720	20.858	-0.003	7.722	-0.002	20.858	-0.003	7.729	-0.009
44	1000	16.250	22.542	9.321	22.540	0.002	9.319	0.002	22.551	-0.009	9.336	-0.015
32	1100	16.608	24.108	10.964	24.105	0.003	10.962	0.002	24.118	-0.010	10.980	-0.016
12	1200	16.910	25.566	12.640	25.565	0.001	12.640	0.000	25.574	-0.008	12.654	-0.014
11	1300	17.151	26.929	14.344	26.930	-0.001	14.345	-0.001	26.933	-0.004	14.352	-0.008
25	1400	17.350	28.208	16.069	28.209	-0.001	16.071	-0.002	28.206	0.002	16.070	-0.001
26	1500	17.496	29.410	17.812	29.411	-0.001	17.813	-0.001	29.404	0.006	17.806	0.006
07	1600	17.620	30.543	19.568	30.543	-0.000	19.568	-0.000	30.535	0.008	19.559	0.009
36	1700	17.708	31.614	21.334	31.614	0.000	21.333	0.001	31.605	0.009	21.325	0.009
08	1800	17.800	32.629	23.109	32.628	0.001	23.108	0.001	32.622	0.007	23.104	0.005
02	1900	17.898	33.594	24.894	33.593	0.001	24.893	0.001	33.591	0.003	24.895	-0.001
02	2000	18.000	34.515	26.689	34.515	0.000	26.690	-0.001	34.515	0.000	26.697	-0.008

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MAGNESIUM DIHYDROXIDE (C) H 2HG 10 2 0 0 0 367
 MOL. WT.= 58.320 BLOCK= 1627 NO. POINT = 12
 DATA FROM 0 TO 1000 K HFORM(KCAL/(MOLE)) = -221.000 KEY = 307
 FITS FOR NOTS RMS = 0.000195
 2 1 2 8 1 12 0 0 0 0 0 MAGNESIUM DIHYDROXIDE (C) 30J 367 307
 +8.4400634E+0+4.2898803E+1-3.2731384E+1+1.3215114E+1 400 1000 31J 367 307
 +1.4465332E-2-2.2512719E+2+1.3894801E+1-2.2100000E+2H2MGO2(C) 32J 367 307

FITS FOR EST RMS LOW = 0.000448 RMS HIGH = 0.000448
 2 1 2 8 1 12 0 0 0 0 0 MAGNESIUM DIHYDROXIDE (C) 30H2MGO2\$
 -221000+6+111946+6+171134+2+149429-1-289301+6+933841+2 4001000J 36731H2MGO2\$
 -221000+6+111946+6+171134+2+149429-1-289301+6+933841+2 4001000J 36732H2MGO2\$

-----NOTS-----								-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	21.300	20.939	2.031	20.939	0.000	2.031	0.000	20.939	0.000	2.030	0.000
500	23.400	25.924	4.269	25.924	-0.000	4.269	0.000	25.926	-0.002	4.270	-0.001
600	25.300	30.362	6.706	30.362	-0.000	6.706	-0.000	30.364	-0.002	6.706	-0.000
700	27.000	34.391	9.321	34.391	0.000	9.321	-0.000	34.390	0.001	9.320	0.001
800	28.600	38.100	12.101	38.100	-0.001	12.101	-0.000	38.100	-0.000	12.101	0.000
900	30.200	41.561	15.041	41.561	0.000	15.041	0.000	41.563	-0.002	15.042	-0.001
1000	31.800	44.826	18.141	44.826	0.000	18.141	-0.000	44.826	0.000	18.141	0.000

AMIDOGEN
 MOL. W1
 DATA FROM
 FITS FOR
 2 1 1 7
 +8.8572149E
 -7.4346923E

FITS FOR
 2 1 1 7
 +400699+5+3
 +400699+5+3

T	CP
K	C/M-K
400	8.220
600	8.804
800	9.491
1000	10.180
1200	10.799
1400	11.319
1600	11.743
1800	12.084
2000	12.359
2200	12.580
2400	12.760
2600	12.908
2800	13.031
3000	13.133
3200	13.133
3400	13.218
3600	13.291
3800	13.353
4000	13.407
4200	13.453
4400	13.493
4600	13.529
4800	13.560
5000	13.587
5200	13.612
5400	13.633
5600	13.653
5800	13.670
6000	13.686
6000	13.701

AMIDOGEN (G) H 2N 1 1265
 MOL. WT.= 16.020 BLOCK= 1628 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 40.070 KEY = 308
 FITS FOR NOTS RMS = 0.030768
 2 1 1 7 0 0 0 0 0 0 0 AMIDOGEN (G) 10J1265 308
 +8.8572149E+0+2.8014183E+0-5.6875383E-1+3.9826497E-2 400 6000 11J1265 308
 -7.4346923E-1+3.5526092E+1+5.4172164E+1+4.0069992E+1H2N(G) 12J1265 308

 FITS FOR EST RMS LOW = 0.054252 RMS HIGH = 0.004211
 2 1 1 7 0 0 0 0 0 0 0 AMIDOGEN (G) 10H2N
 +400699+5+306096+5+106389+2+949657-3-110996+7+701579+2 4003000J126511H2N
 +400699+5+305833+5+139073+2-235610-5-708772+7+701579+230006000J126512H2N

I T/M	-----NOTS-----								-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
000	400	8.220	48.871	0.826	49.456	-0.585	1.070	-0.244	49.659	-0.788	1.156	-0.330
001	600	8.804	52.308	2.526	52.262	0.046	2.474	0.052	52.236	0.072	2.454	0.072
000	800	9.491	54.934	4.355	54.842	0.091	4.275	0.080	54.812	0.122	4.252	0.103
001	1000	10.180	57.127	6.323	57.074	0.053	6.278	0.045	57.064	0.063	6.273	0.050
000	1200	10.799	59.039	8.422	59.020	0.019	8.414	0.008	59.024	0.015	8.425	-0.003
001	1400	11.319	60.744	10.635	60.743	0.001	10.651	-0.016	60.752	-0.008	10.667	-0.032
000	1600	11.743	62.284	12.943	62.289	-0.005	12.967	-0.024	62.296	-0.012	12.981	-0.038
	1800	12.084	63.688	15.327	63.692	-0.004	15.349	-0.022	63.693	-0.005	15.355	-0.028
	2000	12.359	64.975	17.772	64.976	-0.001	17.788	-0.016	64.972	0.003	17.782	-0.010
	2200	12.580	66.164	20.267	66.161	0.003	20.274	-0.007	66.152	0.012	20.258	0.009
	2400	12.760	67.267	22.802	67.260	0.007	22.801	0.001	67.249	0.018	22.780	0.022
	2600	12.908	68.294	25.369	68.285	0.009	25.362	0.007	68.276	0.018	25.347	0.022
	2800	13.031	69.255	27.963	69.245	0.010	27.954	0.009	69.243	0.012	27.958	0.005
	3000	13.133	70.158	30.580	70.147	0.011	30.570	0.010	70.158	0.000	30.610	-0.030
	3000	13.133	70.158	30.580	70.147	0.011	30.570	0.010	70.158	0.000	30.583	-0.003
	3200	13.218	71.008	33.215	70.998	0.010	33.206	0.009	71.007	0.001	33.216	-0.001
	3400	13.291	71.812	35.866	71.803	0.009	35.861	0.005	71.811	0.001	35.865	0.001
	3600	13.353	72.573	38.531	72.565	0.008	38.529	0.002	72.572	0.001	38.529	0.002
	3800	13.407	73.297	41.207	73.290	0.007	41.209	-0.002	73.295	0.002	41.205	0.002
	4000	13.453	73.986	43.893	73.979	0.007	43.898	-0.005	73.984	0.002	43.892	0.001
	4200	13.493	74.643	46.588	74.637	0.006	46.594	-0.006	74.642	0.001	46.587	0.001
	4400	13.529	75.272	49.290	75.266	0.006	49.297	-0.007	75.270	0.002	49.290	0.000
	4600	13.560	75.874	51.999	75.868	0.006	52.005	-0.006	75.873	0.001	51.999	-0.000
	4800	13.587	76.451	54.714	76.445	0.006	54.717	-0.003	76.450	0.001	54.714	-0.000
	5000	13.612	77.007	57.434	76.999	0.008	57.433	0.001	77.005	0.001	57.434	-0.000
	5200	13.633	77.541	60.158	77.533	0.008	60.155	0.003	77.540	0.001	60.159	-0.001
	5400	13.653	78.056	62.887	78.047	0.009	62.881	0.006	78.055	0.001	62.887	-0.000
	5600	13.670	78.553	65.619	78.544	0.009	65.613	0.006	78.551	0.002	65.619	-0.000
	5800	13.686	79.033	68.355	79.025	0.008	68.353	0.002	79.031	0.002	68.354	0.001
	6000	13.701	79.497	71.093	79.491	0.006	71.102	-0.009	79.495	0.002	71.092	0.001

361

ITS FOR EST RMS LOW = 0.053471 RMS HIGH = 0.004551
1 1 8 0 0 0 0 0 0 0 WATER (G) 10H2O
7979+5+302331+5+968915+1+132305-2-891232+6+684209+2 4003000J 36111H2O
7979+5+302042+5+139241+2+123312-3-907257+7+684209+230006000J 36112H2O

-----NOTS-----												-----EST-----			
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
DH	8.186	47.484	0.825	47.904	-0.420	1.002	-0.177	48.194	-0.710	1.124	-0.299	4			
KC/M	8.676	50.891	2.509	50.872	0.019	2.479	0.030	50.840	0.051	2.452	0.057	5			
-0.330	9.246	53.464	4.300	53.396	0.068	4.238	0.062	53.350	0.114	4.204	0.096	6			
0.072	9.851	55.592	6.209	55.546	0.046	6.169	0.040	55.526	0.066	6.157	0.052	7			
0.103	10.444	57.441	8.240	57.422	0.019	8.228	0.012	57.421	0.020	8.237	0.003	8			
0.050	10.987	59.092	10.384	59.090	0.002	10.393	-0.009	59.097	-0.005	10.413	-0.029	9			
-0.003	11.462	60.591	12.630	60.595	-0.004	12.649	-0.019	60.603	-0.012	12.668	-0.038	10			
-0.032	11.869	61.965	14.964	61.970	-0.005	14.984	-0.020	61.972	-0.007	14.994	-0.030	11			
-0.038	12.214	63.234	17.373	63.236	-0.002	17.388	-0.015	63.231	0.003	17.385	-0.012	12			
-0.028	12.505	64.412	19.846	64.411	0.001	19.853	-0.007	64.400	0.012	19.838	0.008	13			
-0.010	12.753	65.511	22.372	65.507	0.004	22.373	-0.001	65.493	0.018	22.351	0.021	14			
0.009	12.965	66.541	24.945	66.534	0.007	24.940	0.005	66.522	0.019	24.921	0.024	15			
0.022	13.146	67.508	27.556	67.500	0.008	27.548	0.008	67.495	0.013	27.549	0.007				
0.022	13.304	68.421	30.201	68.412	0.009	30.192	0.009	68.421	0.000	30.233	-0.032				
0.005	13.304	68.421	30.201	68.412	0.009	30.192	0.009	68.421	0.000	30.204	-0.003				
-0.030	13.441	69.284	32.876	69.276	0.008	32.868	0.008	69.283	0.001	32.876	-0.001				
-0.003	13.562	70.102	35.577	70.095	0.007	35.571	0.006	70.101	0.001	35.576	0.001				
-0.001	13.669	70.881	38.300	70.874	0.007	38.298	0.002	70.880	0.001	38.299	0.001				
0.001	13.764	71.622	41.043	71.617	0.005	41.045	-0.002	71.621	0.001	41.042	0.001				
0.002	13.850	72.331	43.805	72.326	0.005	43.809	-0.004	72.329	0.001	43.804	0.001				
0.002	13.927	73.008	46.583	73.004	0.004	46.588	-0.005	73.007	0.001	46.582	0.001				
0.001	13.997	73.658	49.375	73.653	0.005	49.381	-0.006	73.657	0.001	49.375	0.000				
0.001	14.061	74.281	52.181	74.277	0.004	52.186	-0.005	74.280	0.001	52.181	0.000				
0.000	14.120	74.881	55.000	74.876	0.005	55.002	-0.002	74.880	0.001	54.999	0.001				
-0.000	14.174	75.459	57.829	75.453	0.006	57.829	0.000	75.458	0.001	57.829	-0.000				
-0.000	14.228	76.016	60.669	76.009	0.007										

1260

FITS FOR NOIS RMS = 0.000141

2	1	2	8	0	0	0	0	0	0	0	HYDROGEN PEROXIDE	(G)	10J1260	310	
+1.1766698E+1+4.8795433E+0-1.5954971E+0+2.9077601E-1												400	1500	11J1260	310
-3.1563663E-1-3.7267868E+1+6.6836334E+1-3.2529998E+1												H2O2 (G)		12J1260	310

FITS FOR EST RMS LOW = 0.001717 RMS HIGH = 0.004551

2 1 2 8 0 0 0 0 0 0 0 HYDROGEN PEROXIDE (G) 10H2O2
-325299+5+443703+5+132719+2+220083-2-455402+6+899537+2 4001500J126011H2O2
+000000+0+000000+0+000000+0+000000+0+000000+015001500J126012H2O2

NOTES

-----EST-----

[illegible]

SULFURIC ACID (L) H 20 4S 1 0 0 0 1266
 MOL. WT.= 98.070 BLOCK= 1643 NO. POINT = 14
 DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -194.548 KEY = 311
 FITS FOR NOTS RMS = 0.000902
 1 4 8 1 16 0 0 0 0 0 SULFURIC ACID (L) 20J1266 311
 .2758636E+1+2.2827819E+1-1.7440307E+1+4.4366493E+0 400 1500 21J1266 311
 .2544555E-1-2.0662319E+2+6.8645080E+1-1.9454798E+2H2O4S (L) 22J1266 311

FITS FOR EST RMS LOW = 0.005667 RMS HIGH = 0.005667
 1 4 8 1 16 0 0 0 0 0 SULFURIC ACID (L) 20H2O4S*
 94547+6+112719+6+438713+2-501506-3-125838+7+131081+3 4001500J126621H2O4S*
 94547+6+112719+6+438713+2-501506-3-125838+7+131081+3 4001500J126622H2O4S*

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T			
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K			
400	36.700	47.790	3.575	47.789	0.001	3.574	0.001	47.851	-0.061	3.597	-0.022	400			
600	38.650	56.206	7.350	56.208	-0.002	7.351	-0.001	56.175	0.031	7.333	0.017	600			
800	40.000	63.380	11.287	63.379	0.001	11.286	0.001	63.355	0.025	11.273	0.014	800			
1000	40.930	69.611	15.330	69.609	0.002	15.329	0.001	69.603	0.008	15.328	0.002	1000			
1200	41.447	75.105	19.445	75.106	-0.001	19.446	-0.001	75.111	-0.006	19.453	-0.008	1200			
1400	41.900	80.015	23.614	80.016	-0.001	23.615	-0.001	80.021	-0.006	23.622	-0.008	1400			
1600	42.178	84.445	27.819	84.444	0.001	27.818	0.000	84.446	-0.001	27.822	-0.003	1600			
1800	42.307	88.471	32.044	88.471	0.000	32.043	0.001	88.468	0.003	32.042	0.002	1800			
2000	42.400	92.157	36.279	92.157	-0.000	36.280	-0.001	92.152	0.005	36.276	0.003	2000			
2200	42.467	95.553	40.523	95.554	-0.001	40.523	-0.000	95.549	0.004	40.520	0.003	2200			
2400	42.500	98.702	44.772	98.701	0.001	44.771	0.001	98.699	0.003	44.770	0.002	2400			
2600	42.500	101.634	49.022	101.635	-0.001	49.022	-0.000	101.634	0.000	49.025	-0.003	2600			
2800												2800			
3000												3000			
3200												3200			
3400												3400			
3600												3600			
3800												3800			
4000												4000			
4200												4200			
4400												4400			
4600												4600			
4800												4800			
5000												5000			
5200												5200			
5400												5400			
5600												5600			
5800												5800			
6000												6000			

PR
M
DAT
FIT
2 1
+1.12
-1.00
FIT
2 1
+3009
+3009

PHOSPHOROUS HYDRIDE

(G) H 2P 1

363

MOL. WT.= 32.990 BLOCK= 1644 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 30.100 KEY = 312

FITS FOR NOTS RMS = 0.024485

2 1 1 15 0 0 0 0 0 0 0 PHOSPHOROUS HYDRIDE (G) 10J 363 312
 +1.1234395E+1+1.5624217E+0-3.2885688E-1+2.3638740E-2 400 6000 11J 363 312
 -1.0050964E+0+2.4069564E+1+6.0408432E+1+3.0099990E+1H2P(G) 12J 363 312

FITS FOR EST RMS LOW = 0.039654 RMS HIGH = 0.004256

2 1 1 15 0 0 0 0 0 0 0 PHOSPHOROUS HYDRIDE (G) 10H2P
 +300999+5+325842+5+122160+2+515974-3-119801+7+762349+2 4003000J 36311H2P
 +300999+5+325681+5+139808+2-110566-4-432184+7+762349+230006000J 36312H2P

--		-----NOTS-----								-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.022	400	8.732	53.300	0.867	53.855	-0.555	1.094	-0.227	53.957	-0.657	1.138	-0.271	
0.017	600	9.656	57.013	2.705	56.946	0.067	2.644	0.061	56.933	0.080	2.634	0.071	
0.014	800	10.557	59.917	4.728	59.836	0.081	4.660	0.068	59.823	0.094	4.650	0.078	
0.002	1000	11.300	62.356	6.917	62.317	0.039	6.887	0.030	62.315	0.041	6.887	0.030	
0.008	1200	11.866	64.468	9.236	64.457	0.011	9.236	-0.000	64.462	0.006	9.244	-0.008	
0.008	1400	12.286	66.331	11.654	66.332	-0.001	11.669	-0.015	66.338	-0.007	11.679	-0.025	
0.003	1600	12.599	67.993	14.144	67.996	-0.003	14.162	-0.018	68.001	-0.008	14.170	-0.026	
0.002	1800	12.834	69.491	16.688	69.493	-0.002	16.704	-0.016	69.494	-0.003	16.705	-0.017	
0.003	2000	13.014	70.853	19.274	70.851	0.002	19.283	-0.009	70.849	0.004	19.278	-0.004	
0.003	2200	13.154	72.100	21.891	72.095	0.005	21.894	-0.003	72.091	0.009	21.883	0.008	
0.002	2400	13.265	73.249	24.533	73.243	0.006	24.531	0.002	73.237	0.012	24.519	0.014	
0.003	2600	13.353	74.315	27.195	74.307	0.008	27.190	0.005	74.303	0.012	27.181	0.014	
	2800	13.425	75.307	29.873	75.298	0.009	29.866	0.007	75.299	0.008	29.870	0.003	
	3000	13.484	76.235	32.565	76.227	0.008	32.558	0.007	76.235	0.000	32.584	-0.019	
	3000	13.484	76.235	32.565	76.227	0.008	32.558	0.007	76.235	0.000	32.568	-0.003	
	3200	13.533	77.107	35.267	77.099	0.008	35.261	0.006	77.106	0.001	35.267	-0.000	
	3400	13.575	77.929	37.977	77.921	0.008	37.974	0.003	77.927	0.002	37.977	0.000	
	3600	13.610	78.706	40.696	78.699	0.007	40.695	0.001	78.704	0.002	40.695	0.001	
	3800	13.639	79.442	43.421	79.436	0.006	43.423	-0.002	79.441	0.001	43.419	0.002	
	4000	13.665	80.143	46.151	80.137	0.006	46.155	-0.004	80.141	0.002	46.150	0.001	
	4200	13.687	80.810	48.887	80.805	0.005	48.891	-0.004	80.808	0.002	48.886	0.001	
	4400	13.707	81.447	51.626	81.442	0.005	51.631	-0.005	81.446	0.001	51.626	0.000	
	4600	13.723	82.057	54.369	82.051	0.006	54.373	-0.004	82.055	0.002	54.369	-0.000	
	4800	13.738	82.641	57.115	82.635	0.006	57.117	-0.002	82.640	0.001	57.116	-0.001	
	5000	13.752	83.202	59.864	83.196	0.006	59.864	0.000	83.201	0.001	59.865	-0.001	
	5200	13.763	83.742	62.616	83.735	0.007	62.613	0.003	83.741	0.001	62.617	-0.001	
	5400	13.774	84.262	65.370	84.254	0.008	65.366	0.004	84.260	0.002	65.370	-0.000	
	5600	13.783	84.763	68.126	84.756	0.007	68.121	0.005	84.761	0.002	68.126	0.000	
	5800	13.792	85.247	70.883	85.240	0.007	70.882	0.001	85.245	0.002	70.883	0.000	
	6000	13.800	85.714	73.642	85.709	0.005	73.648	-0.006	85.712	0.002	73.641	0.001	

HYDROGEN SULFIDE (G) H 2S 1
MOL. WT.= 34.080 BLOCK= 1650 NO. POINT = 62
ATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -4.880 KEY = 313
ITS FOR NOTS RMS = 0.028258

1265

AMMO
MOL
DATA
FITS

1 1 16 0 0 0 0 0 0 0 HYDROGEN SULFIDE (G) 10J1265 313
.0225823E+1+2.2645435E+0-4.3609017E-1+3.1009033E-2 400 6000 11J1265 313
.3582153E-1-1.0386346E+1+5.7770721E+1-4.8799991E+0H2S(G) 12J1265 313

3 1 1
+1.1763
-1.3900

ITS FOR EST RMS LOW = 0.047532 RMS HIGH = 0.004407

1 1 16 0 0 0 0 0 0 0 HYDROGEN SULFIDE (G) 10H2S
.7999+4+324094+5+115595+2+861295-3-120491+7+741769+2 4003000J126511H2S
.7999+4+323887+5+139557+2+152792-3-547654+7+741769+230006000J126512H2S

FITS
3 1 1
-109699
-109699

-----NOTS-----

-----EST-----

CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
8.504	51.597	0.849	52.197	-0.600	1.096	-0.247	52.345	-0.748	1.158	-0.309
9.306	55.193	2.628	55.129	0.064	2.566	0.062	55.112	0.081	2.552	0.076
10.162	57.988	4.575	57.897	0.091	4.497	0.078	57.878	0.110	4.483	0.092
10.943	60.342	6.687	60.295	0.047	6.650	0.037	60.290	0.052	6.648	0.039
11.584	62.396	8.943	62.381	0.015	8.940	0.003	62.386	0.010	8.949	-0.006
12.092	64.221	11.312	64.221	-0.001	11.328	-0.016	64.229	-0.008	11.341	-0.029
12.491	65.863	13.772	65.867	-0.004	13.794	-0.022	65.873	-0.010	13.804	-0.032
12.808	67.353	16.303	67.356	-0.003	16.322	-0.019	67.358	-0.005	16.325	-0.022
13.063	68.716	18.891	68.715	0.001	18.903	-0.012	68.712	0.004	18.897	-0.006
13.270	69.971	21.525	69.967	0.004	21.530	-0.005	69.960	0.011	21.516	0.009
13.444	71.133	24.197	71.126	0.007	24.195	0.002	71.118	0.015	24.179	0.018
13.590	72.215	26.900	72.206	0.009	26.894	0.006	72.200	0.015	26.883	0.017
13.715	73.227	29.631	73.217	0.010	29.623	0.008	73.217	0.010	29.627	0.004
13.824	74.177	32.385	74.167	0.010	32.377	0.008	74.177	0.000	32.409	-0.024
13.824	74.177	32.385	74.167	0.010	32.377	0.008	74.177	0.000	32.389	-0.004
13.921	75.073	35.160	75.063	0.010	35.153	0.007	75.071	0.002	35.161	-0.001
14.007	75.919	37.953	75.910	0.009	37.948	0.005	75.917	0.002	37.952	0.001
14.085	76.722	40.762	76.714	0.008	40.761	0.001	76.720	0.002	40.760	0.001
14.156	77.485	43.586	77.478	0.007	43.588	-0.002	77.484	0.001	43.585	0.001
14.223	78.213	46.424	78.207	0.006	46.429	-0.005	78.211	0.002	46.423	0.001
14.285	78.909	49.275	78.903	0.006	49.281	-0.006	78.907	0.002	49.274	0.001
14.343	79.575	52.138	79.569	0.006	52.144	-0.006	79.573	0.002	52.137	0.001
14.397	80.213	55.012	80.207	0.006	55.017	-0.005	80.212	0.001	55.012	-0.000
14.450	80.827	57.897	80.821	0.006	57.899	-0.002	80.826	0.001	57.897	-0.000
14.500	81.418	60.792	81.411	0.007	60.791	0.001	81.417	0.001	60.792	-0.000
14.548	81.988	63.697	81.980	0.008	63.693	0.004	81.986	0.002	63.697	-0.000
14.594	82.538	66.611	82.529	0.008	66.606	0.005	82.536	0.002	66.611	-0.000
14.639	83.069	69.534	83.061	0.008	69.529	0.005	83.068	0.001	69.534	-0.000
14.682	83.584	72.466	83.576	0.008	72.465	0.001	83.582	0.002	72.466	0.000
14.725	84.082	75.407	84.076	0.006	75.415	-0.008	84.081	0.001	75.406	0.001

T	K	C
400	9	
600	10	
800	12	
1000	13	
1200	14	
1400	15	
1600	16	
1800	16	
2000	17	
2200	17	
2400	18	
2600	18	
2800	18	
3000	19	
3000	19	
3200	19	
3400	19	
3600	19	
3800	19	
4000	20	
4200	20	
4400	20	
4600	20	
4800	20	
5000	21	
5200	21	
5400	21	
5600	21	
5800	21	
6000	22	

AMMONIA (G) H 3N 1 965
 MOL. WT.= 17.030 BLOCK= 1657 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -10.970 KEY = 314
 FITS FOR NOTS RMS = 0.043065
 3 1 1 7 0 0 0 0 0 0 0 AMMONIA (G) 10J 965 314
 +1.1763951E+1+4.0540504E+0-6.8228048E-1+4.9198076E-2 400 6000 11J 965 314
 -1.3900604E+0-1.8203765E+1+5.4357971E+1-1.0969999E+1H3N(G) 12J 965 314

FITS FOR EST RMS LOW = 0.067576 RMS HIGH = 0.009388
 3 1 1 7 0 0 0 0 0 0 0 AMMONIA (G) 10H3N
 -109699+5+416611+5+138667+2+185183-2-181329+7+769079+2 4003000J 96511H3N
 -109699+5+416407+5+172232+2+830613-3-699852+7+769079+230006000J 96512H3N

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.309	400	9.241	48.633	0.903	49.491	-0.858	1.257	-0.354	49.719	-1.086	1.351	-0.448	
0.076	600	10.808	52.679	2.909	52.592	0.087	2.824	0.085	52.564	0.115	2.799	0.110	
0.092	800	12.225	55.986	5.215	55.852	0.134	5.101	0.114	55.821	0.165	5.076	0.139	
0.039	1000	13.467	58.851	7.787	58.782	0.069	7.732	0.055	58.776	0.075	7.729	0.058	
0.006	1200	14.550	61.404	10.592	61.387	0.017	10.593	-0.001	61.398	0.006	10.608	-0.016	
0.029	1400	15.460	63.718	13.556	63.723	-0.005	13.625	-0.029	63.738	-0.020	13.647	-0.051	
0.032	1600	16.205	65.833	16.765	65.839	-0.006	16.796	-0.031	65.852	-0.019	16.814	-0.049	
0.022	1800	16.762	67.776	20.066	67.775	0.001	20.084	-0.018	67.781	-0.005	20.091	-0.025	
0.006	2000	17.220	69.566	23.465	69.561	0.005	23.475	-0.010	69.560	0.006	23.467	-0.002	
0.009	2200	17.630	71.227	26.950	71.219	0.008	26.956	-0.006	71.212	0.015	26.936	0.014	
0.018	2400	18.014	72.777	30.515	72.769	0.008	30.519	-0.004	72.759	0.018	30.492	0.023	
0.017	2600	18.370	74.234	34.154	74.224	0.010	34.155	-0.001	74.216	0.018	34.133	0.021	
0.004	2800	18.698	75.607	37.861	75.596	0.011	37.857	0.004	75.596	0.011	37.857	0.004	
-0.024	3000	19.000	76.908	41.631	76.894	0.014	41.620	0.011	76.908	0.000	41.661	-0.030	
-0.004	3000	19.000	76.908	41.631	76.894	0.014	41.620	0.011	76.908	0.000	41.641	-0.010	
-0.001	3200	19.228	78.141	45.454	78.126	0.015	45.439	0.015	78.139	0.002	45.455	-0.001	
0.001	3400	19.452	79.314	49.322	79.299	0.015	49.310	0.012	79.310	0.004	49.319	0.003	
0.001	3600	19.672	80.432	53.235	80.419	0.013	53.228	0.007	80.428	0.004	53.230	0.005	
0.001	3800	19.888	81.501	57.191	81.490	0.011	57.190	0.001	81.497	0.004	57.187	0.004	
0.001	4000	20.100	82.527	61.190	82.517	0.010	61.195	-0.005	82.523	0.004	61.188	0.002	
0.001	4200	20.308	83.512	65.231	83.504	0.008	65.240	-0.009	83.509	0.003	65.230	0.001	
0.001	4400	20.512	84.462	69.313	84.454	0.008	69.324	-0.011	84.459	0.003	69.314	-0.001	
-0.000	4600	20.712	85.378	73.435	85.370	0.008	73.445	-0.010	85.375	0.003	73.437	-0.002	
-0.000	4800	20.908	86.264	77.597	86.254	0.010	77.603	-0.006	86.261	0.003	77.599	-0.002	
-0.000	5000	21.100	87.121	81.798	87.111	0.010	81.798	-0.000	87.118	0.003	81.799	-0.001	
-0.000	5200	21.288	87.952	86.037	87.941	0.011	86.032	0.005	87.950	0.002	86.037	0.000	
-0.000	5400	21.472	88.759	90.313	88.747	0.012	90.304	0.009	88.756	0.003	90.312	0.001	
-0.000	5600	21.652	89.543	94.625	89.531	0.012	94.616	0.009	89.540	0.003	94.624	0.001	
0.000	5800	21.828	90.306	98.974	90.295	0.011	98.971	0.003	90.303	0.003	98.973	0.001	
0.001	6000	22.000	91.049	103.356	91.041	0.008	103.370	-0.014	91.046	0.003	103.357	-0.001	

PHOSPHORIC ACID (C) H 30 4P 1
 MOL. WT.= 97.990 BLOCK= 1663 NO. POINT = 17
 DATA FROM 0 TO 1500 K HFORM(KCAL/(MOLE)) = -301.530 KEY = 315
 BITS FOR NOTS RMS = 0.004415
 1 4 8 1 15 0 0 0 0 0 PHOSPHORIC ACID (C) 30J 662 315
 .9502487E+1+2.6278320E+1-1.9929473E+1+5.5053596E+0 400 1500 31J 662 315
 .2473449E+0-3.1532373E+2+4.8676971E+1-3.0152978E+2H304P (C) 32J 662 315

662

P

DA
 FI

3
 +4.7
 -6.2

BITS FOR EST RMS LOW = 0.005561 RMS HIGH = 0.005561
 1 4 8 1 15 0 0 0 0 0 PHOSPHORIC ACID (C) 30H304P\$
 .1529+6+110931+6+403678+2+166934-2-196284+7+114263+3 4001500J 66231H304P\$
 .1529+6+110931+6+403678+2+166934-2-196284+7+114263+3 4001500J 66232H304P\$

FI
 3
 -298
 -298

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
100	30.000	34.558	2.832	34.577	-0.019	2.838	-0.006	34.611	-0.053	2.850	-0.018	400
100	33.250	41.625	6.005	41.599	0.026	5.992	0.013	41.578	0.047	5.980	0.025	500
100	35.700	47.915	9.458	47.915	0.000	9.460	-0.002	47.905	0.010	9.454	0.004	600
100	37.400	53.555	13.120	53.569	-0.014	13.130	-0.010	53.571	-0.016	13.132	-0.012	700
100	38.800	58.649	16.936	58.653	-0.004	16.939	-0.003	58.659	-0.010	16.944	-0.008	800
100	39.500	63.266	20.856	63.255	0.011	20.847	0.009	63.259	0.007	20.850	0.006	900
100	40.000	67.453	24.831	67.449	0.004	24.828	0.003	67.449	0.004	24.827	0.004	1000
100	40.600	71.292	28.860	71.296	-0.004	28.864	-0.004	71.293	-0.001	28.861	-0.001	1100
100	41.000	74.842	32.940	74.845	-0.003	32.943	-0.003	74.843	-0.001	32.941	-0.001	1200
100	41.400	78.140	37.060	78.140	0.000	37.060	0.000	78.140	0.000	37.060	-0.000	1300
100	41.700	81.219	41.215	81.216	0.003	41.212	0.003	81.218	0.001	41.215	0.000	1400
100	42.000	84.106	45.400	84.107	-0.001	45.402	-0.002	84.106	0.000	45.400	-0.000	1500

1600
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 1900
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PHOSPHINE (G) H 3P 1
 MOL. WT.= 33.990 BLOCK= 1667 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 5.470 KEY = 317
 ITS FOR NOTS RMS = 0.039959
 1 1 15 0 0 0 0 0 0 0 PHOSPHINE (G) 10J 662 317
 579442E+1+2.5161132E+0-5.3114408E-1+3.8266360E-2 400 6000 11J 662 317
 278717E+0-4.4322986E+0+6.1214797E+1+5.4699993E+0H3P(G) 12J 662 317

ITS FOR EST RMS LOW = 0.065551 RMS HIGH = 0.005945
 1 1 15 0 0 0 0 0 0 0 PHOSPHINE (G) 10H3P
 999+4+448388+5+171706+2+824464-3-224336+7+839549+2 4003000J 66211H3P
 999+4+448115+5+199552+2-133276-4-700518+7+839549+230006000J 66212H3P

-----NOTS-----		-----EST-----									
CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.001	9.987	52.997	0.959	53.929	-0.932	1.339	-0.380	54.100	-1.103	1.412	-0.453
-0.000	12.167	57.468	3.179	57.351	0.117	3.074	0.105	57.332	0.136	3.059	0.120
-0.000	13.985	61.227	5.801	61.094	0.133	5.690	0.111	61.074	0.153	5.674	0.127
0.000	15.368	64.504	8.744	64.442	0.062	8.696	0.048	64.439	0.065	8.695	0.049
0.000	16.380	67.401	11.924	67.384	0.017	11.925	-0.001	67.392	0.009	11.937	-0.013
0.000	17.115	69.984	15.277	69.986	-0.002	15.303	-0.026	69.997	-0.013	15.318	-0.041
0.000	17.655	72.306	18.757	72.312	-0.006	18.788	-0.031	72.321	-0.015	18.800	-0.043
0.000	18.058	74.410	22.330	74.413	-0.003	22.356	-0.026	74.416	-0.006	22.358	-0.028
0.000	18.365	76.329	25.974	76.327	0.002	25.989	-0.015	76.324	0.005	25.981	-0.007
0.000	18.602	78.091	29.672	78.084	0.007	29.677	-0.005	78.077	0.014	29.659	0.013
-0.000	18.789	79.718	33.411	79.707	0.011	33.408	0.003	79.699	0.019	33.388	0.023
-0.000	18.939	81.228	37.185	81.215	0.013	37.176	0.009	81.209	0.019	37.162	0.023
-0.000	19.060	82.636	40.985	82.622	0.014	40.973	0.012	82.624	0.012	40.980	0.005
-0.000	19.159	83.955	44.807	83.940	0.015	44.796	0.011	83.955	0.000	44.839	-0.032
0.000	19.159	83.955	44.807	83.940	0.015	44.796	0.011	83.955	0.000	44.812	-0.005
0.000	19.242	85.194	48.648	85.180	0.014	48.638	0.010	85.193	0.001	48.648	-0.000
0.000	19.311	86.363	52.503	86.350	0.013	52.498	0.005	86.361	0.002	52.502	0.001
	19.369	87.468	56.371	87.457	0.011	56.370	0.001	87.466	0.002	56.369	0.002
	19.419	88.517	60.250	88.506	0.011	60.253	-0.003	88.515	0.002	60.248	0.002
	19.462	89.514	64.138	89.504	0.010	64.144	-0.006	89.512	0.002	64.136	0.002
	19.499	90.464	68.035	90.455	0.009	68.042	-0.007	90.463	0.001	68.033	0.002
	19.532	91.372	71.938	91.363	0.009	71.945	-0.007	91.371	0.001	71.937	0.001
	19.560	92.241	75.847	92.232	0.009	75.853	-0.006	92.240	0.001	75.847	0.000
	19.585	93.074	79.762	93.064	0.010	79.764	-0.002	93.073	0.001	79.762	0.000
	19.607	93.874	83.681	93.863	0.011	83.680	0.001	93.873	0.001	83.681	-0.000
	19.627	94.644	87.604	94.632	0.012	87.600	0.004	94.642	0.002	87.605	-0.001
	19.644	95.385	91.531	95.372	0.013	91.524	0.007	95.383	0.002	91.532	-0.001
	19.660	96.099	95.462	96.087	0.012	95.455	0.007	96.098	0.001	95.462	-0.000
	19.674	96.789	99.395	96.778	0.011	99.394	0.001	96.788	0.001	99.395	0.000
	19.687	97.457	103.332	97.447	0.010	103.342	-0.010	97.455	0.002	103.330	0.002

LITHIUM

(R) LI 1

662

MOL. WT.= 6.930 BLOCK= 1686 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 0.000 KEY = 320

FITS FOR NOTS RMS = 8.197635

1 71 0 0 0 0 0 0 0 0 0 LITHIUM (R) 10J 662 320
+2.4531222E+2-1.6783078E+2+3.8947158E+1-2.9469347E+0 400 6000 11J 662 320
-6.9943206E+1-2.4134208E+2+1.2604547E+2+0.0000000E+0 LI (R) 12J 662 320

FITS FOR EST RMS LOW = 10.865562 RMS HIGH = 0.077560

1 71 0 0 0 0 0 0 0 0 0 LITHIUM (R) 10LI
+000000+0+496381+5+152439+3-539912-1-598660+8+446499+2 4003000J 66211LI
+000000+0+518840+5-501121+1+207742-2+392430+8+446499+230006000J 66212LI

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	6.599	8.774	0.632	55.762	-46.988	19.026	-18.394	61.633	-52.859	21.648	-21.016
600	7.060	13.216	2.763	3.977	9.239	-5.084	7.847	8.709	4.507	-3.152	5.915
800	6.916	15.218	4.155	3.644	11.574	-5.024	9.179	5.388	9.830	-5.167	9.322
1000	6.892	16.759	5.536	11.678	5.081	2.244	3.292	11.768	4.991	0.636	4.900
1200	6.868	18.013	6.912	20.005	-1.992	11.386	-4.474	19.617	-1.604	9.268	-2.356
1400	6.840	19.070	8.283	26.938	-7.868	20.374	-12.091	26.802	-7.732	18.591	-10.308
1600	6.800	19.981	9.647	32.303	-12.323	28.396	-18.749	32.780	-12.799	27.536	-17.889
1800	4.974	42.075	45.871	36.301	5.774	35.171	10.700	37.482	4.593	35.509	10.362
2000	4.983	42.599	46.866	39.200	3.399	40.664	6.202	40.990	1.609	42.155	4.711
2200	5.001	43.075	47.865	41.254	1.821	44.965	2.900	43.422	-0.347	47.245	0.620
2400	5.031	43.511	48.868	42.675	0.836	48.223	0.645	44.900	-1.389	50.629	-1.761
2600	5.074	43.915	49.878	43.634	0.281	50.614	-0.736	45.534	-1.619	52.203	-2.325
2800	5.134	44.293	50.898	44.267	0.026	52.321	-1.423	45.423	-1.130	51.891	-0.993
3000	5.209	44.650	51.932	44.681	-0.031	53.519	-1.587	44.650	0.000	49.638	2.294
3000	5.209	44.650	51.932	44.681	-0.031	53.519	-1.587	44.650	0.000	51.884	0.048
3200	5.300	44.989	52.983	44.958	0.031	54.375	-1.392	45.006	-0.017	52.987	-0.004
3400	5.407	45.314	54.054	45.159	0.155	55.036	-0.982	45.337	-0.023	54.078	-0.024
3600	5.529	45.626	55.147	45.328	0.298	55.630	-0.483	45.649	-0.023	55.171	-0.024
3800	5.666	45.929	56.266	45.499	0.430	56.262	0.004	45.949	-0.020	56.279	-0.014
4000	5.818	46.223	57.414	45.692	0.531	57.015	0.399	46.240	-0.017	57.414	-0.000
4200	5.987	46.511	58.595	45.919	0.592	57.945	0.650	46.525	-0.014	58.582	0.013
4400	6.175	46.794	59.810	46.183	0.611	59.083	0.727	46.806	-0.012	59.791	0.019
4600	6.385	47.073	61.066	46.483	0.590	60.434	0.632	47.085	-0.012	61.047	0.019
4800	6.621	47.349	62.366	46.811	0.538	61.977	0.389	47.363	-0.014	62.353	0.013
5000	6.886	47.625	63.716	47.155	0.470	63.662	0.054	47.640	-0.015	63.713	0.003
5200	7.186	47.901	65.123	47.499	0.402	65.416	-0.293	47.918	-0.017	65.132	-0.009
5400	7.523	48.178	66.593	47.823	0.355	67.133	-0.540	48.198	-0.020	66.611	-0.018
5600	7.901	48.458	68.135	48.105	0.353	68.684	-0.549	48.478	-0.020	68.154	-0.019
5800	8.322	48.743	69.757	48.321	0.422	69.909	-0.152	48.760	-0.017	69.761	-0.004
6000	8.787	49.033	71.467	48.442	0.591	70.623	0.844	49.044	-0.011	71.436	0.031

LITHIUM (C) LI 1
 MOL. WT.= 6.930 BLCCK= 1692 NO. POINT = 22
 DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = 0.000 KEY = 321
 FITS FOR NOTS RMS = 0.000924
 1 71 0 0 0 0 0 0 0 0 0 LITHIUM (C) 30J 662 321
 +8.4452085E+0-1.9684419E+0+1.1725330E+0-2.3877131E-1 400 2000 31J 662 321
 -1.4411544E-1-2.9753398E+0+1.6750259E+1+0.0000000E+0LI (C) 32J 662 321

FITS FOR EST RMS LOW = 0.001685 RMS HIGH = 0.001685
 1 71 0 0 0 0 0 0 0 0 0 LITHIUM (C) 30LI\$
 +000000+0+194642+5+732095+1-293876-4-286140+5+233299+2 4002000J 66231LI\$
 +000000+0+194642+5+732095+1-293876-4-286140+5+233299+2 4002000J 66232LI\$

-----NOTS-----												-----EST-----											
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	6.599	8.774	0.632	8.764	0.010	0.629	0.003	8.743	0.031	0.622	0.010	400	6.599	8.774	0.632	8.764	0.010	0.629	0.003	8.743	0.031	0.622	0.010
500	7.222	10.328	1.330	10.337	-0.009	1.335	-0.005	10.342	-0.014	1.338	-0.008	500	7.222	10.328	1.330	10.337	-0.009	1.335	-0.005	10.342	-0.014	1.338	-0.008
600	7.261	11.650	2.055	11.649	0.001	2.054	0.001	11.656	-0.006	2.059	-0.004	600	7.261	11.650	2.055	11.649	0.001	2.054	0.001	11.656	-0.006	2.059	-0.004
700	7.262	12.769	2.782	12.767	0.002	2.780	0.002	12.771	-0.002	2.782	-0.000	700	7.262	12.769	2.782	12.767	0.002	2.780	0.002	12.771	-0.002	2.782	-0.000
800	7.262	13.739	3.508	13.738	0.001	3.507	0.001	13.739	0.000	3.507	0.001	800	7.262	13.739	3.508	13.738	0.001	3.507	0.001	13.739	0.000	3.507	0.001
900	7.262	14.595	4.234	14.595	0.000	4.234	-0.000	14.594	0.001	4.233	0.001	900	7.262	14.595	4.234	14.595	0.000	4.234	-0.000	14.594	0.001	4.233	0.001
1000	7.262	15.360	4.960	15.361	-0.001	4.961	-0.001	15.359	0.001	4.959	0.001	1000	7.262	15.360	4.960	15.361	-0.001	4.961	-0.001	15.359	0.001	4.959	0.001
1100	7.262	16.052	5.686	16.053	-0.001	5.687	-0.001	16.051	0.001	5.685	0.001	1100	7.262	16.052	5.686	16.053	-0.001	5.687	-0.001	16.051	0.001	5.685	0.001
1200	7.262	16.684	6.413	16.685	-0.001	6.413	-0.000	16.683	0.001	6.412	0.001	1200	7.262	16.684	6.413	16.685	-0.001	6.413	-0.000	16.683	0.001	6.412	0.001
1300	7.262	17.265	7.139	17.266	-0.001	7.139	-0.000	17.265	0.000	7.139	0.000	1300	7.262	17.265	7.139	17.266	-0.001	7.139	-0.000	17.265	0.000	7.139	0.000
1400	7.262	17.803	7.865	17.803	-0.000	7.865	0.000	17.803	-0.000	7.865	-0.000	1400	7.262	17.803	7.865	17.803	-0.000	7.865	0.000	17.803	-0.000	7.865	-0.000
1500	7.262	18.304	8.591	18.304	-0.000	8.591	0.000	18.304	-0.000	8.592	-0.001	1500	7.262	18.304	8.591	18.304	-0.000	8.591	0.000	18.304	-0.000	8.592	-0.001
1600	7.262	18.773	9.317	18.773	-0.000	9.317	-0.000	18.773	-0.000	9.318	-0.001	1600	7.262	18.773	9.317	18.773	-0.000	9.317	-0.000	18.773	-0.000	9.318	-0.001
1700	7.262	19.213	10.044	19.213	-0.000	10.044	0.000	19.213	-0.000	10.044	-0.000	1700	7.262	19.213	10.044	19.213	-0.000	10.044	0.000	19.213	-0.000	10.044	-0.000
1800	7.262	19.628	10.770	19.629	-0.001	10.770	0.000	19.628	-0.000	10.770	-0.000	1800	7.262	19.628	10.770	19.629	-0.001	10.770	0.000	19.628	-0.000	10.770	-0.000
1900	7.262	20.021	11.496	20.021	-0.000	11.496	-0.000	20.021	0.000	11.496	0.000	1900	7.262	20.021	11.496	20.021	-0.000	11.496	-0.000	20.021	0.000	11.496	0.000
2000	7.262	20.393	12.222	20.393	-0.001	12.222	0.000	20.393	0.000	12.222	0.000	2000	7.262	20.393	12.222	20.393	-0.001	12.222	0.000	20.393	0.000	12.222	0.000

LIT
 MO
 DATA
 FITS
 1 71
 +7.137
 +3.425

FITS
 1 71
 +56899
 +56899

T
 K
 400
 600
 800
 1000
 1200
 1400
 1600
 1800
 2000
 2200
 2400
 2600
 2800
 3000
 3200
 3400
 3600
 3800
 4000

662

DATA FROM 298 TO 4000 K HFORM(KCAL/(MOLE)) = 0.569 KEY = 322

ITH
 MOL
 TA
 TS
 71 0
 306
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1 71 0 0 0 0 0 0 0 0 0 LITHIUM	(L)	20J	662	322
+7.1377277E+0-3.9591360E-1+1.3509005E-1-1.4864414E-2 400 4000		21J	662	322
+3.4255981E-2-1.4085845E+0+1.7109832E+1+5.6899994E-1 LI (L)		22J	662	322

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1 71 0 0 0 0 0 0 0 0 0 LITHIUM (L) 20LI*
+568999+3+185586+5+672921+1+813372-5+136352+6+242359+2 4 004000J 66221LI*
+568999+3+185586+5+672921+1+813372-5+136352+6+242359+2 4 004000J 66222LI*

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	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
010	400	7.340	10.291	0.755	10.315	-0.024	0.763	-0.008	10.238	0.053	0.731	0.024
008	600	7.060	13.214	2.195	13.202	0.012	2.186	0.009	13.204	0.010	2.192	0.003
004	800	6.916	15.216	3.586	15.214	0.002	3.585	0.001	15.225	-0.009	3.595	-0.009
000	1000	6.892	16.757	4.966	16.759	-0.002	4.969	-0.003	16.766	-0.009	4.977	-0.011
001	1200	6.868	18.011	6.342	18.013	-0.002	6.344	-0.002	18.016	-0.005	6.347	-0.005
001	1400	6.840	19.068	7.714	19.067	0.001	7.712	0.002	19.067	0.001	7.711	0.003
001	1600	6.800	19.979	9.078	19.977	0.002	9.075	0.003	19.975	0.004	9.072	0.006
001	1800	6.770	20.778	10.434	20.777	0.001	10.434	0.000	20.775	0.003	10.430	0.004
001	2000	6.770	21.491	11.788	21.492	-0.001	11.790	-0.002	21.490	0.001	11.786	0.002
000	2200	6.770	22.137	13.142	22.137	-0.000	13.144	-0.002	22.136	0.001	13.142	0.000
000	2400	6.770	22.726	14.496	22.726	-0.000	14.498	-0.002	22.725	0.001	14.497	-0.001
001	2600	6.770	23.267	15.850	23.268	-0.001	15.851	-0.001	23.267	-0.000	15.851	-0.001
001	2800	6.770	23.769	17.204	23.769	-0.000	17.204	0.000	23.769	0.000	17.205	-0.001
000	3000	6.770	24.236	18.558	24.236	0.000	18.557	0.001	24.236	0.000	18.559	-0.001
000	3200	6.770	24.673	19.912	24.673	0.000	19.911	0.001	24.673	0.000	19.912	-0.000
000	3400	6.770	25.084	21.266	25.083	0.001	21.265	0.001	25.083	0.001	21.266	-0.000
000	3600	6.770	25.471	22.620	25.470	0.001	22.620	0.000	25.470	0.001	22.620	0.000
	3800	6.770	25.837	23.974	25.837	0.000	23.974	-0.000	25.836	0.001	23.974	0.000
	4000	6.770	26.184	25.328	26.184	0.000	25.328	-0.000	26.183	0.001	25.328	0.000

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LITHIUM

(G)

LI 1

662

MOL. WT. = 6.930 BLOCK = 1698 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 38.410 KEY = 323

PTS FOR NOTS RMS = 0.017948

1 0 0 0 0 0 0 0 0 0 LITHIUM

(G) 10J 662 323

306009E+0+2.8704667E-1-1.2858778E-1+3.2375171E-2 400 6000

11J 662 323

705993E-1+3.7299896E+1+3.9001693E+1+3.8409988E+1LI (G)

12J 662 323

PTS FOR EST RMS LOW = 0.010575 RMS HIGH = 0.077510

1 0 0 0 0 0 0 0 0 0 LITHIUM

(G) 10LI

.099+5+135154+5+469309+1+140554-3+105290+6+446519+2 4003000J 66211LI

+8

.099+5+134755+5-501197+1+207737-2+39259.8+446519+230006000J 66212LI

+8

-----NOTS-----

-----EST-----

DH	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
1 0.024	4.968	34.603	0.506	34.467	0.136	0.445	0.061	34.507	0.096	0.464	0.042
2 0.003	4.968	36.618	1.500	36.611	0.007	1.500	0.000	36.621	-0.003	1.504	-0.004
5 -0.009	4.968	38.047	2.493	38.063	-0.016	2.509	-0.016	38.063	-0.016	2.507	-0.014
7 -0.011	4.968	39.156	3.487	39.172	-0.016	3.502	-0.015	39.168	-0.012	3.497	-0.010
7 -0.005	4.968	40.061	4.481	40.072	-0.011	4.490	-0.009	40.068	-0.007	4.484	-0.003
1 0.003	4.968	40.827	5.474	40.833	-0.006	5.477	-0.003	40.829	-0.002	5.472	0.002
2 0.006	4.970	41.491	6.468	41.492	-0.001	6.464	0.004	41.490	0.001	6.462	0.006
10 0.004	4.974	42.076	7.462	42.075	0.001	7.454	0.008	42.076	0.000	7.456	0.006
16 0.002	4.983	42.601	8.458	42.599	0.002	8.448	0.010	42.601	-0.000	8.453	0.005
12 0.000	5.001	43.076	9.456	43.075	0.001	9.447	0.009	43.079	-0.003	9.456	0.000
17 -0.001	5.031	43.513	10.459	43.512	0.001	10.453	0.006	43.517	-0.004	10.463	-0.004
1 -0.001	5.074	43.917	11.469	43.918	-0.001	11.467	0.002	43.922	-0.005	11.475	-0.006
5 -0.001	5.134	44.295	12.490	44.298	-0.003	12.492	-0.002	44.299	-0.004	12.493	-0.003
9 -0.001	5.209	44.652	13.524	44.656	-0.004	13.529	-0.005	44.652	0.000	13.515	0.009
12 -0.000	5.209	44.652	13.524	44.656	-0.004	13.529	-0.005	44.652	0.000	13.476	0.048
16 -0.000	5.300	44.991	14.575	44.995	-0.004	14.582	-0.007	45.008	-0.017	14.579	-0.004
20 0.000	5.407	45.315	15.645	45.320	-0.005	15.653	-0.008	45.339	-0.024	15.669	-0.024
24 0.000	5.529	45.628	16.738	45.632	-0.004	16.744	-0.006	45.651	-0.023	16.763	-0.025
28 0.000	5.666	45.930	17.858	45.934	-0.004	17.861	-0.003	45.951	-0.021	17.871	-0.013
	5.818	46.225	19.006	46.227	-0.002	19.006	0.000	46.242	-0.017	19.006	0.000
	5.987	46.513	20.186	46.514	-0.001	20.183	0.003	46.527	-0.014	20.174	0.012
	6.175	46.795	21.402	46.797	-0.002	21.397	0.005	46.808	-0.013	21.383	0.019
	6.385	47.074	22.658	47.076	-0.002	22.652	0.006	47.087	-0.013	22.639	0.019
	6.621	47.351	23.958	47.353	-0.002	23.953	0.005	47.365	-0.014	23.945	0.013
	6.886	47.627	25.308	47.629	-0.002	25.306	0.002	47.642	-0.015	25.305	0.003
	7.186	47.902	26.715	47.905	-0.003	26.716	-0.001	47.921	-0.019	26.724	-0.009
	7.523	48.180	28.185	48.183	-0.003	28.190	-0.005	48.200	-0.020	28.203	-0.018
	7.901	48.460	29.727	48.464	-0.004	29.732	-0.005	48.480	-0.020	29.745	-0.018
	8.322	48.745	31.348	48.747	-0.002	31.350	-0.002	48.762	-0.017	31.353	-0.005
	8.787	49.034	33.058	49.036	-0.002	33.050	0.008	49.046	-0.012	33.027	0.031

LITHIUM NITRIDE (G) LI 1N 1 0 0 0 0 1266
 MOL. WT.= 20.940 BLOCK= 1705 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 80.000 KEY = 324
 FITS FOR NOTS RMS = 0.001525
 1 7 1 71 0 0 0 0 0 0 LITHIUM NITRIDE (G) 10J1266 324
 +8.9129247E+0+2.1839463E-1-5.4928958E-3+4.6266079E-4 400 6000 11J1266 324
 -1.4175415E-1+7.6889480E+1+5.9763870E+1+8.0000000E+1LIN(G) 12J1266 324

FITS FOR EST RMS LOW = 0.001031 RMS HIGH = 0.002988
 1 7 1 71 0 0 0 0 0 0 LITHIUM NITRIDE (G) 10LIN
 +800000+5+246181+5+892539+1+202447-3-143664+6+701979+2 4003000J126611LIN
 +800000+5+246196+5+900404+1+187835-3-554976+6+701979+230006000J126612LIN

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	ES	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.042	400	8.241	52.110	0.821	52.127	-0.017	0.826	-0.005	52.129	-0.019	0.829	-0.008	
-0.004	600	8.655	55.541	2.516	55.538	0.003	2.512	0.004	55.539	0.002	2.514	0.002	
-0.014	800	8.858	58.062	4.269	58.059	0.003	4.266	0.003	58.060	0.002	4.268	0.001	
-0.010	1000	8.980	60.052	6.054	60.051	0.001	6.052	0.002	60.051	0.001	6.053	0.001	
-0.003	1200	9.067	61.698	7.859	61.696	0.002	7.857	0.002	61.697	0.001	7.859	0.000	
0.002	1400	9.135	63.100	9.679	63.100	0.000	9.678	0.001	63.100	-0.000	9.680	-0.001	
0.006	1600	9.193	64.324	11.512	64.324	0.000	11.512	0.000	64.324	-0.000	11.513	-0.001	
0.006	1800	9.246	65.410	13.356	65.410	0.000	13.356	0.000	65.410	0.000	13.357	-0.001	
0.005	2000	9.295	66.387	15.211	66.387	0.000	15.210	0.001	66.387	0.000	15.211	0.000	
0.000	2200	9.341	67.275	17.074	67.275	0.000	17.074	-0.000	67.275	0.000	17.074	-0.000	
-0.004	2400	9.386	68.090	18.947	68.090	0.000	18.947	-0.000	68.089	0.001	18.947	0.000	
-0.006	2600	9.430	68.843	20.829	68.843	0.000	20.829	0.000	68.842	0.001	20.829	0.000	
-0.003	2800	9.473	69.543	22.719	69.543	-0.000	22.719	-0.000	69.543	0.000	22.719	-0.000	
0.009	3000	9.515	70.198	24.618	70.198	-0.000	24.618	-0.000	70.198	0.000	24.618	-0.000	
0.048	3000	9.515	70.198	24.618	70.198	-0.000	24.618	-0.000	70.198	0.000	24.620	-0.002	
-0.004	3200	9.556	70.813	26.525	70.814	-0.001	26.525	-0.000	70.813	0.000	26.525	-0.000	
-0.024	3400	9.598	71.394	28.440	71.394	-0.000	28.441	-0.001	71.393	0.001	28.440	0.000	
-0.025	3600	9.639	71.944	30.364	71.944	-0.000	30.365	-0.001	71.943	0.001	30.363	0.001	
-0.013	3800	9.679	72.466	32.296	72.466	-0.000	32.296	-0.000	72.465	0.001	32.295	0.001	
0.000	4000	9.720	72.963	34.236	72.964	-0.001	34.236	-0.000	72.963	0.000	34.235	0.001	
0.012	4200	9.760	73.439	36.184	73.439	0.000	36.184	-0.000	73.438	0.001	36.183	0.001	
0.019	4400	9.800	73.894	38.140	73.894	0.000	38.140	0.000	73.893	0.001	38.139	0.001	
0.019	4600	9.841	74.330	40.104	74.330	-0.000	40.104	0.000	74.330	0.000	40.104	0.000	
0.013	4800	9.881	74.750	42.076	74.750	0.000	42.076	0.000	74.749	0.001	42.076	-0.000	
0.003	5000	9.921	75.154	44.056	75.154	-0.000	44.056	0.000	75.153	0.001	44.056	-0.000	
-0.009	5200	9.960	75.544	46.044	75.544	0.000	46.044	0.000	75.543	0.001	46.045	-0.001	
-0.018	5400	10.000	75.921	48.040	75.921	0.000	48.040	0.000	75.920	0.001	48.041	-0.001	
-0.018	5600	10.040	76.285	50.044	76.285	0.000	50.044	0.000	76.284	0.001	50.044	-0.000	
-0.005	5800	10.080	76.638	52.056	76.638	0.000	52.056	0.000	76.637	0.001	52.056	0.000	
0.031	6000	10.120	76.980	54.076	76.980	-0.000	54.076	-0.000	76.979	0.001	54.075	0.001	

LITHIUM, DIATOMIC (G) LI 2 662
 MOL. WT. = 13.870 BLOCK = 1717 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 50.400 KEY = 326
 FITS FOR NOTS RMS = 0.001705
 2 71 0 0 0 0 0 0 0 0 LITHIUM, DIATOMIC (G) 10J 662 326
 +8.9491748E+0+3.2144987E-1-1.5169188E-4+5.9177560E-5 400 6000 11J 662 326
 -4.4815063E-2+4.7572509E+1+5.7551513E+1+5.0399993E+1LI2(G) 12J 662 326

FITS FOR EST RMS LOW = 0.000534 RMS HIGH = 0.003316
 2 71 0 0 0 0 0 0 0 0 LITHIUM, DIATOMIC (G) 10LI2
 +503999+5+254810+5+894096+1+324282-3-411840+5+683499+2 4003000J 66211LI2
 +503999+5+254832+5+901407+1+313078-3-502016+6+683499+230006000J 66212LI2

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
1 -0.009	400	8.826	49.616	0.890	49.620	-0.004	0.890	0.000	49.618	-0.002	0.890	-0.000	
5 0.003	600	9.022	53.236	2.677	53.235	0.001	2.675	0.002	53.237	-0.001	2.677	0.000	
3 0.002	800	9.136	55.848	4.493	55.847	0.001	4.491	0.002	55.849	-0.001	4.493	-0.000	
4 0.001	1000	9.224	57.897	6.330	57.895	0.002	6.327	0.003	57.897	-0.000	6.329	0.001	
3 -0.000	1200	9.301	59.585	8.182	59.584	0.001	8.180	0.002	59.586	-0.001	8.182	-0.000	
5 -0.000	1400	9.374	61.025	10.050	61.024	0.001	10.048	0.002	61.025	-0.000	10.050	0.000	
0 -0.001	1600	9.444	62.281	11.932	62.281	0.000	11.931	0.001	62.281	-0.000	11.932	0.000	
2 0.000	1800	9.512	63.397	13.827	63.397	-0.000	13.827	0.000	63.398	-0.001	13.827	-0.000	
2 -0.000	2000	9.579	64.403	15.736	64.403	0.000	15.736	-0.000	64.403	-0.000	15.736	-0.000	
0 0.000	2200	9.646	65.319	17.659	65.319	-0.000	17.659	0.000	65.319	-0.000	17.659	0.000	
5 0.000	2400	9.712	66.161	19.595	66.161	-0.000	19.595	0.000	66.162	-0.001	19.595	0.000	
5 0.000	2600	9.778	66.941	21.543	66.941	-0.000	21.544	-0.001	66.942	-0.001	21.544	-0.001	
4 0.000	2800	9.843	67.668	23.506	67.669	-0.001	23.506	-0.000	67.669	-0.001	23.506	0.000	
8 -0.000	3000	9.909	68.350	25.481	68.350	0.000	25.481	-0.000	68.350	0.000	25.481	-0.000	
0 -0.002	3000	9.909	68.350	25.481	68.350	0.000	25.481	-0.000	68.350	0.000	25.483	-0.002	
9 -0.001	3200	9.974	68.991	27.469	68.991	-0.000	27.470	-0.001	68.991	0.000	27.470	-0.001	
4 0.000	3400	10.039	69.598	29.470	69.598	-0.000	29.471	-0.001	69.597	0.001	29.470	0.000	
5 0.001	3600	10.104	70.173	31.485	70.174	-0.001	31.485	-0.000	70.173	0.000	31.484	0.001	
3 0.001	3800	10.169	70.721	33.512	70.722	-0.001	33.512	-0.000	70.721	0.000	33.511	0.001	
7 0.001	4000	10.234	71.245	35.552	71.245	0.000	35.553	-0.001	71.244	0.001	35.551	0.001	
6 0.001	4200	10.299	71.746	37.606	71.746	0.000	37.606	0.000	71.745	0.001	37.605	0.001	
2 0.000	4400	10.364	72.226	39.672	72.226	-0.000	39.672	0.000	72.226	0.000	39.671	0.001	
3 0.000	4600	10.429	72.688	41.751	72.688	-0.001	41.751	-0.000	72.688	0.000	41.751	-0.000	
9 -0.000	4800	10.494	73.134	43.843	73.134	0.000	43.843	-0.000	73.133	0.001	43.844	-0.001	
2 -0.001	5000	10.559	73.563	45.949	73.563	-0.000	45.948	0.001	73.563	0.000	45.949	-0.000	
9 -0.000	5200	10.623	73.979	48.067	73.979	0.000	48.067	0.000	73.978	0.001	48.067	-0.000	
3 -0.001	5400	10.688	74.381	50.198	74.381	0.000	50.198	0.000	74.380	0.001	50.199	-0.001	
1 -0.000	5600	10.753	74.771	52.342	74.771	0.000	52.342	0.000	74.770	0.001	52.342	-0.000	
6 0.000	5800	10.818	75.149	54.499	75.149	-0.000	54.499	-0.000	75.149	0.000	54.499	-0.000	
5 0.001	6000	10.883	75.517	56.669	75.517	-0.000	56.669	-0.000	75.516	0.001	56.668	0.001	

LITHIUM OXIDE (C) LI 20 1 364 LITH
 MOL. WT.= 29.870 BLOCK= 1724 NO. POINT = 32 MOL
 DATA FROM 0 TO 3000 K BFORM(KCAL/(MOLE)) = -143.100 KEY = 327 DATA
 FITS FOR NOTS RMS = 0.011017 FITS
 8 2 71 0 0 0 0 0 0 0 LITHIUM OXIDE (C) 30J 364 327 1 8 2
 2463563E+1+1.2418300E+1-4.5247793E+0+6.4249014E-1 400 3000 31J 364 327 +2.9649
 621337E-1-1.4827543E+2+1.9137878E+1-1.4309999E+2LI2O(C) 32J 364 327 -1.9830

FITS FOR EST RMS LOW = 0.045812 RMS HIGH = 0.045812 FITS
 8 2 71 0 0 0 0 0 0 0 LITHIUM OXIDE (C) 30LI2O\$ 1 8 2
 5099+6+604951+5+209715+2+183390-2-181288+7+555219+2 4003000J 36431LI2O\$ -132128
 5099+6+604951+5+209715+2+183390-2-181288+7+555219+2 4003000J 36432LI2O\$ -132128

-----NOTS-----								-----EST-----					
CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C	
C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M	K		
15.297	13.221	1.449	13.294	-0.073	1.477	-0.028	14.063	-0.842	1.791	-0.342	400	15.	
17.644	19.905	4.762	19.879	0.026	4.743	0.019	19.785	0.120	4.658	0.104	600	24.	
19.255	25.211	8.458	25.192	0.019	8.446	0.012	25.084	0.127	8.354	0.104	800	24.	
20.605	29.654	12.446	29.661	-0.007	12.456	-0.010	29.620	0.034	12.425	0.021	1000	24.	
21.800	33.519	16.689	33.531	-0.012	16.704	-0.015	33.534	-0.015	16.721	-0.032	1200	24.	
22.675	36.949	21.141	36.949	0.000	21.141	0.000	36.966	-0.017	21.176	-0.035	1400	24.	
23.260	40.018	25.739	40.010	0.008	25.728	0.011	40.025	-0.007	25.759	-0.020	1600	24.	
23.770	42.786	30.440	42.783	0.003	30.437	0.003	42.788	-0.002	30.450	-0.010	1800	24.	
24.240	45.316	35.244	45.316	0.000	35.245	-0.001	45.311	0.005	35.241	0.003	2000	24.	
24.652	47.646	40.133	47.647	-0.001	40.139	-0.006	47.637	0.009	40.123	0.010	2200	24.	
25.053	49.808	45.104	49.809	-0.001	45.108	-0.004	49.799	0.009	45.092	0.012	2400	24.	
25.443	51.829	50.154	51.828	0.001	50.152	0.002	51.821	0.008	50.145	0.009	2600	24.	
25.822	53.728	55.280	53.726	0.002	55.275	0.005	53.723	0.005	55.280	-0.000	2800	24.	
26.190	55.522	60.482	55.523	-0.001	60.487	-0.005	55.522	0.000	60.495	-0.013	3000	24.	

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 3400 24.
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LITHIUM OXIDE

(G)

LI 20 1

364

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MOL

DATA

FITS

MOL. WT. = 29.870 BLOCK = 1731 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -39.900 KEY = 329
 FITS FOR NOTS RMS = 0.003304

8 2 71 0 0 0 0 0 0 LITHIUM OXIDE (G) 10J 364 329
 4766999E+1+6.7498128E-2-1.9926298E-2+1.5332363E-3 400 6000 11J 364 329
 1639709E-1-4.5572677E+1+7.0614456E+1-3.9899993E+1LI20 (G) 12J 364 329

1 7 3
 +1.5249
 -1.0581

FITS FOR EST RMS LOW = 0.003530 RMS HIGH = 0.004636

8 2 71 0 0 0 0 0 0 LITHIUM OXIDE (G) 10LI20
 8999+5+390134+5+148149+2+286173-4-422928+6+870479+2 4003000J 36411LI20
 8999+5+390155+5+150081+2-152295-4-120396+7+870479+230006000J 36412LI20

FITS
 1 7 3
 -471999
 -471999

-----NOTS-----

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	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C
0	12.713	58.348	1.255	58.418	-0.070	1.282	-0.027	58.421	-0.073	1.284	-0.029	400	20
0	13.682	63.710	3.907	63.698	0.012	3.896	0.011	63.699	0.010	3.898	0.009	500	23
1	14.152	67.718	6.695	67.709	0.010	6.686	0.009	67.710	0.008	6.689	0.006	600	25
2	14.401	70.905	9.553	70.901	0.004	9.548	0.005	70.903	0.002	9.551	0.002	700	27
2	14.547	73.545	12.449	73.543	0.002	12.447	0.002	73.545	-0.000	12.450	-0.001	800	29
2	14.638	75.795	15.368	75.794	0.001	15.368	0.000	75.796	-0.001	15.370	-0.002	900	30
2	14.698	77.753	18.302	77.753	0.000	18.302	-0.000	77.754	-0.001	18.304	-0.002	1000	31
7	14.740	79.487	21.246	79.487	0.000	21.246	-0.000	79.488	-0.001	21.247	-0.001	1100	32
6	14.771	81.042	24.197	81.041	0.001	24.197	-0.000	81.042	0.000	24.197	-0.000	1200	32
1	14.794	82.451	27.154	82.450	0.001	27.154	0.000	82.450	0.001	27.153	0.001	1300	33
4	14.811	83.739	30.114	83.738	0.001	30.114	-0.000	83.738	0.001	30.113	0.001	1400	33
6	14.825	84.925	33.078	84.924	0.001	33.078	-0.000	84.924	0.001	33.077	0.001	1500	33
1	14.836	86.024	36.044	86.023	0.000	36.044	-0.000	86.024	0.000	36.044	0.000	1600	33
6	14.844	87.048	39.012	87.047	0.001	39.013	-0.001	87.048	0.000	39.013	-0.001	1700	33
0	14.844	87.048	39.012	87.047	0.001	39.013	-0.001	87.048	0.000	39.016	-0.004	1800	33
1	14.852	88.006	41.982	88.006	0.000	41.982	-0.000	88.005	0.001	41.983	-0.001	1900	33
9	14.858	88.907	44.953	88.906	0.001	44.953	-0.000	88.906	0.001	44.952	0.001	2000	33
5	14.863	89.756	47.925	89.756	0.000	47.926	-0.001	89.755	0.001	47.923	0.002	2100	33
3	14.867	90.560	50.898	90.559	0.001	50.899	-0.001	90.558	0.002	50.896	0.002	2200	34
4	14.871	91.322	53.872	91.322	-0.000	53.872	-0.000	91.321	0.001	53.870	0.002		
	14.874	92.048	56.846	92.048	0.000	56.847	-0.001	92.047	0.001	56.845	0.001		
	14.876	92.740	59.821	92.740	0.000	59.822	-0.001	92.739	0.001	59.820	0.001		
	14.879	93.401	62.797	93.401	0.000	62.797	0.000	93.400	0.001	62.796	0.001		
	14.881	94.035	65.772	94.034	0.001	65.773	-0.001	94.034	0.001	65.773	-0.001		
	14.883	94.642	68.749	94.642	0.000	68.749	0.000	94.641	0.001	68.749	-0.000		
	14.884	95.226	71.726	95.225	0.001	71.725	0.001	95.225	0.001	71.726	-0.000		
	14.886	95.788	74.703	95.787	0.001	74.702	0.001	95.787	0.001	74.703	-0.000		
	14.887	96.329	77.680	96.328	0.001	77.679	0.001	96.328	0.001	77.680	-0.000		
	14.888	96.851	80.657	96.851	0.000	80.657	-0.000	96.850	0.001	80.657	0.000		
	14.889	97.356	83.635	97.356	0.000	83.636	-0.001	97.355	0.001	83.634	0.001		

LITHIUM NITRIDE (C) LI 3N 1 0 0 0 0 966
MOL. WT.= 34.820 BLCK= 1737 NO. POINT = 21
DATA FROM 298 TO 2200 K HFORM(KCAL/(MOLE)) = -47.200 KEY = 330
FITS FOR NOTS RMS = 0.012508

1 7 3 71 0 0 0 0 0 0 LITHIUM NITRIDE (C) 30J 966 330
+1.5249069E+1+3.3100708E+1-1.9222167E+1+3.6987237E+0 400 2200 31J 966 330
-1.0581207E+0-5.6155639E+1+1.3786724E+1-4.7199996E+1LI3N(C) 32J 966 330

FITS FOR EST RMS LOW = 0.037107 RMS HIGH = 0.037107
1 7 3 71 0 0 0 0 0 0 LITHIUM NITRIDE (C) 30LI3N\$
-471999+5+858354+5+357460+2-465008-3-337060+7+759038+2 4002200J 96631LI3N\$
-471999+5+858354+5+357460+2-465008-3-337060+7+759038+2 4002200J 96632LI3N\$

-----NOTS-----

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T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	20.990	14.785	2.011	14.902	-0.117	2.051	-0.040	15.434	-0.649	2.254	-0.243
500	23.340	19.722	4.228	19.635	0.087	4.180	0.048	19.572	0.150	4.122	0.106
600	25.660	24.184	6.679	24.133	0.051	6.651	0.028	23.983	0.201	6.548	0.131
700	27.840	28.308	9.357	28.311	-0.003	9.364	-0.007	28.205	0.103	9.290	0.067
800	29.640	32.149	12.235	32.171	-0.022	12.257	-0.022	32.125	0.024	12.228	0.007
900	30.960	35.720	15.268	35.738	-0.018	15.286	-0.018	35.736	-0.016	15.295	-0.027
1000	31.900	39.033	18.414	39.038	-0.005	18.419	-0.005	39.061	-0.028	18.450	-0.036
1100	32.540	42.105	21.638	42.100	0.005	21.632	0.006	42.129	-0.024	21.670	-0.032
1200	32.970	44.956	24.914	44.946	0.010	24.903	0.011	44.970	-0.014	24.936	-0.022
1300	33.250	47.606	28.226	47.597	0.009	28.216	0.010	47.612	-0.006	28.236	-0.010
1400	33.450	50.078	31.561	50.074	0.004	31.558	0.003	50.077	0.001	31.563	-0.002
1500	33.600	52.391	34.914	52.392	-0.001	34.918	-0.004	52.386	0.005	34.909	0.005
1600	33.720	54.564	38.281	54.567	-0.003	38.288	-0.007	54.556	0.008	38.271	0.010
1700	33.800	56.611	41.657	56.614	-0.003	41.664	-0.007	56.601	0.010	41.645	0.012
1800	33.840	58.544	45.039	58.545	-0.001	45.043	-0.004	58.535	0.009	45.028	0.011
1900	33.880	60.374	48.425	60.373	0.001	48.423	0.001	60.368	0.006	48.418	0.007
2000	33.920	62.113	51.815	62.109	0.004	51.809	0.006	62.109	0.004	51.814	0.001
2100	33.960	63.769	55.209	63.765	0.004	55.203	0.006	63.767	0.002	55.213	-0.004
2200	34.000	65.350	58.607	65.351	-0.001	58.612	-0.005	65.350	0.000	58.614	-0.007

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MAGNESIUM

(R) MG 1

962

MOL. WT. = 24.310 BLOCK = 1739 NO. POINT = 62
 ATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 0.000 KEY = 331
 ITS FOR NOTS RMS = 5.908095
 12 0 0 0 0 0 0 0 0 0 MAGNESIUM (R) 10J 962 331
 .3739505E+2-1.0045303E+2+2.4652053E+1-1.9435682E+0 400 6000 11J 962 331
 .7493026E+1-9.8522369E+1+1.0390901E+2+0.0000000E+0MG (R) 12J 962 331

ITS FOR EST RMS LOW = 8.203914 RMS HIGH = 0.034802

12 0 0 0 0 0 0 0 0 0 MAGNESIUM (R) 10MG
 00000+0+461138+5+838938+2-317000-1-116468+8+469789+2 4003000J 96211MG
 00000+0+487000+5-328481+1+166565-2+317437+8+469789+230006000J 96212MG

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 DH
 KC/M
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 0.032
 0.022
 0.010
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 0.010
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 0.011
 0.007
 0.001
 -0.004
 -0.007

-----NOTS-----								-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M
00	6.290	9.613	0.625	-5.570	15.183	-7.355	7.980	-3.890	13.503	-6.661	7.286
00	6.802	12.264	1.936	2.046	10.218	-3.300	5.236	3.566	8.698	-2.758	4.694
00	7.420	14.300	3.354	14.111	0.189	5.123	-1.769	14.284	0.016	4.730	-1.376
00	7.880	18.339	7.034	23.881	-5.542	13.871	-6.837	23.389	-5.050	12.891	-5.857
00	8.400	19.821	8.663	31.119	-11.298	21.795	-13.132	30.565	-10.744	20.754	-12.091
00	4.968	43.187	40.760	36.348	6.839	28.564	12.196	36.084	7.103	27.905	12.855
00	4.968	43.850	41.754	40.078	3.772	34.137	7.617	40.250	3.600	34.133	7.621
00	4.968	44.436	42.748	42.710	1.726	38.596	4.152	43.314	1.122	39.325	3.423
00	4.969	44.959	43.741	44.546	0.413	42.073	1.668	45.472	-0.513	43.411	0.330
00	4.970	45.433	44.735	45.809	-0.376	44.718	0.017	46.875	-1.442	46.346	-1.612
00	4.974	45.865	45.729	46.667	-0.802	46.686	-0.957	47.643	-1.778	48.102	-2.373
00	4.983	46.264	46.725	47.245	-0.981	48.126	-1.401	47.868	-1.604	48.658	-1.933
00	4.998	46.633	47.723	47.635	-1.002	49.177	-1.454	47.627	-0.994	47.998	-0.275
00	5.023	46.979	48.725	47.908	-0.929	49.966	-1.241	46.979	0.000	46.114	2.611
00	5.023	46.979	48.725	47.908	-0.929	49.966	-1.241	46.979	0.000	48.700	0.025
00	5.060	47.304	49.733	48.114	-0.810	50.605	-0.872	47.314	-0.010	49.737	-0.004
00	5.114	47.613	50.750	48.292	-0.679	51.190	-0.440	47.625	-0.012	50.763	-0.013
00	5.186	47.907	51.780	48.466	-0.559	51.801	-0.021	47.918	-0.011	51.791	-0.011
00	5.278	48.190	52.826	48.654	-0.464	52.499	0.327	48.199	-0.009	52.830	-0.004
00	5.392	48.463	53.892	48.867	-0.404	53.329	0.563	48.471	-0.008	53.890	0.002
00	5.528	48.729	54.984	49.108	-0.379	54.319	0.665	48.736	-0.007	54.977	0.007
00	5.686	48.990	56.105	49.377	-0.387	55.476	0.629	48.997	-0.007	56.096	0.009
00	5.866	49.247	57.260	49.670	-0.423	56.793	0.467	49.253	-0.006	57.252	0.008
00	6.067	49.501	58.453	49.978	-0.477	58.241	0.212	49.508	-0.007	58.448	0.005
00	6.289	49.753	59.688	50.291	-0.538	59.775	-0.087	49.761	-0.008	59.688	-0.000
00	6.530	50.004	60.970	50.596	-0.592	61.331	-0.361	50.013	-0.009	60.974	-0.004
00	6.790	50.255	62.301	50.878	-0.623	62.825	-0.524	50.265	-0.010	62.309	-0.008
00	7.069	50.507	63.687	51.121	-0.614	64.158	-0.471	50.517	-0.010	63.694	-0.007
00	7.367	50.760	65.130	51.305	-0.545	65.209	-0.079	50.769	-0.009	65.132	-0.002
00	7.684	51.015	66.635	51.413	-0.398	65.840	0.795	51.022	-0.007	66.622	0.012

962

(C) 30 MGS

[illegible]

MAGNESIUM (L) MG 1
 MOL. WT.= 24.310 BLOCK= 1748 NO. POINT = 24
 DATA FROM 298 TO 2500 K HFORM(KCAL/(MOLE)) = 2.158 KEY = 333
 FITS FOR NOTS RMS = 0.000520
 12 0 0 0 0 0 0 0 0 0 MAGNESIUM (L) 20J 962 333
 .1970596E+0+2.7716999E+0-1.0998255E-1+2.2273182E-2 400 2500 21J 962 333
 .0670166E-3+4.7718334E-1+1.5612859E+1+2.1579999E+0 MG (L) 22J 962 333

FITS FOR EST RMS LOW = 0.000342 RMS HIGH = 0.000342
 12 0 0 0 0 0 0 0 0 0 MAGNESIUM (L) 20MG*
 15799+4+258327+5+529428+1+259456-2-125120+5+293382+2 4002500J 96221MG*
 15799+4+258327+5+529428+1+259456-2-125120+5+293382+2 4002500J 96222MG*

-----NOTS-----													-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T				
K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M	K				
400	6.290	11.958	0.625	11.961	-0.003	0.625	-0.000	11.963	-0.005	0.627	-0.002	400				
500	6.560	13.392	1.267	13.390	0.002	1.266	0.001	13.390	0.002	1.267	0.000	500				
600	6.802	14.609	1.936	14.607	0.002	1.934	0.002	14.607	0.002	1.935	0.001	600				
700	7.080	15.679	2.630	15.678	0.001	2.629	0.001	15.678	0.001	2.630	0.000	700				
800	7.350	16.642	3.351	16.642	0.000	3.351	-0.000	16.641	0.001	3.351	-0.000	800				
900	7.610	17.523	4.099	17.523	0.000	4.099	-0.000	17.522	0.001	4.100	-0.001	900				
1000	7.880	18.338	4.874	18.339	-0.001	4.874	-0.000	18.338	-0.000	4.874	-0.000	1000				
1100	8.140	19.102	5.675	19.102	0.000	5.675	0.000	19.101	0.001	5.675	0.000	1100				
1200	8.400	19.821	6.502	19.821	-0.000	6.502	-0.000	19.821	0.000	6.502	0.000	1200				
1300	8.660	20.504	7.355	20.504	0.000	7.355	-0.000	20.503	0.001	7.355	0.000	1300				
1400	8.920	21.155	8.234	21.155	-0.000	8.234	-0.000	21.154	0.001	8.234	0.000	1400				
1500	9.180	21.779	9.139	21.780	-0.001	9.139	-0.000	21.779	0.000	9.139	0.000	1500				
1600	9.440	22.380	10.070	22.380	-0.000	10.070	-0.000	22.380	0.000	10.070	0.000	1600				
1700	9.700	22.960	11.027	22.961	-0.001	11.027	-0.000	22.960	0.000	11.027	0.000	1700				
1800	9.960	23.522	12.010	23.522	-0.000	12.010	-0.000	23.521	0.001	12.010	0.000	1800				
1900	10.220	24.067	13.019	24.068	-0.001	13.019	-0.000	24.067	-0.000	13.019	-0.000	1900				
2000	10.480	24.598	14.054	24.598	-0.000	14.054	-0.000	24.598	0.000	14.054	-0.000	2000				
2100	10.740	25.116	15.115	25.116	0.000	15.115	0.000	25.115	0.001	15.115	-0.000	2100				
2200	11.000	25.622	16.202	25.621	0.001	16.202	0.000	25.621	0.001	16.202	-0.000	2200				
2300	11.260	26.116	17.315	26.116	-0.000	17.315	0.000	26.116	0.000	17.315	-0.000	2300				
2400	11.520	26.601	18.454	26.601	0.000	18.454	0.000	26.600	0.001	18.454	0.000	2400				
2500	11.780	27.076	19.619	27.077	-0.001	19.619	-0.000	27.076	0.000	19.619	0.000	2500				

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MAGNESIUM, MONATOMIC

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962

MOL. WT.= 24.310

BLOCK= 1750

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 35.281 KEY = 334

FITS FOR NOTS RMS = 0.018127

1 12 0 0 0 0 0 0 0 0 0 MAGNESIUM, MONATOMIC (G) 10J 962 334
 +5.5615081E+0-3.4574329E-1-4.2176842E-3+2.0439445E-2 400 6000 11J 962 334
 -2.1606445E-1+3.3136993E+1+4.1725296E+1+3.5280990E+1MG (G) 12J 962 334

FITS FOR EST RMS LOW = 0.002710 RMS HIGH = 0.034737

1 12 0 0 0 0 0 0 0 0 0 MAGNESIUM, MONATOMIC (G) 10MG
 +352809+5+134363+5+491669+1+249815-4+209110+5+469799+2 4003000J 96211MG
 +352809+5+134140+5-328583+1+166581-2+317492+8+469799+230006000J 96212MG

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
2	400	4.968	36.964	0.506	37.166	-0.202	0.593	-0.087	36.944	0.020	0.497	0.009
10	600	4.968	38.978	1.500	38.978	0.000	1.491	0.009	38.979	-0.001	1.501	-0.001
11	800	4.968	40.407	2.493	40.379	0.028	2.466	0.027	40.411	-0.004	2.496	-0.003
10	1000	4.968	41.516	3.487	41.492	0.024	3.464	0.023	41.519	-0.003	3.489	-0.002
10	1200	4.968	42.422	4.481	42.408	0.014	4.469	0.012	42.424	-0.002	4.481	-0.000
11	1400	4.968	43.188	5.474	43.182	0.006	5.473	0.001	43.189	-0.001	5.474	0.000
10	1600	4.968	43.851	6.468	43.851	0.000	6.475	-0.007	43.851	-0.000	6.466	0.002
10	1800	4.968	44.436	7.461	44.438	-0.002	7.472	-0.011	44.436	-0.000	7.460	0.001
10	2000	4.969	44.960	8.455	44.962	-0.002	8.466	-0.011	44.960	0.000	8.454	0.001
10	2200	4.970	45.433	9.449	45.434	-0.001	9.458	-0.009	45.434	-0.001	9.449	0.000
10	2400	4.974	45.866	10.443	45.865	0.001	10.448	-0.005	45.867	-0.001	10.444	-0.001
10	2600	4.983	46.264	11.439	46.262	0.002	11.439	-0.000	46.266	-0.002	11.441	-0.002
10	2800	4.998	46.634	12.437	46.630	0.004	12.433	0.004	46.636	-0.002	12.438	-0.001
10	3000	5.023	46.980	13.439	46.975	0.005	13.433	0.006	46.980	0.000	13.436	0.003
10	3000	5.023	46.980	13.439	46.975	0.005	13.433	0.006	46.980	0.000	13.414	0.025
10	3200	5.060	47.305	14.447	47.300	0.005	14.440	0.007	47.315	-0.010	14.451	-0.004
10	3400	5.114	47.613	15.464	47.609	0.004	15.458	0.006	47.626	-0.013	15.477	-0.013
10	3600	5.186	47.908	16.494	47.903	0.005	16.490	0.004	47.919	-0.011	16.505	-0.011
10	3800	5.278	48.190	17.540	48.187	0.003	17.539	0.001	48.200	-0.010	17.544	-0.004
10	4000	5.392	48.464	18.606	48.461	0.003	18.608	-0.002	48.472	-0.008	18.604	0.002
10	4200	5.528	48.730	19.698	48.728	0.002	19.702	-0.004	48.737	-0.007	19.691	0.007
10	4400	5.686	48.991	20.819	48.989	0.002	20.824	-0.005	48.998	-0.007	20.810	0.009
	4600	5.866	49.248	21.974	49.246	0.002	21.979	-0.005	49.254	-0.006	21.966	0.008
	4800	6.067	49.501	23.167	49.499	0.002	23.170	-0.003	49.509	-0.008	23.162	0.005
	5000	6.289	49.754	24.402	49.751	0.003	24.403	-0.001	49.762	-0.008	24.402	-0.000
	5200	6.530	50.005	25.684	50.001	0.004	25.681	0.003	50.014	-0.009	25.688	-0.004
	5400	6.790	50.256	27.015	50.252	0.004	27.011	0.004	50.266	-0.010	27.023	-0.008
	5600	7.069	50.508	28.401	50.504	0.004	28.396	0.005	50.518	-0.010	28.408	-0.007
	5800	7.367	50.761	29.844	50.758	0.003	29.843	0.001	50.770	-0.009	29.846	-0.002
	6000	7.684	51.016	31.349	51.014	0.002	31.356	-0.007	51.023	-0.007	31.337	0.012

FITS FOR EST										RMS LOW =	0.010899	RMS HIGH =	0.010899	PIT
1	8	1	12	0	0	0	0	0	0	0	MAGNESIUM OXIDE	(C) 30MGO\$	1	8
-143699+6+341308+5+117021+2+750420-3-246032+6+339019+2 4004000J126531MGO\$													+1000	
-143699+6+341308+5+117021+2+750420-3-246032+6+339019+2 4004000J126532MGO\$													+1000	

[illegible]

MAGNESIUM OXIDE

(G) MG 10 1

1265

MA

MOL. WT. = 40.310

BLOCK = 1761

NO. POINT = 62

M

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 1.000 KEY = 336

DAT

FITS FOR NOTS RMS = 0.002044

FIT

1 8 1 12 0 0 0 0 0 0 0 MAGNESIUM OXIDE (G) 10J1265 336
 +8.8747091E+0+1.5629804E-1-9.9505521E-3+7.8006787E-4 400 6000 11J1265 336
 -2.0993041E-1-2.2886199E+0+6.2602035E+1+1.0000000E+0MGO(G) 12J1265 336

8

.58

.71

FITS FOR EST RMS LOW = 0.001873 RMS HIGH = 0.003124

FIT

1 8 1 12 0 0 0 0 0 0 0 MAGNESIUM OXIDE (G) 10MGO
 +100000+4+240352+5+889708+1+127498-3-212784+6+727949+2 4003000J126511MGO
 +100000+4+240374+5+901057+1+103271-3-721568+6+727949+230006000J126512MGO

8

1701

1701

-----NOTS-----

-----EST-----

H	T	CP	S	R	SC	DS	HC	DH	SC	DS	HC	DH	T
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
.057	400	7.897	55.151	0.785	55.188	-0.037	0.798	-0.013	55.190	-0.039	0.800	-0.015	400
.006	600	8.396	58.459	2.420	58.452	0.007	2.414	0.006	58.453	0.006	2.415	0.005	500
.018	800	8.654	60.913	4.127	60.908	0.005	4.122	0.005	60.909	0.004	4.124	0.003	600
.022	1000	8.802	62.861	5.874	62.859	0.002	5.871	0.003	62.860	0.001	5.873	0.001	700
.010	1200	8.897	64.475	7.645	64.474	0.001	7.643	0.002	64.475	-0.000	7.645	0.000	800
.000	1400	8.966	65.852	9.431	65.851	0.001	9.431	0.000	65.853	-0.001	9.432	-0.001	900
.006	1600	9.019	67.053	11.230	67.053	0.000	11.230	0.000	67.053	-0.000	11.231	-0.001	1000
.006	1800	9.063	68.118	13.038	68.118	0.000	13.038	-0.000	68.118	-0.000	13.039	-0.001	1100
.006	2000	9.101	69.075	14.855	69.075	0.000	14.855	0.000	69.075	0.000	14.855	0.000	1200
.005	2200	9.135	69.944	16.679	69.944	0.000	16.679	0.000	69.944	0.000	16.678	0.001	1300
.003	2400	9.167	70.740	18.509	70.740	0.000	18.509	0.000	70.740	0.000	18.508	0.001	1400
.001	2600	9.196	71.475	20.345	71.475	0.000	20.345	-0.000	71.475	0.000	20.345	0.000	1500
.001	2800	9.224	72.157	22.187	72.157	-0.000	22.187	-0.000	72.157	-0.000	22.187	0.000	1600
.003	3000	9.251	72.795	24.035	72.795	0.000	24.035	-0.000	72.795	0.000	24.035	-0.000	1700
.003	3000	9.251	72.795	24.035	72.795	0.000	24.035	-0.000	72.795	0.000	24.037	-0.002	1800
.003	3200	9.278	73.393	25.888	73.393	0.000	25.888	-0.000	73.392	0.001	25.889	-0.001	1900
.001	3400	9.303	73.956	27.746	73.956	0.000	27.746	-0.000	73.955	0.001	27.746	0.000	2000
.001	3600	9.329	74.488	29.609	74.488	-0.000	29.609	-0.000	74.488	0.000	29.608	0.001	2100
.004	3800	9.353	74.993	31.477	74.993	-0.000	31.478	-0.001	74.992	0.001	31.476	0.001	2200
	4000	9.378	75.474	33.350	75.474	0.000	33.351	-0.001	75.473	0.001	33.349	0.001	300
	4200	9.402	75.932	35.228	75.932	0.000	35.229	-0.001	75.931	0.001	35.228	0.000	400
	4400	9.426	76.370	37.111	76.370	0.000	37.111	-0.000	76.369	0.001	37.111	0.000	500
	4600	9.450	76.789	38.999	76.789	-0.000	38.999	0.000	76.789	0.000	38.999	0.000	
	4800	9.474	77.192	40.891	77.192	0.000	40.891	0.000	77.191	0.001	40.891	-0.000	
	5000	9.497	77.579	42.788	77.579	-0.000	42.788	0.000	77.579	0.000	42.789	-0.001	
	5200	9.521	77.952	44.690	77.952	-0.000	44.690	0.000	77.952	0.000	44.690	-0.000	
	5400	9.544	78.312	46.596	78.312	0.000	46.596	-0.000	78.311	0.001	46.597	-0.001	
	5600	9.567	78.660	48.508	78.659	0.001	48.507	0.001	78.659	0.001	48.508	0.000	
	5800	9.591	78.996	50.423	78.995	0.001	50.423	-0.000	78.995	0.001	50.423	-0.000	
	6000	9.614	79.321	52.344	79.321	-0.000	52.344	-0.000	79.320	0.001	52.343	0.001	

MAGNESIUM METASILICATE

(C)

MG 10 3SI 1 0 0 0

1267

MOL. WT. =

100.390

BLOCK = 1767

NO. POINT = 27

KEY = 337

DATA FROM

0 TO 2500 K

HFORM(KCAL/(HOLE) = -370.200

KEY = 337

FITS FOR NOTS

RMS =

0.075757

1 8 1 12 1 14 0 0 0 0 0 0

MAGNESIUM METASILICATE

(C)

30J1267 337

31J1267 337

32J1267 337

2.5842468E+1+1.3058776E+1-9.8181495E+0+2.1066856E+0

400 2500

(C)

30J1267 337

31J1267 337

32J1267 337

1.7154541E+0-3.8338623E+2+3.6600891E+1-3.7019995E+2MG03SI(C)

(C)

30J1267 337

31J1267 337

32J1267 337

FITS FOR EST

RMS LOW =

0.099966

RMS HIGH =

0.099966

1 8 1 12 1 14 0 0 0 0 0 0

MAGNESIUM METASILICATE

(C)

30MG03SI\$

31MG03SI\$

32MG03SI\$

-370199+6+765560+5+325463+2-136390-2-192833+7+785587+2

4002500J126731MG03SI\$

4002500J126732MG03SI\$

4002500J126732MG03SI\$

4002500J126732MG03SI\$

4002500J126732MG03SI\$

-370199+6+765560+5+325463+2-136390-2-192833+7+785587+2

4002500J126731MG03SI\$

4002500J126732MG03SI\$

4002500J126732MG03SI\$

4002500J126732MG03SI\$

4002500J126732MG03SI\$

NOTS

EST

NOTS

EST

NOTS

EST

T	K	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H
400	22.513	22.404	2.158	22.765	-0.361	2.288	-0.130	22.446	-0.042	2.142	0.016	2.142
500	24.262	27.627	4.502	27.509	0.118	4.422	0.080	27.403	0.224	4.371	0.131	4.371
600	25.573	32.170	6.996	32.002	0.168	6.890	0.106	32.022	0.148	6.908	0.088	6.908
700	26.678	36.197	9.610	36.111	0.086	9.557	0.053	36.192	0.005	9.615	-0.005	9.615
800	27.672	39.825	12.328	39.839	-0.014	12.351	-0.023	39.940	-0.115	12.423	-0.095	12.423
900	28.603	43.139	15.142	43.226	-0.087	15.227	-0.085	43.321	-0.182	15.294	-0.152	15.294
1000	28.762	46.346	18.178	46.311	0.035	18.155	0.023	46.388	-0.042	18.204	-0.026	18.204
1100	28.762	49.087	21.054	49.132	-0.045	21.116	-0.062	49.186	-0.099	21.141	-0.087	21.141
1200	28.762	51.590	23.931	51.723	-0.133	24.093	-0.162	51.754	-0.164	24.092	-0.161	24.092
1300	29.262	54.218	27.218	54.111	0.107	27.077	0.141	54.124	0.094	27.053	0.165	27.053
1400	29.262	56.387	30.144	56.321	0.066	30.059	0.085	56.321	0.066	30.017	0.127	30.017
1500	29.262	58.406	33.070	58.373	0.033	33.033	0.037	58.367	0.039	32.982	0.088	32.982
1600	29.262	60.294	35.996	60.285	0.009	35.996	0.000	60.279	0.015	35.945	0.051	35.945
1700	29.262	62.068	38.923	62.073	-0.005	38.945	-0.022	62.073	-0.005	38.904	0.019	38.904
1800	29.262	63.741	41.849	63.751	-0.010	41.881	-0.032	63.760	-0.019	41.857	-0.008	41.857
1900	29.262	65.323	44.775	65.332	-0.009	44.804	-0.029	65.353	-0.030	44.803	-0.028	44.803
2000	29.262	66.824	47.701	66.827	-0.003	47.719	-0.018	66.860	-0.036	47.741	-0.040	47.741
2100	29.262	68.252	50.627	68.247	0.005	50.628	-0.001	68.289	-0.037	50.670	-0.043	50.670
2200	29.262	69.613	53.554	69.600	0.012	53.539	0.015	69.648	-0.035	53.590	-0.036	53.590
2300	29.262	70.914	56.480	70.898	0.016	56.457	0.023	70.941	-0.027	56.499	-0.019	56.499
2400	29.262	72.159	59.406	72.146	0.013	59.391	0.015	72.175	-0.016	59.398	0.008	59.398
500	29.262	73.354	62.332	73.355	-0.001	62.352	-0.020	73.354	0.000	62.287	0.045	62.287

T	K	C
400	22	400
500	25	600
600	27	800
700	35	1000
800	35	1200
900	35	1400
1000	35	1600
1100	35	1800
1200	35	2000
1300	35	2200
1400	35	2400
1500	35	2600
1600	35	2800
1700	35	3000

FITS

3 8 1

-357280

-357280

MAGN

MOL

DATA

FITS

3 8 1

+3.5512

-4.2091

MAGNESIUM METASILICATE (L) MG 10 3SI 1 0 0 0 1267

MOL. WT.= 100.390 BLOCK= 1770 NO. POINT = 29

DATA FROM 298 TO 3000 K HFORM(KCAL/(MOLE)) = -357.281 KEY = 338

FITS FOR NOTS RMS = 0.113958

3 8 1 12 1 14 0 0 0 0 0 MAGNESIUM METASILICATE (L) 20J1267 338
+3.5512741E+1+5.3767509E+0-4.0929994E+0+7.7958106E-1 400 3000 21J1267 338
-4.2091064E+0-3.7970336E+2+4.7204925E+1-3.5728076E+2MGO3SI (L) 22J1267 338

FITS FOR EST RMS LOW = 0.138286 RMS HIGH = 0.138286

3 8 1 12 1 14 0 0 0 0 0 MAGNESIUM METASILICATE (L) 20MGO3SI*
-357280+6+885935+5+384840+2-113201-2-410790+7+911929+2 4003000J126721MGO3SI*
-357280+6+885935+5+384840+2-113201-2-410790+7+911929+2 4003000J126722MGO3SI*

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
16	400	22.513	28.319	2.158	29.658	-1.339	2.653	-0.495	29.204	-0.885	2.439	-0.281
131	600	25.573	38.085	6.996	37.456	0.629	6.599	0.397	37.449	0.636	6.599	0.396
88	800	27.672	45.740	12.328	45.694	0.046	12.351	-0.023	45.798	-0.058	12.426	-0.098
05	1000	35.000	52.741	18.642	52.900	-0.159	18.818	-0.176	53.004	-0.263	18.892	-0.250
95	1200	35.000	59.123	25.642	59.095	0.028	25.618	0.024	59.166	-0.043	25.655	-0.013
152	1400	35.000	64.518	32.642	64.457	0.061	32.576	0.066	64.494	0.024	32.569	0.073
26	1600	35.000	69.192	39.642	69.146	0.046	39.600	0.042	69.161	0.031	39.559	0.083
87	1800	35.000	73.314	46.642	73.291	0.023	46.638	0.004	73.299	0.015	46.586	0.056
161	2000	35.000	77.002	53.642	76.993	0.009	53.665	-0.023	77.006	-0.004	53.624	0.018
165	2200	35.000	80.337	60.642	80.331	0.006	60.668	-0.026	80.359	-0.022	60.659	-0.017
127	2400	35.000	83.383	67.642	83.369	0.014	67.652	-0.010	83.413	-0.030	67.679	-0.037
88	2600	35.000	86.184	74.642	86.162	0.022	74.630	0.012	86.214	-0.030	74.678	-0.036
51	2800	35.000	88.778	81.642	88.753	0.025	81.623	0.019	88.798	-0.020	81.651	-0.009
19	3000	35.000	91.193	88.642	91.181	0.012	88.664	-0.022	91.193	0.000	88.594	0.048

MAG
MO
DATA
FITS
8
1.215
1.031

FITS
8
10157
10157

T
K
400 2
500 2
600 3
700 3
800 3
900 3
1000 3
1100 3
1200 3
1300 3
1400 4
1500 4
1600 4
1700 4
1800 4
1900 4
2000 4
2100 4
2200 4
2300 4
2400 4
2500 4

MAGNESIUM SULFATE (C) MG 10 4S 1 0 0 0 366
 MOL. WT. = 120.370 BLOCK = 1773 NO. POINT = 27
 DATA FROM 0 TO 2500 K HFORM (KCAL/(MOLE)) = -301.574 KEY = 339
 FITS FOR NOTS RMS = 0.006633
 8 1 12 1 16 0 0 0 0 0 MAGNESIUM SULFATE (C) 30J 366 339
 1.2159896E+1+3.6620941E+1-1.5116904E+1+2.2783164E+0 400 2500 31J 366 339
 1.0315246E-1-3.0555126E+2+2.7952499E+1-3.0157397E+2MGO4S (C) 32J 366 339

FITS FOR EST RMS LOW = 0.105066 RMS HIGH = 0.105066
 4 8 1 12 1 16 0 0 0 0 0 MAGNESIUM SULFATE (C) 30MGO4SS
 301573+6+107424+6+367890+2+362666-2-340184+7+103675+3 4002500J 36631MGO4SS
 301573+6+107424+6+367890+2+362666-2-340184+7+103675+3 4002500J 36632MGO4SS

MAGN
 MOI
 DATA
 FITS
 4 8
 +2.274
 -1.557
 FITS
 4 8
 -29786
 -29786

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DB	SC	DS	HC	DB
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	26.290	29.085	2.518	29.038	0.047	2.501	0.017	30.562	-1.477	3.114	-0.596
500	28.540	35.199	5.262	35.233	-0.034	5.280	-0.018	35.306	-0.107	5.255	0.007
600	30.500	40.581	8.217	40.597	-0.016	8.224	-0.007	40.298	0.283	7.999	0.218
700	32.100	45.404	11.348	45.395	0.009	11.339	0.009	45.078	0.326	11.104	0.244
800	33.580	49.788	14.633	49.772	0.016	14.619	0.014	49.539	0.249	14.447	0.186
900	34.950	53.823	18.060	53.813	0.010	18.050	0.010	53.677	0.146	17.962	0.098
1000	36.250	57.574	21.621	57.573	0.001	21.621	0.000	57.517	0.057	21.607	0.014
1100	37.450	61.086	25.306	61.093	-0.007	25.315	-0.009	61.091	-0.005	25.358	-0.052
1200	38.580	64.394	29.109	64.403	-0.009	29.119	-0.010	64.430	-0.036	29.196	-0.087
1300	39.520	67.520	33.016	67.525	-0.005	33.021	-0.005	67.563	-0.043	33.110	-0.094
1400	40.301	70.478	37.008	70.480	-0.002	37.008	-0.000	70.513	-0.035	37.092	-0.084
1500	40.963	73.282	41.072	73.281	0.001	41.069	0.003	73.302	-0.020	41.135	-0.063
1600	41.536	75.944	45.197	75.943	0.001	45.195	0.002	75.948	-0.004	45.234	-0.037
1700	42.040	78.478	49.376	78.478	0.000	49.375	0.001	78.465	0.013	49.386	-0.010
1800	42.490	80.894	53.603	80.895	-0.001	53.604	-0.001	80.867	0.027	53.589	0.014
1900	42.896	83.202	57.873	83.204	-0.002	57.876	-0.003	83.165	0.037	57.839	0.034
2000	43.268	85.412	62.181	85.414	-0.002	62.184	-0.003	85.368	0.044	62.135	0.046
2100	43.611	87.531	66.525	87.533	-0.002	66.527	-0.002	87.487	0.044	66.477	0.048
2200	43.931	89.567	70.903	89.568	-0.001	70.902	0.001	89.526	0.041	70.862	0.041
2300	44.232	91.527	75.311	91.526	0.001	75.308	0.003	91.494	0.033	75.289	0.021
2400	44.517	93.415	79.748	93.415	-0.000	79.745	0.003	93.397	0.018	79.759	-0.011
2500	44.788	95.238	84.214	95.241	-0.003	84.217	-0.003	95.238	0.000	84.270	-0.056

T
 K
 400 2
 500 2
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 700 3
 800 3
 900 3
 1000 3
 1100 3
 1200 3
 1300 3
 1400 3
 1500 3
 1600 3
 1700 3
 1800 3
 1900 3
 2000 3
 2100 3
 2200 3
 2300 3
 2400 3
 2500 3

M
 81
 96
 98
 50
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 73
 83
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 48

MAGNESIUM SULFATE

(L) MG 10 4S 1 0 0 0

366

MOL. WT.= 120.370 BLOCK= 1776 NO. POINT = 24

DATA FROM 298 TO 2500 K HFORM(KCAL/(MOLE)) = -297.864 KEY = 340

FITS FOR NOTS RMS = 0.053485

4 8 1 12 1 16 0 0 0 0 0 MAGNESIUM SULFATE (L) 20J 366 340
+2.2742919E+1+2.9788284E+1-1.7655288E+1+3.3212146E+0 400 2500 21J 366 340
-1.5579376E+0-3.1021679E+2+3.7509552E+1-2.9786376E+2MGO4S(L) 22J 366 340

FITS FOR EST RMS LOW = 0.072789 RMS HIGH = 0.072789

4 8 1 12 1 16 0 0 0 0 0 MAGNESIUM SULFATE (L) 20MGO4S*
-297863+6+973912+5+417184+2-136635-2-362040+7+101901+3 4002500J 36621MGO4S*
-297863+6+973912+5+417184+2-136635-2-362040+7+101901+3 4002500J 36622MGO4S*

-----NOTS-----

-----EST-----

DB	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.596	400	26.290	31.705	2.518	32.113	-0.408	2.667	-0.149	32.508	-0.803	2.807	-0.289
0.007	500	28.540	37.818	5.262	37.687	0.131	5.174	0.088	37.608	0.210	5.107	0.155
0.218	600	30.500	43.201	8.217	42.990	0.211	8.088	0.129	42.865	0.336	7.997	0.220
0.244	700	32.100	48.024	11.348	47.893	0.131	11.272	0.076	47.825	0.199	11.218	0.130
0.186	800	33.580	52.408	14.633	52.399	0.009	14.648	-0.015	52.393	0.015	14.641	-0.008
0.098	900	34.950	56.427	18.046	56.541	-0.114	18.165	-0.119	56.577	-0.150	18.194	-0.148
0.014	1000	38.000	60.248	21.676	60.356	-0.108	21.787	-0.111	60.411	-0.163	21.833	-0.157
-0.052	1100	38.000	63.870	25.476	63.880	-0.010	25.485	-0.009	63.936	-0.066	25.533	-0.057
-0.087	1200	38.000	67.176	29.276	67.144	0.032	29.237	0.039	67.191	-0.015	29.273	0.003
-0.094	1300	38.000	70.218	33.076	70.176	0.042	33.024	0.052	70.207	0.011	33.042	0.034
-0.084	1400	38.000	73.034	36.876	72.999	0.035	36.833	0.043	73.015	0.019	36.831	0.045
-0.063	1500	38.000	75.656	40.676	75.634	0.022	40.653	0.023	75.637	0.019	40.632	0.044
-0.037	1600	38.000	78.108	44.476	78.100	0.008	44.474	0.002	78.096	0.012	44.441	0.035
-0.010	1700	38.000	80.412	48.276	80.414	-0.002	48.292	-0.016	80.408	0.004	48.254	0.022
0.014	1800	38.000	82.584	52.076	82.592	-0.008	52.101	-0.025	82.588	-0.004	52.069	0.007
0.034	1900	38.000	84.639	55.876	84.646	-0.007	55.901	-0.025	84.649	-0.010	55.882	-0.006
0.046	2000	38.000	86.588	59.676	86.591	-0.003	59.692	-0.016	86.604	-0.016	59.692	-0.016
0.048	2100	38.000	88.442	63.476	88.438	0.004	63.478	-0.002	88.461	-0.019	63.498	-0.022
0.041	2200	38.000	90.210	67.276	90.199	0.011	67.263	0.013	90.228	-0.018	67.297	-0.021
0.021	2300	38.000	91.899	71.076	91.884	0.015	71.054	0.022	91.914	-0.015	71.090	-0.014
-0.011	2400	38.000	93.516	74.876	93.504	0.012	74.861	0.015	93.525	-0.009	74.875	0.001
-0.056	2500	38.000	95.067	78.676	95.069	-0.002	78.695	-0.019	95.067	0.000	78.652	0.024

MAGNESIUM SULFIDE (C) MG 1S 1 1260
 MOL. WT.= 56.370 BLCK= 1778 NO. POINT = 29
 DATA FROM 298 TO 3000 K HFORM(KCAL/(MOLE)) = -83.000 KEY = 341
 FITS FOR NOTS RMS = 0.000726
 1 12 1 16 0 0 0 0 0 0 0 MAGNESIUM SULFIDE (C) 30J1260 341
 .2161273E+0+2.5589447E+0-3.3137921E-2+5.8776959E-3 400 3000 31J1260 341
 .4637451E-3-8.5856307E+1+2.1393859E+1-8.3000000E+1MGS(C) 32J1260 341

MAGN
 MOL
 DATA
 FITS
 1 12 1
 -3.5411
 +3.2685

FITS FOR EST RMS LOW = 0.000505 RMS HIGH = 0.000505
 1 12 1 16 0 0 0 0 0 0 0 MAGNESIUM SULFIDE (C) 30MGS\$
 +30000+5+361267+5+925185+1+249938-2-152000+4+390989+2 4003000J126031MGS\$
 +30000+5+361267+5+925185+1+249938-2-152000+4+390989+2 4003000J126032MGS\$

FITS
 1 12 1
 +620000
 +620000

-----NOTS-----													-----EST-----												
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	T	CP	S	H	SC	DS	HC	DH	T	T	CP	S	H
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	K	C/M-K	C/M-K	KC/M
400	10.250	13.961	1.027	13.959	0.002	1.026	0.001	13.964	-0.003	1.028	-0.001	400	400	10.250	13.961	1.027	13.959	0.002	1.026	0.001	400	400	10.250	13.961	1.027
600	10.750	18.212	3.127	18.211	0.001	3.126	0.001	18.212	-0.000	3.127	0.000	600	600	10.750	18.212	3.127	18.211	0.001	3.126	0.001	600	600	10.750	18.212	3.127
800	11.250	21.373	5.327	21.372	0.001	5.326	0.001	21.373	0.000	5.327	0.000	800	800	11.250	21.373	5.327	21.372	0.001	5.326	0.001	800	800	11.250	21.373	5.327
1000	11.750	23.937	7.627	23.936	0.001	7.626	0.001	23.937	0.000	7.627	0.000	1000	1000	11.750	23.937	7.627	23.936	0.001	7.626	0.001	1000	1000	11.750	23.937	7.627
1200	12.250	26.123	10.027	26.123	-0.000	10.027	0.000	26.123	-0.000	10.027	0.000	1200	1200	12.250	26.123	10.027	26.123	-0.000	10.027	0.000	1200	1200	12.250	26.123	10.027
1400	12.750	28.049	12.527	28.049	-0.000	12.527	0.000	28.049	-0.000	12.527	0.000	1400	1400	12.750	28.049	12.527	28.049	-0.000	12.527	0.000	1400	1400	12.750	28.049	12.527
1600	13.250	29.784	15.127	29.785	-0.001	15.127	-0.000	29.784	-0.000	15.127	0.000	1600	1600	13.250	29.784	15.127	29.785	-0.001	15.127	-0.000	1600	1600	13.250	29.784	15.127
1800	13.750	31.374	17.827	31.374	-0.000	17.827	-0.000	31.374	0.000	17.827	0.000	1800	1800	13.750	31.374	17.827	31.374	-0.000	17.827	-0.000	1800	1800	13.750	31.374	17.827
2000	14.250	32.848	20.627	32.849	-0.001	20.627	-0.000	32.848	-0.000	20.627	0.000	2000	2000	14.250	32.848	20.627	32.849	-0.001	20.627	-0.000	2000	2000	14.250	32.848	20.627
2200	14.750	34.230	23.527	34.230	-0.000	23.527	0.000	34.230	-0.000	23.527	0.000	2200	2200	14.750	34.230	23.527	34.230	-0.000	23.527	0.000	2200	2200	14.750	34.230	23.527
2400	15.250	35.535	26.527	35.535	-0.000	26.527	0.000	35.535	0.000	26.527	0.000	2400	2400	15.250	35.535	26.527	35.535	-0.000	26.527	0.000	2400	2400	15.250	35.535	26.527
2600	15.750	36.775	29.627	36.775	-0.000	29.626	0.001	36.775	-0.000	29.627	0.000	2600	2600	15.750	36.775	29.627	36.775	-0.000	29.626	0.001	2600	2600	15.750	36.775	29.627
2800	16.250	37.961	32.827	37.961	0.000	32.826	0.001	37.961	0.000	32.827	0.000	2800	2800	16.250	37.961	32.827	37.961	0.000	32.826	0.001	2800	2800	16.250	37.961	32.827
3000	16.750	39.099	36.127	39.099	-0.000	36.127	0.000	39.099	0.000	36.127	0.000	3000	3000	16.750	39.099	36.127	39.099	-0.000	36.127	0.000	3000	3000	16.750	39.099	36.127

3000 12.
 3000 12.
 3200 13.
 3400 13.
 3600 13.
 3800 13.
 4000 13.
 4200 13.
 4400 13.
 4600 13.
 4800 13.
 5000 12.
 5200 12.
 5400 12.
 5600 12.
 5800 12.
 6000 12.

MAGNESIUM SULFIDE

(G)

MG 1S 1 0 0 0 0

671

MOL. WT. = 56.370

BLOCK = 1781

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 62.000 KEY = 342

FITS FOR NOTS RMS = 0.130454

1 12 1 16 0 0 0 0 0 0 0 MAGNESIUM SULFIDE (G) 10J 671 342
 -3.5411996E+0+1.0278341E+1-2.0175514E+0+1.2303549E-1 400 6000 11J 671 342
 +3.2685852E+0+7.0636825E+1+5.6898406E+1+6.2000000E+1MGS(G) 12J 671 342

FITS FOR EST RMS LOW = 0.040982 RMS HIGH = 0.039279

1 12 1 16 0 0 0 0 0 0 0 MAGNESIUM SULFIDE (G) 10MGS
 +620000+5+274606+5+517825+1+258234-2+918544+6+756399+2 4003000J 67111MGS
 +620000+5+274350+5+195732+2-110089-2-289975+8+756399+230006000J 67112MGS

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.001	400	8.487	56.308	0.850	53.881	2.427	-0.171	1.021	55.673	0.635	0.593	0.257
0.000	600	8.765	59.811	2.580	59.980	-0.169	2.773	-0.193	59.884	-0.073	2.652	-0.072
0.000	800	8.890	62.351	4.347	62.733	-0.382	4.675	-0.328	62.448	-0.097	4.432	-0.085
0.000	1000	8.977	64.344	6.134	64.575	-0.231	6.324	-0.190	64.378	-0.034	6.162	-0.028
0.000	1200	9.088	65.990	7.939	66.070	-0.080	7.966	-0.027	65.979	0.011	7.919	0.020
0.000	1400	9.279	67.404	9.774	67.398	0.006	9.690	0.084	67.378	0.026	9.736	0.038
0.000	1600	9.582	68.661	11.658	68.626	0.035	11.531	0.127	68.641	0.020	11.628	0.030
0.000	1800	9.997	69.813	13.614	69.784	0.029	13.498	0.116	69.805	0.008	13.605	0.009
0.000	2000	10.499	70.892	15.663	70.885	0.007	15.589	0.074	70.894	-0.002	15.673	-0.010
0.000	2200	11.046	71.918	17.817	71.935	-0.017	17.794	0.023	71.924	-0.006	17.835	-0.018
0.000	2400	11.592	72.902	20.081	72.939	-0.037	20.101	-0.020	72.906	-0.004	20.094	-0.013
0.000	2600	12.097	73.851	22.451	73.898	-0.047	22.499	-0.048	73.849	0.002	22.450	0.001
0.000	2800	12.531	74.763	24.915	74.815	-0.052	24.973	-0.058	74.759	0.004	24.905	0.010
0.000	3000	12.879	75.640	27.458	75.690	-0.050	27.510	-0.052	75.640	0.000	27.461	-0.003
0.000	3000	12.879	75.640	27.458	75.690	-0.050	27.510	-0.052	75.640	0.000	27.435	0.023
0.000	3200	13.134	76.480	30.060	76.525	-0.045	30.097	-0.037	76.488	-0.008	30.063	-0.003
0.000	3400	13.302	77.282	32.705	77.320	-0.038	32.722	-0.017	77.293	-0.011	32.718	-0.013
0.000	3600	13.393	78.045	35.376	78.078	-0.033	35.374	0.002	78.056	-0.011	35.388	-0.012
0.000	3800	13.419	78.770	38.058	78.799	-0.029	38.041	0.017	78.779	-0.009	38.064	-0.006
0.000	4000	13.393	79.458	40.740	79.485	-0.027	40.715	0.025	79.465	-0.007	40.739	0.001
0.000	4200	13.329	80.110	43.413	80.137	-0.027	43.386	0.027	80.116	-0.006	43.405	0.008
0.000	4400	13.237	80.728	46.070	80.756	-0.028	46.048	0.022	80.733	-0.005	46.059	0.011
0.000	4600	13.127	81.314	48.707	81.344	-0.030	48.694	0.013	81.319	-0.005	48.697	0.010
0.000	4800	13.005	81.870	51.320	81.902	-0.032	51.318	0.002	81.876	-0.006	51.314	0.006
0.000	5000	12.878	82.399	53.908	82.432	-0.033	53.916	-0.008	82.406	-0.007	53.908	0.000
0.000	5200	12.750	82.901	56.471	82.936	-0.035	56.486	-0.015	82.909	-0.008	56.477	-0.006
0.000	5400	12.624	83.380	59.008	83.416	-0.036	59.024	-0.016	83.389	-0.009	59.018	-0.010
0.000	5600	12.501	83.837	61.521	83.871	-0.034	61.532	-0.011	83.846	-0.009	61.530	-0.009
0.000	5800	12.384	84.274	64.009	84.306	-0.032	64.008	0.001	84.281	-0.007	64.011	-0.002
0.000	6000	12.273	84.691	66.475	84.721	-0.030	66.455	0.020	84.696	-0.005	66.460	0.015

MAGNESIUM ORTHOSILICATE

(L)

MG 20 4SI 1 0 0 0

1267

MOL. WT. = 140.700

BLOCK = 1791

NO. POINT = 34

DATA FROM 298 TO 3500 K HFORM(KCAL/(MOLE)) = -505.229 KEY = 344

FITS FOR NOTS RMS = 0.153063

4 8 2 12 1 14 0 0 0 0 0 MAGNESIUM ORTHOSILICATE (L) 20J1267 344
 +7.5443420E+0+4.9295440E+1-1.9304046E+1+2.4751625E+0 400 3500 21J1267 344
 +2.0358123E+0-5.0360180E+2+3.3336151E+1-5.0522875E+2MG204SI(L) 22J1267 344

FITS FOR EST RMS LOW = 0.350072 RMS HIGH = 0.350072

4 8 2 12 1 14 0 0 0 0 0 MAGNESIUM ORTHOSILICATE (L) 20MG204SI*
 -505228+6+121789+6+514901+2-531537-3-701140+7+124809+3 4003500J126721MG204SI*
 -505228+6+121789+6+514901+2-531537-3-701140+7+124809+3 4003500J126722MG204SI*

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.169	400	32.877	38.437	3.141	38.288	0.149	3.103	0.038	43.965	-5.528	5.456	-2.315
0.041	600	37.388	52.730	10.221	52.936	-0.206	10.324	-0.103	52.564	0.166	9.858	0.363
0.046	800	39.929	63.860	17.971	63.744	0.116	17.851	0.120	63.010	0.850	17.160	0.811
0.020	1000	41.732	72.973	26.145	72.787	0.186	25.967	0.178	72.422	0.551	25.610	0.535
-0.002	1200	43.180	80.713	34.641	80.686	0.027	34.640	0.001	80.632	0.081	34.622	0.019
-0.014	1400	49.000	87.465	43.404	87.715	-0.250	43.765	-0.361	87.817	-0.352	43.947	-0.544
-0.015	1600	49.000	94.008	53.204	94.027	-0.019	53.222	-0.018	94.167	-0.159	53.460	-0.256
-0.011	1800	49.000	99.779	63.004	99.727	0.052	62.903	0.101	99.838	-0.059	63.090	-0.086
-0.003	2000	49.000	104.942	72.804	104.894	0.048	72.712	0.092	104.951	-0.009	72.797	0.007
0.004	2200	49.000	109.612	82.604	109.594	0.018	82.573	0.031	109.600	0.012	82.553	0.051
0.009	2400	49.000	113.876	92.404	113.883	-0.007	92.433	-0.029	113.858	0.018	92.341	0.063
0.009	2600	49.000	117.798	102.204	117.816	-0.018	102.259	-0.055	117.783	0.015	102.148	0.055
0.003	2800	49.000	121.429	112.004	121.441	-0.012	112.042	-0.038	121.421	0.008	111.967	0.037
-0.013	3000	49.000	124.810	121.804	124.806	0.004	121.796	0.007	124.810	0.000	121.790	0.014
	3200	49.000	127.972	131.604	127.956	0.016	131.558	0.046	127.980	-0.008	131.612	-0.008
	3400	49.000	130.943	141.404	130.936	0.007	141.389	0.015	130.956	-0.013	141.430	-0.026

MAGNESIUM SILICIDE (C) MG 2SI 1 1260
 MOL. WT.= 76.710 BLOCK= 1795 NO. POINT = 24
 DATA FROM 298 TO 2500 K HFORM(KCAL/(MOLE)) = -18.600 KEY = 345
 FITS FOR NOTS RMS = 0.001348
 12 1 14 0 0 0 0 0 0 0 MAGNESIUM SILICIDE (C) 30J1260 345
 1.7173583E+1+3.9985466E+0-3.9213716E-2-6.8099617E-2 400 2500 31J1260 345
 1.6839599E-1-2.4483291E+1+3.8086853E+1-1.8599990E+1MG2SI(C) 32J1260 345

FITS FOR EST RMS LOW = 0.015663 RMS HIGH = 0.015663
 12 1 14 0 0 0 0 0 0 0 MAGNESIUM SILICIDE (C) 30MG2SI\$
 185999+5+621373+5+183397+2+308439-2-450368+6+682298+2 4002500J126031MG2SI\$
 185999+5+621373+5+183397+2+308439-2-450368+6+682298+2 4002500J126032MG2SI\$

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DH
 KC/M
 2.315
 0.363
 0.811
 0.535
 0.019
 0.544
 0.256
 0.086
 0.007
 0.051
 0.063
 0.055
 0.037
 0.014
 0.008
 0.026

-----NOTS-----														-----EST-----															
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T		SC	DS	HC	DH	T		SC	DS	HC	DH	T		SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K		C/M-K	C/M-K	KC/M	KC/M	K		C/M-K	C/M-K	KC/M	KC/M	K		C/M-K	C/M-K	KC/M	KC/M
400	17.630	24.477	1.729	24.472	0.005	1.726	0.003	24.640	-0.163	1.797	-0.068	400		24.640	-0.163	1.797	-0.068	400		24.640	-0.163	1.797	-0.068	400		24.640	-0.163	1.797	-0.068
500	18.470	28.512	3.538	28.511	0.001	3.537	0.001	28.534	-0.022	3.544	-0.006	600		28.534	-0.022	3.544	-0.006	600		28.534	-0.022	3.544	-0.006	600		28.534	-0.022	3.544	-0.006
600	19.080	31.934	5.416	31.935	-0.001	5.416	-0.000	31.911	0.023	5.398	0.018	800		31.911	0.023	5.398	0.018	800		31.911	0.023	5.398	0.018	800		31.911	0.023	5.398	0.018
700	19.600	34.916	7.351	34.915	0.001	7.350	0.001	34.881	0.035	7.325	0.026	1000		34.881	0.035	7.325	0.026	1000		34.881	0.035	7.325	0.026	1000		34.881	0.035	7.325	0.026
900	20.050	37.563	9.334	37.561	0.002	9.332	0.002	37.530	0.033	9.310	0.024	1200		37.530	0.033	9.310	0.024	1200		37.530	0.033	9.310	0.024	1200		37.530	0.033	9.310	0.024
900	20.480	39.949	11.360	39.948	0.001	11.359	0.001	39.925	0.024	11.344	0.016	1400		39.925	0.024	11.344	0.016	1400		39.925	0.024	11.344	0.016	1400		39.925	0.024	11.344	0.016
1000	20.890	42.128	13.429	42.127	0.001	13.428	0.001	42.113	0.015	13.421	0.008	1600		42.113	0.015	13.421	0.008	1600		42.113	0.015	13.421	0.008	1600		42.113	0.015	13.421	0.008
1100	21.290	44.138	15.538	44.138	0.000	15.538	0.000	44.130	0.008	15.537	0.001	1800		44.130	0.008	15.537	0.001	1800		44.130	0.008	15.537	0.001	1800		44.130	0.008	15.537	0.001
1200	21.670	46.007	17.686	46.007	-0.000	17.686	-0.000	46.005	0.002	17.692	-0.006	2000		46.005	0.002	17.692	-0.006	2000		46.005	0.002	17.692	-0.006	2000		46.005	0.002	17.692	-0.006
1300	22.050	47.756	19.872	47.757	-0.001	19.873	-0.001	47.758	-0.002	19.883	-0.011	2200		47.758	-0.002	19.883	-0.011	2200		47.758	-0.002	19.883	-0.011	2200		47.758	-0.002	19.883	-0.011
1400	22.420	49.404	22.096	49.405	-0.001	22.097	-0.001	49.407	-0.003	22.108	-0.012	2400		49.407	-0.003	22.108	-0.012	2400		49.407	-0.003	22.108	-0.012	2400		49.407	-0.003	22.108	-0.012
1500	22.780	50.963	24.356	50.965	-0.002	24.357	-0.001	50.966	-0.003	24.368	-0.012	2600		50.966	-0.003	24.368	-0.012	2600		50.966	-0.003	24.368	-0.012	2600		50.966	-0.003	24.368	-0.012
1600	23.130	52.445	26.651	52.446	-0.001	26.653	-0.002	52.446	-0.001	26.661	-0.010	2800		52.446	-0.001	26.661	-0.010	2800		52.446	-0.001	26.661	-0.010	2800		52.446	-0.001	26.661	-0.010
1700	23.470	53.857	28.981	53.858	-0.001	28.982	-0.001	53.856	0.001	28.988	-0.007	3000		53.856	0.001	28.988	-0.007	3000		53.856	0.001	28.988	-0.007	3000		53.856	0.001	28.988	-0.007
1800	23.800	55.208	31.345	55.209	-0.001	31.345	-0.000	55.205	0.003	31.347	-0.002	3200		55.205	0.003	31.347	-0.002	3200		55.205	0.003	31.347	-0.002	3200		55.205	0.003	31.347	-0.002
1900	24.120	56.503	33.741	56.504	-0.001	33.741	0.000	56.498	0.005	33.738	0.003	3400		56.498	0.005	33.738	0.003	3400		56.498	0.005	33.738	0.003	3400		56.498	0.005	33.738	0.003
2000	24.430	57.748	36.169	57.749	-0.001	36.168	0.001	57.741	0.007	36.162	0.007	3600		57.741	0.007	36.162	0.007	3600		57.741	0.007	36.162	0.007	3600		57.741	0.007	36.162	0.007
2100	24.730	58.948	38.627	58.948	0.000	38.626	0.001	58.939	0.009	38.617	0.010	3800		58.939	0.009	38.617	0.010	3800		58.939	0.009	38.617	0.010	3800		58.939	0.009	38.617	0.010
2200	25.020	60.105	41.114	60.105	-0.000	41.114	0.000	60.096	0.009	41.105	0.009	4000		60.096	0.009	41.105	0.009	4000		60.096	0.009	41.105	0.009	4000		60.096	0.009	41.105	0.009
300	25.300	61.223	43.630	61.224	-0.001	43.630	0.000	61.215	0.008	43.624	0.006			61.215	0.008	43.624	0.006			61.215	0.008	43.624	0.006			61.215	0.008	43.624	0.006
400	25.570	62.306	46.174	62.306	-0.000	46.174	0.000	62.301	0.005	46.174	-0.000			62.301	0.005	46.174	-0.000			62.301	0.005	46.174	-0.000			62.301	0.005	46.174	-0.000
500	25.830	63.355	48.744	63.355	-0.000	48.744	-0.000	63.355	0.000	48.756	-0.012			63.355	0.000	48.756	-0.012			63.355	0.000	48.756	-0.012			63.355	0.000	48.756	-0.012

MAGNESIUM SILICIDE

(L)

MG 2SI 1

1260

MOL. WT. = 76.710 BLOCK = 1797 NO. POINT = 39

DATA FROM 298 TO 4000 K HFORM(KCAL/(MOLE)) = -0.792 KEY = 346

FITS FOR NOTS RMS = 0.004050

2 12 1 14 0 0 0 0 0 0 0 MAGNESIUM SILICIDE (L) 20J1260 346
+2.2494934E+1+4.3610982E-2-2.9182087E-2+4.9107186E-3 400 4000 21J1260 346
-7.5988769E-3-7.5203323E+0+5.6751663E+1-7.9199999E-1MG2SI (L) 22J1260 346

FITS FOR EST RMS LOW = 0.000810 RMS HIGH = 0.000810

2 12 1 14 0 0 0 0 0 0 0 MAGNESIUM SILICIDE (L) 20MG2SI*
-791999+3+607921+5+225046+2-124504-5-572800+4+815079+2 4004000J126021MG2SI*
-791999+3+607921+5+225046+2-124504-5-572800+4+815079+2 4004000J126022MG2SI*

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
8	400	22.500	36.173	2.292	36.179	-0.006	2.292	0.000	36.184	-0.011	2.298	-0.006
6	500	22.500	45.296	6.792	45.292	0.003	6.787	0.005	45.299	-0.003	6.794	-0.002
8	800	22.500	51.769	11.292	51.764	0.005	11.287	0.005	51.769	-0.000	11.292	-0.000
6	1000	22.500	56.790	15.792	56.786	0.004	15.788	0.004	56.789	0.001	15.792	0.000
4	1200	22.500	60.892	20.292	60.890	0.002	20.289	0.003	60.891	0.001	20.291	0.001
6	1400	22.500	64.360	24.792	64.359	0.001	24.791	0.001	64.359	0.001	24.791	0.001
8	1600	22.500	67.365	29.292	67.365	0.000	29.292	-0.000	67.364	0.001	29.291	0.001
1	1800	22.500	70.015	33.792	70.016	-0.001	33.794	-0.002	70.014	0.001	33.791	0.001
6	2000	22.500	72.385	38.292	72.387	-0.002	38.294	-0.002	72.385	0.000	38.292	0.000
1	2200	22.500	74.530	42.792	74.531	-0.001	42.795	-0.003	74.529	0.001	42.792	0.000
2	2400	22.500	76.488	47.292	76.489	-0.001	47.294	-0.003	76.487	0.001	47.292	0.000
2	2600	22.500	78.289	51.792	78.290	-0.001	51.794	-0.002	78.288	0.001	51.792	-0.000
0	2800	22.500	79.956	56.292	79.957	-0.001	56.293	-0.001	79.956	0.000	56.292	-0.000
7	3000	22.500	81.508	60.792	81.509	-0.001	60.792	-0.000	81.508	0.000	60.792	-0.000
2	3200	22.500	82.960	65.292	82.961	-0.001	65.291	0.001	82.960	-0.000	65.292	-0.000
3	3400	22.500	84.324	69.792	84.325	-0.001	69.790	0.002	84.324	-0.000	69.792	-0.000
7	3600	22.500	85.610	74.292	85.611	-0.001	74.290	0.002	85.610	-0.000	74.292	-0.000
0	3800	22.500	86.827	78.792	86.827	-0.000	78.791	0.001	86.827	0.000	78.792	-0.000
9	4000	22.500	87.981	83.292	87.982	-0.001	83.294	-0.002	87.981	0.000	83.292	0.000

MAGNESIUM NITRIDE (C) MG 3N 2 1260
 MOL. WT.= 100.940 BLOCK= 1801 NO. POINT = 24
 DATA FROM 298 TO 2500 K HPFORM(KCAL/(MOLE)) = -110.200 KEY = 347
 FITS FOR NOTS RMS = 0.054706
 2 7 3 12 0 0 0 0 0 0 0 MAGNESIUM NITRIDE (C) 30J1260 347
 +4.9778793E+1-2.5877899E+1+1.1642211E+1-1.7759666E+0 400 2500 31J1260 347
 -3.5186767E+0-1.3432463E+2+7.3003631E+1-1.1019999E+2MG3N2(C) 32J1260 347

FITS FOR EST RMS LOW = 0.092972 RMS HIGH = 0.092972
 2 7 3 12 0 0 0 0 0 0 0 MAGNESIUM NITRIDE (C) 30MG3N2\$
 -110199+6+786672+5+311394+2-709038-3-679024+6+866452+2 4002500J126031MG3N2\$
 -110199+6+786672+5+311394+2-709038-3-679024+6+866452+2 4002500J126032MG3N2\$

-----NOTS-----								-----EST-----				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	25.730	28.447	2.583	28.930	-0.483	2.750	-0.167	27.830	0.617	2.310	0.273	400
500	26.460	34.266	5.192	33.979	0.287	5.025	0.167	33.944	0.322	5.052	0.140	600
600	27.190	39.154	7.874	38.903	0.251	7.730	0.144	39.135	0.019	7.901	-0.027	800
700	27.920	43.400	10.630	43.374	0.026	10.632	-0.002	43.614	-0.214	10.807	-0.177	1000
800	28.650	47.176	13.458	47.365	-0.189	13.621	-0.163	47.539	-0.363	13.747	-0.289	1200
900	29.600	50.905	16.618	50.924	-0.019	16.643	-0.025	51.025	-0.120	16.706	-0.088	1400
1000	29.600	54.024	19.578	54.114	-0.090	19.671	-0.093	54.155	-0.131	19.677	-0.099	1600
1100	29.540	57.088	22.796	56.992	0.096	22.690	0.106	56.993	0.095	22.655	0.141	1800
1200	29.540	59.658	25.750	59.607	0.051	25.695	0.055	59.587	0.071	25.636	0.114	2000
1300	29.540	62.023	28.704	62.001	0.022	28.686	0.018	61.973	0.050	28.618	0.086	2200
1400	29.540	64.212	31.658	64.206	0.006	31.662	-0.004	64.183	0.029	31.599	0.059	2400
1500	29.540	66.250	34.612	66.252	-0.002	34.626	-0.014	66.238	0.012	34.577	0.035	2600
1600	29.540	68.156	37.566	68.160	-0.004	37.583	-0.017	68.158	-0.002	37.553	0.013	2800
1700	29.540	69.947	40.520	69.949	-0.002	40.533	-0.013	69.960	-0.013	40.525	-0.005	3000
1800	29.540	71.636	43.474	71.634	0.002	43.481	-0.007	71.656	-0.020	43.493	-0.019	
1900	29.540	73.233	46.428	73.227	0.006	46.429	-0.001	73.258	-0.025	46.456	-0.028	
2000	29.540	74.748	49.382	74.740	0.008	49.379	0.003	74.775	-0.027	49.414	-0.032	
2100	29.540	76.189	52.336	76.180	0.009	52.330	0.006	76.216	-0.027	52.366	-0.030	
2200	29.540	77.563	55.290	77.555	0.008	55.285	0.005	77.587	-0.024	55.313	-0.023	
2300	29.540	78.876	58.244	78.869	0.007	58.242	0.002	78.894	-0.018	58.254	-0.010	
2400	29.540	80.134	61.198	80.128	0.006	61.199	-0.001	80.143	-0.009	61.189	0.009	
2500	29.540	81.339	64.152	81.334	0.005	64.154	-0.003	81.339	0.000	64.118	0.034	

“AG”

10

ATA

ITS

8

340

.769

*ITS

8

7689

7689

-----EST-----

T	K
400	5
500	6
600	7
700	8
200	10
400	11
500	11
800	11
500	11
200	11
400	11
600	11
800	11
000	11
200	11
400	11
600	11
800	11
000	11
200	11
400	11
600	11
800	11
0011	
20011	
40011	
60011	
80011	
00011	

NITROGEN, MONATOMIC

(G) N 1

361

MOL. WT. = 14.000 BLOCK = 1813 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 112.965 KEY = 350

FITS FOR NOTS RMS = 0.011104

1 7 0 0 0 0 0 0 0 0 0 NITROGEN, MONATOMIC (G) 10J 361 350
 +5.5630893E+0-4.8930692E-1+1.0936027E-1-1.9531957E-3 400 6000 11J 361 350
 -1.7443847E-1+1.1090811E+2+4.2958663E+1+1.1296499E+2N(G) 12J 361 350

FITS FOR EST RMS LOW = 0.002042 RMS HIGH = 0.004176

1 7 0 0 0 0 0 0 0 0 0 NITROGEN, MONATOMIC (G) 10N
 +112964+6+134351+5+492514+1+212098-4+170360+5+480899+2 4003000J 36111N
 +112964+6+134348+5+225889+1+599260-3+886636+7+480899+230006000J 36112N

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.477	400	4.968	38.074	0.506	38.219	-0.145	0.568	-0.062	38.059	0.015	0.499	0.007	7
3.764	600	4.968	40.089	1.500	40.085	0.004	1.491	0.009	40.090	-0.001	1.500	-0.000	40
2.196	800	4.968	41.518	2.493	41.497	0.021	2.474	0.019	41.521	-0.003	2.496	-0.003	60
-0.720	1000	4.968	42.627	3.487	42.611	0.016	3.472	0.015	42.629	-0.002	3.489	-0.002	80
-2.034	1200	4.968	43.532	4.481	43.524	0.008	4.474	0.007	43.534	-0.002	4.481	-0.000	100
-1.695	1400	4.968	44.298	5.474	44.295	0.003	5.475	-0.001	44.299	-0.001	5.474	0.000	120
-1.088	1600	4.968	44.962	6.468	44.962	0.000	6.473	-0.005	44.962	0.000	6.467	0.001	140
-0.570	1800	4.968	45.547	7.461	45.548	-0.001	7.468	-0.007	45.547	0.000	7.460	0.001	160
-0.182	2000	4.969	46.070	8.455	46.071	-0.001	8.462	-0.007	46.071	-0.001	8.454	0.001	180
0.115	2200	4.971	46.544	9.449	46.544	-0.000	9.454	-0.005	46.545	-0.001	9.449	0.000	200
0.335	2400	4.975	46.977	10.444	46.976	0.001	10.446	-0.002	46.978	-0.001	10.444	-0.000	220
0.480	2600	4.982	47.375	11.439	47.373	0.002	11.439	0.000	47.376	-0.001	11.440	-0.001	240
0.538	2800	4.993	47.745	12.437	47.742	0.003	12.434	0.003	47.746	-0.001	12.437	-0.000	260
0.495	3000	5.011	48.090	13.437	48.087	0.003	13.433	0.004	48.090	0.000	13.435	0.002	280
0.388	3000	5.011	48.090	13.437	48.087	0.003	13.433	0.004	48.090	0.000	13.435	0.002	300
0.276	3200	5.035	48.414	14.441	48.411	0.003	14.438	0.003	48.415	-0.001	14.443	-0.002	320
0.164	3400	5.067	48.720	15.451	48.717	0.003	15.448	0.003	48.721	-0.002	15.453	-0.002	340
0.060	3600	5.107	49.011	16.469	49.008	0.003	16.467	0.002	49.012	-0.001	16.469	-0.000	360
-0.032	3800	5.156	49.288	17.495	49.286	0.002	17.494	0.001	49.289	-0.001	17.494	0.001	380
-0.109	4000	5.213	49.554	18.531	49.552	0.002	18.533	-0.002	49.555	-0.001	18.530	0.001	400
-0.167	4200	5.278	49.810	19.580	49.808	0.002	19.583	-0.003	49.810	-0.000	19.579	0.001	420
-0.203	4400	5.351	50.057	20.643	50.056	0.001	20.646	-0.003	50.058	-0.001	20.642	0.001	440
-0.215	4600	5.431	50.297	21.721	50.295	0.002	21.724	-0.003	50.297	-0.000	21.721	0.000	460
-0.201	4800	5.517	50.530	22.816	50.528	0.002	22.818	-0.002	50.530	-0.000	22.816	0.000	480
-0.161	5000	5.608	50.757	23.928	50.755	0.002	23.929	-0.001	50.758	-0.001	23.929	-0.001	500
-0.092	5200	5.703	50.978	25.059	50.976	0.002	25.058	0.001	50.979	-0.001	25.060	-0.001	520
0.007	5400	5.800	51.195	26.210	51.193	0.002	26.207	0.003	51.197	-0.002	26.210	-0.000	540
0.136	5600	5.900	51.408	27.380	51.406	0.002	27.377	0.003	51.409	-0.001	27.380	0.000	560
0.297	5800	6.000	51.617	28.570	51.615	0.002	28.569	0.001	51.618	-0.001	28.569	0.001	580
	6000	6.100	51.822	29.780	51.821	0.001	29.784	-0.004	51.823	-0.001	29.779	0.001	600

NITROGEN DIOXIDE

(G) N 10 2

964

MOL. WT. = 46.000 BLCK = 1825 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 7.910 KEY = 352

PITS FOR NOTS RMS = 0.011360

1 7 2 8 0 0 0 0 0 0 0 NITROGEN DIOXIDE (G) 10J 964 352
+1.3019721E+1+5.4088246E-1-1.1728793E-1+8.6345411E-3 400 6000 11J 964 352
-8.9620971E-1+1.4783592E+0+6.9265441E+1+7.9099998E+0NO2(G) 12J 964 352

PITS FOR EST RMS LOW = 0.017496 RMS HIGH = 0.004280

1 7 2 8 0 0 0 0 0 0 0 NITROGEN DIOXIDE (G) 10NO2
+790999+4+344896+5+133517+2+176129-3-957840+6+847949+2 4003000J 96411NO2
+790999+4+344848+5+139987+2-128876-4-231728+7+847949+230006000J 96412NO2

-----NOTS-----

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	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
096	400	9.601	60.046	0.939	60.343	-0.297	1.058	-0.119	60.375	-0.329	1.072	-0.133
027	600	10.955	64.208	3.001	64.163	0.045	2.963	0.038	64.161	0.047	2.962	0.039
026	800	11.881	67.496	5.291	67.457	0.039	5.258	0.033	67.455	0.041	5.258	0.033
009	1000	12.468	70.215	7.730	70.199	0.016	7.718	0.012	70.200	0.015	7.720	0.010
003	1200	12.847	72.524	10.265	72.520	0.004	10.265	-0.000	72.523	0.001	10.270	-0.005
008	1400	13.099	74.525	12.861	74.525	-0.000	12.867	-0.006	74.528	-0.003	12.872	-0.011
008	1600	13.273	76.286	15.499	76.287	-0.001	15.506	-0.007	76.289	-0.003	15.509	-0.010
005	1800	13.398	77.857	18.167	77.857	0.000	18.173	-0.006	77.858	-0.001	18.173	-0.006
001	2000	13.490	79.274	20.856	79.272	0.002	20.859	-0.003	79.272	0.002	20.857	-0.001
003	2200	13.560	80.563	23.561	80.560	0.003	23.562	-0.001	80.559	0.004	23.558	0.003
005	2400	13.614	81.745	26.279	81.742	0.003	26.278	0.001	81.740	0.005	26.273	0.006
004	2600	13.656	82.836	29.006	82.833	0.003	29.004	0.002	82.831	0.005	29.001	0.005
000	2800	13.690	83.850	31.741	83.846	0.004	31.738	0.003	83.846	0.004	31.740	0.001
006	3000	13.718	84.795	34.482	84.791	0.004	34.479	0.003	84.795	0.000	34.490	-0.008
002	3000	13.718	84.795	34.482	84.791	0.004	34.479	0.003	84.795	0.000	34.485	-0.003
001	3200	13.741	85.681	37.228	85.678	0.003	37.226	0.002	85.680	0.001	37.228	-0.000
000	3400	13.760	86.515	39.978	86.512	0.003	39.977	0.001	86.513	0.002	39.977	0.001
001	3600	13.776	87.302	42.731	87.299	0.003	42.732	-0.001	87.300	0.002	42.730	0.001
001	3800	13.790	88.047	45.488	88.044	0.003	45.489	-0.001	88.045	0.002	45.486	0.002
001	4000	13.801	88.755	48.247	88.752	0.003	48.249	-0.002	88.753	0.002	48.245	0.002
000	4200	13.811	89.428	51.008	89.426	0.002	51.010	-0.002	89.427	0.001	51.007	0.001
001	4400	13.820	90.071	53.771	90.068	0.003	53.773	-0.002	90.069	0.002	53.771	0.000
000	4600	13.828	90.686	56.536	90.683	0.003	56.537	-0.001	90.684	0.002	56.536	0.000
000	4800	13.834	91.274	59.302	91.271	0.003	59.303	-0.001	91.273	0.001	59.302	-0.000
000	5000	13.840	91.839	62.070	91.836	0.003	62.069	0.001	91.838	0.001	62.070	-0.000
001	5200	13.846	92.382	64.838	92.379	0.003	64.837	0.001	92.381	0.001	64.839	-0.001
000	5400	13.850	92.905	67.608	92.901	0.004	67.606	0.002	92.903	0.002	67.609	-0.001
000	5600	13.854	93.408	70.379	93.405	0.003	70.377	0.002	93.407	0.001	70.379	0.000
000	5800	13.858	93.895	73.150	93.891	0.004	73.150	0.000	93.893	0.002	73.150	0.000
000	6000	13.862	94.365	75.922	94.362	0.003	75.925	-0.003	94.363	0.002	75.921	0.001

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PHOSPHORUS NITRIDE (G) N 1P 1 962 S
 MOL. WT. = 44.980 BLOCK = 1831 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 25.043 KEY = 353
 FITS FOR NOTS RMS = 0.004105
 7 1 15 0 0 0 0 0 0 0 PHOSPHORUS NITRIDE (G) 10J 962 353
 1.6555566E+0+2.2281622E-1-3.8641970E-2+2.8674220E-3 400 6000 11J 962 353
 1.3593750E-1+2.1499069E+1+5.9454055E+1+2.5042999E+1NP (G) 12J 962 353

FITS FOR EST RMS LOW = 0.006075 RMS HIGH = 0.003074
 1 7 1 15 0 0 0 0 0 0 0 PHOSPHORUS NITRIDE (G) 10NP
 250429+5+232506+5+876489+1+102575-3-356912+6+695029+2 4003000J 96211NP
 250429+5+232501+5+900364+1+373996-4-988528+6+695029+230006000J 96212NP

I C/M	-----NOTS-----								-----EST-----				T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
133	400	7.355	52.556	0.735	52.659	-0.103	0.775	-0.040	52.671	-0.115	0.782	-0.047	400
039	600	7.885	55.643	2.261	55.626	0.017	2.247	0.014	55.626	0.017	2.248	0.013	600
033	800	8.249	57.965	3.878	57.951	0.014	3.865	0.013	57.951	0.014	3.866	0.012	800
010	1000	8.476	59.832	5.552	59.826	0.006	5.547	0.005	59.827	0.005	5.548	0.004	1000
005	1200	8.623	61.392	7.263	61.390	0.002	7.262	0.001	61.391	0.001	7.265	-0.002	1200
011	1400	8.723	62.729	8.998	62.729	0.000	9.000	-0.002	62.730	-0.001	9.002	-0.004	1400
010	1600	8.794	63.899	10.750	63.899	0.000	10.752	-0.002	63.900	-0.001	10.754	-0.004	1600
006	1800	8.848	64.938	12.515	64.938	0.000	12.516	-0.001	64.938	0.000	12.517	-0.002	1800
001	2000	8.889	65.872	14.288	65.872	0.000	14.289	-0.001	65.871	0.001	14.289	-0.001	2000
003	2200	8.923	66.721	16.070	66.720	0.001	16.070	0.000	66.719	0.002	16.069	0.001	2200
006	2400	8.951	67.499	17.857	67.498	0.001	17.857	0.000	67.497	0.002	17.855	0.002	2400
005	2600	8.975	68.216	19.650	68.215	0.001	19.649	0.001	68.214	0.002	19.648	0.002	2600
001	2800	8.996	68.882	21.447	68.881	0.001	21.446	0.001	68.881	0.001	21.447	0.000	2800
008	3000	9.015	69.503	23.248	69.502	0.001	23.248	0.000	69.503	0.000	23.251	-0.003	3000
003	3200	9.015	69.503	23.248	69.502	0.001	23.248	0.000	69.503	0.000	23.250	-0.002	3200
000	3400	9.032	70.086	25.053	70.085	0.001	25.053	0.000	70.085	0.001	25.053	-0.000	3400
001	3600	9.048	70.634	26.861	70.633	0.001	26.861	-0.000	70.633	0.001	26.861	0.000	3600
002	3800	9.063	71.151	28.672	71.151	0.000	28.673	-0.001	71.150	0.001	28.671	0.001	3800
002	4000	9.077	71.642	30.486	71.641	0.001	30.487	-0.001	71.641	0.001	30.485	0.001	4000
001	4200	9.090	72.108	32.303	72.107	0.001	32.304	-0.001	72.107	0.001	32.302	0.001	4200
000	4400	9.103	72.552	34.123	72.551	0.001	34.123	-0.000	72.550	0.002	34.122	0.001	4400
000	4600	9.116	72.975	35.945	72.975	0.000	35.945	-0.000	72.974	0.001	35.944	0.001	4600
000	4800	9.127	73.381	37.769	73.380	0.001	37.769	-0.000	73.380	0.001	37.769	0.000	4800
000	5000	9.139	73.769	39.595	73.769	0.000	39.596	-0.001	73.769	0.000	39.596	-0.001	5000
001	5200	9.150	74.143	41.424	74.142	0.001	41.424	-0.000	74.142	0.001	41.425	-0.001	5200
001	5400	9.161	74.502	43.256	74.501	0.001	43.255	0.001	74.501	0.001	43.256	-0.000	5400
000	5600	9.172	74.848	45.089	74.847	0.001	45.088	0.001	74.847	0.001	45.089	-0.000	5600
000	5800	9.183	75.182	46.925	75.181	0.001	46.924	0.001	75.181	0.001	46.925	0.000	5800
000	6000	9.194	75.504	48.762	75.503	0.001	48.762	0.000	75.503	0.001	48.762	-0.000	6000
001	6000	9.204	75.816	50.602	75.815	0.001	50.603	-0.001	75.815	0.001	50.601	0.001	6000

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SILICON NITRIDE (G) N 1SI 1 0 0 0 0 367
 MCL. WT.= 42.090 BLOCK= 1844 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 89.000 KEY = 355
 FITS FOR NOTS RMS = 0.019417
 7 1 14 0 0 0 0 0 0 0 SILICCN NITRIDE (G) 10J 367 355
 .0624008E+0+3.8972454E+0-8.8847905E-1+6.4664900E-2 400 6000 11J 367 355
 .9360046E-1+8.8336959E+1+5.8131286E+1+8.9000000E+1NSI(G) 12J 367 355

FITS FOR EST RMS LOW = 0.029292 RMS HIGH = 0.014403
 7 1 14 0 0 0 0 0 0 0 SILICON NITRIDE (G) 10NSI
 90000+5+252693+5+807511+1+914830-3-284192+6+719449+2 4003000J 36711NSI
 90000+5+252380+5+112800+2-150350-3-170395+7+719449+230006000J 36712NSI

OH

C/M	-----NOTS-----								-----EST-----				T
	I	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	C/M	KC/M	K
.036	400	7.541	53.957	0.751	53.752	0.205	0.671	0.080	54.168	-0.211	0.846	-0.095	400
.011	400	8.086	57.125	2.318	57.182	-0.057	2.358	-0.040	57.132	-0.007	2.316	0.002	600
.009	400	8.421	59.501	3.971	59.539	-0.038	3.997	-0.026	59.465	0.036	3.941	0.030	800
.003	400	8.657	61.407	5.680	61.409	-0.002	5.674	0.006	61.370	0.037	5.649	0.031	1000
.001	400	8.880	63.005	7.433	62.992	0.013	7.412	0.021	62.982	0.023	7.418	0.015	1200
.002	400	9.123	64.392	9.233	64.379	0.013	9.212	0.021	64.384	0.008	9.237	-0.004	1400
.003	400	9.384	65.627	11.084	65.620	0.007	11.072	0.012	65.628	-0.001	11.101	-0.017	1600
.001	400	9.645	66.747	12.987	66.748	-0.001	12.987	0.000	66.750	-0.003	13.008	-0.021	1800
.000	400	9.888	67.776	14.941	67.781	-0.005	14.949	-0.008	67.776	0.000	14.955	-0.014	2000
.002	400	10.100	68.729	16.940	68.735	-0.006	16.952	-0.012	68.722	0.007	16.941	-0.001	2200
.002	400	10.273	69.615	18.978	69.622	-0.007	18.989	-0.011	69.603	0.012	18.966	0.012	2400
.000	400	10.407	70.443	21.047	70.448	-0.005	21.054	-0.007	70.429	0.014	21.029	0.018	2600
.002	400	10.504	71.218	23.138	71.221	-0.003	23.141	-0.003	71.207	0.011	23.131	0.007	2800
.002	400	10.567	71.945	25.246	71.947	-0.002	25.244	0.002	71.945	0.000	25.269	-0.023	3000
.000	400	10.567	71.945	25.246	71.947	-0.002	25.244	0.002	71.945	0.000	25.238	0.008	3200
.000	400	10.604	72.629	27.363	72.629	0.000	27.358	0.005	72.631	-0.002	27.365	-0.002	3400
.001	400	10.619	73.272	29.486	73.272	0.000	29.479	0.007	73.276	-0.004	29.491	-0.005	3600
.001	400	10.618	73.879	31.610	73.879	-0.000	31.604	0.006	73.882	-0.003	31.614	-0.004	3800
.001	400	10.605	74.453	33.732	74.453	-0.000	33.729	0.003	74.455	-0.003	33.733	-0.001	4000
.001	400	10.584	74.996	35.851	74.998	-0.002	35.850	0.001	74.998	-0.002	35.850	0.001	4200
.000	400	10.558	75.512	37.966	75.514	-0.002	37.968	-0.002	75.514	-0.002	37.962	0.004	4400
.000	400	10.530	76.002	40.074	76.005	-0.003	40.079	-0.005	76.004	-0.002	40.070	0.004	
.000	400	10.502	76.470	42.178	76.473	-0.003	42.183	-0.005	76.472	-0.002	42.174	0.004	
.001	400	10.475	76.916	44.275	76.919	-0.003	44.280	-0.005	76.918	-0.002	44.274	0.001	
.001	400	10.449	77.343	46.368	77.346	-0.003	46.370	-0.002	77.346	-0.003	46.368	-0.000	
.000	400	10.427	77.753	48.455	77.754	-0.001	48.454	0.001	77.756	-0.003	48.458	-0.003	
.000	400	10.407	78.146	50.539	78.147	-0.001	50.535	0.004	78.149	-0.003	50.542	-0.003	
.000	400	10.391	78.524	52.618	78.525	-0.001	52.613	0.005	78.527	-0.003	52.621	-0.003	
.000	400	10.378	78.888	54.695	78.890	-0.002	54.693	0.002	78.891	-0.003	54.696	-0.001	
.001	400	10.368	79.240	56.770	79.243	-0.003	56.777	-0.007	79.242	-0.002	56.764	0.006	

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TITANIUM NITRIDE (L) N 1TI 1 0 0 0 0 668
 MOL. WT. = 61.900 BLOCK = 1855 NO. POINT = 44
 DATA FROM 298 TO 4500 K HFORM(KCAL/(MOLE)) = -63.531 KEY = 357
 ITS FOR NOTS RMS = 0.041121
 7 1 22 0 0 0 0 0 0 0 TITANIUM NITRIDE (L) 20J 668 357
 .3242158E+0+9.4749050E+0-2.7876253E+0+2.7001047E-1 400 4500 21J 668 357
 .5831298E-1-6.2731582E+1+1.8430480E+1-6.3530990E+1NTI(L) 22J 668 357

FITS FOR EST RMS LOW = 0.188565 RMS HIGH = 0.188565
 7 1 22 0 0 0 0 0 0 0 TITANIUM NITRIDE (L) 20NTI*
 35309+5+364492+5+151303+2+248198-4-246182+7+414349+2 4004500J 66821NTI*
 35309+5+364492+5+151303+2+248198-4-246182+7+414349+2 4004500J 66822NTI*

ZIRCON
 MOL.
 DATA FF
 FITS FC
 1 7 1 4
 +1.107926
 -1.679229
 FITS FO
 1 7 1 4
 -872999+5
 -872999+5

-----NOTS-----								-----EST-----					
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M
100	10.471	15.456	0.993	15.046	0.410	0.834	0.159	18.441	-2.985	2.335	-1.342	400	10.6
200	11.645	19.974	3.229	20.093	-0.119	3.310	-0.081	20.306	-0.332	3.312	-0.083	600	11.6
300	12.098	23.390	5.606	23.451	-0.061	5.645	-0.039	23.168	0.222	5.315	0.291	800	12.1
400	12.463	26.129	8.063	26.122	0.007	8.041	0.022	25.857	0.272	7.730	0.333	1000	12.6
500	12.839	28.434	10.592	28.404	0.030	10.546	0.046	28.245	0.189	10.352	0.240	1200	12.9
600	13.237	30.443	13.200	30.421	0.022	13.164	0.036	30.355	0.088	13.091	0.109	1400	13.3
700	13.654	32.238	15.888	32.236	0.002	15.883	0.005	32.233	0.005	15.905	-0.017	1600	13.7
800	14.084	33.871	18.662	33.888	-0.017	18.689	-0.027	33.919	-0.048	18.768	-0.106	1800	14.0
900	14.526	35.377	21.523	35.403	-0.026	21.565	-0.042	35.446	-0.069	21.667	-0.144	2000	14.4
1000	15.000	36.783	24.473	36.798	-0.015	24.493	-0.020	36.840	-0.057	24.592	-0.119	2200	14.7
1100	15.000	38.088	27.473	38.089	-0.001	27.460	0.013	38.121	-0.033	27.536	-0.063	2400	15.1
1200	15.000	39.289	30.473	39.286	0.003	30.452	0.021	39.305	-0.016	30.496	-0.023	2600	15.4
1300	15.000	40.400	33.473	40.400	0.000	33.458	0.015	40.406	-0.006	33.467	0.006	2800	15.7
1400	15.000	41.435	36.473	41.438	-0.003	36.469	0.004	41.435	0.000	36.449	0.024	3000	16.1
1500	15.000	42.403	39.473	42.410	-0.007	39.479	-0.006	42.400	0.003	39.439	0.034	3200	16.4
1600	15.000	43.313	42.473	43.321	-0.008	42.484	-0.011	43.308	0.005	42.437	0.036	3400	16.7
1700	15.000	44.170	45.473	44.178	-0.008	45.482	-0.009	44.167	0.003	45.440	0.033	3600	17.1
1800	15.000	44.981	48.473	44.987	-0.006	48.476	-0.003	44.980	0.001	48.448	0.025	3800	17.4
1900	15.000	45.750	51.473	45.754	-0.004	51.467	0.006	45.753	-0.003	51.461	0.012	4000	17.8
2000	15.000	46.482	54.473	46.485	-0.003	54.463	0.010	46.489	-0.007	54.478	-0.005	4200	18.1
2100	15.000	47.180	57.473	47.185	-0.005	57.472	0.001	47.191	-0.011	57.499	-0.026	4400	18.4
												4600	18.8
												4800	19.1
												5000	19.4

ZIRCONIUM NITRIDE

(C) N 1ZR 1

661

MOL. WT. = 105.220 BLOCK = 1860 NO. POINT = 52

DATA FROM 0 TO 5000 K HFORM(KCAL/(MOLE)) = -87.300 KEY = 358

FITS FOR NOTS RMS = 0.003350

1 7 1 40 0 0 0 0 0 0 0 ZIRCONIUM NITRIDE (C) 30J 661 358
+1.1079267E+1+1.7094278E+0-1.2154027E-2+1.4882041E-3 400 5000 31J 661 358
-1.6792297E-1-9.1250915E+1+2.1225830E+1-8.7299987E+1NZR(C) 32J 661 358

FITS FOR EST RMS LOW = 0.001222 RMS HIGH = 0.001222

1 7 1 40 0 0 0 0 0 0 0 ZIRCONIUM NITRIDE (C) 30NZR\$
-872999+5+369543+5+111003+2+168003-2-175232+6+384929+2 4005000J 66131NZR\$
-872999+5+369543+5+111003+2+168003-2-175232+6+384929+2 4005000J 66132NZR\$

H	-----NOTS-----								-----EST-----					
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M		
42	400	10.697	12.285	1.041	12.282	0.003	1.037	0.004	12.297	-0.012	1.047	-0.006		
83	600	11.630	16.826	3.287	16.823	0.003	3.283	0.004	16.829	-0.003	3.289	-0.002		
91	800	12.175	20.251	5.671	20.249	0.002	5.667	0.004	20.252	-0.001	5.672	-0.001		
33	1000	12.608	23.015	8.150	23.014	0.001	8.147	0.003	23.016	-0.001	8.150	-0.000		
40	1200	12.997	25.349	10.711	25.348	0.001	10.709	0.002	25.349	0.000	10.711	0.000		
09	1400	13.364	27.380	13.348	27.379	0.001	13.346	0.002	27.380	0.000	13.347	0.001		
17	1600	13.721	29.188	16.056	29.187	0.001	16.055	0.001	29.188	0.000	16.055	0.001		
06	1800	14.071	30.824	18.835	30.824	-0.000	18.835	0.000	30.824	0.000	18.834	0.001		
44	2000	14.417	32.325	21.684	32.325	0.000	21.684	0.000	32.324	0.001	21.683	0.001		
19	2200	14.760	33.714	24.601	33.715	-0.001	24.602	-0.001	33.714	-0.001	24.601	0.000		
63	2400	15.102	35.013	27.587	35.014	-0.001	27.589	-0.002	35.013	-0.000	27.587	-0.000		
23	2600	15.443	36.236	30.642	36.237	-0.001	30.643	-0.001	36.236	0.000	30.642	0.000		
06	2800	15.782	37.392	33.764	37.394	-0.002	33.766	-0.002	37.393	-0.001	33.764	-0.000		
24	3000	16.121	38.493	36.954	38.494	-0.001	36.956	-0.002	38.493	0.000	36.954	-0.000		
34	3200	16.459	39.544	40.212	39.545	-0.001	40.214	-0.002	39.544	-0.000	40.212	-0.000		
36	3400	16.797	40.552	43.538	40.553	-0.001	43.539	-0.001	40.552	-0.000	43.538	-0.000		
33	3600	17.135	41.522	46.931	41.522	-0.000	46.932	-0.001	41.522	0.000	46.931	-0.000		
25	3800	17.472	42.457	50.392	42.458	-0.001	50.392	0.000	42.457	-0.000	50.392	0.000		
12	4000	17.809	43.362	53.920	43.362	-0.000	53.919	0.001	43.362	-0.000	53.920	-0.000		
05	4200	18.146	44.239	57.516	44.239	-0.000	57.515	0.001	44.239	-0.000	57.516	0.000		
26	4400	18.483	45.091	61.179	45.091	-0.000	61.178	0.001	45.091	-0.000	61.179	0.000		
	4600	18.820	45.920	64.909	45.920	-0.000	64.908	0.001	45.920	-0.000	64.909	-0.000		
	4800	19.157	46.728	68.707	46.729	-0.001	68.707	0.000	46.728	-0.000	68.707	0.000		
	5000	19.493	47.517	72.572	47.518	-0.001	72.573	-0.001	47.517	-0.000	72.572	0.000		

ZIR
MO
DATA
FITS
7
.468
1.501

FITS
1 7
9488
9488

T
K
400 1
600 1
800 1
1000 1
1200 1
1400 1
1600 1
1800 1
2000 1
2200 1
2400 1
2600 1
2800 1
3000 1
3200 1
3400 1
3600 1
3800 1
4000 1
4200 1
4400 1
4600 1
4800 1
5000 1

NITROC
MOL.
DATA FF
FITS FC

$$\begin{array}{r} 270 \\ +7.616622 \\ -3.754425 \end{array}$$

FITS FO
2 7 0
+000000+0
+000000+0

T K	C C/H
400	6.9
600	7.1
800	7.5
1000	7.8
1200	8.0
1400	8.2
1600	8.3
1800	8.5
2000	8.6
2200	8.6
2400	8.7
2600	8.7
2800	8.8
3000	8.8
3000	8.8
3200	8.8
3400	8.9
3600	8.9
3800	8.9
4000	8.9
4200	9.0
4400	9.0
4600	9.0
4800	9.0
5000	9.0
5200	9.0
5400	9.1
5600	9.1
5800	9.1
6000	9.1

NITROGEN, DIATOMIC

(R)

N 2

965

MOL. WT.= 28.010

BLOCK= 1871

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 0.000 KEY = 360

FITS FOR NOTS RMS = 0.011373

2 7 0 0 0 0 0 0 0 0 0 NITROGEN, DIATOMIC (R) 10J 965 360
 +7.6166229E+0+8.1346404E-1-1.6560763E-1+1.2319691E-2 400 6000 11J 965 360
 -3.7544250E-1-3.2325897E+0+5.3566192E+1+0.0000000E+0N2 (R) 12J 965 360

FITS FOR EST RMS LOW = 0.019038 RMS HIGH = 0.003312

2 7 0 0 0 0 0 0 0 0 0 NITROGEN, DIATOMIC (R) 10N2
 +000000+0+221745+5+810799+1+289888-3-472912+6+637649+2 4003000J 96511N2
 +000000+0+221661+5+881933+1+624368-4-138912+7+637649+230006000J 96512N2

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
18	400	6.990	47.818	0.710	48.073	-0.255	0.814	-0.104	48.126	-0.308	0.837	-0.127
12	600	7.196	50.685	2.125	50.656	0.029	2.098	0.027	50.650	0.035	2.094	0.031
5	800	7.512	52.798	3.596	52.760	0.038	3.563	0.033	52.754	0.044	3.559	0.037
10	1000	7.815	54.507	5.129	54.489	0.018	5.114	0.015	54.488	0.019	5.114	0.015
19	1200	8.061	55.955	6.718	55.949	0.006	6.717	0.001	55.952	0.003	6.721	-0.003
16	1400	8.252	57.212	8.350	57.213	-0.001	8.356	-0.006	57.216	-0.004	8.361	-0.011
13	1600	8.398	58.324	10.015	58.326	-0.002	10.024	-0.009	58.328	-0.004	10.028	-0.013
11	1800	8.512	59.320	11.707	59.321	-0.001	11.714	-0.007	59.322	-0.002	11.715	-0.008
13	2000	8.601	60.222	13.418	60.221	0.001	13.423	-0.005	60.220	0.002	13.421	-0.003
18	2200	8.672	61.045	15.146	61.043	0.002	15.148	-0.002	61.041	0.004	15.142	0.004
11	2400	8.731	61.802	16.886	61.799	0.003	16.886	0.000	61.797	0.005	16.880	0.006
10	2600	8.779	62.503	18.638	62.499	0.004	18.635	0.003	62.497	0.006	18.631	0.007
17	2800	8.820	63.155	20.398	63.151	0.004	20.394	0.004	63.151	0.004	20.396	0.002
11	3000	8.855	63.765	22.165	63.761	0.004	22.162	0.003	63.765	0.000	22.174	-0.010
25	3000	8.855	63.765	22.165	63.761	0.004	22.162	0.003	63.765	0.000	22.166	-0.001
17	3200	8.886	64.337	23.939	64.334	0.003	23.937	0.002	64.337	-0.000	23.940	-0.001
10	3400	8.914	64.877	25.719	64.873	0.004	25.718	0.001	64.877	0.000	25.719	-0.000
14	3600	8.939	65.387	27.505	65.384	0.003	27.505	0.000	65.387	0.000	27.504	0.001
12	3800	8.962	65.871	29.295	65.868	0.003	29.296	-0.001	65.871	0.000	29.294	0.001
17	4000	8.983	66.331	31.089	66.329	0.002	31.091	-0.002	66.331	0.000	31.088	0.001
10	4200	9.002	66.770	32.888	66.767	0.003	32.890	-0.002	66.770	0.000	32.887	0.001
13	4400	9.021	67.189	34.690	67.187	0.002	34.692	-0.002	67.189	0.000	34.689	0.001
13	4600	9.039	67.591	36.496	67.588	0.003	36.498	-0.002	67.590	0.001	36.496	0.000
13	4800	9.057	67.976	38.306	67.973	0.003	38.306	-0.000	67.975	0.001	38.306	0.000
10	5000	9.074	68.346	40.119	68.343	0.003	40.119	0.000	68.346	0.000	40.119	-0.000
16	5200	9.091	68.702	41.935	68.699	0.003	41.934	0.001	68.702	0.000	41.936	-0.001
10	5400	9.109	69.045	43.755	69.042	0.003	43.753	0.002	69.045	-0.000	43.756	-0.001
18	5600	9.127	69.377	45.579	69.374	0.003	45.577	0.002	69.377	0.000	45.580	-0.001
18	5800	9.145	69.698	47.406	69.695	0.003	47.406	0.000	69.697	0.001	47.406	-0.000
	6000	9.165	70.008	49.237	70.005	0.003	49.240	-0.003	70.008	0.000	49.236	0.001

```

      NIT1
      MOI
      DATA
      FITS
      2 7 :
+2.3277
-1.5100

```

FITS
2 7 3
+197999
+197999

T	K	C
400	17	
600	19	
800	21	
1000	22	
1200	23	
1400	23	
1600	23	
1800	23	
2000	24	
2200	24	
2400	24	
2600	24	
2800	24	
3000	24	
3000	24	
3200	24	
3400	24	
3600	24	
3800	24	
4000	24	
4200	24	
4400	24	
4600	24	
4800	24	
5000	24	
5200	24	
5400	24	
5600	24	
5800	24	
6000	24	

NITROGEN TRIOXIDE

(G) N 20 3

1264

MOL. WT.= 76.010

BLOCK= 1884

NO. POINT = 61

DATA FROM 100 TO 6000 K HFORM(KCAL/(MOLE)) = 19.800 KEY = 362

FITS FOR NOTS RMS = 0.018955

2 7 3 8 0 0 0 0 0 0 0 NITROGEN TRIOXIDE (G) 10J1264 362
 +2.3277130E+1+9.4477260E-1-2.0409446E-1+1.4971923E-2 400 6000 11J1264 362
 -1.5100097E+0+8.5236816E+0+9.5505050E+1+1.9799987E+1N2O3(G) 12J1264 362

FITS FOR EST RMS LOW = 0.029621 RMS HIGH = 0.007486

2 7 3 8 0 0 0 0 0 0 0 NITROGEN TRIOXIDE (G) 10N2O3
 +197999+5+617931+5+238628+2+306276-3-162161+7+123217+3 4003000J126411N2O3
 +197999+5+617858+5+250034+2-241004-4-406374+7+123217+330006000J126412N2O3

---				-----NOTS-----				-----EST-----					
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.168	400	17.385	78.771	1.687	79.257	-0.486	1.881	-0.194	79.318	-0.547	1.909	-0.222	
0.046	600	19.821	86.316	5.425	86.243	0.073	5.363	0.062	86.239	0.077	5.361	0.064	
0.046	800	21.386	92.249	9.558	92.184	0.065	9.502	0.056	92.180	0.069	9.501	0.057	
0.017	1000	22.376	97.136	13.941	97.108	0.028	13.919	0.022	97.110	0.026	13.923	0.018	
-0.005	1200	23.015	101.276	18.485	101.269	0.007	18.485	0.000	101.274	0.002	18.493	-0.008	
-0.015	1400	23.444	104.858	23.134	104.859	-0.001	23.144	-0.010	104.865	-0.007	23.152	-0.018	
-0.015	1600	23.742	108.010	27.854	108.011	-0.001	27.866	-0.012	108.015	-0.005	27.872	-0.018	
-0.010	1800	23.956	110.819	32.625	110.819	-0.000	32.634	-0.009	110.821	-0.002	32.636	-0.011	
-0.002	2000	24.114	113.352	37.433	113.350	0.002	37.438	-0.005	113.349	0.003	37.435	-0.002	
0.005	2200	24.234	115.656	42.268	115.652	0.004	42.269	-0.001	115.649	0.007	42.262	0.006	
0.009	2400	24.327	117.769	47.124	117.763	0.006	47.123	0.001	117.760	0.009	47.114	0.010	
0.008	2600	24.400	119.719	51.997	119.713	0.006	51.994	0.003	119.711	0.008	51.988	0.009	
0.002	2800	24.459	121.529	56.883	121.523	0.006	56.879	0.004	121.524	0.005	56.882	0.001	
-0.011	3000	24.507	123.218	61.780	123.212	0.006	61.776	0.004	123.218	0.000	61.793	-0.013	
-0.003	3000	24.507	123.218	61.780	123.212	0.006	61.776	0.004	123.218	0.000	61.786	-0.006	
-0.001	3200	24.546	124.801	66.686	124.795	0.006	66.683	0.003	124.799	0.001	66.687	-0.001	
0.001	3400	24.579	126.290	71.598	126.285	0.005	71.597	0.001	126.288	0.002	71.597	0.001	
0.002	3600	24.607	127.696	76.517	127.691	0.005	76.517	-0.000	127.693	0.003	76.514	0.003	
0.002	3800	24.630	129.027	81.441	129.023	0.004	81.443	-0.002	129.024	0.003	81.438	0.003	
0.002	4000	24.651	130.291	86.369	130.287	0.004	86.372	-0.003	130.288	0.003	86.366	0.003	
0.001	4200	24.668	131.494	91.301	131.490	0.004	91.304	-0.003	131.491	0.003	91.299	0.002	
0.000	4400	24.683	132.642	96.236	132.638	0.004	96.239	-0.003	132.640	0.002	96.235	0.001	
0.000	4600	24.696	133.740	101.174	133.735	0.005	101.176	-0.002	133.737	0.003	101.174	0.000	
-0.000	4800	24.708	134.791	106.114	134.786	0.005	106.115	-0.001	134.789	0.002	106.115	-0.001	
-0.001	5000	24.718	135.800	111.057	135.795	0.005	111.056	0.001	135.798	0.002	111.058	-0.001	
-0.001	5200	24.728	136.770	116.002	136.764	0.006	115.999	0.003	136.767	0.003	116.003	-0.001	
-0.000	5400	24.736	137.703	120.948	137.697	0.006	120.945	0.003	137.701	0.002	120.949	-0.001	
-0.001	5600	24.743	138.603	125.896	138.597	0.006	125.893	0.003	138.600	0.003	125.896	-0.000	
0.000	5800	24.750	139.471	130.845	139.466	0.005	130.844	0.001	139.469	0.002	130.845	0.000	
0.001	6000	24.756	140.310	135.796	140.306	0.004	135.800	-0.004	140.307	0.003	135.794	0.002	

NITROGEN TETROXIDE (G) N 20 4
 MOL. WT. = 92.010 BLOCK = 1890 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 2.170 KEY = 363
 ITS FOR NOTS RMS = 0.024184
 7 4 8 0 0 0 0 0 0 NITROGEN TETROXIDE (G) 10J 964 363
 .9890441E+1+1.1550216E+0-2.5002032E-1+1.8366560E-2 400 6000 11J 964 363
 .1369628E+0-1.2940642E+1+9.9439208E+1+2.1699991E+0N204 (G) 12J 964 363

ITS FOR EST RMS LOW = 0.037359 RMS HIGH = 0.009499
 7 4 8 0 0 0 0 0 0 NITROGEN TETROXIDE (G) 10N204
 16999+4+786132+5+306012+2+375775-3-226918+7+134908+3 4003000J 96411N204
 16999+4+786042+5+320097+2-315661-4-532761+7+134908+330006000J 96412N204

NITRO
 MOL.
 DATA P
 FITS P
 2 7 5
 +3.55408
 -1.79370
 FITS P
 2 7 5
 +269999+
 +269999+

-----NOTS-----													-----EST-----		
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		T		
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		K	C/I	
0	21.157	78.542	2.023	79.171	-0.629	2.275	-0.252	79.239	-0.697	2.306	-0.283		400	26.1	
0	24.860	87.881	6.655	87.788	0.093	6.576	0.079	87.782	0.099	6.573	0.082		600	30.1	
0	27.113	95.369	11.871	95.286	0.083	11.802	0.069	95.282	0.087	11.800	0.071		800	32.1	
0	28.492	101.579	17.443	101.544	0.035	17.416	0.027	101.547	0.032	17.421	0.022		1000	33.1	
0	29.367	106.857	23.235	106.847	0.010	23.236	-0.001	106.855	0.002	23.245	-0.010		1200	34.1	
0	29.946	111.430	29.170	111.430	-0.000	29.183	-0.013	111.438	-0.008	29.193	-0.023		1400	34.1	
0	30.345	115.457	35.201	115.458	-0.001	35.217	-0.016	115.464	-0.007	35.223	-0.022		1600	35.0	
0	30.630	119.048	41.300	119.048	0.000	41.313	-0.013	119.050	-0.002	41.314	-0.014		1800	35.1	
0	30.840	122.287	47.448	122.284	0.003	47.455	-0.007	122.283	0.004	47.451	-0.003		2000	35.1	
0	30.999	125.234	53.633	125.228	0.006	53.635	-0.002	125.226	0.008	53.626	0.007		2200	35.1	
0	31.121	127.937	59.845	127.929	0.008	59.843	0.002	127.926	0.011	59.833	0.012		2400	35.1	
0	31.218	130.432	66.080	130.423	0.009	66.075	0.005	130.421	0.011	66.068	0.012		2600	35.1	
0	31.295	132.748	72.331	132.740	0.008	72.326	0.005	132.741	0.007	72.329	0.002		2800	35.1	
0	31.358	134.909	78.597	134.901	0.008	78.592	0.005	134.909	0.000	78.613	-0.016		3000	35.1	
0	31.358	134.909	78.597	134.901	0.008	78.592	0.005	134.909	0.000	78.604	-0.007		3000	35.1	
0	31.410	136.935	84.874	136.927	0.008	84.871	0.003	136.933	0.002	84.876	-0.002		3200	35.1	
0	31.454	138.841	91.161	138.833	0.008	91.159	0.002	138.837	0.004	91.159	0.002		3400	35.1	
0	31.490	140.639	97.455	140.633	0.006	97.456	-0.001	140.636	0.003	97.452	0.003		3600	35.1	
0	31.521	142.343	103.756	142.337	0.006	103.759	-0.003	142.339	0.004	103.752	0.004		3800	35.1	
0	31.547	143.960	110.063	143.955	0.005	110.067	-0.004	143.957	0.003	110.059	0.003		4000	35.1	
0	31.570	145.500	116.375	145.495	0.005	116.380	-0.005	145.497	0.003	116.372	0.003		4200	35.1	
0	31.590	146.969	122.691	146.964	0.005	122.695	-0.004	146.966	0.003	122.689	0.002		4400	35.1	
0	31.607	148.374	129.011	148.368	0.006	129.014	-0.003	148.371	0.003	129.010	0.001		4600	35.1	
0	31.623	149.719	135.334	149.713	0.006	135.335	-0.001	149.716	0.003	135.334	-0.000		4800	35.1	
0	31.636	151.011	141.660	151.004	0.007	141.659	0.001	151.008	0.003	141.661	-0.001		5000	35.1	
0	31.648	152.252	147.988	152.244	0.008	147.985	0.003	152.249	0.003	147.990	-0.002		5200	35.1	
0	31.659	153.446	154.319	153.439	0.007	154.315	0.004	153.443	0.003	154.320	-0.001		5400	35.1	
0	31.668	154.598	160.652	154.590	0.008	160.648	0.004	154.595	0.003	160.652	-0.000		5600	35.1	
0	31.677	155.709	166.986	155.702	0.007	166.985	0.001	155.706	0.003	166.985	0.001		5800	35.1	
0	31.685	156.783	173.322	156.778	0.005	173.328	-0.006	156.780	0.003	173.319	0.003		6000	35.1	

NITROGEN PENTOXIDE

(G) N 20 5

1264

MOL. WT. = 108.010

BLOCK = 1896

NO. POINT = 60

DATA FROM 200 TO 6000 K HFORM(KCAL/(MOLE)) = 2.700 KEY = 364

FITS FOR NOTS RMS = 0.009663

2 7 5 8 0 0 0 0 0 0 0 NITROGEN PENTOXIDE (G) 10J1264 364
 +3.5540817E+1+1.6160738E-1-3.8690127E-2+3.0879927E-3 400 6000 11J1264 364
 -1.7937011E+0-1.3383984E+1+1.1723410E+2+2.6999998E+0N205 (G) 12J1264 364

FITS FOR EST RMS LOW = 0.012664 RMS HIGH = 0.010757

2 7 5 8 0 0 0 0 0 0 0 NITROGEN PENTOXIDE (G) 10N205
 +269999+4+915788+5+356385+2+459077-4-181108+7+156719+3 4003000J126411N205
 +269999+4+915847+5+360216+2-356538-4-353536+7+156719+330006000J126412N205

-----NOTS-----														-----EST-----				
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH						
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M						
5 -0.283	400	26.494	90.077	2.530	90.335	-0.258	2.629	-0.099	90.351	-0.274	2.640	-0.110						
3 0.082	600	30.684	101.713	8.298	101.660	0.053	8.256	0.042	101.667	0.046	8.263	0.035						
0 0.071	800	32.744	110.856	14.664	110.822	0.034	14.636	0.028	110.828	0.028	14.642	0.022						
1 0.022	1000	33.806	118.289	21.331	118.274	0.015	21.319	0.012	118.280	0.009	21.325	0.006						
5 -0.010	1200	34.410	124.509	28.156	124.505	0.004	28.155	0.001	124.510	-0.001	28.161	-0.005						
3 -0.023	1400	34.782	129.842	35.077	129.841	0.001	35.080	-0.003	129.846	-0.004	35.085	-0.008						
3 -0.022	1600	35.027	134.503	42.060	134.502	0.001	42.061	-0.001	134.506	-0.003	42.065	-0.005						
4 -0.014	1800	35.177	138.638	49.080	138.635	0.003	49.081	-0.001	138.639	-0.001	49.083	-0.003						
1 -0.003	2000	35.302	142.351	56.129	142.347	0.004	56.127	0.002	142.350	0.001	56.127	0.002						
5 0.007	2200	35.368	145.719	63.196	145.715	0.004	63.193	0.003	145.716	0.003	63.192	0.004						
3 0.012	2400	35.428	148.799	70.275	148.795	0.004	70.274	0.001	148.796	0.003	70.272	0.003						
8 0.012	2600	35.480	151.637	77.366	151.634	0.003	77.367	-0.001	151.635	0.002	77.365	0.001						
9 0.002	2800	35.526	154.268	84.467	154.265	0.003	84.469	-0.002	154.267	0.001	84.468	-0.001						
3 -0.016	3000	35.565	156.720	91.576	156.718	0.002	91.578	-0.002	156.720	0.000	91.579	-0.003						
4 -0.007	3000	35.565	156.720	91.576	156.718	0.002	91.578	-0.002	156.720	0.000	91.585	-0.009						
6 -0.002	3200	35.587	159.016	98.692	159.014	0.002	98.693	-0.001	159.014	0.002	98.693	-0.001						
9 0.002	3400	35.607	161.174	105.811	161.172	0.002	105.813	-0.002	161.171	0.003	105.809	0.002						
2 0.003	3600	35.625	163.209	112.934	163.208	0.001	112.936	-0.002	163.206	0.003	112.931	0.003						
2 0.004	3800	35.642	165.135	120.061	165.134	0.001	120.063	-0.002	165.133	0.002	120.057	0.004						
9 0.003	4000	35.656	166.964	127.191	166.963	0.001	127.193	-0.002	166.961	0.003	127.187	0.004						
2 0.003	4200	35.666	168.704	134.323	168.703	0.001	134.325	-0.002	168.701	0.003	134.320	0.003						
9 0.002	4400	35.676	170.363	141.457	170.362	0.001	141.458	-0.001	170.361	0.002	141.455	0.002						
0 0.001	4600	35.684	171.949	148.593	171.948	0.001	148.594	-0.001	171.947	0.002	148.593	0.000						
4 -0.000	4800	35.692	173.467	155.731	173.467	0.000	155.731	0.000	173.466	0.001	155.731	-0.000						
1 -0.001	5000	35.699	174.924	162.870	174.924	0.000	162.869	0.001	174.924	0.000	162.871	-0.001						
0 -0.002	5200	35.705	176.324	170.011	176.324	0.000	170.009	0.002	176.324	-0.000	170.012	-0.001						
0 -0.001	5400	35.711	177.671	177.152	177.671	-0.000	177.150	0.002	177.672	-0.001	177.153	-0.001						
2 -0.000	5600	35.715	178.970	184.295	178.970	-0.000	184.293	0.002	178.970	-0.000	184.295	-0.000						
5 0.001	5800	35.719	180.223	191.438	180.224	-0.001	191.438	0.000	180.223	-0.000	191.437	0.001						
9 0.003	6000	35.722	181.434	198.582	181.435	-0.001	198.584	-0.002	181.434	-0.000	198.579	0.003						

SILICON NITRIDE, ALPHA (C) N 4SI 3 0 0 0 0 367
 MOL. WT.= 140.280 BLOCK= 1902 NO. POINT = 29
 ATA FROM 298 TO 3000 K HFORN(KCAL/(MOLE)) = -178.000 KEY = 365
 PITS FOR NOTS RMS = 0.013972
 7 3 14 0 0 0 0 0 0 0 SILICON NITRIDE, ALPHA (C) 30J 367 365
 .3244430E+1+3.8131072E+1-1.5585828E+1+2.1437034E+0 400 3000 31J 367 365
 .7547607E-3-1.8345315E+2+3.2502822E+1-1.7800000E+2N4SI3 (C) 32J 367 365

PITS FOR EST RMS LOW = 0.182712 RMS HIGH = 0.182712
 7 3 14 0 0 0 0 0 0 0 SILICON NITRIDE, ALPHA (C) 30N4SI3\$
 178000+6+109062+6+442003+2+600626-3-569744+7+110600+3 4003000J 36731N4SI3\$
 178000+6+109062+6+442003+2+600626-3-569744+7+110600+3 4003000J 36732N4SI3\$

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-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T			
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K			
400	26.450	34.367	2.560	34.424	-0.057	2.581	-0.021	37.468	-3.101	3.831	-1.271	400			
500	31.000	45.989	8.324	45.967	0.022	8.307	0.017	45.618	0.371	7.983	0.341	500			
600	34.850	55.450	14.920	55.432	0.018	14.906	0.014	54.992	0.458	14.533	0.387	600			
700	37.800	63.556	22.196	63.556	-0.000	22.199	-0.003	63.373	0.183	22.057	0.139	700			
800	40.270	70.677	30.014	70.688	-0.011	30.030	-0.016	70.681	-0.004	30.080	-0.066	800			
900	42.046	77.026	38.256	77.030	-0.004	38.262	-0.006	77.090	-0.064	38.398	-0.142	900			
1000	43.152	82.720	46.788	82.715	0.005	46.779	0.009	82.772	-0.052	46.909	-0.121	1000			
1100	43.846	87.846	55.493	87.842	0.004	55.487	0.006	87.864	-0.018	55.558	-0.065	1100			
1200	44.320	92.492	64.313	92.490	0.002	64.311	0.002	92.474	0.018	64.310	0.003	1200			
1300	44.482	96.724	73.193	96.725	-0.001	73.198	-0.005	96.684	0.040	73.143	0.050	1300			
1400	44.630	100.601	82.104	100.604	-0.003	82.113	-0.009	100.556	0.045	82.044	0.060	1400			
1500	44.766	104.178	91.044	104.178	-0.000	91.044	-0.000	104.141	0.037	91.001	0.043	1500			
1600	44.890	107.500	100.010	107.496	0.004	100.000	0.010	107.478	0.022	100.009	0.001				
1700	45.000	110.601	108.999	110.604	-0.003	109.008	-0.009	110.601	0.000	109.062	-0.063				

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TRIPHOSPHORUS PENTANITRIDE (C) N 5P 3 0 0 0 0 367

MOL. WT.= 162.950 BLOCK= 1905 NO. POINT = 14

DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -64.000 KEY = 366

FITS FOR NOTS RMS = 0.002818

5 7 3 15 0 0 0 0 0 0 0 TRIPHOSPHORUS PENTANITRIDE (C) 30J 367 366
+3.7989501E+1+5.9579681E+1-4.3012664E+1+1.0451080E+1 400 1500 31J 367 366
-1.5902099E+0-8.2892990E+1+6.5252838E+1-6.4000000E+1N5P3(C) 32J 367 366

FITS FOR EST RMS LOW = 0.018545 RMS HIGH = 0.018545

5 7 3 15 0 0 0 0 0 0 0 TRIPHOSPHORUS PENTANITRIDE (C) 30N5P3\$
-640000+5+170032+6+674400+2-252885-3-390430+7+179462+3 4001500J 36731N5P3\$
-640000+5+170032+6+674400+2-252885-3-390430+7+179462+3 4001500J 36732N5P3\$

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
71	400	46.000	56.017	4.191	56.027	-0.010	4.194	-0.003	56.219	-0.202	4.265	-0.074
41	500	52.000	66.963	9.108	66.950	0.013	9.101	0.007	66.850	0.113	9.046	0.062
87	600	56.000	76.813	14.516	76.813	-0.000	14.517	-0.001	76.735	0.078	14.474	0.042
39	700	59.000	85.684	20.274	85.688	-0.004	20.278	-0.004	85.667	0.017	20.272	0.002
66	800	61.000	93.698	26.279	93.701	-0.003	26.281	-0.002	93.713	-0.015	26.300	-0.021
42	900	62.500	100.975	32.459	100.973	0.002	32.456	0.003	100.991	-0.016	32.480	-0.021
21	1000	63.400	107.609	38.755	107.605	0.004	38.752	0.003	107.613	-0.004	38.766	-0.011
65	1100	64.027	113.682	45.128	113.682	-0.000	45.129	-0.001	113.677	0.005	45.129	-0.001
03	1200	64.500	119.275	51.556	119.278	-0.003	51.559	-0.003	119.262	0.013	51.548	0.008
50	1300	64.820	124.451	58.023	124.452	-0.001	58.024	-0.001	124.434	0.017	58.010	0.013
60	1400	64.987	129.262	64.515	129.259	0.003	64.511	0.004	129.248	0.014	64.506	0.009
43	1500	65.000	133.747	71.015	133.747	-0.000	71.016	-0.001	133.747	0.000	71.027	-0.012
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SODIUM (C) NA 1 662
 MOL. WT.= 22.990 BLOCK= 1913 NO. POINT = 12
 DATA FROM 0 TO 1000 K HFORM(KCAL/(MOLE)) = 0.000 KEY = 368
 FITS FOR NOTS RMS = 0.000062
 1 11 0 0 0 0 0 0 0 0 SODIUM (C) 30J 662 368
 3.0301189E+0-2.3745727E+0+1.9372014E+0-5.2120232E-1 400 1000 31J 662 368
 1.7412376E-2-2.8906574E+0+2.3285552E+1+0.0000000E+0NA (C) 32J 662 368

FITS FOR EST RMS LOW = 0.000121 RMS HIGH = 0.000121
 1 11 0 0 0 0 0 0 0 0 SODIUM (C) 30NAS
 -000000+0+214132+5+807712+1-666428-4-140890+5+304740+2 4001000J 66231NAS
 -000000+0+214132+5+807712+1-666428-4-140890+5+304740+2 4001000J 66232NAS

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T			
K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	K			
400	7.765	14.416	0.738	14.416	-0.000	0.738	0.000	14.416	0.000	0.738	0.000	400			
500	8.000	16.194	1.535	16.194	-0.000	1.535	0.000	16.196	-0.002	1.535	-0.000	500			
600	8.000	17.653	2.335	17.653	0.000	2.335	0.000	17.653	-0.000	2.335	0.000	600			
700	8.000	18.886	3.135	18.886	-0.000	3.135	-0.000	18.886	-0.000	3.135	0.000	700			
800	8.000	19.954	3.935	19.954	-0.001	3.935	-0.000	19.955	-0.001	3.935	-0.000	800			
900	8.000	20.897	4.735	20.897	0.000	4.735	0.000	20.897	-0.000	4.735	-0.000	900			
1000	8.000	21.740	5.535	21.740	0.000	5.535	-0.000	21.740	0.000	5.535	0.000	1000			

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SODIUM (L) NA 1 662
 MOL. WT.= 22.990 BLOCK= 1914 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = 0.575 KEY = 369

FITS FOR NOTS RMS = 0.001317

8 1 11 0 0 0 0 0 0 0 0 SODIUM (L) 20J 662 369
 8 +1.0639161E+1-9.1844081E+0+6.9856681E+0-1.4423866E+0 400 2000 21J 662 369
 8 -7.3958396E-2-2.4908647E+0+2.8743392E+1+5.7499998E-1NA (L) 22J 662 369

FITS FOR EST RMS LOW = 0.008342 RMS HIGH = 0.008342

1 11 0 0 0 0 0 0 0 0 SODIUM (L) 20NA*
 +574999+3+224860+5+410167+1+221917-2+589252+6+318061+2 4002000J 66221NA*
 +574999+3+224860+5+410167+1+221917-2+589252+6+318061+2 4002000J 66222NA*

-----NOTS-----													
-----EST-----													
DB	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
8 0.000	400	7.531	16.083	0.781	16.080	0.003	0.780	0.001	15.963	0.120	0.736	0.045	
5 -0.000	500	7.302	17.738	1.522	17.738	0.000	1.522	-0.000	17.763	-0.025	1.541	-0.019	
5 0.000	600	7.124	19.053	2.243	19.054	-0.001	2.244	-0.001	19.093	-0.040	2.269	-0.026	
5 0.000	700	6.996	20.141	2.949	20.142	-0.001	2.949	-0.000	20.164	-0.023	2.964	-0.015	
5 -0.000	800	6.918	21.069	3.644	21.069	0.000	3.643	0.001	21.075	-0.006	3.646	-0.002	
5 -0.000	900	6.892	21.882	4.334	21.881	0.001	4.333	0.001	21.877	0.005	4.327	0.007	
5 0.000	1000	6.918	22.609	5.024	22.608	0.001	5.023	0.001	22.600	0.009	5.013	0.011	
	1100	6.993	23.272	5.719	23.271	0.000	5.719	-0.000	23.264	0.008	5.710	0.009	
	1200	7.120	23.885	6.425	23.886	-0.001	6.426	-0.001	23.881	0.004	6.420	0.005	
	1300	7.293	24.462	7.145	24.463	-0.001	7.147	-0.002	24.462	0.000	7.145	-0.000	
	1400	7.493	25.009	7.884	25.011	-0.002	7.885	-0.001	25.012	-0.003	7.887	-0.003	
	1500	7.693	25.533	8.644	25.533	-0.000	8.643	0.001	25.536	-0.003	8.647	-0.003	
	1600	7.893	26.036	9.423	26.036	0.000	9.422	0.001	26.039	-0.003	9.426	-0.003	
	1700	8.093	26.521	10.222	26.520	0.001	10.221	0.001	26.522	-0.001	10.224	-0.002	
	1800	8.293	26.989	11.041	26.989	-0.000	11.042	-0.001	26.990	-0.001	11.042	-0.001	
	1900	8.493	27.443	11.881	27.443	-0.000	11.882	-0.001	27.443	0.000	11.880	0.001	
	2000	8.693	27.883	12.740	27.883	-0.000	12.740	0.000	27.883	0.000	12.738	0.002	

SODIUM, MONATOMIC

(G) NA 1

662

MOL. WT.= 22.990 BLOCK= 1916 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 25.755 KEY = 370

FITS FOR NOTS RMS = 0.034682

1 11 0 0 0 0 0 0 0 0 0 SODIUM, MONATOMIC (G) 10J 662 370

.2675027E+0+2.7932338E+0-1.0160408E+0+1.3052552E-1 400 6000 11J 662 370

.5740966E-1+2.6584045E+1+4.0774978E+1+2.5754989E+1NA (G) 12J 662 370

FITS FOR EST RMS LOW = 0.005724 RMS HIGH = 0.195378

1 11 0 0 0 0 0 0 0 0 0 SODIUM, MONATOMIC (G) 10NA

.57549+5+134620+5+484005+1+640584-4+505030+5+481999+2 4003000J 66211NA

.57549+5+133375+5-167691+2+403938-2+966736+8+481999+230006000J 66212NA

-----NOTS-----														-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		C/M-K	C/M-K	KC/M	KC/M
6 0.045	400	4.968	38.174	0.506	37.682	0.492	0.295	0.211	38.126	0.048	0.485	0.021					
1 -0.019	600	4.968	40.188	1.500	40.206	-0.018	1.528	-0.028	40.189	-0.001	1.502	-0.002					
9 -0.026	800	4.968	41.617	2.493	41.687	-0.070	2.555	-0.062	41.625	-0.008	2.500	-0.007					
4 -0.015	1000	4.968	42.726	3.487	42.775	-0.049	3.530	-0.043	42.732	-0.006	3.492	-0.005					
6 -0.002	1200	4.968	43.632	4.481	43.656	-0.024	4.496	-0.015	43.635	-0.003	4.483	-0.002					
7 0.007	1400	4.968	44.398	5.474	44.404	-0.006	5.467	0.007	44.399	-0.001	5.473	0.001					
3 0.011	1600	4.968	45.061	6.468	45.059	0.002	6.448	0.020	45.061	0.000	6.465	0.003					
0 0.009	1800	4.970	45.646	7.462	45.642	0.004	7.438	0.024	45.646	0.000	7.458	0.004					
0 0.005	2000	4.973	46.170	8.456	46.167	0.003	8.434	0.022	46.170	0.000	8.453	0.003					
5 -0.000	2200	4.979	46.644	9.451	46.644	-0.000	9.437	0.014	46.645	-0.001	9.451	0.000					
7 -0.003	2400	4.992	47.078	10.448	47.082	-0.004	10.442	0.006	47.080	-0.002	10.450	-0.002					
7 -0.003	2600	5.013	47.478	11.448	47.486	-0.008	11.451	-0.003	47.481	-0.003	11.452	-0.004					
6 -0.003	2800	5.044	47.851	12.454	47.861	-0.010	12.464	-0.010	47.853	-0.002	12.456	-0.002					
4 -0.002	3000	5.089	48.200	13.467	48.212	-0.012	13.481	-0.014	48.200	0.000	13.462	0.005					
2 -0.001	3200	5.089	48.200	13.467	48.212	-0.012	13.481	-0.014	48.200	0.000	13.338	0.129					
0 0.001	3400	5.148	48.531	14.490	48.542	-0.011	14.505	-0.015	48.576	-0.045	14.502	-0.012					
8 0.002	3600	5.225	48.845	15.527	48.856	-0.011	15.539	-0.012	48.906	-0.061	15.591	-0.064					
	3800	5.324	49.146	16.582	49.156	-0.010	16.589	-0.007	49.207	-0.061	16.645	-0.063					
	4000	5.449	49.437	17.659	49.445	-0.008	17.660	-0.001	49.491	-0.054	17.693	-0.034					
	4200	5.604	49.721	18.763	49.727	-0.006	18.759	0.004	49.765	-0.044	18.762	0.001					
	4400	5.799	49.999	19.903	50.004	-0.005	19.894	0.009	50.035	-0.036	19.872	0.031					
	4600	6.041	50.274	21.086	50.279	-0.005	21.076	0.010	50.307	-0.033	21.038	0.048					
	4800	6.339	50.549	22.323	50.554	-0.005	22.314	0.009	50.582	-0.033	22.275	0.048					
	5000	6.705	50.826	23.626	50.832	-0.006	23.621	0.005	50.862	-0.036	23.594	0.032					
	5200	7.147	51.108	25.010	51.115	-0.007	25.010	-0.000	51.150	-0.042	25.004	0.006					
	5400	7.674	51.399	26.490	51.407	-0.008	26.496	-0.006	51.446	-0.047	26.514	-0.024					
	5600	8.294	51.700	28.066	51.708	-0.008	28.094	-0.008	51.751	-0.051	28.131	-0.045					
	5800	9.009	52.014	29.814	52.022	-0.008	29.821	-0.007	52.065	-0.051	29.859	-0.045					
	6000	9.818	52.344	31.696	52.351	-0.007	31.696	-0.000	52.389	-0.045	31.706	-0.010					
	6200	10.716	52.692	33.748	52.697	-0.005	33.738	0.010	52.723	-0.031	33.674	0.074					

SODIUM MONOXIDE (G) NA 10 1 0 0 0 0 1267
 MOL. WT.= 38.980 BLOCK= 1923 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 20.000 KEY = 371
 FITS FOR NOTS RMS = 0.001742
 1 8 1 11 0 0 0 0 0 0 SODIUM MONOXIDE (G) 10J1267 371
 +8.9502735E+0+1.9527769E-1+7.0055341E-4-2.6898880E-5 400 6000 11J1267 371
 -6.6970825E-2+1.7108642E+1+6.5166595E+1+2.0000000E+1NAO(G) 12J1267 371

FITS FOR EST RMS LOW = 0.000642 RMS HIGH = 0.003215
 1 8 1 11 0 0 0 0 0 0 SODIUM MONOXIDE (G) 10NAO
 +200000+5+248657+5+893993+1+200447-3-626720+5+755919+2 4003000J126711NAO
 +200000+5+248683+5+901817+1+188630-3-552640+6+755919+230006000J126712NAO

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.021	400	8.656	57.245	0.870	57.253	-0.008	0.872	-0.002	57.250	-0.005	0.872	-0.002	
-0.002	600	8.888	60.806	2.628	60.805	0.001	2.626	0.002	60.806	-0.000	2.628	0.000	
-0.007	800	9.002	63.380	4.418	63.378	0.002	4.415	0.003	63.380	-0.000	4.417	0.000	
-0.005	1000	9.077	65.397	6.226	65.396	0.001	6.224	0.002	65.397	-0.000	6.226	0.000	
-0.002	1200	9.137	67.058	8.048	67.056	0.002	8.046	0.002	67.058	0.000	8.048	0.000	
0.001	1400	9.188	68.470	9.880	68.469	0.001	9.879	0.001	68.470	-0.000	9.880	-0.000	
0.003	1600	9.236	69.700	11.723	69.700	0.000	11.722	0.001	69.700	-0.000	11.723	0.000	
0.004	1800	9.281	70.791	13.575	70.790	0.001	13.574	0.001	70.791	0.000	13.574	0.001	
0.003	2000	9.325	71.771	15.435	71.771	0.000	15.435	0.000	71.771	-0.000	15.435	-0.000	
0.000	2200	9.368	72.662	17.305	72.662	0.000	17.305	0.000	72.662	0.000	17.304	0.001	
-0.002	2400	9.410	73.478	19.182	73.479	-0.001	19.183	-0.001	73.479	-0.001	19.182	-0.000	
-0.004	2600	9.452	74.233	21.069	74.234	-0.001	21.069	0.000	74.234	-0.001	21.069	0.000	
-0.002	2800	9.493	74.935	22.963	74.936	-0.001	22.963	-0.000	74.936	-0.001	22.963	-0.000	
0.005	3000	9.534	75.592	24.866	75.592	0.000	24.866	-0.000	75.592	0.000	24.866	0.000	
0.129	3000	9.534	75.592	24.866	75.592	0.000	24.866	-0.000	75.592	0.000	24.868	-0.002	
-0.012	3200	9.575	76.208	26.777	76.209	-0.001	26.777	-0.000	76.208	-0.000	26.777	-0.000	
-0.064	3400	9.616	76.790	28.696	76.790	-0.000	28.696	-0.000	76.789	0.001	28.695	0.001	
-0.063	3600	9.656	77.341	30.623	77.341	0.000	30.623	-0.000	77.340	0.001	30.622	0.001	
-0.034	3800	9.697	77.864	32.558	77.864	-0.000	32.559	-0.001	77.863	0.001	32.557	0.001	
0.001	4000	9.737	78.362	34.502	78.363	-0.001	34.502	0.000	78.362	0.000	34.501	0.001	
0.031	4200	9.777	78.838	36.453	78.839	-0.001	36.453	-0.000	78.838	0.000	36.452	0.001	
0.048	4400	9.818	79.294	38.413	79.294	-0.000	38.413	0.000	79.294	0.000	38.412	0.001	
0.048	4600	9.858	79.731	40.380	79.732	-0.001	40.380	-0.000	79.731	0.000	40.380	-0.000	
0.032	4800	9.898	80.152	42.356	80.152	0.000	42.356	0.000	80.151	0.001	42.356	-0.000	
0.006	5000	9.938	80.557	44.340	80.557	0.000	44.339	0.001	80.556	0.001	44.340	-0.000	
-0.024	5200	9.979	80.947	46.331	80.947	-0.000	46.331	0.000	80.947	0.000	46.332	-0.001	
-0.045	5400	10.019	81.325	48.331	81.325	0.000	48.331	0.000	81.324	0.001	48.331	-0.001	
-0.045	5600	10.059	81.690	50.339	81.690	0.000	50.338	0.001	81.689	0.001	50.339	0.000	
-0.010	5800	10.099	82.043	52.354	82.044	-0.001	52.354	-0.000	82.043	0.000	52.354	-0.000	
0.074	6000	10.139	82.386	54.378	82.387	-0.001	54.378	-0.000	82.386	0.000	54.377	0.001	

SODIUM, DIATOMIC (G) NA 2
 MOL. WT. = 45.980 BLOCK = 1929 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 32.870 KEY = 372
 FITS FOR NOTS RMS = 0.001669
 11 0 0 0 0 0 0 0 0 SODIUM, DIATOMIC (G) 10J 662 372
 .3536542E+0+3.7987327E-1+5.6779198E-4+5.3797775E-6 400 6000 11J 662 372
 .3626098E-2+3.0141830E+1+6.5654296E+1+3.2869995E+1NA2(G) 12J 662 372

FITS FOR EST RMS LOW = 0.000630 RMS HIGH = 0.003366
 11 0 0 0 0 0 0 0 0 SODIUM, DIATOMIC (G) 10NA2
 28699+5+258514+5+894523+1+384139-3-104480+5+766339+2 4003000J 66211NA2
 28699+5+258536+5+901272+1+374819-3-459440+6+766339+230006000J 66212NA2

SODIUM, DIATOMIC
 DATA
 FITS
 1 8 2
 -3.4111
 +2.8427
 FITS
 1 8 2
 -998999
 -998999

-----NOTS-----														-----EST-----					
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH								
/M	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	T	C						
002												400	18						
000	9.043	57.640	0.917	57.645	-0.005	0.918	-0.001	57.644	-0.004	0.919	-0.002	400	18						
000	9.150	61.328	2.737	61.327	0.001	2.735	0.002	61.329	-0.001	2.737	-0.000	500	19						
000	9.237	63.973	4.576	63.971	0.002	4.573	0.003	63.973	-0.000	4.576	0.000	600	20						
000	9.319	66.043	6.432	66.041	0.002	6.429	0.003	66.043	0.000	6.431	0.001	700	21						
000	9.399	67.749	8.303	67.748	0.001	8.301	0.002	67.749	-0.000	8.303	-0.000	800	21						
000	9.477	69.204	10.191	69.203	0.001	10.189	0.002	69.204	0.000	10.191	0.000	900	22						
001	9.555	70.474	12.094	70.474	0.000	12.093	0.001	70.475	-0.001	12.094	-0.000	1000	22						
000	9.633	71.604	14.013	71.604	0.000	14.012	0.001	71.605	-0.001	14.013	-0.000	1100	23						
001	9.711	72.623	15.948	72.623	-0.000	15.947	0.001	72.624	-0.001	15.948	0.000	1200	23						
000	9.788	73.552	17.897	73.552	-0.000	17.897	-0.000	73.553	-0.001	17.897	-0.001	1300	23						
000	9.865	74.407	19.863	74.407	-0.000	19.863	0.000	74.408	-0.001	19.863	0.000	1400	23						
000	9.942	75.200	21.844	75.200	-0.000	21.844	0.000	75.200	-0.000	21.844	0.000	1500	24						
000	10.020	75.940	23.840	75.940	0.000	23.840	-0.000	75.940	-0.000	23.840	0.000	1600	24						
002	10.097	76.634	25.851	76.634	0.000	25.852	-0.001	76.634	0.000	25.851	-0.000	1700	24						
000	10.097	76.634	25.851	76.634	0.000	25.852	-0.001	76.634	0.000	25.854	-0.003	1800	24						
001	10.174	77.288	27.878	77.288	0.000	27.879	-0.001	77.288	0.000	27.879	-0.001	1900	24						
001	10.251	77.907	29.921	77.907	-0.000	29.922	-0.001	77.906	0.001	29.921	0.000	2000	25						
001	10.328	78.495	31.979	78.495	-0.000	31.979	-0.000	78.494	0.001	31.978	0.001								
001	10.405	79.055	34.052	79.056	-0.001	34.053	-0.001	79.055	0.000	34.051	0.001								
001	10.482	79.591	36.141	79.591	-0.000	36.141	-0.000	79.590	0.001	36.140	0.001								
001	10.559	80.104	38.245	80.105	-0.001	38.245	-0.000	80.104	0.000	38.244	0.001								
000	10.636	80.597	40.365	80.598	-0.001	40.365	0.000	80.597	0.000	40.364	0.001								
000	10.713	81.072	42.500	81.072	0.000	42.500	0.000	81.071	0.001	42.500	0.000								
000	10.790	81.529	44.650	81.530	-0.001	44.650	0.000	81.529	-0.000	44.650	-0.000								
000	10.868	81.971	46.816	81.972	-0.001	46.816	0.000	81.971	-0.000	46.816	-0.000								
001	10.945	82.399	48.997	82.399	-0.000	48.997	0.000	82.399	0.000	48.998	-0.001								
001	11.022	82.814	51.194	82.814	0.000	51.194	0.000	82.813	0.001	51.194	-0.000								
000	11.099	83.216	53.406	83.216	-0.000	53.406	0.000	83.216	0.000	53.406	-0.000								
000	11.176	83.607	55.633	83.607	0.000	55.633	-0.000	83.606	0.001	55.633	-0.000								
001	11.253	83.987	57.876	83.987	-0.000	57.876	-0.000	83.986	0.001	57.875	0.001								

SODIUM OXIDE

(C)

NA 20 1 0 0 0 0

668

MOL. WT. = 61.970 BLOCK = 1935 NO. POINT = 22

DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -99.900 KEY = 373

FITS FOR NOTS RMS = 0.522230

1 8 2 11 0 0 0 0 0 0 0 SODIUM OXIDE (C) 30J 668 373
-3.4118676E+2+6.9848974E+2-4.5513330E+2+9.8259460E+1 400 2000 31J 668 373
+2.8427856E+1+6.2054306E+1-4.4747436E+2-9.9899993E+1NA20 (C) 32J 668 373

FITS FOR EST RMS LOW = 0.665170 RMS HIGH = 0.665170

1 8 2 11 0 0 0 0 0 0 0 SODIUM OXIDE (C) 30NA20\$
-998999+5+589634+5+487315+2-119854-1-827345+7+683908+2 4002000J 66831NA20\$
-998999+5+589634+5+487315+2-119854-1-827345+7+683908+2 4002000J 66832NA20\$

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
002	400	18.111	23.017	1.765	21.396	1.621	1.208	0.557	26.759	-3.742	3.163	-1.398
000	500	19.478	27.212	3.648	28.609	-1.397	4.388	-0.740	27.127	0.085	3.360	0.288
000	600	20.485	30.856	5.648	31.573	-0.717	6.005	-0.357	29.757	1.099	4.816	0.832
001	700	21.236	34.073	7.735	33.879	0.194	7.503	0.232	33.022	1.051	6.940	0.795
000	800	21.819	36.948	9.889	36.368	0.580	9.373	0.516	36.352	0.596	9.437	0.452
000	900	22.291	39.546	12.055	39.114	0.432	11.708	0.387	39.536	0.010	12.143	-0.048
000	1000	22.686	41.915	14.345	41.988	-0.073	14.438	-0.093	42.502	-0.587	14.958	-0.613
000	1100	23.029	44.504	17.051	44.837	-0.333	17.429	-0.378	45.230	-0.726	17.820	-0.769
000	1200	23.334	46.521	19.369	47.538	-1.017	20.534	-1.165	47.726	-1.205	20.688	-1.319
001	1300	23.611	50.693	24.567	50.007	0.686	23.618	0.949	50.003	0.690	23.533	1.034
000	1400	23.867	52.452	26.941	52.203	0.249	26.580	0.361	52.078	0.374	26.334	0.607
000	1500	24.108	54.107	29.339	54.120	-0.013	29.358	-0.019	53.970	0.137	29.075	0.264
000	1600	24.336	55.670	31.762	55.784	-0.114	31.935	-0.173	55.694	-0.024	31.746	0.016
000	1700	24.554	57.152	34.206	57.245	-0.093	34.344	-0.138	57.265	-0.113	34.337	-0.131
003	1800	24.765	58.561	36.672	58.575	-0.014	36.672	0.000	58.697	-0.136	36.842	-0.170
001	1900	24.969	59.906	39.159	59.865	0.041	39.057	0.102	60.003	-0.097	39.256	-0.097
000	2000	25.169	61.192	41.666	61.217	-0.025	41.695	-0.030	61.192	0.000	41.574	0.092

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-7.01

FIT:
3 8
-3731
-3731

-----EST-----

[illegible]

SODIUM METASILICATE (C) NA 20 3SI 1 0 0 0 967

MOL. WT.= 122.060 BLOCK= 1940 NO. POINT = 27

DATA FROM 0 TO 2500 K HFORM(KCAL/(MOLE)) = -373.190 KEY = 375

FITS FOR NOTS RMS = 0.007014

3 8 2 11 1 14 0 0 0 0 0 SODIUM METASILICATE (C) 30J 967 375
+2.9419235E+1+1.4875444E+1-3.6450777E+0+5.3005075E-1 400 2500 31J 967 375
-7.0169067E-1-3.8490185E+2+5.4725357E+1-3.7318994E+2NA2O3SI(C) 32J 967 375

FITS FOR EST RMS LOW = 0.030615 RMS HIGH = 0.030615

3 8 2 11 1 14 0 0 0 0 0 SODIUM METASILICATE (C) 30NA2O3SI\$
-373189+6+121737+6+356524+2+670152-2-169710+7+120105+3 4002500J 96731NA2O3SI\$
-373189+6+121737+6+356524+2+670152-2-169710+7+120105+3 4002500J 96732NA2O3SI\$

-----NOTS-----										-----EST-----			
	T	CP	S	H	SC	DS	HC	DH		SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M		C/M-K	C/M-K	KC/M	KC/M
3	400	30.540	35.640	2.931	35.631	0.009	2.926	0.005		36.054	-0.414	3.098	-0.167
1	500	33.154	42.750	6.122	42.741	0.009	6.117	0.005		42.771	-0.021	6.116	0.006
0	600	35.161	48.979	9.542	48.979	-0.000	9.541	0.001		48.904	0.075	9.484	0.058
0	700	36.794	54.525	13.142	54.529	-0.004	13.144	-0.002		54.445	0.080	13.081	0.061
1	800	38.181	59.531	16.892	59.533	-0.002	16.893	-0.001		59.470	0.061	16.846	0.046
0	900	39.398	64.100	20.772	64.099	0.001	20.771	0.001		64.061	0.039	20.745	0.027
0	1000	40.493	68.308	24.768	68.306	0.002	24.764	0.004		68.288	0.020	24.758	0.010
0	1100	41.498	72.215	28.868	72.212	0.003	28.864	0.004		72.209	0.006	28.873	-0.005
0	1200	42.433	75.867	33.065	75.864	0.003	33.061	0.004		75.870	-0.003	33.080	-0.015
0	1300	43.315	79.298	37.352	79.298	0.000	37.352	0.000		79.306	-0.008	37.374	-0.023
0	1400	44.153	82.539	41.726	82.541	-0.002	41.729	-0.003		82.549	-0.010	41.751	-0.025
0	1500	44.957	85.613	46.182	85.618	-0.005	46.190	-0.008		85.624	-0.011	46.207	-0.025
0	1600	45.733	88.538	50.714	88.548	-0.010	50.730	-0.016		88.549	-0.011	50.741	-0.027
0	1700	46.785	91.345	55.345	91.347	-0.002	55.346	-0.001		91.343	0.002	55.349	-0.004
	1800	47.218	94.030	60.043	94.027	0.003	60.036	0.007		94.019	0.011	60.032	0.011
	1900	47.934	96.602	64.801	96.601	0.001	64.797	0.004		96.590	0.012	64.787	0.014
	2000	48.635	99.079	69.629	99.079	-0.000	69.628	0.001		99.066	0.013	69.614	0.015
	2100	49.325	101.468	74.527	101.469	-0.001	74.528	-0.001		101.456	0.012	74.513	0.014
	2200	50.003	103.779	79.494	103.780	-0.001	79.494	-0.000		103.767	0.012	79.482	0.011
	2300	50.673	106.016	84.528	106.017	-0.001	84.528	0.000		106.008	0.008	84.522	0.006
	2400	51.334	108.187	89.628	108.188	-0.001	89.628	0.000		108.182	0.005	89.631	-0.003
	2500	51.988	110.296	94.794	110.296	-0.000	94.794	-0.000		110.296	0.000	94.810	-0.016

SODIUM METASILICATE (L) NA 20 3SI 1 0 0 0 967
 MOL. WT.= 122.060 BLOCK= 1943 NO. POINT = 24
 DATA FROM 298 TO 2500 K HFORM(KCAL/(MOLE)) = -361.107 KEY = 376
 FITS FOR NOTS RMS = 0.057657
 3 8 2 11 1 14 0 0 0 0 0 SODIUM METASILICATE (L) 20J 967 376
 +3.5993957E+1+1.6891159E+1-1.1188848E+1+2.2348966E+0 400 2500 21J 967 376
 -2.5280303E+0-3.7984130E+2+6.4067230E+1-3.6110693E+2NA203SI (L) 22J 967 376

FITS FOR EST RMS LOW = 0.073660 RMS HIGH = 0.073660
 3 8 2 11 1 14 0 0 0 0 0 SODIUM METASILICATE (L) 20NA203SI*
 -361106+6+109447+6+460949+2-139971-2-337054+7+123775+3 4002500J 96721NA203SI*
 -361106+6+109447+6+460949+2-139971-2-337054+7+123775+3 4002500J 96722NA203SI*

-----NOTS-----						-----EST-----					
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	30.540	44.397	2.931	44.895	-0.498	3.110	-0.179	44.884	-0.487	3.090	-0.159
500	33.154	51.506	6.122	51.314	0.192	5.999	0.123	51.238	0.268	5.951	0.171
600	35.161	57.735	9.542	57.473	0.262	9.383	0.159	57.442	0.293	9.360	0.182
700	36.794	63.282	13.142	63.147	0.135	13.066	0.076	63.166	0.116	13.076	0.066
800	38.181	68.288	16.892	68.324	-0.036	16.945	-0.053	68.375	-0.087	16.979	-0.087
900	42.380	72.856	20.772	73.049	-0.193	20.958	-0.186	73.111	-0.255	21.001	-0.229
1000	42.380	77.322	25.010	77.373	-0.051	25.062	-0.052	77.433	-0.111	25.103	-0.093
1100	42.380	81.361	29.248	81.345	0.016	29.230	0.018	81.394	-0.033	29.259	-0.011
1200	42.380	85.048	33.486	85.008	0.040	33.440	0.046	85.042	0.006	33.452	0.033
1300	42.380	88.441	37.724	88.399	0.042	37.677	0.047	88.418	0.023	37.671	0.053
1400	42.380	91.581	41.962	91.550	0.031	41.929	0.033	91.557	0.024	41.906	0.056
1500	42.380	94.505	46.200	94.487	0.018	46.186	0.014	94.487	0.018	46.152	0.048
1600	42.380	97.240	50.438	97.234	0.006	50.442	-0.004	97.231	0.009	50.404	0.034
1700	42.380	99.810	54.676	99.811	-0.001	54.693	-0.017	99.810	-0.000	54.659	0.017
1800	42.380	102.232	58.914	102.237	-0.005	58.937	-0.023	102.242	-0.010	58.913	0.001
1900	42.380	104.523	63.152	104.527	-0.004	63.173	-0.021	104.541	-0.018	63.165	-0.013
2000	42.380	106.697	67.390	106.697	0.000	67.403	-0.013	106.720	-0.023	67.413	-0.023
2100	42.380	108.765	71.628	108.758	0.007	71.628	0.000	108.790	-0.025	71.656	-0.028
2200	42.380	110.736	75.866	110.724	0.012	75.854	0.012	110.760	-0.024	75.891	-0.025
2300	42.380	112.620	80.104	112.605	0.015	80.085	0.019	112.639	-0.019	80.119	-0.015
2400	42.380	114.424	84.342	114.412	0.012	84.330	0.012	114.435	-0.011	84.339	0.003
2500	42.380	116.154	88.580	116.153	0.001	88.596	-0.017	116.154	0.000	88.549	0.031

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SODIUM DISILICATE (L) NA 20 5SI 2 0 0 0 967
 MOL. WT. = 182.140 BLCK = 1948 NO. POINT = 24
 DATA FROM 298 TO 2500 K HFORM(KCAL/(MOLE)) = -582.811 KEY = 378
 FITS FOR NOTS RMS = 0.096315
 8 2 11 2 14 0 0 0 0 0 SODIUM DISILICATE (L) 20J 967 378
 .2574919E+2-8.4519104E+1+4.0105926E+1-6.4834938E+0 400 2500 21J 967 378
 .1213836E+1-6.5076538E+2+1.6879255E+2-5.8281079E+2NA205SI2(L) 22J 967 378

FITS FOR EST RMS LOW = 0.219420 RMS HIGH = 0.219420
 8 2 11 2 14 0 0 0 0 0 SODIUM DISILICATE (L) 20NA205SI2*
 42810+6+162963+6+669501+2-189910-2-273995+7+176378+3 4002500J 96721NA205SI2*
 42810+6+162963+6+669501+2-189910-2-273995+7+176378+3 4002500J 96722NA205SI2*

DR

KC/M
 1.294
 0.312
 0.792
 0.697
 0.282
 0.329
 0.584
 0.275
 0.079
 0.035
 0.091
 0.106
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 0.067

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
00	43.834	57.040	4.154	57.876	-0.836	4.432	-0.278	54.829	2.211	3.224	0.930				
00	48.577	67.358	8.786	66.541	0.817	8.353	0.433	66.496	0.862	8.463	0.323				
00	52.002	76.527	13.820	76.172	0.355	13.649	0.171	76.838	-0.311	14.141	-0.321				
00	58.750	84.972	19.308	85.305	-0.333	19.579	-0.271	85.959	-0.987	20.060	-0.752				
00	65.050	93.296	25.548	93.605	-0.309	25.797	-0.249	94.054	-0.758	26.123	-0.575				
00	66.020	101.053	32.135	101.066	-0.013	32.132	0.003	101.300	-0.247	32.276	-0.141				
00	64.000	107.927	38.658	107.772	0.155	38.497	0.161	107.843	0.084	38.486	0.172				
100	62.430	113.935	44.960	113.828	0.107	44.850	0.110	113.796	0.139	44.733	0.227				
200	62.430	119.367	51.203	119.332	0.035	51.176	0.027	119.251	0.116	51.002	0.201				
300	62.430	124.364	57.446	124.369	-0.005	57.468	-0.022	124.279	0.085	57.284	0.162				
400	62.430	128.991	63.689	129.011	-0.020	63.732	-0.043	128.939	0.052	63.572	0.117				
500	62.430	133.298	69.932	133.318	-0.020	69.975	-0.043	133.278	0.020	69.861	0.071				
600	62.430	137.327	76.175	137.338	-0.011	76.204	-0.029	137.335	-0.008	76.148	0.027				
700	62.430	141.112	82.418	141.112	0.000	82.428	-0.010	141.143	-0.031	82.428	-0.010				
800	62.430	144.680	88.661	144.670	0.010	88.653	0.008	144.729	-0.049	88.702	-0.041				
900	62.430	148.056	94.904	148.040	0.016	94.886	0.018	148.115	-0.059	94.965	-0.061				
000	62.430	151.258	101.147	151.241	0.017	101.128	0.019	151.322	-0.064	101.218	-0.071				
100	62.430	154.304	107.390	154.291	0.013	107.378	0.012	154.367	-0.063	107.458	-0.068				
200	62.430	157.208	113.633	157.201	0.007	113.634	-0.001	157.264	-0.056	113.686	-0.053				
300	62.430	159.983	119.876	159.981	0.002	119.889	-0.013	160.026	-0.043	119.899	-0.023				
400	62.430	162.640	126.119	162.639	0.001	126.132	-0.013	162.664	-0.024	126.098	0.021				
500	62.430	165.189	132.362	165.178	0.011	132.351	0.011	165.189	0.000	132.282	0.080				

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 -890

1260

FITS FOR NOTS RMS = 0.000706

+1.8037109E+1+3.1951293E+0-1.7767351E-1+4.9209237E-2 400 2000
+2.5939941E-4-9.4517074E+1+4.4287338E+1-8.9000000E+1NA2S (C)

2 11 1 16 0 0 0 0 0 0 0 SODIUM SULFIDE (C) 30NA2SS

-890000+5+622690+5+181025+2+299869-2-100800+4+732935+2 4002000J126031NA2S\$
-890000+5+622690+5+181025+2+299869-2-100800+4+732935+2 4002000J126032NA2S\$

[illegible]

OXYGEN, MONATOMIC

(G) 0 1

662

MOL. WT.= 15.990 BLOCK= 1956 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 59.559 KEY = 381

FITS FOR NOTS RMS = 0.002599

1 8 0 0 0 0 0 0 0 0 0 OXYGEN, MONATOMIC (G) 10J 662 381
 +5.2321825E+0-2.5271356E-1+7.4054241E-2-4.8767663E-3 400 6000 11J 662 381
 -3.5247802E-2+5.7941574E+1+4.4813598E+1+5.9558990E+10(G) 12J 662 381

FITS FOR EST RMS LOW = 0.001646 RMS HIGH = 0.002708

1 8 0 0 0 0 0 0 0 0 0 OXYGEN, MONATOMIC (G) 100
 +595589+5+135207+5+493513+1+173747-4+420130+5+500959+2 4003000J 662110
 +595589+5+135245+5+456804+1+124802-3+424704+6+500959+230006000J 662120

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-----NOTS-----

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DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.007	400	5.135	39.991	0.528	40.034	-0.043	0.545	-0.017	39.978	0.013	0.522	0.006
0.002	600	5.049	42.054	1.544	42.051	0.003	1.540	0.004	42.055	-0.001	1.545	-0.001
0.001	800	5.015	43.501	2.550	43.494	0.007	2.544	0.006	43.504	-0.003	2.552	-0.002
0.000	1000	4.999	44.619	3.552	44.614	0.005	3.547	0.005	44.621	-0.002	3.553	-0.001
0.000	1200	4.990	45.529	4.551	45.527	0.002	4.549	0.002	45.530	-0.001	4.551	0.000
0.000	1400	4.984	46.298	5.548	46.297	0.001	5.548	-0.000	46.299	-0.001	5.547	0.001
0.000	1600	4.981	46.963	6.544	46.963	-0.000	6.546	-0.002	46.964	-0.001	6.543	0.001
0.000	1800	4.979	47.550	7.540	47.550	-0.000	7.542	-0.002	47.550	0.000	7.539	0.001
0.000	2000	4.978	48.074	8.536	48.074	-0.000	8.537	-0.001	48.075	-0.001	8.535	0.001
0.000	2200	4.979	48.549	9.532	48.549	0.000	9.532	-0.000	48.549	-0.000	9.531	0.001
0.000	2400	4.981	48.982	10.527	48.982	0.000	10.527	-0.000	48.983	-0.001	10.528	-0.001
0.000	2600	4.986	49.381	11.524	49.380	0.001	11.524	0.000	49.382	-0.001	11.525	-0.001
0.000	2800	4.994	49.751	12.522	49.750	0.001	12.522	0.000	49.752	-0.001	12.523	-0.001
0.000	3000	5.004	50.096	13.522	50.095	0.001	13.521	0.001	50.096	0.000	13.521	0.001
	3000	5.004	50.096	13.522	50.095	0.001	13.521	0.001	50.096	0.000	13.525	-0.003
	3200	5.017	50.419	14.524	50.418	0.001	14.524	0.000	50.419	0.000	14.524	-0.000
	3400	5.033	50.724	15.529	50.723	0.001	15.529	0.000	50.723	0.001	15.528	0.001
	3600	5.050	51.012	16.537	51.011	0.001	16.538	-0.001	51.011	0.001	16.536	0.001
	3800	5.070	51.285	17.549	51.285	0.000	17.550	-0.001	51.285	0.000	17.548	0.001
	4000	5.091	51.546	18.565	51.546	0.000	18.566	-0.001	51.545	0.001	18.565	0.000
	4200	5.114	51.795	19.586	51.795	0.000	19.587	-0.001	51.794	0.001	19.586	0.000
	4400	5.138	52.033	20.611	52.033	0.000	20.612	-0.001	52.033	0.000	20.611	-0.000
	4600	5.162	52.262	21.641	52.262	0.000	21.641	-0.000	52.262	0.000	21.641	-0.000
	4800	5.186	52.482	22.676	52.482	0.000	22.676	0.000	52.482	0.000	22.676	-0.000
	5000	5.210	52.695	23.715	52.694	0.001	23.715	-0.000	52.694	0.001	23.716	-0.001
	5200	5.234	52.899	24.760	52.899	0.000	24.759	0.001	52.899	0.000	24.760	0.000
	5400	5.258	53.097	25.809	53.097	0.000	25.809	0.000	53.097	0.000	25.809	0.000
	5600	5.280	53.289	26.863	53.288	0.001	26.863	0.000	53.288	0.001	26.863	0.000
	5800	5.302	53.475	27.921	53.474	0.001	27.921	-0.000	53.474	0.001	27.921	-0.000
	6000	5.323	53.655	28.984	53.654	0.001	28.985	-0.001	53.654	0.001	28.984	-0.000

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PHOSPHORUS MONOXIDE (G) 0 1P 1 0 0 0 0 671
 MOL. WT. = 46.970 BLOCK = 1962 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -2.900 KEY = 382
 FITS FOR NOTS RMS = 0.002726
 8 1 15 0 0 0 0 0 0 PHOSPHORUS MONOXIDE (G) 10J 671 382
 .6419572E+0+2.7441012E-1-6.0870286E-2+5.8693364E-3 400 6000 11J 671 382
 .4485778E-1-6.1842098E+0+6.2581695E+1-2.8999996E+0OP (G) 12J 671 382

FITS FOR EST RMS LOW = 0.004620 RMS HIGH = 0.005933
 8 1 15 0 0 0 0 0 0 PHOSPHORUS MONOXIDE (G) 10OP
 .89999+4+235310+5+880813+1+948441-4-279184+6+726919+2 4003000J 671110P
 .89999+4+235276+5+849659+1+132793-3+152059+7+726919+230006000J 671120P

SULPHUR
 MOL.
 DATA 1
 FITS 1
 1 8 1
 +7.37761
 +5.21392

FITS 1
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 +116699

-----NOTS-----

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T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C
400	7.727	55.464	0.779	55.533	-0.069	0.805	-0.026	55.555	-0.091	0.816	-0.037	400	7.
500	8.127	58.674	2.365	58.661	0.013	2.354	0.011	58.660	0.014	2.354	0.011	600	8.
600	8.416	61.055	4.021	61.046	0.009	4.013	0.008	61.044	0.011	4.013	0.008	800	8.
700	8.598	62.954	5.724	62.950	0.004	5.721	0.003	62.950	0.004	5.721	0.003	1000	8.
800	8.715	64.532	7.456	64.531	0.001	7.456	0.000	64.532	0.000	7.457	-0.001	1200	8.
900	8.796	65.882	9.208	65.882	0.000	9.208	-0.000	65.883	-0.001	9.210	-0.002	1400	8.
1000	8.854	67.061	10.973	67.060	0.001	10.974	-0.001	67.061	-0.000	10.976	-0.003	1600	9.
1100	8.899	68.106	12.749	68.106	0.000	12.749	0.000	68.106	-0.000	12.750	-0.001	1800	9.
1200	8.934	69.046	14.532	69.045	0.001	14.532	-0.000	69.045	0.001	14.532	-0.000	2000	9.
1300	8.963	69.899	16.322	69.898	0.001	16.322	0.000	69.898	0.001	16.321	0.001	2200	9.
1400	8.988	70.680	18.117	70.679	0.001	18.117	0.000	70.678	0.002	18.116	0.001	2400	9.
1500	9.010	71.400	19.917	71.399	0.001	19.917	0.000	71.399	0.001	19.916	0.001	2600	9.
1600	9.030	72.068	21.721	72.068	0.000	21.721	-0.000	72.068	0.000	21.721	0.000	2800	9.
1700	9.048	72.692	23.529	72.692	0.000	23.529	-0.000	72.692	0.000	23.531	-0.002	3000	9.
1800	9.048	72.692	23.529	72.692	0.000	23.529	-0.000	72.692	0.000	23.528	0.001	3000	9.
1900	9.064	73.276	25.340	73.276	-0.000	25.340	-0.001	73.277	-0.001	25.341	-0.001	3200	9.
2000	9.080	73.826	27.155	73.826	-0.000	27.155	-0.000	73.827	-0.001	27.156	-0.001	3400	9.
2100	9.096	74.346	28.972	74.346	0.000	28.973	-0.001	74.347	-0.001	28.973	-0.001	3600	9.
2200	9.111	74.838	30.793	74.838	0.000	30.793	-0.000	74.839	-0.001	30.793	0.000	3800	9.
2300	9.126	75.306	32.617	75.306	0.000	32.617	-0.000	75.306	-0.000	32.616	0.001	4000	9.
2400	9.142	75.752	34.444	75.751	0.001	34.444	0.000	75.752	0.000	34.442	0.002	4200	9.
2500	9.159	76.177	36.274	76.177	0.000	36.274	0.000	76.177	-0.000	36.272	0.002	4400	9.
2600	9.177	76.585	38.107	76.584	0.001	38.107	-0.000	76.585	0.000	38.106	0.001	4600	9.
2700	9.196	76.976	39.944	76.975	0.001	39.944	-0.000	76.976	0.000	39.944	0.000	4800	10.
2800	9.217	77.352	41.786	77.351	0.001	41.785	0.001	77.352	0.000	41.786	0.000	5000	10.
2900	9.239	77.713	43.631	77.713	0.000	43.631	0.000	77.714	-0.001	43.632	-0.001	5200	10.
3000	9.265	78.063	45.482	78.062	0.001	45.481	0.001	78.063	-0.000	45.483	-0.001	5400	10.
3100	9.292	78.400	47.337	78.399	0.001	47.337	0.000	78.401	-0.001	47.339	-0.002	5600	10.
3200	9.322	78.727	49.199	78.726	0.001	49.199	0.000	78.727	-0.000	49.199	0.000	5800	10.
3300	9.356	79.043	51.066	79.043	0.000	51.067	-0.001	79.043	-0.000	51.064	0.002	6000	10.

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SULFUR MONOXIDE (G) 0 15 1 0 0 0 0 671
MOL. WT.= 48.060 BLOCK= 1968 NO. POINT = 62
DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 1.167 KEY = 383
FITS FOR NOTS RMS = 0.008515
1 8 1 16 0 0 0 0 0 0 0 SULFUR MONOXIDE (G) 10J 671 383
+7.3776826E+0+1.3388309E+0-2.2603565E-1+1.2787733E-2 400 6000 11J 671 383
+5.2139282E-2-1.0696945E+0+6.1439407E+1+1.1669998E+00S (G) 12J 671 383

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MOL
DATA
FITS
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.4605
.5848

FITS FOR EST RMS LOW = 0.004350 RMS HIGH = 0.003566
1 8 1 16 0 0 0 0 0 0 0 SULFUR MONOXIDE (G) 100S
+116699+4+241287+5+832071+1+485756-3-192352+6+726529+2 4003000J 671110S
+116699+4+241273+5+105745+2-608755-4-624560+7+726529+230006000J 671120S

FITS
8 1
.40000
.40000

-----NOTS-----													-----EST-----			
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	T	K	C	
1	400	7.543	55.184	0.751	55.034	0.150	0.686	0.065	55.215	-0.031	0.765	-0.014	400	7		
37	600	8.087	58.353	2.318	58.362	-0.009	2.328	-0.010	58.352	0.001	2.317	0.001	400	7		
11	800	8.414	60.729	3.971	60.753	-0.024	3.991	-0.020	60.726	0.003	3.969	0.002	400	7		
08	1000	8.616	62.629	5.676	62.643	-0.014	5.686	-0.010	62.626	0.003	5.673	0.003	400	8		
03	1200	8.764	64.214	7.414	64.218	-0.004	7.413	0.001	64.211	0.003	7.411	0.003	400	8		
01	1400	8.891	65.574	9.180	65.573	0.001	9.172	0.008	65.573	0.001	9.179	0.001	400	8		
02	1600	9.014	66.770	10.970	66.767	0.003	10.961	0.009	66.769	0.001	10.972	-0.002	400	8		
03	1800	9.133	67.838	12.785	67.836	0.002	12.777	0.008	67.839	-0.001	12.788	-0.003	400	8		
01	2000	9.250	68.807	14.623	68.806	0.001	14.619	0.004	68.807	0.000	14.626	-0.003	400	8		
00	2200	9.360	69.693	16.484	69.695	-0.002	16.483	0.001	69.693	0.000	16.485	-0.001	400	8		
01	2400	9.463	70.512	18.367	70.515	-0.003	18.368	-0.001	70.511	0.001	18.365	0.002	400	8		
01	2600	9.557	71.274	20.269	71.277	-0.003	20.272	-0.003	71.272	0.002	20.266	0.003	400	8		
00	2800	9.640	71.985	22.189	71.989	-0.004	22.193	-0.004	71.983	0.002	22.187	0.002	400	8		
02	3000	9.713	72.653	24.125	72.656	-0.003	24.128	-0.003	72.653	0.000	24.129	-0.004	400	9		
01	3000	9.713	72.653	24.125	72.656	-0.003	24.128	-0.003	72.653	0.000	24.127	-0.002	400	9		
01	3200	9.776	73.282	26.074	73.285	-0.003	26.077	-0.003	73.281	0.001	26.074	-0.000	400	9		
01	3400	9.830	73.876	28.035	73.879	-0.003	28.036	-0.001	73.875	0.001	28.034	0.001	400	9		
01	3600	9.874	74.439	30.005	74.442	-0.003	30.006	-0.001	74.438	0.001	30.005	0.000	400	9		
00	3800	9.911	74.974	31.984	74.976	-0.002	31.983	0.001	74.973	0.001	31.983	0.001	400	9		
01	4000	9.941	75.483	33.969	75.485	-0.002	33.968	0.001	75.482	0.001	33.968	0.001	400	9		
02	4200	9.965	75.969	35.960	75.971	-0.002	35.958	0.002	75.968	0.001	35.959	0.001	400	9		
02	4400	9.983	76.433	37.954	76.435	-0.002	37.953	0.001	76.432	0.001	37.954	0.000	400	9		
01	4600	9.998	76.877	39.953	76.879	-0.002	39.952	0.001	76.876	0.001	39.952	0.001	400	9		
00	4800	10.010	77.303	41.954	77.305	-0.002	41.953	0.001	77.302	0.001	41.953	0.001	400	9		
00	5000	10.019	77.711	43.956	77.714	-0.003	43.957	-0.001	77.711	0.000	43.957	-0.001	400	9		
01	5200	10.026	78.105	45.961	78.107	-0.002	45.962	-0.001	78.104	0.001	45.961	-0.000	400	9		
01	5400	10.031	78.483	47.967	78.485	-0.002	47.967	-0.000	78.483	0.000	47.967	-0.000	400	9		
02	5600	10.036	78.848	49.973	78.850	-0.002	49.974	-0.001	78.847	0.001	49.974	-0.001	400	9		
00	5800	10.041	79.200	51.981	79.202	-0.003	51.981	-0.000	79.200	0.000	51.981	-0.000	400	9		
02	6000	10.046	79.541	53.990	79.543	-0.002	53.988	0.002	79.540	0.001	53.988	0.002	400	9		

SILICON MONOXIDE (G) 0 1SI 1 0 0 0 0 967
 MOL. WT. = 44.080 BLOCK = 1974 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -24.000 KEY = 384
 FITS FOR NOTS RMS = 0.002356
 8 1 14 0 0 0 0 0 0 0 SILICON MONOXIDE (G) 10J 967 384
 .4605388E+0+4.6769225E-1-1.3563072E-1+1.5370026E-2 400 6000 11J 967 384
 .5848388E-1-2.7303207E+1+5.9501754E+1-2.4000000E+10SI(G) 12J 967 384

FITS FOR EST RMS LOW = 0.005001 RMS HIGH = 0.017172
 8 1 14 0 0 0 0 0 0 0 SILICON MONOXIDE (G) 100SI
 40000+5+233611+5+880169+1+924952-4-329264+6+697419+2 4003000J 967110SI
 40000+5+233494+5+697346+1+405548-3+830172+7+697419+230006000J 967120SI

DH KC/M	-----NOTS-----								-----EST-----				T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
-0.014	400	7.441	52.682	0.742	52.734	-0.052	0.762	-0.020	52.778	-0.096	0.781	-0.039	400
0.001	400	7.982	55.807	2.288	55.796	0.011	2.279	0.009	55.793	0.014	2.277	0.011	500
0.002	400	8.328	58.155	3.922	58.149	0.006	3.916	0.006	58.144	0.011	3.913	0.009	600
0.003	400	8.538	60.038	5.610	60.036	0.002	5.608	0.002	60.034	0.004	5.607	0.003	700
0.001	400	8.671	61.607	7.332	61.606	0.001	7.331	0.001	61.607	0.000	7.333	-0.001	800
-0.002	400	8.761	62.951	9.075	62.950	0.001	9.075	-0.000	62.952	-0.001	9.078	-0.003	900
-0.003	400	8.825	64.125	10.834	64.124	0.001	10.834	0.000	64.126	-0.001	10.837	-0.003	1000
-0.003	400	8.873	65.167	12.604	65.167	0.000	12.604	0.000	65.167	-0.000	12.606	-0.002	1100
-0.001	400	8.911	66.104	14.383	66.104	0.000	14.382	0.001	66.104	0.000	14.383	-0.000	1200
0.002	200	8.942	66.955	16.168	66.954	0.001	16.168	0.000	66.954	0.001	16.167	0.001	1300
0.003	400	8.968	67.734	17.959	67.734	0.000	17.959	-0.000	67.733	0.001	17.958	0.001	1400
0.002	600	8.990	68.453	19.755	68.453	0.000	19.755	-0.000	68.452	0.001	19.754	0.001	1500
-0.004	800	9.010	69.120	21.555	69.120	0.000	21.556	-0.001	69.119	0.001	21.555	0.000	1600
-0.002	400	9.029	69.742	23.359	69.742	-0.000	23.360	-0.001	69.742	0.000	23.361	-0.002	1700
-0.000	400	9.029	69.742	23.359	69.742	-0.000	23.360	-0.001	69.742	0.000	23.349	0.010	1800
0.001	200	9.047	70.326	25.167	70.325	0.001	25.167	-0.000	70.329	-0.003	25.169	-0.002	1900
0.000	400	9.065	70.875	26.978	70.874	0.001	26.978	-0.000	70.879	-0.004	26.983	-0.005	2000
0.001	400	9.084	71.393	28.793	71.393	0.000	28.793	-0.000	71.398	-0.005	28.798	-0.005	2100
0.001	400	9.105	71.885	30.612	71.885	0.000	30.612	0.000	71.889	-0.004	30.614	-0.002	2200
0.001	400	9.129	72.353	32.435	72.352	0.001	32.435	-0.000	72.355	-0.002	32.434	0.001	2300
0.000	400	9.156	72.799	34.263	72.798	0.001	34.264	-0.001	72.801	-0.002	34.260	0.003	2400
0.001	400	9.188	73.225	36.098	73.225	0.000	36.098	-0.000	73.227	-0.002	36.093	0.005	2500
0.001	400	9.226	73.635	37.939	73.634	0.001	37.939	-0.001	73.637	-0.002	37.935	0.004	
-0.001	400	9.270	74.028	39.789	74.028	0.000	39.789	0.000	74.031	-0.003	39.786	0.003	
-0.000	400	9.320	74.407	41.648	74.407	-0.000	41.648	0.000	74.410	-0.003	41.648	0.000	
-0.000	400	9.378	74.774	43.517	74.774	0.000	43.517	-0.000	74.778	-0.004	43.520	-0.003	
-0.001	400	9.444	75.129	45.399	75.129	0.000	45.399	0.000	75.133	-0.004	45.404	-0.005	
-0.000	400	9.517	75.474	47.295	75.474	0.000	47.295	0.000	75.478	-0.004	47.299	-0.004	
0.002	400	9.599	75.809	49.207	75.809	0.000	49.206	0.001	75.813	-0.004	49.207	-0.000	
	400	9.688	76.136	51.135	76.136	-0.000	51.136	-0.001	76.138	-0.002	51.128	0.007	

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TITANIUM MONOXIDE (G) 0 1TI 1 0 0 0 0 367
 MOL. WT. = 63.890 BLOCK = 1988 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 3.750 KEY = 387
 FITS FOR NOTS RMS = 0.008888
 1 8 1 22 0 0 0 0 0 0 TITANIUM MONOXIDE (G) 10J 367 387
 +1.0182540E+1-1.0434961E+0+3.3666604E-1-2.4752348E-2 400 6000 11J 367 387
 -4.5176696E-1-4.8474121E-1+6.6831878E+1+3.7500000E+0OTI (G) 12J 367 387

FITS FOR EST RMS LOW = 0.006622 RMS HIGH = 0.013544
 1 8 1 22 0 0 0 0 0 0 TITANIUM MONOXIDE (G) 10OTI
 +375000+4+242935+5+893480+1+128442-3-140352+6+762079+2 4003000J 367110TI
 +375000+4+243103+5+817508+1+430855-3-165529+7+762079+230 006000J 367120TI

/M	-----NOTS-----												T
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
000	400	8.127	58.327	0.812	58.522	-0.195	0.891	-0.079	58.302	0.025	0.799	0.013	K
000	600	8.558	61.713	2.485	61.691	0.022	2.463	0.022	61.707	0.006	2.482	0.003	400
000	800	8.797	64.211	4.223	64.181	0.030	4.197	0.026	64.218	-0.007	4.229	-0.006	600
000	1000	8.933	66.190	5.997	66.174	0.016	5.984	0.013	66.198	-0.008	6.004	-0.007	800
000	1200	9.013	67.826	7.792	67.821	0.005	7.791	0.001	67.831	-0.005	7.796	-0.004	1000
000	1400	9.063	69.219	9.600	69.220	-0.001	9.605	-0.005	69.221	-0.002	9.599	0.001	1200 1
000	1600	9.096	70.432	11.416	70.433	-0.001	11.423	-0.007	70.431	0.001	11.412	0.004	1400 1
000	1800	9.121	71.505	13.238	71.506	-0.001	13.244	-0.006	71.504	0.001	13.233	0.005	1600 1
000	2000	9.145	72.467	15.064	72.467	0.000	15.068	-0.004	72.467	0.000	15.061	0.003	1800 1
000	2200	9.172	73.340	16.896	73.338	0.002	16.897	-0.001	73.341	-0.001	16.896	0.000	2000 1
000	2400	9.206	74.139	18.734	74.137	0.002	18.732	0.002	74.142	-0.003	18.736	-0.002	2200 1
000	2600	9.248	74.878	20.579	74.875	0.003	20.576	0.003	74.881	-0.003	20.583	-0.004	2400 1
000	2800	9.299	75.565	22.433	75.562	0.003	22.430	0.003	75.567	-0.002	22.435	-0.002	2600 1
000	3000	9.359	76.208	24.299	76.205	0.003	24.296	0.003	76.208	0.000	24.294	0.005	2800 1
000	3000	9.359	76.208	24.299	76.205	0.003	24.296	0.003	76.208	0.000	24.310	-0.011	3000 1
000	3200	9.430	76.815	26.178	76.812	0.003	26.176	0.002	76.811	0.004	26.178	0.000	3000 1
000	3400	9.508	77.389	28.071	77.386	0.003	28.071	-0.000	77.383	0.006	28.067	0.004	3200 1
000	3600	9.594	77.934	29.982	77.933	0.001	29.982	-0.000	77.929	0.005	29.976	0.006	3400 1
000	3800	9.686	78.456	31.910	78.454	0.002	31.911	-0.001	78.451	0.005	31.906	0.004	3600 1
000	4000	9.782	78.955	33.856	78.953	0.002	33.858	-0.002	78.950	0.005	33.855	0.001	3800 1
000	4200	9.881	79.435	35.823	79.433	0.002	35.825	-0.002	79.431	0.004	35.824	-0.001	4000 1
000	4400	9.981	79.897	37.809	79.895	0.002	37.810	-0.001	79.893	0.004	37.812	-0.003	4200 1
000	4600	10.080	80.342	39.815	80.340	0.002	39.815	-0.001	80.339	0.003	39.818	-0.003	4400 1
000	4800	10.178	80.773	41.841	80.771	0.002	41.840	0.001	80.770	0.003	41.843	-0.002	4600 1
000	5000	10.272	81.191	43.886	81.189	0.002	43.885	0.001	81.187	0.004	43.887	-0.001	4800 1
000	5200	10.364	81.596	45.949	81.593	0.003	45.948	0.001	81.591	0.005	45.948	0.001	5000 1
000	5400	10.450	81.988	48.031	81.986	0.002	48.030	0.001	81.984	0.004	48.028	0.003	5200 1
000	5600	10.532	82.370	50.129	82.368	0.002	50.128	0.001	82.365	0.005	50.126	0.003	5400 1
000	5800	10.608	82.741	52.243	82.739	0.002	52.243	-0.000	82.736	0.005	52.242	0.001	5600 1
000	6000	10.678	83.102	54.372	83.100	0.002	54.373	-0.001	83.098	0.004	54.376	-0.004	5800 1
													600 1

ZIB
 MC
 DATA
 FITS
 8
 .786
 .892
 FITS
 1 8
 14000
 14000

ZIRCONIUM MONOXIDE (G) O 1ZR 1
MOL. WT.= 107.210 BLOCK= 1994 NO. POINT = 62
DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 14.000 KEY = 388
FITS FOR NOTS RMS = 0.160746

1265

8 1 40 0 0 0 0 0 0 0 ZIRCONIUM MONOXIDE (G) 10J1265 388
.7867706E+1-3.2073898E+0+4.6267962E-1-1.6193121E-2 400 6000 11J1265 388
.8924102E+0-5.4634094E-1+6.5141967E+1+1.4000000E+10ZR(G) 12J1265 388

FITS FOR EST RMS LOW = 0.150431 RMS HIGH = 0.017020

8 1 40 0 0 0 0 0 0 0 ZIRCONIUM MONOXIDE (G) 100ZR
40000+5+298649+5+146860+2-865315-3-286238+7+773599+2 4003000J1265110ZR
140000+5+298220+5+859100+1+424440-3+137567+8+773599+230006000J1265120ZR

OXYGEN,
MOL. WT
DATA FROM
FITS FOR
2 8 0 0
+7.7401485E
-1.4309692E

FITS FOR
2 8 0 0
+000000+0+2
+000000+0+2

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	CP		
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K		
400	7.754	56.553	0.771	59.687	-3.134	2.085	-1.314	58.805	-2.252	1.708	-0.937	400	7.196		
600	8.343	59.813	2.383	59.578	0.234	2.117	0.266	59.617	0.196	2.173	0.210	600	7.670		
800	9.010	62.299	4.114	61.775	0.524	3.664	0.450	61.929	0.370	3.796	0.318	800	8.063		
1000	9.948	64.406	6.006	64.107	0.299	5.760	0.246	64.228	0.178	5.862	0.144	1000	8.336		
1200	10.980	66.311	8.099	66.226	0.085	8.087	0.012	66.296	0.015	8.132	-0.033	1200	8.527		
1400	11.833	68.072	10.386	68.095	-0.023	10.513	-0.127	68.123	-0.051	10.504	-0.118	1400	8.674		
1600	12.358	69.690	12.811	69.738	-0.048	12.974	-0.163	69.740	-0.050	12.926	-0.115	1600	8.800		
1800	12.557	71.160	15.307	71.190	-0.030	15.439	-0.132	71.179	-0.019	15.370	-0.063	1800	8.916		
2000	12.517	72.483	17.817	72.481	0.002	17.890	-0.073	72.469	0.014	17.819	-0.002	2000	9.029		
2200	12.340	73.668	20.305	73.638	0.030	20.317	-0.012	73.634	0.034	20.263	0.042	2200	9.139		
2400	12.105	74.732	22.750	74.683	0.049	22.718	0.032	74.691	0.040	22.694	0.056	2400	9.248		
2600	11.866	75.691	25.147	75.632	0.059	25.091	0.056	75.657	0.034	25.106	0.041	2600	9.354		
2800	11.651	76.563	27.498	76.502	0.061	27.437	0.061	76.543	0.020	27.498	0.000	2800	9.455		
3000	11.473	77.360	29.809	77.302	0.058	29.757	0.052	77.360	0.000	29.865	-0.056	3000	9.551		
3200	11.473	77.360	29.809	77.302	0.058	29.757	0.052	77.360	0.000	29.822	-0.013	3200	9.551		
3400	11.337	78.096	32.090	78.043	0.053	32.054	0.036	78.092	0.004	32.090	0.000	3400	9.640		
3600	11.239	78.780	34.347	78.733	0.047	34.331	0.016	78.774	0.006	34.341	0.006	3600	9.723		
3800	11.176	79.421	36.588	79.379	0.042	36.590	-0.002	79.414	0.007	36.581	0.007	3800	9.799		
4000	11.143	80.024	38.819	79.986	0.038	38.836	-0.017	80.018	0.006	38.815	0.004	4000	9.869		
4200	11.133	80.595	41.046	80.560	0.035	41.073	-0.027	80.590	0.005	41.045	0.001	4200	9.932		
4400	11.141	81.138	43.273	81.104	0.034	43.302	-0.029	81.134	0.004	43.275	-0.002	4400	9.988		
4600	11.163	81.657	45.504	81.622	0.035	45.529	-0.025	81.653	0.004	45.507	-0.003	4600	10.039		
4800	11.195	82.154	47.739	82.117	0.037	47.756	-0.017	82.150	0.004	47.743	-0.004	4800	10.084		
5000	11.233	82.631	49.982	82.592	0.039	49.988	-0.006	82.627	0.004	49.985	-0.003	5000	10.123		
5200	11.275	83.091	52.233	83.049	0.042	52.226	0.007	83.086	0.005	52.234	-0.001	5200	10.156		
5400	11.318	83.534	54.492	83.490	0.044	54.476	0.016	83.529	0.005	54.491	0.001	5400	10.187		
5600	11.361	83.962	56.760	83.917	0.045	56.739	0.021	83.957	0.005	56.757	0.003	5600	10.213		
5800	11.402	84.376	59.037	84.331	0.045	59.019	0.018	84.371	0.005	59.033	0.004	5800	10.237		
6000	11.440	84.776	61.321	84.735	0.041	61.319	0.002	84.772	0.004	61.320	0.001	6000	10.258		
6000	11.474	85.165	63.612	85.129	0.036	63.642	-0.030	85.161	0.004	63.618	-0.006	6000	10.276		

OXYGEN, DIATOMIC

(R) O 2

965

MOL. WT. = 31.990

BLOCK = 2001

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 0.000 KEY = 389

FITS FOR NOTS RMS = 0.007908

2 8 0 0 0 0 0 0 0 0 0 OXYGEN, DIATOMIC (R) 10J 965 389
 +7.7401485E+0+7.7231931E-1-4.9896553E-2-1.4901980E-3 400 6000 11J 965 389
 -1.4309692E-1-2.8147277E+0+5.7384689E+1+0.0000000E+002(R) 12J 965 389

FITS FOR EST RMS LOW = 0.002531 RMS HIGH = 0.006900

2 8 0 0 0 0 0 0 0 0 0 OXYGEN, DIATOMIC (R) 1002
 +000000+0+234462+5+811231+1+491518-3-260304+6+679729+2 4003000J 9651102
 +000000+0+234533+5+103920+2+215597-4-864304+7+679729+230006000J 9651202

-----NOTS-----

-----EST-----

T	CP	S	H	SC	LS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	7.196	51.091	0.724	51.045	0.046	0.700	0.024	51.148	-0.058	0.746	-0.022
600	7.670	54.098	2.210	54.084	0.014	2.203	0.007	54.084	0.014	2.200	0.010
800	8.063	56.361	3.786	56.371	-0.010	3.795	-0.009	56.358	0.003	3.783	0.003
1000	8.336	58.192	5.427	58.203	-0.011	5.438	-0.011	58.193	-0.001	5.429	-0.002
1200	8.527	59.729	7.114	59.736	-0.007	7.119	-0.005	59.731	-0.002	7.116	-0.002
1400	8.674	61.055	8.835	61.057	-0.002	8.833	0.002	61.056	-0.001	8.836	-0.001
1600	8.800	62.222	10.583	62.220	0.002	10.577	0.006	62.222	0.000	10.582	0.001
1800	8.916	63.265	12.354	63.263	0.002	12.347	0.007	63.265	0.000	12.354	0.000
2000	9.029	64.210	14.149	64.208	0.001	14.143	0.006	64.210	-0.000	14.148	0.001
2200	9.139	65.076	15.966	65.075	0.001	15.962	0.004	65.076	-0.000	15.966	0.000
2400	9.248	65.876	17.804	65.876	-0.000	17.803	0.001	65.876	0.000	17.804	-0.000
2600	9.354	66.620	19.664	66.622	-0.002	19.666	-0.002	66.620	-0.000	19.664	-0.000
2800	9.455	67.317	21.545	67.319	-0.002	21.548	-0.003	67.317	-0.000	21.545	0.000
3000	9.551	67.973	23.446	67.975	-0.002	23.450	-0.004	67.973	0.000	23.446	-0.000
3000	9.551	67.973	23.446	67.975	-0.002	23.450	-0.004	67.973	0.000	23.453	-0.007
3200	9.640	68.592	25.365	68.594	-0.002	25.369	-0.004	68.590	0.002	25.365	-0.000
3400	9.723	69.179	27.302	69.181	-0.002	27.304	-0.002	69.176	0.003	27.299	0.003
3600	9.799	69.737	29.254	69.739	-0.002	29.256	-0.002	69.734	0.003	29.251	0.003
3800	9.869	70.269	31.221	70.270	-0.001	31.221	-0.000	70.266	0.003	31.219	0.002
4000	9.932	70.776	33.201	70.778	-0.002	33.200	0.001	70.774	0.002	33.201	0.000
4200	9.988	71.262	35.193	71.263	-0.001	35.192	0.001	71.260	0.002	35.194	-0.001
4400	10.039	71.728	37.196	71.729	-0.001	37.194	0.002	71.726	0.002	37.197	-0.001
4600	10.084	72.176	39.208	72.176	-0.000	39.206	0.002	72.174	0.002	39.210	-0.002
4800	10.123	72.606	41.229	72.606	-0.001	41.228	0.001	72.603	0.003	41.230	-0.001
5000	10.156	73.019	43.257	73.021	-0.002	43.257	0.000	73.017	0.002	43.257	-0.000
5200	10.187	73.418	45.292	73.420	-0.002	45.292	-0.000	73.416	0.002	45.291	0.001
5400	10.213	73.803	47.332	73.805	-0.002	47.333	-0.001	73.801	0.002	47.331	0.001
5600	10.237	74.175	49.377	74.177	-0.002	49.378	-0.001	74.173	0.002	49.376	0.001
5800	10.258	74.535	51.426	74.536	-0.001	51.426	-0.000	74.533	0.002	51.426	0.000
6000	10.276	74.883	53.479	74.884	-0.001	53.476	0.003	74.881	0.002	53.480	-0.001

SULFUR DIOXIDE

(G) 0 2S 1

661

MOL. WT. = 64.060 BLOCK = 2013 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -70.947 KEY = 391

FITS FOR NOTS RMS = 0.007314

2 8 1 16 0 0 0 0 0 0 0 SULFUR DIOXIDE (G) 10J 661 391
 +1.3404061E+1+4.5945227E-1-6.8036139E-2+5.0462298E-3 400 6000 11J 661 391
 -7.2483825E-1-7.7064041E+1+7.2253799E+1-7.0946990E+102S(G) 12J 661 391

FITS FOR EST RMS LOW = 0.010888 RMS HIGH = 0.004471

2 8 1 16 0 0 0 0 0 0 0 SULFUR DIOXIDE (G) 1002S
 -709469+5+358995+5+135932+2+249116-3-759120+6+881399+2 4003000J 6611102S
 -709469+5+358988+5+140123+2+133645-3-184960+7+881399+230006000J 6611202S

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
7 -0.045	400	10.395	62.222	1.016	62.415	-0.193	1.092	-0.076	62.433	-0.211	1.101	-0.085	
2 0.014	600	11.723	66.707	3.237	66.677	0.030	3.211	0.026	66.677	0.030	3.212	0.025	
6 0.010	800	12.532	70.200	5.669	70.176	0.024	5.648	0.021	70.176	0.024	5.649	0.020	
9 0.003	1000	13.022	73.054	8.229	73.043	0.011	8.220	0.009	73.045	0.009	8.223	0.006	
4 -0.002	1200	13.335	75.458	10.866	75.455	0.003	10.866	-0.000	75.458	0.000	10.870	-0.004	
8 -0.003	1400	13.549	77.530	13.556	77.530	0.000	13.559	-0.003	77.533	-0.003	13.563	-0.007	
2 -0.003	1600	13.704	79.350	16.282	79.350	-0.000	16.286	-0.004	79.352	-0.002	16.288	-0.006	
0 -0.002	1800	13.822	80.971	19.035	80.971	0.000	19.038	-0.003	80.972	-0.001	19.039	-0.004	
7 -0.000	2000	13.917	82.433	21.809	82.432	0.001	21.811	-0.002	82.432	0.001	21.810	-0.001	
3 0.001	2200	13.995	83.763	24.601	83.761	0.002	24.601	-0.000	83.761	0.002	24.599	0.002	
5 0.002	2400	14.063	84.984	27.407	84.982	0.002	27.406	0.001	84.981	0.003	27.403	0.004	
2 0.002	2600	14.122	86.112	30.225	86.109	0.003	30.224	0.001	86.109	0.003	30.222	0.003	
4 -0.000	2800	14.175	87.160	33.055	87.158	0.002	33.054	0.001	87.159	0.001	33.054	0.001	
0 -0.002	3000	14.224	88.140	35.895	88.138	0.002	35.894	0.001	88.140	0.000	35.900	-0.005	
1 -0.003	3000	14.224	88.140	35.895	88.138	0.002	35.894	0.001	88.140	0.000	35.899	-0.004	
4 -0.000	3200	14.270	89.059	38.745	89.057	0.002	38.744	0.001	89.059	0.000	38.746	-0.001	
1 0.000	3400	14.312	89.926	41.603	89.924	0.002	41.603	0.000	89.924	0.001	41.602	0.001	
9 0.002	3600	14.353	90.745	44.469	90.743	0.002	44.470	-0.001	90.744	0.001	44.468	0.001	
0 0.001	3800	14.392	91.522	47.344	91.520	0.002	47.345	-0.001	91.521	0.001	47.342	0.002	
2 0.001	4000	14.430	92.261	50.226	92.260	0.001	50.228	-0.002	92.260	0.001	50.225	0.001	
5 0.001	4200	14.467	92.966	53.116	92.965	0.001	53.117	-0.001	92.965	0.001	53.115	0.001	
9 0.001	4400	14.502	93.640	56.013	93.638	0.002	56.014	-0.001	93.639	0.001	56.012	0.001	
4 0.000	4600	14.537	94.285	58.917	94.284	0.001	58.918	-0.001	94.284	0.001	58.917	0.000	
9 -0.000	4800	14.572	94.905	61.828	94.903	0.002	61.828	0.000	94.904	0.001	61.828	-0.000	
5 -0.001	5000	14.605	95.500	64.745	95.498	0.002	64.745	0.000	95.499	0.001	64.746	-0.001	
1 -0.000	5200	14.639	96.074	67.670	96.072	0.002	67.669	0.001	96.073	0.001	67.671	-0.001	
8 -0.001	5400	14.672	96.627	70.601	96.625	0.002	70.600	0.001	96.626	0.001	70.602	-0.001	
4 -0.000	5600	14.704	97.161	73.538	97.159	0.002	73.537	0.001	97.160	0.001	73.539	-0.001	
1 0.000	5800	14.736	97.677	76.482	97.676	0.001	76.482	-0.000	97.676	0.001	76.482	-0.000	
8 0.001	6000	14.769	98.178	79.433	98.176	0.002	79.435	-0.002	98.176	0.002	79.432	0.001	

SILICON DIOXIDE (L) 0 2SI 1 0 0 0 0 667
 MOL. WT.= 60.080 BLOCK= 2022 NO. POINT = 47
 DATA FROM 0 TO 4500 K HFORM(KCAL/(MOLE)) = -215.740 KEY = 393
 FITS FOR NOTS RMS = 0.117691
 2 8 1 14 0 0 0 0 0 0 0 SILICON DIOXIDE (L) 20J 667 393
 +6.7421731E+0+1.3427042E+1-4.2504158E+0+4.3693470E-1 400 4500 21J 667 393
 +3.2527160E-1-2.1735635E+2+1.7134841E+1-2.1573999E+202SI (L) 22J 667 393

FITS FOR EST RMS LOW = 0.236067 RMS HIGH = 0.236067
 2 8 1 14 0 0 0 0 0 0 0 SILICON DIOXIDE (L) 2002SI*
 -215739+6+494686+5+214278+2-162874-3-389974+7+496109+2 4004500J 6672102SI*
 -215739+6+494686+5+214278+2-162874-3-389974+7+496109+2 4004500J 6672202SI*

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DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.223	400	12.552	14.856	1.184	14.981	-0.125	1.254	-0.070	18.829	-3.973	2.926	-1.742	
-0.014	600	14.829	20.427	3.947	20.562	-0.135	4.012	-0.065	20.715	-0.288	3.945	0.002	
-0.135	800	16.063	24.878	7.047	24.832	0.046	6.987	0.060	24.477	0.401	6.583	0.464	
-0.163	1000	16.814	28.550	10.341	28.420	0.130	10.206	0.135	28.129	0.421	9.864	0.477	
-0.101	1200	17.303	31.661	13.756	31.555	0.106	13.649	0.107	31.407	0.254	13.464	0.292	
0.118	1400	17.650	34.355	17.252	34.352	0.003	17.281	-0.029	34.319	0.036	17.243	0.009	
0.081	1600	19.130	36.751	20.843	36.879	-0.128	21.067	-0.224	36.914	-0.163	21.132	-0.289	
0.050	1800	20.500	39.139	24.899	39.180	-0.041	24.974	-0.076	39.246	-0.107	25.091	-0.192	
0.024	2000	20.500	41.299	28.999	41.286	0.013	28.973	0.026	41.356	-0.057	29.098	-0.099	
0.005	2200	20.500	43.253	33.099	43.221	0.032	33.035	0.064	43.282	-0.029	33.138	-0.039	
-0.009	2400	20.500	45.037	37.199	45.006	0.031	37.137	0.062	45.049	-0.012	37.201	-0.002	
-0.018	2600	20.500	46.677	41.299	46.657	0.020	41.262	0.037	46.682	-0.005	41.280	0.019	
-0.021	2800	20.500	48.197	45.399	48.187	0.010	45.392	0.007	48.197	-0.000	45.370	0.029	
-0.019	3000	20.500	49.611	49.499	49.610	0.001	49.518	-0.019	49.611	0.000	49.469	0.030	
-0.011	3200	20.500	50.934	53.599	50.938	-0.004	53.631	-0.032	50.935	-0.001	53.572	0.027	
0.002	3400	20.500	52.177	57.699	52.181	-0.004	57.731	-0.032	52.180	-0.003	57.678	0.021	
0.020	3600	20.500	53.349	61.799	53.348	0.001	61.817	-0.018	53.354	-0.005	61.786	0.013	
	3800	20.500	54.457	65.899	54.451	0.006	65.895	0.004	54.464	-0.007	65.894	0.005	
	4000	20.500	55.508	69.999	55.497	0.011	69.976	0.023	55.518	-0.010	70.001	-0.002	
	4200	20.500	56.509	74.099	56.497	0.012	74.072	0.027	56.519	-0.010	74.107	-0.008	
	4400	20.500	57.462	78.199	57.457	0.005	78.202	-0.003	57.474	-0.012	78.210	-0.011	

SILICON DIOXIDE (G) 0 2SI 1 0 0 0 0 967 T
 MOL. WT. = 60.080 BLOCK = 2027 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -73.000 KEY = 394
 FITS FOR NOTS RMS = 0.006629
 8 1 14 0 0 0 0 0 0 SILICON DIOXIDE (G) 10J 967 394
 1.4446994E+1+2.8102612E-1-6.1694707E-2+4.5889504E-3 400 6000 11J 967 394
 .8415832E-1-7.9320571E+1+6.9094207E+1-7.3000000E+102SI (G) 12J 967 394

FITS FOR EST RMS LOW = 0.009633 RMS HIGH = 0.004478
 8 1 14 0 0 0 0 0 0 SILICON DIOXIDE (G) 1002SI
 730000+5+380557+5+146149+2+917404-4-713472+6+856129+2 4003000J 9671102SI
 730000+5+380551+5+150064+2-151018-4-176844+7+856129+230006000J 9671202SI

H

	-----NOTS-----								-----EST-----				
C/H	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
.742	400	11.474	57.929	1.122	58.102	-0.173	1.190	-0.068	58.117	-0.188	1.197	-0.075	400
.002	600	12.767	62.849	3.557	62.822	0.027	3.534	0.023	62.822	0.027	3.535	0.022	500
.464	800	13.507	66.633	6.192	66.611	0.022	6.172	0.020	66.611	0.022	6.173	0.019	600
.477	1000	13.938	69.698	8.940	69.688	0.010	8.932	0.008	69.690	0.008	8.934	0.006	700
.292	1200	14.203	72.264	11.756	72.261	0.003	11.755	0.001	72.264	-0.000	11.759	-0.003	800
.009	1400	14.374	74.467	14.615	74.467	0.000	14.617	-0.002	74.470	-0.003	14.621	-0.006	900
.289	1600	14.491	76.395	17.502	76.395	0.000	17.505	-0.003	76.397	-0.002	17.507	-0.005	1000
.192	1800	14.573	78.107	20.409	78.106	0.001	20.411	-0.002	78.108	-0.001	20.412	-0.003	1100
.099	2000	14.634	79.645	23.330	79.645	0.000	23.331	-0.001	79.645	0.000	23.330	-0.000	1200
.039	2200	14.679	81.042	26.261	81.041	0.001	26.262	-0.001	81.041	0.001	26.259	0.002	1300
.002	2400	14.714	82.321	29.201	82.319	0.002	29.200	0.001	82.319	0.002	29.198	0.003	1400
.019	2600	14.741	83.500	32.146	83.498	0.002	32.146	0.000	83.498	0.002	32.144	0.002	1500
.029	2800	14.763	84.593	35.097	84.591	0.002	35.096	0.001	84.592	0.001	35.097	0.000	1600
.030	3000	14.781	85.613	38.052	85.611	0.002	38.051	0.001	85.613	0.000	38.056	-0.004	1700
.027	3200	14.781	85.613	38.052	85.611	0.002	38.051	0.001	85.613	0.000	38.055	-0.003	1800
.021	3400	14.796	86.567	41.009	86.565	0.002	41.009	0.000	86.567	0.000	41.010	-0.001	1900
.013	3600	14.808	87.464	43.970	87.463	0.001	43.970	0.000	87.463	0.001	43.969	0.001	2000
.005	3800	14.818	88.311	46.932	88.309	0.002	46.933	-0.001	88.310	0.001	46.931	0.001	2100
.002	4000	14.827	89.112	49.897	89.111	0.001	49.898	-0.001	89.111	0.001	49.895	0.002	2200
.008	4200	14.834	89.873	52.863	89.872	0.001	52.864	-0.001	89.872	0.001	52.861	0.002	2300
.011	4400	14.841	90.597	55.830	90.596	0.001	55.832	-0.002	90.596	0.001	55.829	0.001	2400
	4600	14.846	91.288	58.799	91.286	0.002	58.800	-0.001	91.287	0.001	58.798	0.001	2500
	4800	14.851	91.948	61.769	91.946	0.002	61.770	-0.001	91.947	0.001	61.769	0.000	
	5000	14.855	92.580	64.739	92.578	0.002	64.740	-0.001	92.579	0.001	64.740	-0.001	
	5200	14.859	93.186	67.711	93.185	0.001	67.710	0.001	93.186	0.000	67.711	-0.000	
	5400	14.862	93.769	70.683	93.767	0.002	70.682	0.001	93.768	0.001	70.684	-0.001	
	5600	14.865	94.330	73.656	94.328	0.002	73.654	0.001	94.329	0.001	73.656	-0.000	
	5800	14.868	94.871	76.629	94.869	0.002	76.628	0.001	94.870	0.001	76.629	-0.000	
	6000	14.870	95.393	79.603	95.391	0.002	79.603	0.000	95.392	0.001	79.603	0.000	
	6200	14.873	95.897	82.577	95.895	0.002	82.579	-0.002	95.896	0.001	82.576	0.001	

TITANIUM DIOXIDE, ANATASE (C) 0 2TI 1 0 0 0 0 367
 MOL. WT.= 79.890 BLOCK= 2033 NO. POINT = 27
 DATA FROM 0 TO 2500 K HFORM(KCAL/(MOLE)) = -223.000 KEY = 395
 FITS FOR NOTS RMS = 0.001036
 2 8 1 22 0 0 0 0 0 0 0 TITANIUM DIOXIDE, ANATASE (C) 30J 367 395
 +1.7488143E+1+4.7166919E-1-1.4226478E-1+3.0158415E-2 400 2500 31J 367 395
 -3.8575744E-1-2.2953071E+2+3.0783523E+1-2.2300000E+2 02TI (C) 32J 367 395

TITA
 MOL
 ATA
 FITS
 8 1
 .4971
 .3744

FITS FOR EST RMS LOW = 0.000480 RMS HIGH = 0.000480
 2 8 1 22 0 0 0 0 0 0 0 TITANIUM DIOXIDE, ANATASE (C) 3002TIS
 -223000+6+474959+5+175949+2+257412-3-394448+6+510569+2 4002500J 3673102TIS
 -223000+6+474959+5+175949+2+257412-3-394448+6+510569+2 4002500J 3673202TIS

FITS
 8 1
 25799
 25799

-----NOTS-----										-----EST-----			
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
75	400	15.244	16.144	1.465	16.143	0.001	1.464	0.001	16.146	-0.002	1.466	-0.001	
22	500	16.153	19.654	3.040	19.652	0.002	3.038	0.002	19.655	-0.001	3.040	0.000	
19	600	16.658	22.647	4.682	22.645	0.002	4.681	0.001	22.647	-0.000	4.682	-0.000	
16	700	16.973	25.239	6.364	25.238	0.001	6.363	0.001	25.240	-0.001	6.364	-0.000	
13	800	17.186	27.520	8.073	27.519	0.001	8.072	0.001	27.521	-0.001	8.073	0.000	
16	900	17.341	29.554	9.799	29.553	0.001	9.799	0.000	29.554	-0.000	9.799	-0.000	
15	1000	17.459	31.387	11.540	31.387	0.000	11.539	0.001	31.387	-0.000	11.539	0.001	
13	1100	17.553	33.056	13.290	33.056	0.000	13.290	-0.000	33.056	0.000	13.290	-0.000	
10	1200	17.630	34.586	15.050	34.587	-0.001	15.050	0.000	34.587	-0.001	15.049	0.001	
12	1300	17.696	36.000	16.816	36.001	-0.001	16.816	-0.000	36.000	-0.000	16.816	0.000	
13	1400	17.754	37.314	18.588	37.315	-0.001	18.589	-0.001	37.314	0.000	18.588	-0.000	
12	1500	17.806	38.541	20.366	38.541	-0.000	20.367	-0.001	38.541	0.000	20.366	-0.000	
10	1600	17.853	39.691	22.149	39.692	-0.001	22.150	-0.001	39.691	-0.000	22.149	-0.000	
14	1700	17.896	40.775	23.937	40.776	-0.001	23.938	-0.001	40.775	-0.000	23.937	0.000	
13	1800	17.936	41.799	25.729	41.799	-0.001	25.729	0.000	41.799	-0.000	25.728	0.001	
11	1900	17.974	42.770	27.524	42.770	-0.000	27.524	-0.000	42.770	0.000	27.524	0.000	
11	2000	18.011	43.693	29.323	43.693	0.000	29.323	-0.000	43.693	0.000	29.323	-0.000	
11	2100	18.046	44.572	31.126	44.572	-0.000	31.126	0.000	44.572	-0.000	31.126	-0.000	
12	2200	18.079	45.412	32.932	45.412	-0.000	32.932	0.000	45.413	-0.001	32.932	-0.000	
12	2300	18.112	46.217	34.742	46.217	0.000	34.741	0.001	46.217	-0.000	34.742	-0.000	
11	2400	18.144	46.988	36.555	46.989	-0.001	36.555	0.000	46.989	-0.001	36.555	0.000	
11	2500	18.175	47.730	38.371	47.730	-0.000	38.371	-0.000	47.730	0.000	38.371	0.000	

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TITANIUM DIOXIDE, RUTILE (C) 0 2TI 1 0 0 0 0 367
 MOL. WT. = 79.890 BLOCK = 2036 NO. POINT = 27
 DATA FROM 0 TO 2500 K HFORM (KCAL/(MOLE)) = -225.800 KEY = 393
 FITS FOR NOTS RMS = 0.001016
 8 1 22 0 0 0 0 0 0 0 TITANIUM DIOXIDE, RUTILE (C) 30J 367 396
 .4971480E+1+2.8422718E+0-9.1767787E-2+2.0020261E-2 400 2500 31J 367 396
 .3744201E-1-2.3118580E+2+2.7971847E+1-2.2579998E+202TI (C) 32J 367 396

TITAN
 MOL.
 DATA F
 FITS F
 2 8 1
 +1.78062
 -1.97857

FITS FOR EST RMS LOW = 0.000395 RMS HIGH = 0.000395
 8 1 22 0 0 0 0 0 0 0 TITANIUM DIOXIDE, RUTILE (C) 3002TI\$
 25799+6+519638+5+150339+2+270976-2-242880+6+527219+2 4002500J 3673102TI\$
 25799+6+519638+5+150339+2+270976-2-242880+6+527219+2 4002500J 3673202TI\$

FITS F
 2 8 1
 -210725+
 -210725+

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T			
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/		
400	14.621	16.126	1.423	16.126	0.000	1.422	0.001	16.130	-0.004	1.425	-0.002	400	14.		
500	15.429	19.481	2.928	19.480	0.001	2.927	0.001	19.482	-0.001	2.928	-0.000	600	15.		
600	15.991	22.346	4.500	22.344	0.002	4.498	0.002	22.346	-0.000	4.500	0.000	800	16.		
700	16.438	24.845	6.122	24.844	0.001	6.120	0.002	24.845	-0.000	6.122	0.000	1000	17.		
800	16.824	27.066	7.785	27.064	0.002	7.784	0.001	27.065	0.001	7.785	0.000	1200	18.		
900	17.173	29.068	9.485	29.067	0.001	9.484	0.001	29.067	0.001	9.485	0.000	1400	21.		
1000	17.500	30.894	11.219	30.894	0.000	11.219	0.000	30.894	0.000	11.219	0.000	1600	21.		
1100	17.813	32.577	12.985	32.577	0.000	12.985	0.000	32.577	0.000	12.985	0.000	1800	21.		
1200	18.116	34.140	14.781	34.140	-0.000	14.782	-0.001	34.140	0.000	14.781	-0.000	2000	21.		
1300	18.412	35.601	16.608	35.602	-0.001	16.609	-0.001	35.602	-0.001	16.608	0.000	2200	21.		
1400	18.703	36.977	18.464	36.977	-0.000	18.465	-0.001	36.977	0.000	18.464	0.000	2400	21.		
1500	18.990	38.277	20.348	38.278	-0.001	20.349	-0.001	38.277	0.000	20.348	-0.000	2600	21.		
1600	19.274	39.511	22.262	39.512	-0.001	22.262	-0.001	39.512	-0.001	22.262	0.000	2800	21.		
1700	19.556	40.688	24.203	40.689	-0.001	24.204	-0.001	40.689	-0.001	24.203	-0.000	3000	21.		
1800	19.836	41.814	26.173	41.815	-0.001	26.173	-0.000	41.814	-0.000	26.173	0.000	3200	21.		
1900	20.115	42.894	28.170	42.895	-0.001	28.171	-0.001	42.894	-0.000	28.170	-0.000	3400	21.		
2000	20.393	43.933	30.196	43.933	-0.000	30.196	0.000	43.933	-0.000	30.196	0.000	3600	21.		
2100	20.670	44.934	32.249	44.935	-0.001	32.249	0.000	44.935	-0.001	32.249	-0.000	3800	21.		
2200	20.946	45.902	34.330	45.903	-0.001	34.329	0.001	45.903	-0.001	34.330	0.000	4000	21.		
2300	21.221	46.840	36.438	46.840	0.000	36.437	0.001	46.840	0.000	36.438	-0.000	4200	21.		
2400	21.496	47.749	38.574	47.749	0.000	38.574	0.000	47.749	0.000	38.574	0.000	4400	21.		
2500	21.771	48.632	40.737	48.632	-0.000	40.737	-0.000	48.632	0.000	40.737	-0.000	4600	21.		
												4800	21.		
												5000	21.		

TITANIUM DIOXIDE (L) 0 2TI 1 0 0 0 0 367
 MOL. WT. = 79.890 BLOCK = 2039 NO. POINT = 49
 DATA FROM 298 TO 5000 K HFORM (KCAL/(MOLE)) = -210.726 KEY = 397
 FITS FOR NOTS RMS = 0.130699
 2 8 1 22 0 0 0 0 0 0 0 TITANIUM DIOXIDE (L) 20J 367 397
 +1.7806274E+1+3.6921195E+0-1.2087211E+0+1.2224215E-1 400 5000 21J 367 397
 -1.9785766E+0-2.2094960E+2+3.3449996E+1-2.1072599E+202TI (L) 22J 367 397

FITS FOR EST RMS LOW = 0.155056 RMS HIGH = 0.155056
 2 8 1 22 0 0 0 0 0 0 0 TITANIUM DIOXIDE (L) 2002TI*
 -210725+6+520377+5+219363+2-182070-3-308996+7+598839+2 4005000J 3672102TI*
 -210725+6+520377+5+219363+2-182070-3-308996+7+598839+2 4005000J 3672202TI*

H C/M	-----NOTS-----												-----EST-----	
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	ES C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M		
0.002	400	14.621	23.029	1.423	24.700	-1.671	2.116	-0.693	25.642	-2.613	2.503	-1.080		
0.000	600	15.991	29.249	4.500	29.109	0.140	4.339	0.161	29.136	0.113	4.297	0.203		
0.000	800	16.824	33.969	7.785	33.610	0.359	7.482	0.303	33.532	0.437	7.371	0.414		
0.000	1000	17.500	37.797	11.219	37.568	0.229	11.035	0.184	37.522	0.275	10.953	0.266		
0.000	1200	18.116	41.043	14.781	41.014	0.029	14.818	-0.037	41.013	0.030	14.786	-0.005		
0.000	1400	21.000	43.880	18.464	44.042	-0.162	18.749	-0.285	44.073	-0.193	18.758	-0.294		
0.000	1600	21.000	46.684	22.664	46.733	-0.049	22.779	-0.115	46.781	-0.097	22.814	-0.150		
0.000	1800	21.000	49.157	26.864	49.147	0.010	26.879	-0.015	49.202	-0.045	26.925	-0.061		
0.000	2000	21.000	51.370	31.064	51.332	0.038	31.028	0.036	51.386	-0.016	31.072	-0.008		
0.000	2200	21.000	53.371	35.264	53.325	0.046	35.210	0.054	53.374	-0.003	35.242	0.022		
0.000	2400	21.000	55.198	39.464	55.154	0.044	39.413	0.051	55.195	0.003	39.428	0.036		
0.000	2600	21.000	56.879	43.664	56.841	0.038	43.628	0.036	56.875	0.004	43.626	0.038		
0.000	2800	21.000	58.436	47.864	58.404	0.032	47.847	0.017	58.432	0.004	47.830	0.034		
0.000	3000	21.000	59.884	52.064	59.859	0.025	52.066	-0.002	59.884	0.000	52.038	0.026		
0.000	3200	21.000	61.240	56.264	61.219	0.021	56.280	-0.016	61.242	-0.003	56.248	0.016		
0.000	3400	21.000	62.513	60.464	62.495	0.018	60.488	-0.024	62.519	-0.006	60.458	0.006		
0.000	3600	21.000	63.713	64.664	63.695	0.018	64.688	-0.024	63.722	-0.009	64.667	-0.003		
0.000	3800	21.000	64.849	68.864	64.829	0.020	68.882	-0.018	64.859	-0.010	68.875	-0.011		
0.000	4000	21.000	65.926	73.064	65.903	0.023	73.071	-0.007	65.937	-0.011	73.079	-0.015		
0.000	4200	21.000	66.950	77.264	66.924	0.026	77.257	0.007	66.962	-0.012	77.280	-0.016		
0.000	4400	21.000	67.927	81.464	67.899	0.028	81.447	0.017	67.939	-0.012	81.478	-0.014		
0.000	4600	21.000	68.861	85.664	68.832	0.029	85.644	0.020	68.871	-0.010	85.671	-0.007		
	4800	21.000	69.755	89.864	69.728	0.027	89.856	0.008	69.762	-0.007	89.859	0.005		
	5000	21.000	70.612	94.064	70.593	0.019	94.092	-0.028	70.616	-0.004	94.042	0.022		

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EST

C/H	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	K
0.080	11.820	59.474	1.156	59.598	-0.124	1.204	-0.048	59.610	-0.136	1.210	-0.054	400
0.203	13.079	64.531	3.659	64.511	0.020	3.641	0.018	64.511	0.020	3.642	0.017	600
0.414	13.746	68.395	6.348	68.379	0.016	6.334	0.014	68.380	0.015	6.335	0.013	800
0.605	14.117	71.506	9.138	71.499	0.007	9.132	0.006	71.501	0.005	9.134	0.004	1000
0.294	14.339	74.101	11.985	74.099	0.002	11.984	0.001	74.101	-0.000	11.987	-0.002	1200
0.150	14.480	76.323	14.868	76.322	0.001	14.869	-0.001	76.325	-0.002	14.872	-0.004	1400
0.061	14.575	78.263	17.774	78.263	0.000	17.776	-0.002	78.264	-0.001	17.778	-0.004	1600
0.008	14.641	79.984	20.696	79.983	0.001	20.697	-0.001	79.984	-0.000	20.698	-0.002	1800
0.022	14.690	81.529	23.630	81.528	0.001	23.630	-0.000	81.529	0.000	23.630	0.000	2000
0.036	14.726	82.931	26.571	82.930	0.001	26.571	-0.000	82.930	0.001	26.570	0.001	2200
0.038	14.754	84.213	29.519	84.212	0.001	29.519	0.000	84.212	0.001	29.517	0.002	2400
0.034	14.776	85.395	32.472	85.394	0.001	32.472	0.000	85.394	0.001	32.470	0.002	2600
0.026	14.793	86.491	35.429	86.489	0.002	35.429	0.000	86.490	0.001	35.429	0.000	2800
0.016	14.807	87.512	38.389	87.511	0.001	38.389	0.000	87.512	0.000	38.392	-0.003	3000
0.006	14.807	87.512	38.389	87.511	0.001	38.389	0.000	87.512	0.000	38.392	-0.003	3200
0.003	14.819	88.468	41.352	88.467	0.001	41.352	0.000	88.467	0.001	41.353	-0.001	3400
0.011	14.828	89.366	44.317	89.365	0.001	44.317	0.000	89.365	0.001	44.316	0.001	3600
0.015	14.836	90.214	47.283	90.213	0.001	47.284	-0.001	90.213	0.001	47.282	0.001	3800
0.016	14.843	91.017	50.251	91.016	0.001	50.252	-0.001	91.015	0.002	50.250	0.001	4000
0.014	14.849	91.778	53.220	91.777	0.001	53.221	-0.001	91.777	0.001	53.219	0.001	4200
0.007	14.854	92.503	56.191	92.502	0.001	56.192	-0.001	92.502	0.001	56.189	0.001	4400
0.005	14.858	93.194	59.162	93.193	0.001	59.163	-0.001	93.192	0.001	59.161	0.001	4600
0.022	14.862	93.854	62.134	93.853	0.001	62.134	-0.000	93.853	0.001	62.134	0.000	4800
	14.866	94.487	65.107	94.486	0.001	65.107	0.000	94.486	0.001	65.107	0.000	5000
	14.869	95.094	68.080	95.093	0.001	68.080	0.000	95.093	0.001	68.081	-0.001	5200
	14.871	95.677	71.054	95.676	0.001	71.053	0.001	95.676	0.001	71.055	-0.001	5400
	14.874	96.238	74.029	96.237	0.001	74.028	0.001	96.238	0.000	74.029	-0.000	5600
	14.876	96.779	77.004	96.778	0.001	77.003	0.001	96.779	0.000	77.004	0.000	5800
	14.878	97.301	79.979	97.300	0.001	79.979	0.000	97.300	0.001	79.979	0.000	6000
	14.879	97.806	82.955	97.805	0.001	82.956	-0.001	97.805	0.001	82.954	0.001	

ZIRCONIUM DIOXIDE

(C) 0 2ZR 1

1265

MOL. WT. = 123.210 BLOCK = 2050 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -262.300 KEY = 399

FITS FOR NOTS RMS = 0.331282

2 8 1 40 0 0 0 0 0 0 0 ZIRCONIUM DIOXIDE (C) 30J1265 399
 +2.7331848E+1-6.9691181E+0+1.6770734E+0-1.3144946E-1 400 6000 31J1265 399
 -2.2122039E+0-2.7689355E+2+3.6982421E+1-2.6229980E+202ZR (C) 32J1265 399

FITS FOR FST RMS LOW = 0.438000 RMS HIGH = 0.438000

2 8 1 4 0 0 0 0 0 0 0 ZIRCONIUM DIOXIDE (C) 3002ZR\$
 -262299+6+491159+5+175975+2+193625-4+205259+7+525439+2 4006000J12653102ZR\$
 -262299+6+491159+5+175975+2+193625-4+205259+7+525439+2 4006000J12653202ZR\$

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.054	400	15.260	16.268	1.471	16.195	0.073	1.347	0.124	10.736	5.532	-1.170	2.641	
0.017	600	16.787	22.791	4.699	22.204	0.587	4.354	0.345	21.439	1.352	4.061	0.638	
0.013	800	17.555	27.733	8.139	27.551	0.182	8.080	0.059	27.752	-0.019	8.439	-0.300	
0.004	1000	18.104	31.712	11.707	31.914	-0.202	11.992	-0.285	32.260	-0.548	12.475	-0.768	
0.002	1200	18.567	35.054	15.375	35.503	-0.449	15.928	-0.553	35.786	-0.732	16.341	-0.966	
0.004	1400	18.989	37.948	19.131	38.510	-0.562	19.829	-0.698	38.692	-0.744	20.110	-0.979	
0.004	1600	17.800	41.355	24.210	41.077	0.278	23.674	0.536	41.168	0.187	23.818	0.392	
0.002	1800	17.800	43.451	27.770	43.306	0.145	27.458	0.312	43.329	0.122	27.487	0.283	
0.000	2000	17.800	45.327	31.330	45.269	0.058	31.184	0.146	45.247	0.080	31.128	0.202	
0.001	2200	17.800	47.023	34.890	47.021	0.002	34.859	0.031	46.972	0.051	34.749	0.141	
0.002	2400	17.800	48.572	38.450	48.601	-0.029	38.491	-0.041	48.541	0.031	38.355	0.095	
0.002	2600	17.800	49.997	42.010	50.041	-0.044	42.088	-0.078	49.980	0.017	41.950	0.060	
0.000	2800	17.800	51.316	45.570	51.364	-0.048	45.658	-0.088	51.309	0.007	45.536	0.034	
0.003	3000	17.800	52.544	49.130	52.589	-0.045	49.210	-0.080	52.544	0.000	49.116	0.014	
0.003	3200	17.800	53.693	52.690	53.731	-0.038	52.750	-0.060	53.697	-0.004	52.690	-0.000	
0.001	3400	17.800	54.772	56.250	54.802	-0.030	56.284	-0.034	54.780	-0.008	56.260	-0.010	
0.001	3600	17.800	55.789	59.810	55.812	-0.023	59.818	-0.008	55.799	-0.010	59.827	-0.017	
0.001	3800	17.800	56.752	63.370	56.769	-0.017	63.355	0.015	56.762	-0.010	63.391	-0.021	
0.001	4000	17.800	57.665	66.930	57.677	-0.012	66.899	0.031	57.676	-0.011	66.952	-0.022	
0.001	4200	17.800	58.533	70.490	58.544	-0.011	70.450	0.040	58.544	-0.011	70.512	-0.022	
0.001	4400	17.800	59.361	74.050	59.372	-0.011	74.011	0.039	59.372	-0.011	74.070	-0.020	
0.001	4600	17.800	60.152	77.610	60.165	-0.013	77.580	0.030	60.162	-0.010	77.628	-0.018	
0.000	4800	17.800	60.910	81.170	60.926	-0.016	81.155	0.015	60.919	-0.009	81.184	-0.014	
0.000	5000	17.800	61.637	84.730	61.656	-0.019	84.733	-0.003	61.645	-0.008	84.740	-0.010	
0.001	5200	17.800	62.335	88.290	62.358	-0.023	88.310	-0.020	62.342	-0.007	88.295	-0.005	
0.001	5400	17.800	63.007	91.850	63.032	-0.025	91.881	-0.031	63.013	-0.006	91.849	0.001	
0.000	5600	17.800	63.654	95.410	63.679	-0.025	95.439	-0.029	63.659	-0.005	95.404	0.006	
0.000	5800	17.800	64.279	98.970	64.299	-0.020	98.976	-0.006	64.283	-0.004	98.958	0.012	
0.000	6000	17.800	64.882	102.530	64.893	-0.011	102.482	0.048	64.885	-0.003	102.512	0.018	

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-684

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
00	15.260	22.072	1.471	21.631	0.441	1.258	0.213	24.498	-2.426	2.621	-1.150	400
00	16.787	28.595	4.699	28.390	0.205	4.603	0.096	28.828	-0.233	4.814	-0.115	600
00	17.555	33.538	8.139	33.526	0.012	8.178	-0.039	33.433	0.105	8.030	0.109	800
00	18.104	37.517	11.707	37.664	-0.147	11.888	-0.181	37.471	0.046	11.654	0.053	1000
200	18.567	40.859	15.375	41.135	-0.276	15.698	-0.323	40.960	-0.101	15.483	-0.108	1200
400	18.989	43.753	19.131	44.132	-0.379	19.587	-0.456	43.999	-0.246	19.428	-0.297	1400
00	17.800	47.160	24.210	46.771	0.389	23.540	0.670	46.681	0.479	23.445	0.765	1600
400	17.800	49.256	27.770	49.131	0.125	27.548	0.222	49.075	0.181	27.510	0.260	1800
00	21.000	51.132	31.330	51.266	-0.134	31.601	-0.271	51.234	-0.102	31.609	-0.279	2000
200	21.000	53.133	35.530	53.216	-0.083	35.692	-0.162	53.199	-0.066	35.732	-0.202	2200
400	21.000	54.960	39.730	55.009	-0.049	39.815	-0.085	55.000	-0.040	39.873	-0.143	2400
600	21.000	56.641	43.930	56.669	-0.028	43.962	-0.032	56.663	-0.022	44.028	-0.098	2600
800	21.000	58.197	48.130	58.213	-0.016	48.129	0.001	58.206	-0.009	48.193	-0.063	2800
00	21.000	59.646	52.330	59.656	-0.010	52.312	0.018	59.646	0.000	52.366	-0.036	3000
200	21.000	61.002	56.530	61.009	-0.007	56.505	0.025	60.995	0.007	56.546	-0.016	3000
400	21.000	62.275	60.730	62.282	-0.007	60.706	0.024	62.263	0.012	60.731	-0.001	3200
600	21.000	63.475	64.930	63.484	-0.009	64.912	0.018	63.461	0.014	64.921	0.009	3400
800	21.000	64.610	69.130	64.622	-0.012	69.120	0.010	64.594	0.016	69.114	0.016	3600
00	21.000	65.688	73.330	65.701	-0.013	73.327	0.003	65.670	0.018	73.310	0.020	3800
200	21.000	66.712	77.530	66.727	-0.015	77.534	-0.004	66.695	0.017	77.508	0.022	4000
400	21.000	67.689	81.730	67.705	-0.016	81.738	-0.008	67.672	0.017	81.709	0.021	4200
600	21.000	68.623	85.930	68.639	-0.016	85.939	-0.009	68.606	0.017	85.910	0.020	4400
800	21.000	69.516	90.130	69.532	-0.016	90.138	-0.008	69.500	0.016	90.114	0.016	4600
00	21.000	70.374	94.330	70.389	-0.015	94.334	-0.004	70.358	0.016	94.318	0.012	4800
200	21.000	71.197	98.530	71.211	-0.014	98.529	0.001	71.183	0.014	98.523	0.007	5000
400	21.000	71.990	102.730	72.003	-0.013	102.725	0.005	71.976	0.014	102.729	0.001	5200
600	21.000	72.754	106.930	72.766	-0.012	106.923	0.007	72.741	0.013	106.935	-0.005	5400
800	21.000	73.490	111.130	73.504	-0.014	111.126	0.004	73.479	0.011	111.142	-0.012	5600
00	21.000	74.202

ZIRCONIUM DIOXIDE (G) 0 2ZR 1 1265
MOL. WT.= 123.210 BLOCK= 2062 NO. POINT = 62
DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -68.400 KEY = 401
FITS FOR NOTS RMS = 0.002957
2 8 1 40 0 0 0 0 0 0 0 ZIRCONIUM DIOXIDE (G) 10J1265 401
+1.3789502E+1+7.8385412E-2-1.8120054E-2+1.4148810E-3 400 6000 11J1265 401
-3.9266967E-1-7.3716827E+1+8.0194046E+1-6.8399993E+102ZR(G) 12J1265 401

FITS FOR EST RMS LOW = 0.003052 RMS HIGH = 0.004388
2 8 1 40 0 0 0 0 0 0 0 ZIRCONIUM DIOXIDE (G) 1002ZR
-683999+5+364017+5+138347+2+243040-4-399936+6+955319+2 4003000J12651102ZR
-683999+5+364034+5+140018+2-132992-4-108619+7+955319+230006000J12651202ZR

T C/M	-----NOTS-----								-----EST-----				T K
	K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
.150	400	11.818	68.756	1.165	68.816	-0.060	1.187	-0.022	68.821	-0.065	1.190	-0.025	400
.115	600	12.759	73.750	3.634	73.739	0.011	3.624	0.010	73.741	0.009	3.626	0.008	600
.109	800	13.207	77.489	6.236	77.481	0.008	6.228	0.008	77.483	0.006	6.230	0.006	800
.053	1000	13.442	80.464	8.903	80.460	0.004	8.899	0.004	80.462	0.002	8.902	0.001	1000
.108	1200	13.578	82.928	11.606	82.926	0.002	11.605	0.001	82.928	-0.000	11.607	-0.001	1200
.297	1400	13.663	85.028	14.331	85.027	0.001	14.331	0.000	85.029	-0.001	14.333	-0.002	1400
.765	1600	13.720	86.856	17.070	86.856	0.000	17.070	0.000	86.857	-0.001	17.071	-0.001	1600
.260	1800	13.759	88.475	19.818	88.474	0.001	19.818	0.000	88.475	-0.000	19.819	-0.001	1800
.279	2000	13.787	89.926	22.573	89.926	0.000	22.573	0.000	89.926	0.000	22.573	0.000	2000
.202	2200	13.808	91.241	25.332	91.241	0.000	25.332	-0.000	91.241	0.000	25.332	0.000	2200
.143	2400	13.824	92.443	28.096	92.443	0.000	28.096	0.000	92.443	0.000	28.095	0.001	2400
.098	2600	13.837	93.550	30.862	93.550	0.000	30.862	0.000	93.550	0.000	30.861	0.001	2600
.063	2800	13.847	94.576	33.630	94.576	0.000	33.630	-0.000	94.576	0.000	33.630	-0.000	2800
.036	3000	13.855	95.532	36.401	95.532	0.000	36.401	0.000	95.532	0.000	36.402	-0.001	3000
.016	3000	13.855	95.532	36.401	95.532	0.000	36.401	0.000	95.532	0.000	36.403	-0.002	3000
.001	3200	13.862	96.426	39.172	96.426	0.000	39.173	-0.001	96.426	0.000	39.173	-0.001	3200
.009	3400	13.868	97.267	41.945	97.267	0.000	41.946	-0.001	97.266	0.001	41.945	0.000	3400
.016	3600	13.872	98.060	44.719	98.059	0.001	44.720	-0.001	98.058	0.002	44.718	0.001	3600
.020	3800	13.876	98.810	47.494	98.810	0.000	47.495	-0.001	98.808	0.002	47.493	0.001	3800
.022	4000	13.879	99.522	50.270	99.521	0.001	50.270	-0.000	99.520	0.002	50.268	0.002	4000
.021	4200	13.882	100.199	53.046	100.199	0.000	53.046	-0.000	100.198	0.001	53.045	0.001	4200
.020	4400	13.885	100.845	55.823	100.844	0.001	55.823	0.000	100.844	0.001	55.822	0.001	4400
.016	4600	13.887	101.462	58.600	101.462	0.000	58.600	0.000	101.461	0.001	58.600	0.000	4600
.012	4800	13.889	102.053	61.378	102.053	0.000	61.377	0.001	102.052	0.001	61.378	0.000	4800
.007	5000	13.891	102.620	64.155	102.620	0.000	64.155	-0.000	102.619	0.001	64.156	-0.001	5000
.001	5200	13.892	103.165	66.934	103.164	0.001	66.933	0.001	103.164	0.001	66.934	-0.000	5200
.005	5400	13.894	103.689	69.712	103.689	0.000	69.712	0.000	103.688	0.001	69.713	-0.001	5400
.012	5600	13.895	104.194	72.491	104.194	-0.000	72.491	0.000	104.194	0.000	72.491	-0.000	5600
.019	5800	13.896	104.682	75.270	104.682	0.000	75.270	-0.000	104.681	0.001	75.270	-0.000	5800
	6000	13.897	105.153	78.050	105.153	0.000	78.050	-0.000	105.152	0.001	78.048	0.001	6000

OZONE (G) 0 3 661
 MOL. WT. = 47.990 BLOCK = 2068 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFCRM(KCAL/(MOLE)) = 34.100 KEY = 402
 FITS FOR NOTS RMS = 0.005423
 8 0 0 0 0 0 0 0 0 0 OZONE (G) 10J 661 402
 .3591326E+1+3.2308995E-1-4.3436598E-2+3.2440060E-3 400 6000 11J 661 402
 .9530273E-1+2.7991287E+1+7.03177E+1+3.4099990E+103 (G) 12J 661 402

FITS FOR EST RMS LOW = 0.007517 RMS HIGH = 0.004523
 8 0 0 0 0 0 0 0 0 0 OZONE (G) 1003
 .40999+5+360259+5+137058+2+191319-3-704800+6+860919+2 4003000J 6611103
 .40999+5+360261+5+140187+2+110126-3-167398+7+860919+230006000J 6611203

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	-----NOTS-----								-----EST-----							
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T			
(C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K			
.025	400	10.455	59.992	1.012	60.132	-0.140	1.066	-0.054	60.142	-0.150	1.072	-0.060	400			
.008	400	11.916	64.536	3.263	64.513	0.023	3.243	0.020	64.514	0.022	3.245	0.018	600			
.006	400	12.704	68.083	5.733	68.065	0.018	5.717	0.016	68.067	0.016	5.719	0.014	800			
.001	400	13.151	70.971	8.323	70.963	0.008	8.316	0.007	70.965	0.006	8.319	0.004	1000			
.001	200	13.426	73.395	10.982	73.392	0.003	10.981	0.001	73.395	0.000	10.985	-0.003	1200			
.002	400	13.611	75.479	13.687	75.478	0.001	13.689	-0.002	75.481	-0.002	13.692	-0.005	1400			
.001	600	13.743	77.305	16.423	77.305	-0.000	16.425	-0.002	77.307	-0.002	16.427	-0.004	1600			
.001	400	13.843	78.930	19.182	78.930	0.000	19.184	-0.002	78.931	-0.001	19.185	-0.003	1800			
.000	600	13.922	80.393	21.959	80.392	0.001	21.960	-0.001	80.392	0.001	21.959	-0.000	2000			
.000	200	13.988	81.723	24.750	81.722	0.001	24.750	-0.000	81.722	0.001	24.749	0.001	2200			
.001	400	14.045	82.943	27.554	82.941	0.002	27.553	0.001	82.941	0.002	27.551	0.003	2400			
.001	600	14.094	84.069	30.368	84.067	0.002	30.367	0.001	84.067	0.002	30.365	0.003	2600			
.000	400	14.139	85.115	33.191	85.113	0.002	33.190	0.001	85.114	0.001	33.191	0.000	2800			
.001	200	14.180	86.092	36.023	86.090	0.002	36.022	0.001	86.092	0.000	36.026	-0.003	3000			
.002	400	14.180	86.092	36.023	86.090	0.002	36.022	0.001	86.092	0.000	36.026	-0.003	3000			
.001	200	14.218	87.008	38.863	87.007	0.001	38.862	0.001	87.007	0.001	38.863	-0.000	3200			
.000	400	14.254	87.871	41.710	87.870	0.001	41.710	-0.000	87.870	0.001	41.709	0.001	3400			
.001	600	14.288	88.687	44.564	88.686	0.001	44.565	-0.001	88.686	0.001	44.562	0.002	3600			
.001	400	14.321	89.460	47.425	89.459	0.001	47.426	-0.001	89.459	0.001	47.423	0.002	3800			
.002	600	14.353	90.196	50.293	90.195	0.001	50.294	-0.001	90.194	0.002	50.291	0.002	4000			
.001	200	14.384	90.897	53.166	90.896	0.001	53.167	-0.001	90.895	0.001	53.165	0.001	4200			
.001	400	14.414	91.567	56.046	91.566	0.001	56.047	-0.001	91.565	0.002	56.045	0.001	4400			
.000	600	14.444	92.208	58.932	92.207	0.001	58.932	-0.000	92.207	0.001	58.932	0.000	4600			
.000	400	14.473	92.823	61.824	92.822	0.001	61.824	0.000	92.822	0.001	61.824	0.000	4800			
.001	600	14.501	93.415	64.721	93.413	0.002	64.721	0.000	93.414	0.001	64.722	-0.001	5000			
.000	200	14.529	93.984	67.624	93.983	0.001	67.623	0.001	93.983	0.001	67.625	-0.001	5200			
.001	400	14.557	94.533	70.533	94.531	0.001	70.532	0.001	94.532	0.001	70.533	-0.000	5400			
.000	600	14.585	95.063	73.447	95.061	0.002	73.446	0.001	95.062	0.001	73.447	-0.000	5600			
.000	400	14.612	95.575	76.366	95.574	0.001	76.366	-0.000	95.574	0.001	76.366	-0.000	5800			
.001	600	14.639	96.071	79.292	96.070	0.001	79.293	-0.001	96.070	0.001	79.290	0.002	6000			

SULFUR TRIOXIDE

(G) 0 3S 1

965

MOL. WT. = 80.060 BLOCK = 2075 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -94.590 KEY = 403

FITS FOR NOTS RMS = 0.011439

3 8 1 16 0 0 0 0 0 0 0 0 Sulfur trioxide (G) 10J 965 403
 +1.9062942E+1+4.9560856E-1-1.0812741E-1+7.9943500E-3 400 6000 11J 965 403
 -1.2142028E+0-1.0384637E+2+7.8933380E+1-9.4589996E+103S(G) 12J 965 403

FITS FOR EST RMS LOW = 0.017362 RMS HIGH = 0.005996

3 8 1 16 0 0 0 0 0 0 0 Sulfur trioxide (G) 1003S

-945899+5+497651+5+193657+2+160527-3-127033+7+101018+3 4003000J 9651103S

-945899+5+497623+5+200081+2-199559-4-283315+7+101018+330006000J 9651203S

-----NOTS-----

-----EST-----

/M	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
060	400	13.784	65.146	1.322	65.450	-0.304	1.442	-0.120	65.481	-0.335	1.457	-0.135
018	600	16.075	71.209	4.328	71.160	0.049	4.287	0.041	71.160	0.049	4.288	0.040
014	800	17.391	76.031	7.687	75.991	0.040	7.653	0.034	75.991	0.040	7.654	0.033
004	1000	18.157	80.001	11.248	79.985	0.016	11.235	0.013	79.987	0.014	11.238	0.009
003	1200	18.628	83.357	14.930	83.352	0.005	14.930	0.000	83.356	0.001	14.935	-0.005
005	1400	18.933	86.253	18.688	86.252	0.001	18.693	-0.005	86.256	-0.003	18.699	-0.011
004	1600	19.140	88.795	22.497	88.796	-0.001	22.503	-0.006	88.798	-0.003	22.507	-0.010
003	1800	19.286	91.058	26.340	91.058	-0.000	26.345	-0.005	91.059	-0.001	26.346	-0.006
000	2000	19.393	93.096	30.209	93.095	0.001	30.211	-0.002	93.095	0.001	30.210	-0.001
001	2200	19.474	94.949	34.096	94.946	0.003	34.096	-0.000	94.945	0.004	34.093	0.003
003	2400	19.536	96.646	37.997	96.643	0.003	37.996	0.001	96.641	0.005	37.992	0.005
003	2600	19.585	98.212	41.909	98.208	0.004	41.907	0.002	98.207	0.005	41.904	0.005
000	2800	19.623	99.664	45.830	99.661	0.003	45.828	0.002	99.661	0.003	45.829	0.001
003	3000	19.655	101.019	49.758	101.016	0.003	49.756	0.002	101.019	0.000	49.765	-0.007
003	3000	19.655	101.019	49.758	101.016	0.003	49.756	0.002	101.019	0.000	49.762	-0.004
000	3200	19.681	102.289	53.692	102.285	0.004	53.690	0.002	102.287	0.002	53.693	-0.001
001	3400	19.702	103.483	57.630	103.479	0.004	57.630	0.000	103.480	0.003	57.629	0.001
002	3600	19.721	104.609	61.573	104.606	0.003	61.573	-0.000	104.607	0.002	61.570	0.003
002	3800	19.736	105.676	65.518	105.673	0.003	65.520	-0.002	105.673	0.003	65.516	0.002
002	4000	19.749	106.689	69.467	106.686	0.003	69.469	-0.002	106.686	0.003	69.465	0.002
001	4200	19.761	107.652	73.418	107.650	0.002	73.420	-0.002	107.650	0.002	73.416	0.002
001	4400	19.770	108.572	77.371	108.569	0.003	77.373	-0.002	108.570	0.002	77.370	0.001
000	4600	19.779	109.451	81.326	109.448	0.003	81.327	-0.001	109.449	0.002	81.326	0.000
000	4800	19.787	110.293	85.283	110.290	0.003	85.283	0.000	110.291	0.002	85.283	0.000
001	5000	19.793	111.101	89.241	111.098	0.003	89.240	0.001	111.099	0.002	89.241	-0.000
001	5200	19.799	111.877	93.200	111.874	0.003	93.198	0.002	111.875	0.002	93.201	-0.001
000	5400	19.805	112.625	97.160	112.621	0.004	97.158	0.002	112.623	0.002	97.161	-0.001
000	5600	19.809	113.345	101.122	113.342	0.003	101.120	0.002	113.343	0.002	101.122	0.000
000	5800	19.814	114.040	105.084	114.037	0.003	105.083	0.001	114.038	0.002	105.083	0.001
002	6000	19.817	114.712	109.047	114.709	0.003	109.050	-0.003	114.710	0.002	109.045	0.002

DITITANIUM TRIOXIDE C) 0 3TI 2 0 0 0 0 667
 MOL. WT.= 143.790 BLOCK= 2081 NO. POINT = 32
 DATA FROM 0 TO 3000 K HFORM(KCAL/(MOLE)) = -363.490 KEY = 404
 FITS FOR NOTS RMS = 0.010812
 3 8 2 22 0 0 0 0 0 0 0 DITITANIUM TRIOXIDE C) 30J 667 404
 +3.2094223E+1+4.4970397E+0-1.3913335E+0+2.0406365E-1 400 3000 31J 667 404
 -4.8266601E-1-3.7515209E+2+5.2786026E+1-3.6348999E+203TI2 C) 32J 667 404

FITS FOR EST RMS LOW = 0.015685 RMS HIGH = 0.015685
 3 8 2 22 0 0 0 0 0 0 0 DITITANIUM TRIOXIDE C) 3003TI2\$
 -363489+6+966286+5+345594+2+134216-2-904416+6+971369+2 4003000J 6673103TI2\$
 -363489+6+966286+5+345594+2+134216-2-904416+6+971369+2 4003000J 6673203TI2\$

-----NOTS-----								-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	28.718	26.427	2.647	26.579	-0.152	2.714	-0.067	26.789	-0.362	2.801	-0.154
600	32.630	39.562	9.136	39.524	0.038	9.115	0.021	39.500	0.062	9.094	0.042
800	34.130	49.178	15.829	49.189	-0.011	15.839	-0.010	49.161	0.017	15.817	0.012
1000	34.960	56.890	22.743	56.897	-0.007	22.751	-0.008	56.887	0.003	22.744	-0.001
1200	35.530	63.317	29.796	63.317	-0.000	29.795	0.001	63.318	-0.001	29.800	-0.005
1400	35.980	68.829	36.948	68.827	0.002	36.945	0.003	68.831	-0.002	36.954	-0.006
1600	36.360	73.659	44.184	73.658	0.001	44.181	0.003	73.660	-0.001	44.187	-0.003
1800	36.710	77.962	51.491	77.962	-0.000	51.492	-0.001	77.962	0.000	51.493	-0.002
2000	37.030	81.847	58.865	81.848	-0.001	58.868	-0.003	81.845	0.002	58.864	0.001
2200	37.330	85.390	66.301	85.392	-0.002	66.304	-0.003	85.388	0.002	66.299	0.002
2400	37.620	88.651	73.796	88.652	-0.001	73.798	-0.002	88.648	0.003	73.794	0.002
2600	37.910	91.673	81.350	91.673	-0.000	81.348	0.002	91.671	0.002	81.348	0.002
2800	38.190	94.493	88.960	94.492	0.001	88.957	0.003	94.492	0.001	88.960	0.000
3000	38.470	97.137	96.626	97.139	-0.002	96.628	-0.002	97.137	0.000	96.629	-0.003

DITITANIUM TRIOXIDE (L) 0 3TI 2 0 0 0 0 667
 MOL. WT.= 143.790 BLOCK= 2084 NO. POINT = 29
 DATA FROM 298 TO 3000 K HFORM(KCAL/(MOLE)) = -342.087 KEY = 405
 FITS FOR NOTS RMS = 0.001734
 3 8 2 22 0 0 0 0 0 0 0 DITITANIUM TRIOXIDE (L) 20J 667 405
 +3.7418838E+1+1.4584839E-1-8.3377718E-2+1.4901202E-2 400 3000 21J 667 405
 +7.8430175E-3-3.5322900E+2+6.8226943E+1-3.4208691E+203TI2(L) 22J 667 405

FITS FOR EST RMS LOW = 0.000597 RMS HIGH = 0.000597
 3 8 2 22 0 0 0 0 0 0 0 DITITANIUM TRIOXIDE (L) 2003TI2*
 -342086+6+101318+6+375070+2-247541-5-534400+4+109530+3 4003000J 6672103TI2*
 -342086+6+101318+6+375070+2-247541-5-534400+4+109530+3 4003000J 6672203TI2*

/H	-----NOTS-----												-----EST-----			
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
154	400	37.500	33.972	3.819	33.968	0.004	3.816	0.003	33.981	-0.009	3.823	-0.004				
042	600	37.500	49.177	11.319	49.175	0.002	11.317	0.002	49.179	-0.002	11.320	-0.001				
012	800	37.500	59.965	18.819	59.964	0.001	18.817	0.002	59.965	-0.000	18.819	0.000				
001	1000	37.500	68.333	26.319	68.332	0.001	26.318	0.001	68.333	0.000	26.318	0.001				
005	1200	37.500	75.170	33.819	75.170	-0.000	33.819	0.000	75.170	0.000	33.818	0.001				
006	1400	37.500	80.951	41.319	80.951	-0.000	41.320	-0.001	80.950	0.001	41.318	0.001				
003	1600	37.500	85.958	48.819	85.959	-0.001	48.820	-0.001	85.958	0.000	48.818	0.001				
002	1800	37.500	90.375	56.319	90.376	-0.001	56.321	-0.002	90.375	0.000	56.319	0.000				
001	2000	37.500	94.326	63.819	94.327	-0.001	63.821	-0.002	94.326	-0.000	63.819	0.000				
002	2200	37.500	97.900	71.319	97.901	-0.001	71.320	-0.001	97.900	-0.000	71.319	0.000				
002	2400	37.500	101.163	78.819	101.164	-0.001	78.819	-0.000	101.163	-0.000	78.819	0.000				
002	2600	37.500	104.165	86.319	104.165	-0.000	86.319	0.000	104.165	0.000	86.319	0.000				
000	2800	37.500	106.944	93.819	106.944	-0.000	93.818	0.001	106.944	0.000	93.819	0.000				
003	3000	37.500	109.531	101.319	109.532	-0.001	101.319	-0.000	109.531	0.000	101.319	0.000				

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[illegible]

PHOSPHORUS TRIOXIDE, DIMERIC (G) O 6P 4 1262

MOL. WT.= 219.890 BLOCK= 2089 NO. POINT = 62

DATA FROM 0 TO 6000 K HPORM(KCAL/(MOLE)) = -512.540 KEY = 407

FITS FOR NOTS RMS = 0.013500

6 8 4 15 0 0 0 0 0 0 0 PHOSPHORUS TRIOXIDE, DIMERIC (G) 10J1262 407
+5.4976318E+1+4.2365801E-1-9.6066772E-2+7.3595345E-3 400 6000 11J1262 407
-2.6328125E+0-5.3713964E+2+1.3603746E+2-5.1253979E+206P4 (G) 12J1262 407

FITS FOR EST RMS LOW = 0.016837 RMS HIGH = 0.016724

6 8 4 15 0 0 0 0 0 0 0 PHOSPHORUS TRIOXIDE, DIMERIC (G) 1006P4
-512539+6+142402+6+552163+2+137010-3-266883+7+197488+3 4003000J12621106P4
-512539+6+142409+6+560279+2-560923-4-572467+7+197488+330006000J12621206P4

-----NOTS-----													
-----EST-----													
DH KC/M	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
53 -0.016	400	41.168	93.719	3.876	94.053	-0.334	4.005	-0.129	94.069	-0.350	4.017	-0.141	
51 0.012	600	47.996	111.902	12.891	111.848	0.054	12.844	0.047	111.851	0.051	12.850	0.041	
37 0.009	800	51.036	126.179	22.831	126.136	0.043	22.792	0.039	126.142	0.037	22.800	0.031	
60 0.001	1000	52.594	137.752	33.209	137.732	0.020	33.191	0.018	137.740	0.012	33.201	0.008	
38 -0.004	1200	53.485	147.427	43.825	147.418	0.009	43.819	0.006	147.427	0.000	43.830	-0.005	
99 -0.003	1400	54.040	155.716	54.581	155.713	0.003	54.582	-0.001	155.720	-0.004	54.591	-0.010	
29 -0.003	1600	54.406	162.958	65.428	162.956	0.002	65.431	-0.003	162.961	-0.003	65.437	-0.009	
18 -0.001	1800	54.661	169.381	76.336	169.379	0.002	76.339	-0.003	169.382	-0.001	76.341	-0.005	
61 0.001	2000	54.845	175.150	87.288	175.148	0.002	87.290	-0.002	175.149	0.001	87.288	-0.000	
55 0.003	2200	54.981	180.384	98.271	180.382	0.002	98.272	-0.001	180.381	0.003	98.268	0.003	
95 0.003	2400	55.086	185.173	109.278	185.170	0.003	109.279	-0.001	185.169	0.004	109.273	0.005	
81 -0.003	2600	55.168	189.586	120.304	189.583	0.003	120.304	-0.000	189.582	0.004	120.299	0.005	
	2800	55.233	193.676	131.344	193.674	0.002	131.345	-0.001	193.674	0.002	131.343	0.001	
	3000	55.285	197.489	142.396	197.486	0.003	142.398	-0.002	197.489	0.000	142.402	-0.007	
	3000	55.285	197.489	142.396	197.486	0.003	142.398	-0.002	197.489	0.000	142.410	-0.014	
	3200	55.328	201.058	153.458	201.056	0.002	153.460	-0.002	201.055	0.003	153.461	-0.003	
	3400	55.364	204.414	164.527	204.412	0.002	164.530	-0.003	204.409	0.005	164.525	0.002	
	3600	55.394	207.579	175.603	207.577	0.002	175.606	-0.003	207.573	0.006	175.598	0.005	
	3800	55.419	210.575	186.684	210.573	0.002	186.688	-0.004	210.569	0.006	186.678	0.006	
	4000	55.441	213.418	197.770	213.416	0.002	197.774	-0.004	213.412	0.006	197.764	0.006	
	4200	55.460	216.123	208.861	216.122	0.001	208.864	-0.003	216.118	0.005	208.856	0.005	
	4400	55.476	218.704	219.954	218.702	0.002	219.957	-0.003	218.699	0.005	219.951	0.003	
	4600	55.490	221.170	231.051	221.168	0.002	231.053	-0.002	221.165	0.005	231.050	0.001	
	4800	55.503	223.532	242.150	223.529	0.003	242.151	-0.001	223.528	0.004	242.151	-0.001	
	5000	55.514	225.798	253.252	225.795	0.003	253.251	0.001	225.794	0.004	253.254	-0.002	
	5200	55.524	227.976	264.356	227.972	0.004	264.353	0.003	227.971	0.005	264.358	-0.002	
	5400	55.532	230.071	275.461	230.068	0.003	275.458	0.002	230.067	0.004	275.463	-0.002	
	5600	55.540	232.091	286.568	232.088	0.003	286.566	0.002	232.086	0.005	286.569	-0.001	
	5800	55.547	234.040	297.677	234.037	0.003	297.676	0.000	234.035	0.005	297.676	0.001	
	6000	55.553	235.923	308.787	235.921	0.002	308.790	-0.003	235.918	0.005	308.782	0.005	

PHOSPHORUS PENTOXIDE, DIMERIC (G) O 10P 4

1265

MOL. WT. = 283.880 BLCCK = 2097 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -677.400 KEY = 409

FITS FOR NOTS RMS = 0.033837

10 8 4 15 0 0 0 0 0 0 0 PHOSPHORUS PENTOXIDE, DIMERIC (G) 10J1265 409
+7.7261840E+1+1.3786582E+0-3.0406433E-1+2.2708043E-2 400 6000 11J1265 409
-4.7814941E+0-7.1491137E+2+1.6739103E+2-6.7739990E+2010P4 (G) 12J1265 409

FITS FOR EST RMS LOW = 0.049709 RMS HIGH = 0.023585

10 8 4 15 0 0 0 0 0 0 0 PHOSPHORUS PENTOXIDE, DIMERIC (G) 10010P4
-677399+6+199818+6+780927+2+444712-3-492907+7+255518+3 4003000J126511010P4
-677399+6+199817+6+800316+2-790289-4-103385+8+255518+330006000J126512010P4

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DH

KC/M

0.369

0.246

0.245

0.078

0.072

0.138

0.122

0.042

0.056

0.109

0.070

0.089

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	54.377	111.161	5.096	112.067	-0.906	5.451	-0.355	112.143	-0.982	5.491	-0.395
600	65.043	135.484	17.165	135.339	0.145	17.042	0.123	135.338	0.146	17.047	0.118
800	70.399	155.011	30.766	154.896	0.115	30.666	0.100	154.898	0.113	30.674	0.092
1000	73.329	171.066	45.166	171.016	0.050	45.125	0.040	171.027	0.039	45.140	0.026
1200	75.069	184.602	60.020	184.586	0.016	60.017	0.003	184.600	0.001	60.035	-0.015
1400	76.175	196.263	75.152	196.260	0.003	75.165	-0.013	196.273	-0.010	75.182	-0.030
1600	76.918	206.486	90.466	206.486	0.000	90.483	-0.017	206.495	-0.009	90.494	-0.028
1800	77.439	215.577	105.905	215.576	0.001	105.918	-0.013	215.580	-0.003	105.921	-0.016
2000	77.817	223.757	121.433	223.752	0.005	121.440	-0.007	223.753	0.004	121.435	-0.002
2200	78.101	231.188	137.026	231.180	0.008	137.028	-0.002	231.178	0.010	137.016	0.010
2400	78.318	237.993	152.668	237.984	0.009	152.667	0.001	237.980	0.013	152.653	0.015
2600	78.489	244.269	168.350	244.259	0.010	168.346	0.004	244.257	0.012	168.336	0.014
2800	78.625	250.091	184.062	250.081	0.010	184.058	0.004	250.083	0.008	184.059	0.003
3000	78.735	255.519	199.798	255.509	0.010	199.795	0.003	255.519	0.000	199.818	-0.020
3000	78.735	255.519	199.798	255.509	0.010	199.795	0.003	255.519	0.000	199.818	-0.020
3200	78.825	260.603	215.554	260.594	0.008	215.553	0.001	260.599	0.004	215.560	-0.006
3400	78.900	265.384	231.327	265.376	0.008	231.329	-0.002	265.377	0.007	231.324	0.003
3600	78.963	269.896	247.113	269.889	0.007	247.118	-0.005	269.887	0.009	247.106	0.007
3800	79.017	274.167	262.912	274.160	0.007	262.917	-0.005	274.158	0.009	262.903	0.009
4000	79.063	278.221	278.720	278.215	0.006	278.727	-0.007	278.212	0.009	278.711	0.009
4200	79.102	282.080	294.536	282.073	0.007	294.543	-0.007	282.071	0.009	294.530	0.006
4400	79.137	285.760	310.360	285.753	0.006	310.366	-0.006	285.752	0.008	310.356	0.004
4600	79.167	289.279	326.191	289.271	0.008	326.195	-0.004	289.271	0.008	326.189	0.002
4800	79.193	292.649	342.027	292.641	0.008	342.028	-0.001	292.642	0.007	342.028	-0.001
5000	79.216	295.882	357.868	295.873	0.009	357.866	0.002	295.875	0.007	357.870	-0.002
5200	79.237	298.989	373.713	298.980	0.009	373.708	0.005	298.983	0.006	373.717	-0.004
5400	79.255	301.980	389.562	301.970	0.010	389.556	0.006	301.973	0.007	389.565	-0.004
5600	79.271	304.863	405.415	304.853	0.010	405.409	0.006	304.856	0.007	405.417	-0.002
5800	79.286	307.645	421.271	307.636	0.009	421.269	0.002	307.637	0.008	421.269	0.002
6000	79.300	310.333	437.129	310.326	0.007	437.136	-0.008	310.324	0.008	437.123	0.006

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T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H
000	5.540	7.009	0.542	7.011	-0.002	0.542	0.000	7.015	-0.006	0.544	-0.002
100	5.852	8.282	1.112	8.280	0.002	1.112	0.000	8.280	0.002	1.111	0.001
200	6.165	9.376	1.713	9.375	0.001	1.712	0.001	9.374	0.002	1.712	0.001
300	6.500	10.351	2.346	10.351	0.000	2.346	0.000	10.350	0.001	2.346	0.000
400	6.840	11.241	3.013	11.241	-0.000	3.013	-0.000	11.241	0.000	3.013	0.000
500	7.180	12.067	3.714	12.067	0.000	3.714	-0.000	12.066	0.001	3.714	-0.000
600	7.520	12.841	4.449	12.841	0.000	4.449	-0.000	12.840	0.001	4.449	-0.000
700	7.860	13.573	5.218	13.573	-0.000	5.218	-0.000	13.573	-0.000	5.218	-0.000
800	8.200	14.272	6.021	14.272	-0.000	6.021	-0.000	14.271	0.001	6.021	-0.000
900	8.540	14.942	6.858	14.942	0.000	6.858	-0.000	14.941	0.001	6.858	-0.000
000	8.880	15.587	7.729	15.587	-0.000	7.729	-0.000	15.586	0.001	7.729	0.000
100	9.220	16.211	8.634	16.211	-0.000	8.634	-0.000	16.211	0.000	8.634	0.000
200	9.560	16.817	9.573	16.817	-0.000	9.573	-0.000	16.816	0.001	9.573	0.000
300	9.900	17.407	10.546	17.407	0.000	10.546	0.000	17.406	0.001	10.546	0.000
400	10.240	17.982	11.553	17.982	-0.000	11.553	0.000	17.982	0.000	11.553	0.000
500	10.580	18.545	12.594	18.545	-0.000	12.594	0.000	18.545	0.000	12.594	0.000
600	10.920	19.096	13.669	19.097	-0.001	13.669	-0.000	19.096	0.000	13.669	-0.000

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MOL. WT.= 30.970 BLOCK= 2112 NO. POINT = 17

DATA FROM 0 TO 1500 K HFORM(KCAL/(MOLE)) = 4.173 KEY = 412

FITS FOR NOTS RMS = 0.000315

1 15 0 0 0 0 0 0 0 0 0 PHOSPHORUS, WHITE	(C)	30J	661	412
+7.9981355E+0-3.4287528E+0+2.5577344E+0-6.5888166E-1 400 1500		31J	661	412
-1.4104366E-1+1.4435224E+0+1.9611343E+1+4.1729993E+0P (C)		32J	661	412

PITS FOR EST RMS LOW = 0.000796 RMS HIGH = 0.000796

1 15 0 0 0 0 0 0 0 0 0 PHOSPHORUS, WHITE (C) 30P\$
+417299+4+169851+5+64C813+1-493164-4-248370+5+242426+2 4001500J 66131P\$
+417299+4+169851+5+64C813+1-493164-4-248370+5+242426+2 4001500J 66132P\$

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PHOSPHORUS, DIATOMIC (G) P 2 661
 MOL. WT.= 61.940 BLOCK= 2130 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 42.680 KEY = 416
 FITS FOR NOTS RMS = 0.001678
 2 15 0 0 0 0 0 0 0 0 PHOSPHORUS, DIATOMIC (G) 10J 661 416
 +8.9025726E+0+7.9795658E-2-6.2599480E-3+5.0031929E-4 400 6000 11J 661 416
 -1.7005920E-1+3.9496932E+1+6.2036209E+1+4.2679992E+1P2 (G) 12J 661 416

FITS FOR EST RMS LCW = 0.001210 RMS HIGH = 0.003000
 2 15 0 0 0 0 0 0 0 0 PHOSPHORUS, DIATOMIC (G) 10P2
 +426799+5+238941+5+891591+1+618737-4-171504+6+720419+2 4003000J 66111P2
 +426799+5+238959+5+900712+1+439428-4-619232+6+720419+230006000J 66112P2

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.001	400	8.050	54.418	0.801	54.442	-0.024	0.809	-0.008	54.443	-0.025	0.811	-0.010	
0.000	600	8.485	57.776	2.460	57.772	0.004	2.456	0.004	57.773	0.003	2.457	0.003	
0.000	800	8.690	60.248	4.180	60.244	0.004	4.176	0.004	60.246	0.002	4.178	0.002	
-0.001	1000	8.800	62.200	5.930	62.198	0.002	5.928	0.002	62.199	0.001	5.929	0.001	
0.000	1200	8.868	63.811	7.697	63.810	0.001	7.696	0.001	63.811	-0.000	7.697	-0.000	
-0.000	1400	8.914	65.182	9.476	65.181	0.001	9.475	0.001	65.182	-0.000	9.476	-0.000	
0.000	1600	8.949	66.374	11.262	66.374	0.000	11.262	0.000	66.375	-0.001	11.263	-0.001	
0.001	1800	8.976	67.430	13.055	67.430	0.000	13.054	0.001	67.430	-0.000	13.055	-0.000	
0.001	2000	8.998	68.377	14.852	68.377	0.000	14.852	-0.000	68.377	0.000	14.852	-0.000	
-0.000	2200	9.018	69.235	16.654	69.235	-0.000	16.654	0.000	69.235	-0.000	16.654	0.000	
-0.000	2400	9.035	70.021	18.459	70.021	0.000	18.459	-0.000	70.021	0.000	18.459	0.000	
-0.000	2600	9.051	70.745	20.268	70.745	0.000	20.268	0.000	70.745	0.000	20.267	0.001	
0.000	2800	9.066	71.416	22.079	71.416	0.000	22.080	-0.001	71.416	0.000	22.079	-0.000	
0.000	3000	9.080	72.042	23.894	72.042	0.000	23.894	-0.000	72.042	0.000	23.894	-0.000	
0.001	3000	9.080	72.042	23.894	72.042	0.000	23.894	-0.000	72.042	0.000	23.896	-0.002	
-0.001	3200	9.093	72.628	25.711	72.628	-0.000	25.712	-0.001	72.628	0.000	25.712	-0.001	
-0.001	3400	9.106	73.180	27.531	73.180	0.000	27.532	-0.001	73.179	0.001	27.531	0.000	
-0.000	3600	9.119	73.701	29.354	73.701	0.000	29.354	-0.000	73.700	0.001	29.353	0.001	
0.001	3800	9.131	74.194	31.179	74.194	-0.000	31.179	-0.000	74.193	0.001	31.178	0.001	
0.002	4000	9.143	74.663	33.006	74.663	0.000	33.007	-0.001	74.662	0.001	33.005	0.001	
0.001	4200	9.155	75.109	34.836	75.109	-0.000	34.836	-0.000	75.108	0.001	34.835	0.001	
0.002	4400	9.167	75.535	36.668	75.535	-0.000	36.668	-0.000	75.535	0.000	36.668	0.000	
0.001	4600	9.178	75.943	38.503	75.943	-0.000	38.503	0.000	75.943	0.000	38.503	0.000	
0.000	4800	9.190	76.334	40.340	76.334	0.000	40.340	0.000	76.333	0.001	40.340	0.000	
-0.000	5000	9.201	76.709	42.179	76.709	-0.000	42.179	0.000	76.709	0.000	42.179	-0.000	
-0.001	5200	9.213	77.070	44.020	77.070	-0.000	44.020	0.000	77.070	-0.000	44.021	-0.001	
-0.001	5400	9.224	77.418	45.864	77.418	-0.000	45.863	0.001	77.418	0.000	45.864	-0.000	
-0.001	5600	9.235	77.754	47.710	77.754	0.000	47.709	0.001	77.754	0.000	47.710	0.000	
-0.000	5800	9.246	78.078	49.558	78.078	-0.000	49.558	0.000	78.078	0.000	49.558	0.000	
0.002	6000	9.257	78.392	51.408	78.392	0.000	51.408	-0.000	78.391	0.001	51.407	0.001	

PHOSPHORUS, TETRATOMIC (G) P 4 661
 MOL. WT.= 123.890 BLOCK= 2136 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 30.771 KEY = 417
 FITS FOR NOTS RMS = 0.003132
 15 0 0 0 0 0 0 0 0 0 PHOSPHORUS, TETRATOMIC (G) 10J 661 417
 .9843505E+1+2.2246114E-2-6.0932412E-3+5.4335757E-4 400 6000 11J 661 417
 .0716552E-1+2.3538833E+1+8.8764709E+1+3.0770996E+1P4 (G) 12J 661 417

FITS FOR EST RMS LOW = 0.001246 RMS HIGH = 0.005974
 15 0 0 0 0 0 0 0 0 0 PHOSPHORUS, TETRATOMIC (G) 10P4
 .07709+5+524895+5+198492+2+738874-5-405648+6+110630+3 4003000J 66111P4
 .07709+5+524936+5+200050+2-194165-4-128512+7+110630+330006000J 66112P4

/M	-----NOTS-----												T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
010	200	17.510	71.837	1.717	71.863	-0.026	1.725	-0.008	71.863	-0.026	1.728	-0.011	400 3
003	400	18.735	79.212	5.363	79.206	0.006	5.356	0.007	79.208	0.004	5.360	0.003	500 3
002	600	19.214	84.676	9.164	84.671	0.005	9.158	0.006	84.673	0.003	9.162	0.002	600 3
001	800	19.445	88.991	13.033	88.988	0.003	13.028	0.005	88.990	0.001	13.032	0.001	700 3
000	1000	19.574	92.549	16.936	92.547	0.002	16.932	0.004	92.548	0.001	16.936	0.000	800 3
000	1200	19.652	95.572	20.859	95.571	0.001	20.856	0.003	95.572	-0.000	20.859	-0.000	900 3
001	1400	19.703	98.200	24.755	98.199	0.001	24.793	0.002	98.200	0.000	24.795	-0.000	1000 3
000	1600	19.738	100.523	28.739	100.523	0.000	28.738	0.001	100.523	0.000	28.739	-0.000	1100 3
000	1800	19.764	102.604	32.689	102.604	0.000	32.689	0.000	102.604	0.000	32.689	-0.000	1200 3
000	2000	19.783	104.489	36.644	104.489	0.000	36.644	0.000	104.488	0.001	36.644	0.000	1300 3
000	2200	19.797	106.211	40.602	106.211	0.000	40.602	-0.000	106.210	0.001	40.602	0.000	1400 3
001	2400	19.808	107.796	44.563	107.796	0.000	44.563	-0.000	107.795	0.001	44.562	0.001	1500 3
000	2600	19.817	109.264	48.525	109.264	-0.000	48.526	-0.001	109.263	0.001	48.525	-0.000	1600 3
000	2800	19.824	110.631	52.489	110.632	-0.001	52.490	-0.001	110.631	0.000	52.490	-0.001	1700 3
002	3000	19.824	110.631	52.489	110.632	-0.001	52.490	-0.001	110.631	0.000	52.494	-0.005	1800 3
001	3200	19.830	111.911	56.455	111.911	-0.000	56.456	-0.001	111.910	0.001	56.456	-0.001	1900 3
000	3400	19.835	113.113	60.421	113.114	-0.001	60.422	-0.001	113.111	0.002	60.420	0.001	2000 3
001	3600	19.839	114.247	64.389	114.248	-0.001	64.390	-0.001	114.245	0.002	64.387	0.002	
001	3800	19.842	115.320	68.357	115.320	-0.000	68.358	-0.001	115.318	0.002	68.355	0.002	
001	4000	19.845	116.338	72.326	116.338	-0.000	72.326	-0.000	116.335	0.003	72.324	0.002	
001	4200	19.848	117.306	76.295	117.306	-0.000	76.295	-0.000	117.304	0.002	76.293	0.002	
000	4400	19.850	118.229	80.265	118.230	-0.001	80.265	0.000	118.227	0.002	80.264	0.001	
000	4600	19.852	119.112	84.235	119.112	-0.000	84.235	0.000	119.110	0.002	84.235	0.000	
000	4800	19.854	119.957	88.205	119.957	0.000	88.205	-0.000	119.955	0.002	88.206	-0.001	
000	5000	19.855	120.767	92.176	120.767	-0.000	92.176	0.000	120.766	0.001	92.177	-0.001	
001	5200	19.856	121.546	96.147	121.546	-0.000	96.147	0.000	121.544	0.002	96.148	-0.001	
000	5400	19.858	122.295	100.119	122.296	-0.001	100.118	0.001	122.294	0.001	100.120	-0.001	
000	5600	19.859	123.018	104.091	123.018	0.000	104.090	0.001	123.016	0.002	104.091	0.000	
000	5800	19.860	123.715	108.062	123.715	0.000	108.062	0.000	123.713	0.002	108.062	0.000	
001	6000	19.860	124.388	112.034	124.388	-0.000	112.034	-0.000	124.386	0.002	112.032	0.002	

PHOSPHORUS SULFIDE

(C) P 4S 3

1260

MCL. WT.= 220.080 BLOCK= 2142 NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -37.000 KEY = 418

FITS FOR NOTS RMS = 0.001194

4 15 3 16 0 0 0 0 0 0 0 PHOSPHORUS SULFIDE (C) 30J1260 418
 +3.4902191E+1+3.1561672E-1-2.9170632E-1+8.1384479E-2 4C0 2000 31J1260 418
 -7.1716308E-4-4.7418136E+1+9.0159164E+1-3.7C00000E+1P4S3(C) 32J1260 418

FITS FOR EST RMS LOW = 0.000133 RMS HIGH = 0.000133

4 15 3 16 0 0 0 0 0 0 0 PHOSPHORUS SULFIDE (C) 30P4S3\$
 -370000+5+945634+5+350039+2-203150-5-168000+4+128806+3 4002000J126031P4S3\$
 -370000+5+945634+5+350039+2-203150-5-168000+4+128806+3 4002000J126032P4S3\$

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	35.000	58.285	3.565	58.286	-0.001	3.564	0.001	58.288	-0.003	3.566	-0.001
500	35.000	66.095	7.065	66.093	0.002	7.063	0.002	66.096	-0.001	7.065	-0.000
600	35.000	72.477	10.565	72.474	0.003	10.563	0.002	72.477	-0.000	10.565	0.000
700	35.000	77.872	14.065	77.870	0.002	14.063	0.002	77.872	-0.000	14.065	0.000
800	35.000	82.546	17.565	82.545	0.001	17.564	0.001	82.546	0.000	17.565	0.000
900	35.000	86.668	21.065	86.668	0.000	21.065	0.000	86.668	-0.000	21.065	0.000
1000	35.000	90.356	24.565	90.356	-0.000	24.566	-0.001	90.356	0.000	24.565	0.000
1100	35.000	93.691	28.065	93.693	-0.002	28.066	-0.001	93.692	-0.001	28.065	0.000
1200	35.000	96.737	31.565	96.738	-0.001	31.566	-0.001	96.737	-0.000	31.565	0.000
1300	35.000	99.538	35.065	99.540	-0.002	35.066	-0.001	99.539	-0.001	35.065	0.000
1400	35.000	102.132	38.565	102.133	-0.001	38.566	-0.001	102.132	-0.000	38.565	0.000
1500	35.000	104.547	42.065	104.548	-0.001	42.066	-0.001	104.547	-0.000	42.065	0.000
1600	35.000	106.806	45.565	106.806	-0.000	45.565	0.000	106.806	0.000	45.565	0.000
1700	35.000	108.928	49.065	108.928	0.000	49.064	0.001	108.928	0.000	49.065	0.000
1800	35.000	110.928	52.565	110.928	-0.000	52.564	0.001	110.928	-0.000	52.565	0.000
1900	35.000	112.820	56.065	112.821	-0.001	56.064	0.001	112.821	-0.001	56.065	0.000
2000	35.000	114.616	59.565	114.616	-0.000	59.565	-0.000	114.616	0.000	59.565	0.000

PHOSPHORUS SULFIDE (L) P 4S 3 1260
 MOL. WT.= 220.080 BLOCK= 2144 NO. POINT = 29
 DATA FROM 299 TO 3000 K HFORM(KCAL/(MOLE)) = -36.077 KEY = 419
 FITS FOR NOTS RMS = 0.002098
 4 15 3 16 0 0 0 0 0 0 0 PHOSPHORUS SULFIDE (L) 20J1260 419
 +4.3904846E+1+1.7143917E-1-9.8140954E-2+1.7550304E-2 400 3000 21J1260 419
 +9.1857910E-3-4.9150711E+1+1.0263221E+2-3.6076995E+1P4S3(L) 22J1260 419

FITS FOR EST RMS LOW = 0.000719 RMS HIGH = 0.000719
 4 15 3 16 0 0 0 0 0 0 0 PHOSPHORUS SULFIDE (L) 20P4S3*
 -360769+5+118880+6+440083+2-296299-5-654400+4+151095+3 4003000J126021P4S3*
 -360769+5+118880+6+440083+2-296299-5-654400+4+151095+3 4003000J126022P4S3*

-----NOTS-----										-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
400	44.000	62.440	4.481	62.435	0.005	4.477	0.004	62.451	-0.011	4.486	-0.005	400	
600	44.000	80.281	13.281	80.278	0.003	13.278	0.003	80.283	-0.002	13.282	-0.001	600	
800	44.000	92.939	22.081	92.937	0.002	22.079	0.002	92.939	0.000	22.081	0.000	800	
1000	44.000	102.757	30.881	102.756	0.001	30.879	0.002	102.757	0.000	30.880	0.001	1000	
1200	44.000	110.779	39.681	110.779	0.000	39.680	0.001	110.779	0.000	39.680	0.001	1200	
1400	44.000	117.562	48.481	117.563	-0.001	48.482	-0.001	117.561	0.001	48.480	0.001	1400	
1600	44.000	123.437	57.281	123.438	-0.001	57.282	-0.001	123.437	0.000	57.280	0.001	1600	
1800	44.000	128.620	66.081	128.621	-0.001	66.083	-0.002	128.620	0.000	66.081	0.000	1800	
2000	44.000	133.255	74.881	133.257	-0.002	74.883	-0.002	133.256	-0.001	74.881	0.000	2000	
2200	44.000	137.449	83.681	137.450	-0.001	83.682	-0.001	137.449	-0.000	83.681	0.000	2200	
2400	44.000	141.277	92.481	141.278	-0.001	92.481	-0.000	141.278	-0.001	92.481	-0.000	2400	
2600	44.000	144.799	101.281	144.800	-0.001	101.280	0.001	144.800	-0.001	101.281	0.000	2600	
2800	44.000	148.060	110.081	148.061	-0.001	110.080	0.001	148.060	-0.000	110.081	0.000	2800	
3000	44.000	151.096	118.881	151.097	-0.001	118.881	-0.000	151.096	0.000	118.881	0.000	3000	

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6000

PHOSPHORUS SULFIDE

(G) P 4S 3

1260

MOL. WT. = 220.080 BLOCK = 2147 NO. POINT = 59

DATA FROM 298 TO 6000 K BFORM(KCAL/(MOLE)) = -19.408 KEY = 420

FITS FOR NOTS RMS = 0.005401

4 15 3 16 0 0 0 0 0 0 0 PHOSPHORUS SULFIDE (G) 10J1260 420
+3.7031311E+1-1.1239826E-2+2.3522414E-5+1.8829223E-4 400 6000 11J1260 420
-1.6113281E-2-3.0490341E+1+1.2105342E+2-1.9407989E+1P4S3(G) 12J1260 420

FITS FOR EST RMS LOW = 0.000598 RMS HIGH = 0.011166

4 15 3 16 0 0 0 0 0 0 0 PHOSPHORUS SULFIDE (G) 10P4S3
-194079+5+999677+5+370070+2-251292-5-539200+4+161703+3 4003000J126011P4S3
-194079+5+999767+5+372601+2-379248-4-168217+7+161703+330006000J126012P4S3

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.005	400	37.000	87.153	3.768	87.168	-0.015	3.770	-0.002	87.161	-0.008	3.772	-0.004	
-0.001	600	37.000	102.155	11.168	102.153	0.002	11.161	0.007	102.157	-0.002	11.169	-0.001	
0.000	800	37.000	112.800	18.568	112.794	0.006	18.559	0.009	112.799	0.001	18.568	0.000	
0.001	1000	37.000	121.056	25.968	121.050	0.006	25.959	0.008	121.055	0.001	25.967	0.001	
0.001	1200	37.000	127.802	33.368	127.797	0.005	33.361	0.007	127.801	0.001	33.367	0.001	
0.001	1400	37.000	133.505	40.768	133.502	0.003	40.762	0.006	133.505	0.000	40.767	0.001	
0.001	1600	37.000	138.446	48.168	138.444	0.002	48.164	0.004	138.445	0.001	48.168	0.000	
0.000	1800	37.000	142.804	55.568	142.803	0.001	55.565	0.003	142.803	0.001	55.568	0.000	
0.000	2000	37.000	146.702	62.968	146.702	0.000	62.967	0.001	146.702	0.000	62.968	0.000	
0.000	2200	37.000	150.229	70.368	150.229	0.000	70.368	0.000	150.228	0.001	70.368	0.000	
-0.000	2400	37.000	153.448	77.768	153.449	-0.001	77.769	-0.001	153.448	0.000	77.768	0.000	
0.000	2600	37.000	156.410	85.168	156.410	-0.000	85.170	-0.002	156.409	0.001	85.168	0.000	
0.000	2800	37.000	159.152	92.568	159.153	-0.001	92.570	-0.002	159.151	0.001	92.568	0.000	
0.000	3000	37.000	161.704	99.968	161.705	-0.001	99.970	-0.002	161.704	0.000	99.968	0.000	
	3000	37.000	161.704	99.968	161.705	-0.001	99.970	-0.002	161.704	0.000	99.977	-0.009	
	3200	37.000	164.092	107.368	164.093	-0.001	107.370	-0.002	164.090	0.002	107.370	-0.002	
	3400	37.000	166.335	114.768	166.336	-0.001	114.770	-0.002	166.332	0.003	114.766	0.002	
	3600	37.000	168.450	122.168	168.451	-0.001	122.170	-0.002	168.446	0.004	122.164	0.004	
	3800	37.000	170.451	129.568	170.452	-0.001	129.570	-0.002	170.446	0.005	129.564	0.004	
	4000	37.000	172.348	136.968	172.349	-0.001	136.970	-0.002	172.344	0.004	136.964	0.004	
	4200	37.000	174.154	144.368	174.155	-0.001	144.369	-0.001	174.150	0.004	144.365	0.003	
	4400	37.000	175.875	151.768	175.876	-0.001	151.769	-0.001	175.871	0.004	151.766	0.002	
	4600	37.000	177.519	159.168	177.520	-0.001	159.168	-0.000	177.516	0.003	159.167	0.001	
	4800	37.000	179.094	166.568	179.095	-0.001	166.568	0.000	179.091	0.003	166.568	-0.000	
	5000	37.000	180.605	173.968	180.605	-0.000	173.967	0.001	180.602	0.003	173.969	-0.001	
	5200	37.000	182.056	181.368	182.056	-0.000	181.367	0.001	182.053	0.003	181.370	-0.002	
	5400	37.000	183.452	188.768	183.453	-0.001	188.767	0.001	183.449	0.003	188.769	-0.001	
	5600	37.000	184.798	196.168	184.798	-0.000	196.167	0.001	184.795	0.003	196.169	-0.001	
	5800	37.000	186.096	203.568	186.097	-0.001	203.568	0.000	186.093	0.003	203.567	0.001	
	6000	37.000	187.350	210.968	187.351	-0.001	210.969	-0.001	187.347	0.003	210.965	0.003	

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DH	NOTS								EST				T
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		
KC/M	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
-0.004	7.734	10.674	1.109	-8.478	19.152	-5.310	6.419	-8.505	19.179	-5.204	6.313	400	
-0.001	8.200	14.333	2.904	19.141	-4.808	7.902	-4.998	18.583	-4.250	7.766	-4.862	500	
0.000	4.368	31.363	17.529	27.762	3.601	13.797	3.732	27.301	4.062	13.732	3.797	600	
0.001	4.418	32.344	18.408	31.331	1.013	16.963	1.445	30.983	1.361	16.999	1.409	700	
0.001	4.450	33.152	19.295	33.113	0.039	18.906	0.389	32.821	0.331	19.003	0.292	800	
0.001	4.471	33.840	20.187	34.154	-0.314	20.252	-0.065	33.871	-0.031	20.359	-0.172	900	
0.000	4.488	34.438	21.083	34.856	-0.418	21.300	-0.217	34.550	-0.112	21.374	-0.291	1000	
0.000	4.501	34.967	21.982	35.390	-0.423	22.206	-0.224	35.049	-0.082	22.219	-0.237	1100	
0.000	4.513	35.442	22.883	35.836	-0.394	23.053	-0.170	35.459	-0.017	22.997	-0.114	1200	
0.000	4.523	35.873	23.787	36.232	-0.359	23.883	-0.096	35.829	0.044	23.774	0.013	1300	
0.000	4.532	36.267	24.693	36.596	-0.329	24.722	-0.029	36.185	0.082	24.592	0.101	1400	
0.000	4.541	36.630	25.600	36.939	-0.309	25.579	0.021	36.540	0.090	25.482	0.118	1500	
0.000	4.549	36.966	26.509	37.265	-0.299	26.457	0.052	36.904	0.061	26.465	0.044	1600	
0.000	4.557	37.281	27.420	37.575	-0.294	27.356	0.064	37.281	0.000	27.557	-0.137	1700	
-0.009	4.557	37.281	27.420	37.575	-0.294	27.356	0.064	37.281	0.000	27.421	-0.001	1800	
-0.002	4.565	37.575	28.332	37.870	-0.295	28.271	0.061	37.575	-0.000	28.332	0.000	1900	
0.002	4.572	37.852	29.245	38.151	-0.299	29.199	0.046	37.852	0.000	29.245	-0.000	2000	
0.004	4.579	38.113	30.160	38.419	-0.306	30.135	0.025	38.113	-0.000	30.160	0.000		
0.004	4.586	38.361	31.077	38.672	-0.311	31.073	0.004	38.361	0.000	31.076	0.001		
0.004	4.593	38.597	31.995	38.913	-0.316	32.010	-0.015	38.596	0.001	31.994	0.001		
0.003	4.600	38.821	32.914	39.140	-0.319	32.942	-0.028	38.821	0.000	32.914	0.000		
0.002	4.607	39.035	33.835	39.356	-0.321	33.868	-0.033	39.035	0.000	33.834	0.001		
0.001	4.613	39.240	34.757	39.560	-0.320	34.787	-0.030	39.240	0.000	34.757	0.000		
-0.000	4.620	39.436	35.680	39.754	-0.318	35.700	-0.020	39.436	-0.000	35.680	-0.000		
-0.001	4.627	39.625	36.605	39.940	-0.315	36.610	-0.005	39.625	-0.000	36.605	0.000		
-0.002	4.633	39.807	37.531	40.118	-0.311	37.519	0.012	39.807	0.000	37.531	-0.000		
-0.001	4.640	39.982	38.458	40.291	-0.309	38.433	0.025	39.982	0.000	38.458	-0.000		
-0.001	4.647	40.151	39.387	40.459	-0.308	39.360	0.027	40.151	0.000	39.387	0.0		

1265

MOL. WT.= 32.060 BLOCK= 2159 NO. POINT = 22

DATA FROM 0 TO 2000 K HFORM (KCAL/ (MOLE)) = 0.000 KEY = 422

FITS FOR NOTS RMS = 0.000543

1 16 0 0 0 0 0 0 0 0 0 SULFUR (C) 30J1265 422
+3.2793941E+0+7.1082897E+0-1.9411593E-1+4.8972666E-2 400 2000 31J1265 422
+6.8559646E-3-1.1801757E+0+9.7676191E+0+0.0000000E+0S (C) 32J1265 422

FITS FOR EST RMS LOW = 0.000457 RMS HIGH = 0.000457

1 16 0 0 0 0 0 0 0 0 0 SULFUR (C) 30 S\$
+000000+0+398033+5+338896+1+685787-2+150000+3+342299+2 4002000J126531S\$
+000000+0+398033+5+338896+1+685787-2+150000+3+342299+2 4002000J126532S\$

-----NOTS-----

-----EST-----

[illegible]

SULFUR

(L)

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1265

MOL. WT. = 32.060 BLOCK = 2162 NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM (KCAL/(MOLE)) = 0.336 KEY = 423

FITS FOR NOTS RMS = 0.001610

16 0 0 0 0 0 0 0 0 0 SULFUR

(L) 20J1265 423

.1466817E+0+8.4091567E+0-4.6575450E+0+8.9558458E-1 400 2000

21J1265 423

.8428020E-1+1.8785924E+0+1.2409134E+1+3.3599996E-1S (L)

22J1265 423

FITS FOR EST RMS LOW = 0.008921 RMS HIGH = 0.008921

16 0 0 0 0 0 0 0 0 0 SULFUR

(L) 20S*

35999+3+212591+5+706505+1+303614-3+338352+6+268747+2 4002000J126521S*

35999+3+212591+5+706505+1+303614-3+338352+6+268747+2 4002000J126522S*

-----NOTS-----

-----EST-----

T	CP	S	R	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
000	7.734	10.674	0.773	10.689	-0.015	0.770	0.003	10.811	-0.137	0.815	-0.042
100	9.081	12.768	1.711	12.812	-0.044	1.718	-0.007	12.799	-0.031	1.704	0.007
200	8.200	14.333	2.568	14.356	-0.023	2.564	0.004	14.324	0.009	2.540	0.028
300	7.799	15.601	3.368	15.589	0.012	3.363	0.005	15.568	0.033	3.347	0.021
400	7.694	16.634	4.142	16.629	0.005	4.142	-0.000	16.623	0.011	4.137	0.005
500	7.694	17.540	4.910	17.537	0.003	4.913	-0.003	17.541	-0.001	4.916	-0.006
600	7.694	18.350	5.680	18.346	0.004	5.681	-0.001	18.355	-0.005	5.689	-0.009
700	7.694	19.084	6.449	19.078	0.006	6.449	0.000	19.088	-0.004	6.458	-0.009
800	7.694	19.753	7.218	19.747	0.006	7.218	0.000	19.756	-0.003	7.225	-0.007
900	7.694	20.369	7.988	20.363	0.006	7.987	0.001	20.369	-0.000	7.991	-0.003
1000	7.694	20.939	8.757	20.933	0.006	8.757	-0.000	20.937	0.002	8.757	-0.000
1100	7.694	21.470	9.527	21.465	0.005	9.527	-0.000	21.466	0.004	9.524	0.003
1200	7.694	21.966	10.296	21.961	0.005	10.297	-0.001	21.961	0.005	10.292	0.004
1300	7.694	22.433	11.065	22.427	0.006	11.066	-0.001	22.427	0.006	11.061	0.004
1400	7.694	22.873	11.835	22.867	0.006	11.834	0.001	22.868	0.005	11.831	0.004
1500	7.694	23.289	12.604	23.283	0.006	12.604	0.000	23.286	0.003	12.604	-0.000
1600	7.694	23.683	13.374	23.678	0.005	13.374	-0.000	23.683	0.000	13.379	-0.005

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FITS FOR NOTS RMS = 0.009630

1 16 0 0 0 0 0 0 0 0 0 0 SULFUR, MONATOMIC (G) 10J 671 424

+2.5309753E-1+6.5542907E+1+4.6612777E+1+6.6287994E+1S (G) 12J 671 424

1 16 0 0 0 0 0 0 0 0 0 SULFUR, MONATONIC (G) 10S

+662879+5+139951+5+578470+1-213043-4-444796+7+522279+230006000J 67112S

NOTS								EST			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	5.553	41.735	0.571	41.583	0.152	0.506	0.065	41.630	0.105	0.528	0.043
600	5.339	43.943	1.659	43.950	-0.007	1.668	-0.009	43.953	-0.010	1.669	-0.010
800	5.210	45.460	2.713	45.481	-0.021	2.731	-0.018	45.475	-0.015	2.726	-0.013
1000	5.136	46.613	3.747	46.628	-0.015	3.759	-0.012	46.622	-0.009	3.753	-0.006
1200	5.092	47.546	4.769	47.552	-0.006	4.772	-0.003	47.548	-0.002	4.769	-0.000
1400	5.069	48.329	5.785	48.330	-0.001	5.782	0.003	48.328	0.001	5.781	0.004
1600	5.062	49.005	6.798	49.004	0.001	6.791	0.007	49.003	0.002	6.793	0.005
1800	5.068	49.601	7.811	49.600	0.001	7.803	0.008	49.600	0.001	7.807	0.004
2000	5.085	50.136	8.826	50.135	0.001	8.820	0.006	50.137	-0.001	8.825	0.001
2200	5.111	50.622	9.845	50.622	-0.000	9.842	0.003	50.624	-0.002	9.847	-0.002
2400	5.144	51.068	10.871	51.070	-0.002	10.870	0.001	51.070	-0.002	10.874	-0.003
2600	5.181	51.481	11.903	51.484	-0.003	11.905	-0.002	51.483	-0.002	11.906	-0.003
2800	5.219	51.866	12.943	51.870	-0.004	12.947	-0.004	51.868	-0.002	12.944	-0.001
3000	5.258	52.228	13.991	52.231	-0.003	13.995	-0.004	52.228	0.000	13.987	0.004
3000	5.258	52.228	13.991	52.231	-0.003	13.995	-0.004	52.228	0.000	13.995	-0.004
3200	5.295	52.568	15.046	52.572	-0.004	15.050	-0.004	52.567	0.001	15.046	-0.000
3400	5.330	52.891	16.109	52.894	-0.003	16.112	-0.003	52.889	0.002	16.107	0.002
3600	5.363	53.196	17.178	53.199	-0.003	17.180	-0.002	53.194	0.002	17.177	0.001
3800	5.392	53.487	18.254	53.489	-0.002	18.254	-0.000	53.485	0.002	18.253	0.001
4000	5.418	53.764	19.335	53.766	-0.002	19.334	0.001	53.763	0.001	19.335	0.000
4200	5.441	54.029	20.421	54.031	-0.002	20.419	0.002	54.028	0.001	20.421	-0.000
4400	5.461	54.283	21.511	54.284	-0.001	21.509	0.002	54.281	0.002	21.512	-0.001
4600	5.477	54.526	22.605	54.528	-0.002	22.603	0.002	54.525	0.001	22.605	-0.000
4800	5.491	54.759	23.702	54.761	-0.002	23.700	0.002	54.758	0.001	23.702	-0.000
5000	5.502	54.984	24.801	54.986	-0.002	24.801	0.000	54.982	0.002	24.801	-0.000
5200	5.511	55.200	25.902	55.202	-0.002	25.903	-0.001	55.198	0.002	25.902	-0.000
5400	5.518	55.408	27.005	55.410	-0.002	27.007	-0.002	55.406	0.002	27.005	0.000
5600	5.523	55.608	28.109	55.611	-0.003	28.111	-0.002	55.607	0.001	28.109	0.000
5800	5.526	55.802	29.214	55.805	-0.003	29.215	-0.001	55.801	0.001	29.214	-0.000
6000	5.528	55.990	30.320	55.991	-0.001	30.317	0.003	55.988	0.002	30.320	-0.000

SILICON MONOSULFIDE

(G) S 1SI 1

1260

MOL. WT.= 60.150 BLOCK= 2170 NO. POINT = 62

ATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 16.926 KEY = 425

ITS FOR NOTS RMS = 0.001858

14 1 16 0 0 0 0 0 0 0 SILICCN MONOSULFIDE

(G) 10J1260 425

.9122419E+0+7.6304137E-2-5.1762722E-3+4.3576187E-4 400 6000

11J1260 425

.6110229E-1+1.3766433E+1+6.3405914E+1+1.6925994E+1SSI(G)

12J1260 425

FITS FOR EST RMS LOW = 0.001082 RMS HIGH = 0.002986

14 1 16 0 0 0 0 0 0 0 SILICON MONOSULFIDE

(G) 10SSI

.9259+5+239366+5+891681+1+641498-4-159328+6+734149+2 4003000J126011SSI

.9259+5+239383+5+900364+1+467389-4-591328+6+734149+230006000J126012SSI

-----NOTS-----													
-----EST-----													
DH	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	SC	DH
KC/M	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	KC/M
8 0.043	8.100	55.751	0.806	55.773	-0.022	0.814	-0.008	55.771	-0.020	0.815	-0.009		
9 -0.010	8.518	59.126	2.474	59.122	0.004	2.470	0.004	59.122	0.004	2.472	0.002		
16 -0.013	8.712	61.606	4.199	61.603	0.003	4.195	0.004	61.604	0.002	4.198	0.001		
3 -0.006	8.817	63.562	5.953	63.560	0.002	5.950	0.003	63.561	0.001	5.953	0.000		
9 -0.000	8.881	65.176	7.723	65.175	0.001	7.722	0.001	65.176	0.000	7.724	-0.001		
1 0.004	8.925	66.549	9.504	66.548	0.001	9.503	0.001	66.548	0.001	9.505	-0.001		
13 0.005	8.958	67.743	11.293	67.742	0.001	11.292	0.001	67.742	0.001	11.293	-0.000		
7 0.004	8.984	68.799	13.087	68.799	-0.000	13.087	0.000	68.799	0.000	13.087	-0.000		
5 0.001	9.006	69.747	14.886	69.747	0.000	14.886	-0.000	69.746	0.001	14.886	-0.000		
7 -0.002	9.026	70.606	16.689	70.606	-0.000	16.689	-0.000	70.606	0.000	16.689	-0.000		
4 -0.003	9.043	71.392	18.456	71.393	-0.001	18.496	-0.000	71.392	0.000	18.496	0.000		
6 -0.003	9.059	72.117	20.307	72.117	-0.000	20.307	0.000	72.116	0.001	20.306	0.001		
4 -0.001	9.074	72.789	22.120	72.789	0.000	22.120	-0.000	72.788	0.001	22.120	0.000		
7 0.004	9.088	73.415	23.936	73.415	-0.001	23.936	-0.000	73.415	0.000	23.937	-0.001		
5 -0.004	9.088	73.415	23.936	73.415	-0.001	23.936	-0.000	73.415	0.000	23.938	-0.002		
6 -0.000	9.102	74.002	25.755	74.002	-0.000	25.755	-0.000	74.001	0.001	25.756	-0.001		
7 0.002	9.115	74.555	27.577	74.555	0.000	27.577	-0.000	74.553	0.002	27.576	0.001		
7 0.001	9.128	75.076	29.401	75.076	-0.000	29.401	-0.000	75.075	0.001	29.400	0.001		
3 0.001	9.141	75.570	31.228	75.570	0.000	31.228	-0.000	75.568	0.002	31.227	0.001		
5 0.000	9.153	76.039	33.057	76.039	-0.000	33.058	-0.001	76.038	0.001	33.056	0.001		
1 -0.000	9.165	76.486	34.889	76.486	0.000	34.889	-0.000	76.484	0.002	34.888	0.001		
2 -0.001	9.177	76.912	36.723	76.912	-0.000	36.723	-0.000	76.911	0.001	36.723	0.000		
5 -0.000	9.189	77.321	38.560	77.321	0.000	38.560	0.000	77.319	0.002	38.560	0.000		
2 -0.000	9.201	77.712	40.399	77.712	0.000	40.399	0.000	77.711	0.001	40.399	-0.000		
1 -0.000	9.213	78.088	42.240	78.088	0.000	42.240	-0.000	78.087	0.001	42.241	-0.001		
2 -0.000	9.225	78.449	44.084	78.449	-0.000	44.084	0.000	78.448	0.001	44.085	-0.001		
5 0.000	9.236	78.798	45.930	78.798	0.000	45.930	0.000	78.797	0.001	45.931	-0.001		
9 0.000	9.248	79.134	47.779	79.134	0.000	47.778	0.001	79.133	0.001	47.779	0.000		
4 -0.000	9.259	79.459	49.629	79.459	0.000	49.629	-0.000	79.457	0.002	49.629	-0.000		
0 -0.000	9.271	79.773	51.482	79.773	0.000	51.483	-0.001	79.771	0.002	51.482	0.000		

SULFUR, DIATOMIC

(G) S 2

1265

MOL. WT. = 64.120

BLOCK = 2176

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 30.840 KEY = 426

FITS FOR NOTS RMS = 0.001713

5 2 16 0 0 0 0 0 0 0 0 0 SULFUR, DIATOMIC (G) 10J1265 426
 15 +8.9196033E+0+7.8373074E-2-3.5778537E-3+2.9588770E-4 400 6000 11J1265 426
 5 -1.5295410E-1+2.7701507E+1+6.4531509E+1+3.0839996E+1S2(G) 12J1265 426

FITS FOR EST RMS LOW = 0.001037 RMS HIGH = 0.002961

2 16 0 0 0 0 0 0 0 0 0 SULFUR, DIATOMIC (G) 10S2
 +308399+5+239972+5+892531+1+686084-4-152928+6+745609+2 4003000J126511S2
 +308399+5+239996+5+900735+1+541337-4-599072+6+745609+230006000J126512S2

-----NOTS-----													-----EST-----	
DH	T	CP	S	H	SC	ES	HC	DH	SC	DS	HC	DH		
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		
15 -0.009	400	8.144	56.848	0.811	56.868	-0.020	0.818	-0.007	56.868	-0.020	0.820	-0.009		
12 0.002	600	8.549	60.238	2.486	60.234	0.004	2.482	0.004	60.235	0.003	2.484	0.002		
18 0.001	800	8.735	62.726	4.217	62.722	0.004	4.213	0.004	62.724	0.002	4.215	0.002		
13 0.000	1000	8.836	64.687	5.975	64.685	0.002	5.972	0.003	64.686	0.001	5.974	0.001		
14 -0.001	1200	8.899	66.304	7.749	66.302	0.001	7.747	0.002	66.304	0.000	7.749	0.000		
15 -0.001	1400	8.942	67.679	9.533	67.678	0.001	9.532	0.001	67.679	-0.000	9.533	-0.000		
13 -0.000	1600	8.976	68.875	11.325	68.875	0.000	11.324	0.001	68.876	-0.001	11.325	-0.000		
17 -0.000	1800	9.002	69.934	13.123	69.934	0.000	13.123	0.000	69.934	-0.000	13.123	-0.000		
16 -0.000	2000	9.025	70.884	14.926	70.884	0.000	14.926	0.000	70.884	-0.000	14.926	0.000		
19 -0.000	2200	9.046	71.745	16.733	71.745	0.000	16.733	0.000	71.745	-0.000	16.733	0.000		
16 0.000	2400	9.064	72.533	18.544	72.533	0.000	18.544	0.000	72.533	0.000	18.544	0.000		
16 0.001	2600	9.081	73.259	20.358	73.259	-0.000	20.359	-0.001	73.259	-0.000	20.358	-0.000		
20 0.000	2800	9.098	73.932	22.176	73.933	-0.001	22.177	-0.001	73.933	-0.001	22.176	-0.000		
17 -0.001	3000	9.113	74.561	23.997	74.561	0.000	23.998	-0.001	74.561	0.000	23.997	-0.000		
18 -0.002	3000	9.113	74.561	23.997	74.561	0.000	23.998	-0.001	74.561	0.000	24.000	-0.003		
16 -0.001	3200	9.129	75.149	25.822	75.150	-0.001	25.822	0.000	75.149	-0.000	25.822	-0.000		
16 0.001	3400	9.143	75.703	27.649	75.703	-0.000	27.649	-0.000	75.703	0.000	27.648	0.001		
20 0.001	3600	9.158	76.226	29.479	76.226	-0.000	29.479	-0.000	76.226	0.000	29.478	0.001		
27 0.001	3800	9.172	76.722	31.312	76.722	0.000	31.312	-0.000	76.721	0.001	31.311	0.001		
16 0.001	4000	9.186	77.193	33.148	77.193	0.000	33.148	0.000	77.192	0.001	33.147	0.001		
18 0.001	4200	9.199	77.641	34.986	77.641	-0.000	34.986	-0.000	77.640	0.001	34.985	0.001		
23 0.000	4400	9.213	78.069	36.827	78.069	-0.000	36.827	-0.000	78.069	0.000	36.827	0.000		
10 0.000	4600	9.226	78.479	38.671	78.479	-0.000	38.671	-0.000	78.479	0.000	38.671	-0.000		
19 -0.000	4800	9.240	78.872	40.518	78.872	-0.000	40.518	0.000	78.872	0.000	40.518	-0.000		
11 -0.001	5000	9.253	79.250	42.367	79.250	0.000	42.367	0.000	79.249	0.001	42.368	-0.001		
15 -0.001	5200	9.266	79.613	44.219	79.613	0.000	44.219	0.000	79.612	0.001	44.220	-0.001		
11 -0.001	5400	9.280	79.963	46.074	79.963	0.000	46.073	0.001	79.962	0.001	46.074	-0.000		
19 0.000	5600	9.293	80.300	47.931	80.300	-0.000	47.931	0.000	80.300	0.000	47.931	-0.000		
29 -0.000	5800	9.306	80.627	49.791	80.627	0.000	49.791	0.000	80.626	0.001	49.791	0.000		
12 0.000	6000	9.319	80.942	51.653	80.943	-0.001	51.654	-0.001	80.942	0.000	51.653	0.000		

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SILICON DISULFIDE          (C)      S 2SI 1          1260
MOL. WT.= 92.210      BLOCK= 2183      NO. POINT = 18
DATA FROM 298 TO 1900 K  HFORM(KCAL/(MOLE)) = -43.000  KEY = 427
BITS FOR NOTS  RMS = C.000439
14 2 16 0 0 0 0 0 0 0 0 0 SILICON DISULFIDE          (C)  30J1260 42
.2937952E+1+6.9867248E+0-3.2005280E-2+1.6205981E-2  400 1900  31J1260 42
.0343017E-3-4.7191238E+1+2.9537368E+1-4.3000000E+1S2SI (C)  32J1260 42

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FITS FOR EST      RMS LOW =      0.000082 RMS  HIGH =      0.000082
  14 2 16 0  0 0  0 0  0 0  0 SILICON DISULFIDE              (C) 30S2SI$
.30000+5+660387+5+129028+2+699850-2-110400+4+646877+2 4001900J126031S2SI$
.30000+5+660387+5+129028+2+699850-2-110400+4+646877+2 4001900J126032S2SI$

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[illegible]

SILICON DISULFIDE

(L) S 2SI 1

1260

MOL. WT. = 92.210

BLOCK = 2185

NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -37.303 KEY = 428

FITS FOR NOTS RMS = 0.017175

1 14 2 16 0 0 0 0 0 0 0 SILICON DISULFIDE (L) 20J1260 428
 -3.8726806E+0+3.5116546E+1-1.2891752E+1+1.0731401E+0 400 2000 21J1260 428
 +9.4616699E-1-3.4751525E+1+1.1381180E+1-3.7302993E+1S2SI(L) 22J1260 428

FITS FOR EST RMS LOW = 0.103367 RMS HIGH = 0.103367

1 14 2 16 0 0 0 0 0 0 0 SILICON DISULFIDE (L) 20S2SI*
 -373029+5+607203+5+215925+2+200823-2-272793+7+664657+2 4002000J126021S2SI*
 -373029+5+607203+5+215925+2+200823-2-272793+7+664657+2 4002000J126022S2SI*

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.000	400	12.700	25.097	1.209	25.011	0.086	1.178	0.031	26.111	-1.014	1.614	-0.405
-0.000	500	14.300	28.109	2.561	28.165	-0.056	2.592	-0.031	28.061	0.048	2.500	0.061
0.000	600	15.600	30.835	4.059	30.872	-0.037	4.078	-0.019	30.531	0.304	3.860	0.199
0.000	700	16.900	33.339	5.685	33.372	-0.004	5.683	0.002	33.056	0.283	5.500	0.185
0.000	800	18.100	35.675	7.435	35.657	0.018	7.418	0.017	35.487	0.188	7.323	0.112
0.000	900	19.200	37.871	9.301	37.850	0.021	9.280	0.021	37.784	0.087	9.274	0.027
0.000	1000	20.200	39.947	11.272	39.936	0.011	11.262	0.010	39.940	0.007	11.321	-0.049
0.000	1100	21.200	41.920	13.343	41.926	-0.006	13.350	-0.007	41.962	-0.042	13.443	-0.100
0.000	1200	22.150	43.805	15.510	43.822	-0.017	15.530	-0.020	43.862	-0.057	15.627	-0.117
0.000	1300	23.000	45.613	17.770	45.629	-0.016	17.788	-0.018	45.651	-0.038	17.862	-0.092
0.000	1400	23.600	47.341	20.102	47.348	-0.007	20.107	-0.005	47.340	0.001	20.143	-0.041
0.000	1500	24.000	48.986	22.485	48.980	0.006	22.473	0.012	48.941	0.045	22.463	0.022
0.000	1600	24.000	50.537	24.889	50.526	0.011	24.870	0.019	50.462	0.075	24.820	0.069
0.000	1700	24.000	51.992	27.289	51.990	0.002	27.283	0.006	51.911	0.081	27.210	0.079
0.000	1800	24.000	53.364	29.689	53.370	-0.006	29.699	-0.010	53.295	0.069	29.632	0.057
0.000	1900	24.000	54.661	32.089	54.670	-0.009	32.102	-0.013	54.620	0.041	32.083	0.006
0.000	2000	24.000	55.892	34.489	55.890	0.002	34.481	0.008	55.892	0.000	34.562	-0.073

SULFUR OCTATOMIC (G) S 8
 MOL. WT. = 256.510 BLOCK = 2187 NO. POINT = 62
 DATA FROM 0 TO 6000 K HPCRM(KCAL/(MOLE)) = 24.200 KEY = 429
 BITS FOR NOTS RMS = 0.006599

664

16 0 0 0 0 0 0 0 0 0 SULFUR OCTATOMIC (G) 10J 664 429
 .3704956E+1+1.8728800E-2-6.9637224E-3+7.3702959E-4 400 6000 11J 664 429
 .6821289E-1+9.0022430E+0+1.5217875E+2+2.4199996E+1S8 (G) 12J 664 429

BITS FOR EST RMS LOW = 0.001585 RMS HIGH = 0.013324
 16 0 0 0 0 0 0 0 0 0 SULFUR OCTATOMIC (G) 10S8
 41999+5+116174+6+436953+2+776381-5-659024+6+200260+3 4003000J 66411S8
 41999+5+116184+6+440325+2-456460-4-271488+7+200260+330006000J 66412S8

-----		-----NOTS-----								-----EST-----			
M	DH KC/M	K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
.614	-0.405	.00	39.841	114.183	3.944	114.227	-0.044	3.956	-0.012	114.222	-0.039	3.960	-0.016
.500	0.061	.00	41.887	130.799	12.153	130.791	0.008	12.142	0.011	130.796	0.003	12.151	0.002
.860	0.199	.00	42.665	142.971	20.619	142.961	0.010	20.606	0.013	142.968	0.003	20.616	0.003
.500	0.185	.00	43.038	152.536	29.193	152.528	0.008	29.183	0.010	152.534	0.002	29.192	0.001
.323	0.112	.00	43.244	160.402	37.823	160.397	0.005	37.815	0.008	160.402	0.000	37.823	0.000
.274	0.027	.00	43.369	167.078	46.485	167.075	0.003	46.479	0.006	167.078	-0.000	46.485	-0.000
.321	-0.049	.00	43.450	172.875	55.168	172.873	0.002	55.163	0.005	172.875	0.000	55.168	0.000
.443	-0.100	.00	43.507	177.996	63.864	177.995	0.001	63.861	0.003	177.996	-0.000	63.864	0.000
.627	-0.117	.00	43.547	182.582	72.569	182.582	0.000	72.568	0.001	182.582	-0.000	72.569	-0.000
.862	-0.092	.00	43.577	186.734	81.282	186.734	-0.000	81.282	0.000	186.734	0.000	81.281	0.001
.143	-0.041	.00	43.599	190.527	90.000	190.527	-0.000	90.000	-0.000	190.527	0.000	89.999	0.001
.463	0.022	.00	43.617	194.018	98.721	194.018	-0.000	98.723	-0.002	194.017	0.001	98.721	0.000
.820	0.069	.00	43.631	197.250	107.446	197.251	-0.001	107.449	-0.003	197.250	-0.000	107.446	-0.000
.210	0.079	.00	43.643	200.261	116.174	200.262	-0.001	116.176	-0.002	200.261	0.000	116.174	-0.000
.632	0.057	.00	43.643	200.261	116.174	200.262	-0.001	116.176	-0.002	200.261	0.000	116.184	-0.010
.083	0.006	.00	43.652	203.078	124.903	203.079	-0.001	124.906	-0.003	203.075	0.003	124.906	-0.003
.562	-0.073	.00	43.660	205.725	133.634	205.726	-0.001	133.637	-0.003	205.721	0.004	133.632	0.002
		.00	43.666	208.220	142.367	208.221	-0.001	142.370	-0.003	208.216	0.004	142.363	0.004
		.00	43.672	210.581	151.101	210.582	-0.001	151.103	-0.002	210.576	0.005	151.096	0.005
		.00	43.676	212.822	159.836	212.822	-0.000	159.838	-0.002	212.817	0.005	159.831	0.005
		.00	43.680	214.953	168.571	214.953	-0.000	168.573	-0.002	214.948	0.005	168.568	0.003
		.00	43.684	216.985	177.308	216.985	-0.000	177.309	-0.001	216.980	0.005	177.305	0.003
		.00	43.687	218.927	186.045	218.927	-0.000	186.045	0.000	218.923	0.004	186.044	0.001
		.00	43.690	220.786	194.782	220.786	-0.000	194.782	-0.000	220.782	0.004	194.783	-0.001
		.00	43.692	222.570	203.521	222.570	0.000	203.520	0.001	222.566	0.004	203.522	-0.001
		.00	43.694	224.283	212.259	224.283	-0.000	212.258	0.001	224.280	0.003	212.261	-0.002
		.00	43.696	225.932	220.998	225.932	-0.000	220.997	0.001	225.929	0.003	221.000	-0.002
		.00	43.698	227.521	229.737	227.522	-0.001	229.736	0.001	227.518	0.003	229.738	-0.001
		.00	43.699	229.055	238.477	229.055	-0.000	238.477	0.000	229.051	0.004	238.476	0.001
		.00	43.700	230.536	247.217	230.537	-0.001	247.218	-0.001	230.532	0.004	247.213	0.004


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SILICON
MOL. WT. = 28.080 BLOCK = 2199 SI 1 0 0 0 0 0 1266
DATA FROM 0 TO 2500 K HFORM(KCAL/(MOLE)) = 0.000 NO. POINT = 27
FITS FOR NOTS RMS = 0.000402 KEY = 431
1 14 0 0 0 0 0 0 0 0 0 0 0 SILICCN
+5.6194200E+0+6.7852652E-1+1.1196619E-1-1.2493468E-2 400 2500 (C) 30J1266 431
-1.0369777E-1-2.0473327E+0+1.0529848E+1+0.0000000E+0SI(C) 31J1266 431
32J1266 431

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FITS FOR EST      RMS LOW =      0.001384 RMS HIGH =      0.001384
 1 14 0 0 0 0 0 0 0 0 0 0 0 SILICON
+000000+0+186416+5+537383+1+971355-3-614820+5+191319+2 4002500J126631SI$
+000000+0+186416+5+537383+1+971355-3-614820+5+191319+2 4002500J126632SI$

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[illegible]

SILICON (L) SI 1 0 0 0 0 0 367
 MOL. WT. = 28.080 BLCK = 2202 NO. POINT = 44
 DATA FROM 298 TO 4500 K HFORM(KCAL/(MOLE)) = 11.585 KEY = 432
 FITS FOR NOTS RMS = 0.001456
 14 0 0 0 0 0 0 0 0 0 0 SILICON (L) 20J 367 432
 .4876604E+0+2.1116532E-2-9.7531378E-3+1.3148263E-3 400 4500 21J 367 432
 .1716308E-4+9.6510086E+0+1.8474868E+1+1.1584999E+1SI (L) 22J 367 432

FITS FOR EST RMS LOW = 0.000114 RMS HIGH = 0.000114
 14 0 0 0 0 0 0 0 0 0 0 SILICON (L) 20SI*
 .15849+5+175619+5+650028+1-740340-7-208000+3+256329+2 4004500J 36721SI*
 .15849+5+175619+5+650028+1-740340-7-208000+3+256329+2 4004500J 36722SI*

-----NOTS-----												
-----EST-----												
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.007	100	6.500	12.536	0.662	12.536	0.000	0.661	0.001	12.536	-0.000	0.662	-0.000
0.000	200	6.500	15.172	1.962	15.171	0.001	1.961	0.001	15.172	0.000	1.962	0.000
-0.002	300	6.500	17.042	3.262	17.041	0.001	3.260	0.002	17.041	0.001	3.262	0.000
-0.003	400	6.500	18.492	4.562	18.491	0.001	4.561	0.001	18.492	0.000	4.562	0.000
-0.002	500	6.500	19.677	5.862	19.677	0.000	5.861	0.001	19.677	-0.000	5.862	0.000
-0.002	600	6.500	20.679	7.162	20.679	0.000	7.161	0.001	20.679	-0.000	7.162	0.000
-0.001	700	6.500	21.547	8.462	21.547	-0.000	8.462	0.000	21.547	0.000	8.462	0.000
0.001	800	6.500	22.313	9.762	22.313	0.000	9.762	-0.000	22.313	0.000	9.762	0.000
0.001	900	6.500	22.997	11.062	22.998	-0.001	11.062	-0.000	22.997	-0.000	11.062	0.000
0.001	1000	6.500	23.617	12.362	23.618	-0.001	12.363	-0.001	23.617	0.000	12.362	0.000
0.001	1100	6.500	24.183	13.662	24.183	-0.000	13.663	-0.001	24.183	0.000	13.662	0.000
0.001	1200	6.500	24.703	14.962	24.703	-0.000	14.963	-0.001	24.703	0.000	14.962	0.000
0.000	1300	6.500	25.185	16.262	25.185	-0.000	16.263	-0.001	25.185	0.000	16.262	0.000
-0.000	1400	6.500	25.633	17.562	25.634	-0.001	17.563	-0.001	25.633	0.000	17.562	0.000
-0.000	1500	6.500	26.053	18.862	26.053	0.000	18.862	-0.000	26.052	0.001	18.862	0.000
-0.001	1600	6.500	26.447	20.162	26.447	0.000	20.162	0.000	26.447	0.000	20.162	0.000
-0.001	1700	6.500	26.818	21.462	26.818	-0.000	21.462	0.000	26.818	-0.000	21.462	0.000
-0.001	1800	6.500	27.170	22.762	27.170	0.000	22.761	0.001	27.170	0.000	22.762	0.000
-0.001	1900	6.500	27.503	24.062	27.503	-0.000	24.061	0.001	27.503	0.000	24.062	0.000
-0.000	2000	6.500	27.820	25.362	27.820	-0.000	25.362	0.000	27.820	-0.000	25.362	0.000
0.000	2100	6.500	28.122	26.662	28.123	-0.001	26.662	-0.000	28.122	-0.000	26.662	0.000
0.001	2200	6.500										

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SILICON, DIATOMIC (G) SI 2 0 0 0 0 0 367
 MOL. WT.= 56.170 BLOCK= 2213 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 141.000 KEY = 434
 FITS FOR NOTS RMS = 0.018067
 2 14 0 0 0 0 0 0 0 0 0 SILICON, DIATOMIC (G) 10J 367 434
 +1.1955192E+1-1.3343114E+0+3.1100177E-1-2.1981775E-2 400 6000 11J 367 434
 -5.1481628E-1+1.3584310E+2+6.7139312E+1+1.4100000E+2SI2(G) 12J 367 434

FITS FOR EST RMS LOW = 0.025984 RMS HIGH = 0.003618
 2 14 0 0 0 0 0 0 0 0 0 SILICON, DIATOMIC (G) 10SI2
 +141000+6+272053+5+110144+2-337158-3-332848+6+774959+2 4003000J 36711SI2
 +141000+6+272231+5+940554+1+159988-3+190169+7+774959+230006000J 36712SI2

-----NOTS-----								-----EST-----				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
400	8.658	57.375	0.861	57.284	0.091	0.812	0.049	57.201	0.174	0.779	0.082	4
600	9.499	61.045	2.676	61.001	0.044	2.656	0.020	61.022	0.023	2.671	0.005	6
800	10.151	63.875	4.647	63.902	-0.027	4.675	-0.028	63.921	-0.046	4.688	-0.041	8
1000	10.453	66.178	6.713	66.211	-0.033	6.744	-0.031	66.218	-0.040	6.747	-0.034	10
1200	10.507	68.091	8.812	68.108	-0.017	8.825	-0.013	68.107	-0.016	8.820	-0.008	12
1400	10.447	69.707	10.908	69.710	-0.003	10.904	0.004	69.707	-0.000	10.896	0.012	14
1600	10.354	71.096	12.988	71.092	0.004	12.974	0.014	71.091	0.005	12.968	0.020	16
1800	10.268	72.311	15.050	72.305	0.006	15.034	0.016	72.307	0.004	15.033	0.017	18
2000	10.200	73.389	17.097	73.385	0.004	17.084	0.013	73.390	-0.001	17.089	0.008	20
2200	10.153	74.359	19.132	74.358	0.001	19.125	0.007	74.365	-0.006	19.135	-0.003	22
2400	10.122	75.241	21.159	75.242	-0.001	21.158	0.001	75.251	-0.010	21.171	-0.012	24
2600	10.106	76.050	23.182	76.054	-0.004	23.186	-0.004	76.061	-0.011	23.194	-0.012	26
2800	10.099	76.799	25.202	76.804	-0.005	25.209	-0.007	76.806	-0.007	25.206	-0.004	28
3000	10.100	77.496	27.222	77.501	-0.005	27.230	-0.008	77.496	0.000	27.205	0.017	30
3000	10.100	77.496	27.222	77.501	-0.005	27.230	-0.008	77.496	0.000	27.223	-0.001	30
3200	10.107	78.148	29.242	78.153	-0.005	29.250	-0.008	78.148	0.000	29.243	-0.001	32
3400	10.117	78.761	31.265	78.765	-0.004	31.270	-0.005	78.761	0.000	31.265	0.000	34
3600	10.131	79.339	33.289	79.343	-0.004	33.292	-0.003	79.339	-0.000	33.289	0.000	36
3800	10.147	79.887	35.317	79.890	-0.003	35.317	-0.000	79.887	-0.000	35.316	0.001	38
4000	10.165	80.408	37.348	80.411	-0.003	37.346	0.002	80.408	0.000	37.347	0.001	40
4200	10.185	80.905	39.383	80.907	-0.002	39.379	0.004	80.904	0.001	39.382	0.001	42
4400	10.206	81.379	41.422	81.381	-0.002	41.418	0.004	81.379	0.000	41.421	0.001	44
4600	10.229	81.833	43.466	81.835	-0.002	43.462	0.004	81.833	0.000	43.465	0.001	46
4800	10.254	82.269	45.514	82.271	-0.002	45.512	0.002	82.269	0.000	45.514	0.000	48
5000	10.279	82.688	47.567	82.691	-0.003	47.567	0.000	82.688	-0.000	47.568	-0.001	50
5200	10.306	83.092	49.626	83.095	-0.003	49.628	-0.002	83.092	0.000	49.627	-0.001	52
5400	10.335	83.481	51.690	83.485	-0.004	51.693	-0.003	83.481	-0.000	51.691	-0.001	54
5600	10.364	83.858	53.760	83.861	-0.003	53.763	-0.003	83.858	0.000	53.760	-0.000	56
5800	10.395	84.222	55.836	84.225	-0.003	55.837	-0.001	84.222	0.000	55.836	0.000	58
6000	10.426	84.575	57.918	84.577	-0.002	57.912	0.006	84.575	0.000	57.917	0.001	60

SILICON, TRIATOMIC (G) SI 3 0 0 0 0 0 367
 MOL. WT. = 84.250 BLOCK = 2219 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 152.000 KEY = 435
 FITS FOR NOTS RMS = 0.025043
 3 14 0 0 0 0 0 0 0 0 0 SILICCN, TRIATOMIC (G) 10J 367 435
 +1.4480937E+1-1.6734981E-1+2.7766495E-1-3.1208083E-2 400 6000 11J 367 435
 +7.5225830E-2+1.4765721E+2+8.1243698E+1+1.5200000E+2SI3(G) 12J 367 435

FITS FOR EST RMS LOW = 0.019271 RMS HIGH = 0.018466
 3 14 0 0 0 0 0 0 0 0 0 SILICON, TRIATOMIC (G) 10SI3
 +152000+6+401661+5+140037+2+508323-3+105760+6+976069+2 4003000J 36711SI3
 +152000+6+401963+5+174199+2-174720-4-168496+8+976069+230006000J 36712SI3

-----NOTS-----								-----EST-----					
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M	
0.082	400	13.811	67.971	1.377	67.694	0.277	1.254	0.123	67.745	0.226	1.281	0.096	
0.005	600	14.371	73.696	4.205	73.689	0.007	4.209	-0.004	73.708	-0.012	4.220	-0.015	
-0.041	800	14.594	77.865	7.104	77.903	-0.038	7.139	-0.035	77.902	-0.037	7.136	-0.032	
-0.034	1000	14.702	81.134	10.035	81.167	-0.033	10.064	-0.029	81.159	-0.025	10.055	-0.020	
-0.008	1200	14.766	83.821	12.982	83.839	-0.018	12.995	-0.013	83.830	-0.009	12.985	-0.003	
0.012	1400	14.814	86.101	15.940	86.106	-0.005	15.937	0.003	86.100	0.001	15.931	0.009	
0.020	1600	14.863	88.082	18.908	88.080	0.002	18.893	0.015	88.078	0.004	18.893	0.015	
0.017	1800	14.926	89.836	21.886	89.832	0.004	21.868	0.018	89.833	0.003	21.874	0.012	
0.008	2000	15.007	91.413	24.879	91.409	0.004	24.862	0.017	91.413	-0.000	24.874	0.005	
-0.003	2200	15.107	92.847	27.890	92.847	0.000	27.879	0.011	92.852	-0.005	27.893	-0.003	
-0.012	2400	15.224	94.167	30.923	94.169	-0.002	30.919	0.004	94.174	-0.007	30.932	-0.009	
-0.012	2600	15.354	95.390	33.981	95.395	-0.005	33.983	-0.002	95.398	-0.008	33.990	-0.009	
-0.004	2800	15.493	96.533	37.066	96.540	-0.007	37.073	-0.007	96.538	-0.005	37.068	-0.002	
0.017	3000	15.636	97.607	40.178	97.615	-0.008	40.189	-0.011	97.607	0.000	40.166	0.012	
-0.001	3000	15.636	97.607	40.178	97.615	-0.008	40.189	-0.011	97.607	0.000	40.196	-0.018	
-0.001	3200	15.777	98.621	43.320	98.629	-0.008	43.331	-0.011	98.614	0.007	43.318	0.002	
0.000	3400	15.915	99.581	46.489	99.589	-0.008	46.498	-0.009	99.573	0.008	46.481	0.008	
0.000	3600	16.046	100.495	49.685	100.501	-0.006	49.691	-0.006	100.486	0.008	49.678	0.007	
0.001	3800	16.168	101.366	52.907	101.371	-0.005	52.909	-0.002	101.358	0.008	52.902	0.005	
0.001	4000	16.279	102.198	56.152	102.202	-0.004	56.150	0.002	102.191	0.007	56.151	0.001	
0.001	4200	16.380	102.995	59.418	102.998	-0.003	59.413	0.005	102.989	0.006	59.420	-0.002	
0.001	4400	16.469	103.759	62.703	103.762	-0.003	62.696	0.007	103.753	0.006	62.707	-0.004	
0.001	4600	16.547	104.493	66.005	104.496	-0.003	65.998	0.007	104.487	0.006	66.008	-0.004	
0.000	4800	16.614	105.198	69.321	105.202	-0.004	69.316	0.005	105.193	0.005	69.323	-0.002	
-0.001	5000	16.670	105.878	72.649	105.882	-0.004	72.648	0.001	105.871	0.007	72.650	-0.001	
-0.001	5200	16.716	106.532	75.988	106.537	-0.005	75.990	-0.002	106.526	0.006	75.986	0.001	
-0.001	5400	16.752	107.164	79.335	107.170	-0.006	79.340	-0.005	107.157	0.007	79.332	0.003	
-0.000	5600	16.780	107.774	82.688	107.779	-0.005	82.694	-0.006	107.767	0.007	82.685	0.003	
0.000	5800	16.800	108.363	86.046	108.368	-0.005	86.048	-0.002	108.356	0.007	86.046	0.000	
0.001	6000	16.813	108.933	89.408	108.936	-0.003	89.398	0.010	108.927	0.006	89.412	-0.004	

TITANIUM ALPHA PHASE (C) TI 1 0 0 0 0 0 966
 MOL. WT. = 47.900 BLOCK = 2232 NO. POINT = 22
 TA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = 0.000 KEY = 437
 TS FOR NOTS RMS = 0.000502
 2 0 0 0 0 0 0 0 0 0 TITANIUM ALPHA PHASE (C) 30J 966 437
 786973E+0+3.871971E+0-7.2784692E-1+1.4289605E-1 400 2000 31J 966 437
 315238E-2-1.1725921E+0+1.1960971E+1+0.0000000E+0 TI(C) 32J 966 437

TS FOR EST RMS LOW = 0.001419 RMS HIGH = 0.001419
 2 0 0 0 0 0 0 0 0 0 TITANIUM ALPHA PHASE (C) 30TI\$
 000+0+256053+5+512413+1+262707-2+163600+5+263588+2 4002000J 96631TI\$
 000+0+256053+5+512413+1+262707-2+163600+5+263588+2 4002000J 96632TI\$

-----NOTS-----													-----EST-----												
DH	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T													
KC/M	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K													
0.096	6.341	9.139	0.629	9.135	0.004	0.628	0.001	9.154	-0.015	0.635	-0.006	400													
-0.015	6.559	10.578	1.275	10.580	-0.002	1.276	-0.001	10.578	-0.000	1.274	0.001	600													
-0.032	6.755	11.791	1.941	11.790	0.001	1.940	0.001	11.785	0.006	1.937	0.004	800													
-0.020	6.976	12.848	2.627	12.847	0.001	2.626	0.001	12.844	0.004	2.624	0.003	1000													
-0.003	7.229	13.796	3.337	13.796	-0.000	3.337	0.000	13.795	0.001	3.336	0.001	1200													
0.009	7.499	14.663	4.073	14.664	-0.001	4.074	-0.001	14.663	-0.000	4.074	-0.001	1400													
0.015	7.767	15.467	4.837	15.467	-0.000	4.837	0.000	15.468	-0.001	4.838	-0.001	1600													
0.012	8.025	16.220	5.626	16.220	0.000	5.627	-0.001	16.220	-0.001	5.628	-0.002	1800													
0.005	8.296	16.929	6.442	16.930	-0.001	6.443	-0.001	16.930	-0.001	6.443	-0.001	2000													
-0.003	8.556	17.603	7.285	17.604	-0.001	7.285	0.000	17.604	-0.001	7.285	-0.000	2200													
-0.009	8.816	18.247	8.153	18.247	-0.000	8.153	-0.000	18.247	0.000	8.153	-0.000	2400													
-0.009	9.076	18.864	9.048	18.864	-0.000	9.048	0.000	18.864	0.000	9.047	0.001	2600													
-0.002	9.336	19.458	9.968	19.458	-0.000	9.968	-0.000	19.458	0.000	9.968	0.000	2800													
0.012	9.596	20.032	10.915	20.032	-0.000	10.915	0.000	20.031	0.001	10.914	0.001	3000													
-0.018	9.856	20.588	11.887	20.588	0.000	11.887	-0.000	20.587	0.001	11.887	0.000	3200													
0.002	10.116	21.128	12.886	21.128	0.000	12.886	0.000	21.127	0.001	12.886	0.000	3400													
0.008	10.376	21.653	13.910	21.653	-0.000	13.910	-0.000	21.653	0.000	13.911	-0.001	3600													
0.007												3800													
0.005												4000													
0.001												4200													
-0.002												4400													
-0.004																									
-0.004																									
-0.002																									
-0.001																									
0.001																									
0.003																									
0.003																									
0.000																									
-0.004																									

TITANIUM (L) TI 1 0 0 0 0 0 966
 MOL. WT.= 47.900 BLCK= 2234 NO. POINT = 44
 DATA FROM 298 TO 4500 K HFORM(KCAL/(MOLE)) = 5.433 KEY = 438
 FITS FOR NOTS RMS = 0.058861
 1 22 0 0 0 0 0 0 0 0 TITANIUM (L) 20J 966 438
 +6.0741310E+0+2.8059959E+0-9.7612094E-1+1.0689347E-1 400 4500 21J 966 438
 -6.3916015E-1+2.1109628E+0+1.5720755E+1+5.4329996E+0TI (L) 22J 966 438

FITS FOR EST RMS LOW = 0.071461 RMS HIGH = 0.071461
 1 22 0 0 0 0 0 0 0 0 TITANIUM (L) 20TI*
 +543299+4+211034+5+898283+1-102532-3-135515+7+274239+2 4004500J 96621TI*
 +543299+4+211034+5+898283+1-102532-3-135515+7+274239+2 4004500J 96622TI*

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.006	400	6.280	12.529	0.636	13.199	-0.670	0.910	-0.274	13.751	-1.222	1.137	-0.501	
0.001	600	6.439	15.105	1.907	15.021	0.084	1.826	0.081	15.020	0.085	1.794	0.113	
0.004	800	6.618	16.981	3.213	16.815	0.166	3.078	0.135	16.760	0.221	3.012	0.201	
0.003	1000	6.825	18.479	4.556	18.394	0.085	4.496	0.060	18.363	0.116	4.451	0.105	
0.001	1200	7.068	19.745	5.945	19.776	-0.031	6.013	-0.068	19.773	-0.028	6.000	-0.055	
-0.001	1400	8.500	20.946	7.509	20.997	-0.051	7.598	-0.089	21.012	-0.066	7.608	-0.099	
-0.001	1600	8.500	22.081	9.209	22.087	-0.006	9.230	-0.021	22.110	-0.029	9.253	-0.044	
-0.002	1800	8.500	23.082	10.909	23.067	0.015	10.895	0.014	23.092	-0.010	10.920	-0.011	
-0.001	2000	8.500	23.977	12.609	23.956	0.021	12.582	0.027	23.978	-0.001	12.603	0.006	
-0.000	2200	8.500	24.788	14.309	24.766	0.022	14.284	0.025	24.785	0.003	14.295	0.014	
-0.000	2400	8.500	25.527	16.009	25.510	0.017	15.992	0.017	25.523	0.004	15.993	0.016	
0.001	2600	8.500	26.208	17.709	26.194	0.014	17.703	0.006	26.204	0.004	17.695	0.014	
0.000	2800	8.500	26.837	19.409	26.828	0.009	19.413	-0.004	26.836	0.001	19.399	0.010	
0.001	3000	8.500	27.424	21.109	27.417	0.007	21.120	-0.011	27.424	0.000	21.103	0.006	
0.000	3200	8.500	27.973	22.809	27.966	0.007	22.822	-0.013	27.974	-0.001	22.808	0.001	
0.000	3400	8.500	28.488	24.509	28.481	0.007	24.519	-0.010	28.491	-0.003	24.512	-0.003	
-0.001	3600	8.500	28.974	26.209	28.965	0.009	26.213	-0.004	28.977	-0.003	26.215	-0.006	
	3800	8.500	29.433	27.909	29.422	0.011	27.905	0.004	29.437	-0.004	27.916	-0.007	
	4000	8.500	29.869	29.609	29.857	0.012	29.600	0.009	29.873	-0.004	29.615	-0.006	
	4200	8.500	30.284	31.309	30.271	0.013	31.300	0.009	30.287	-0.003	31.311	-0.002	
	4400	8.500	30.679	33.009	30.669	0.010	33.011	-0.002	30.680	-0.002	33.005	0.004	


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FITS FOR EST      RMS LOW =      0.000223 RMS   HIGH =      0.000223
 1 40 0  0 0  0 0  0 0  0 0  0 ZIRCONIUM                                     (C) 30ZR$
+000000+0+265883+5+524497+1+278619-2+909000+3+289579+2 4001500J126731ZR$
+000000+0+265883+5+524497+1+278619-2+909000+3+289579+2 4001500J126732ZR$

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[illegible]

ZIRCONIUM (L) ZR 1 0 0 0 0 0 1267

MOL. WT.= 91.220 BLGCK= 2253 NO. POINT = 54

DATA FROM 298 TO 5500 K HFORM(KCAL/(MOLE)) = 6.351 KEY = 442

FITS FOR NOTS RMS = 0.053521

40 0 0 0 0 0 0 0 0 0 ZIRCONIUM

(L) 20J1267 442

.5270586E+0+6.6570007E-1-2.1817213E-1+2.1093234E-2 400 5500

21J1267 442

.1508483E-1+1.9589405E+0+1.9661361E+1+6.3509998E+0ZR(L)

22J1267 442

FITS FOR EST RMS LOW = 0.060736 RMS HIGH = 0.060736

40 0 0 0 0 0 0 0 0 0 ZIRCONIUM

(L) 20ZR*

.35099+4+199454+5+829702+1-537912-4-110283+7+292009+2 4005500J1267212ZR*

.35099+4+199454+5+829702+1-537912-4-110283+7+292009+2 4005500J1267222ZR*

DH		-----NOTS-----												-----EST-----			
KC/M		T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
		K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
4	-0.000	400	5.999	15.034	0.605	15.873	-0.839	0.955	-0.350	16.008	-0.974	1.000	-0.395				
5	0.000	600	6.221	17.509	1.827	17.449	0.060	1.754	0.073	17.447	0.062	1.735	0.092				
3	0.000	800	6.443	19.329	3.094	19.163	0.166	2.951	0.143	19.153	0.176	2.928	0.166				
9	0.000	1000	6.665	20.790	4.405	20.683	0.107	4.315	0.090	20.683	0.107	4.302	0.103				
2	-0.000	1200	6.887	22.025	5.760	22.005	0.020	5.768	-0.008	22.017	0.008	5.766	-0.006				
4	0.000	1400	8.000	23.103	7.159	23.165	-0.062	7.273	-0.114	23.184	-0.081	7.280	-0.121				
3	-0.000	1600	8.000	24.172	8.759	24.192	-0.020	8.812	-0.053	24.215	-0.043	8.825	-0.066				
0	-0.000	1800	8.000	25.114	10.359	25.113	0.001	10.375	-0.016	25.136	-0.022	10.389	-0.030				
5	-0.000	2000	8.000	25.957	11.959	25.944	0.013	11.954	0.005	25.967	-0.010	11.967	-0.008				
8	0.000	2200	8.000	26.719	13.559	26.702	0.017	13.544	0.015	26.723	-0.004	13.553	0.006				
9	0.000	2400	8.000	27.415	15.159	27.397	0.018	15.141	0.018	27.416	-0.001	15.146	0.013				
7	-0.000	2600	8.000	28.056	16.759	28.038	0.018	16.743	0.016	28.055	0.001	16.743	0.016				
		2800	8.000	28.649	18.359	28.633	0.016	18.348	0.011	28.648	0.001	18.344	0.015				
		3000	8.000	29.201	19.959	29.187	0.014	19.953	0.006	29.201	0.000	19.945	0.014				
		3200	8.000	29.717	21.559	29.705	0.012	21.559	0.000	29.718	-0.001	21.549	0.010				
		3400	8.000	30.202	23.159	30.191	0.011	23.163	-0.004	30.204	-0.002	23.152	0.007				
		3600	8.000	30.659	24.759	30.649	0.010	24.766	-0.007	30.663	-0.004	24.756	0.003				
		3800	8.000	31.092	26.359	31.082	0.010	26.367	-0.008	31.096	-0.004	26.359	-0.000				
		4000	8.000	31.502	27.959	31.492	0.010	27.966	-0.007	31.507	-0.005	27.962	-0.003				
		4200	8.000	31.892	29.559	31.882	0.010	29.564	-0.005	31.898	-0.006	29.564	-0.005				
		4400	8.000	32.264	31.159	32.253	0.011	31.160	-0.001	32.271	-0.007	31.166	-0.007				
		4600	8.000	32.620	32.759	32.608	0.012	32.757	0.002	32.626	-0.006	32.766	-0.007				
		4800	8.000	32.961	34.359	32.948	0.013	34.354	0.005	32.966	-0.005	34.365	-0.006				
		5000	8.000	33.287	35.959	33.274	0.013	35.953	0.006	33.293	-0.006	35.962	-0.003				
		5200	8.000	33.601	37.559	33.588	0.013	37.555	0.004	33.605	-0.005	37.558	0.001				
		5400	8.000	33.903	39.159	33.892	0.011	39.162	-0.003	33.906	-0.003	39.153	0.006				

167

ZIRCONIUM, MONATOMIC

(G)

ZR 1 0 0 0 0 0

1267

MOL. WT.= 91.220

BLOCK= 2258

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 148.300 KEY = 443

FITS FOR NOTS RMS = 0.028714

442

1 40 0 0 0 0 0 0 0 0 0 ZIRCONIUM, MONATOMIC

(G) 10J1267 443

442

+5.8570909E+0+3.3492648E-1+1.5709668E-1-1.8759280E-2 400 6000

11J1267 443

442

-6.5048217E-2+1.4657968E+2+5.0590469E+1+1.4829998E+2ZR (G)

12J1267 443

FITS FOR EST RMS LOW = 0.023884 RMS HIGH = 0.030117

1 40 0 0 0 0 0 0 0 0 0 ZIRCONIUM, MONATOMIC

(G) 10ZR

+148299+6+184389+5+521667+1+869490-3+133936+6+585809+2 4003000J126711ZR

+148299+6+184498+5+854062+1+232701-3-150796+8+585809+230006000J126712ZR

-----NOTS-----													
-----EST-----													
M	DH KC/M	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
.000	-0.395	400	6.612	45.229	0.664	45.573	-0.344	0.815	-0.151	45.398	-0.169	0.742	-0.078
.735	0.092	600	6.464	47.897	1.979	47.917	-0.020	1.973	0.006	47.920	-0.023	1.984	-0.005
.928	0.166	800	6.198	49.717	3.243	49.649	0.068	3.179	0.064	49.676	0.041	3.205	0.038
.302	0.103	1000	6.121	51.088	4.472	51.030	0.058	4.417	0.055	51.051	0.037	4.438	0.034
.766	-0.006	1200	6.225	52.211	5.704	52.185	0.026	5.684	0.020	52.197	0.014	5.695	0.009
.280	-0.121	1400	6.428	53.185	6.968	53.184	0.001	6.980	-0.012	53.187	-0.002	6.981	-0.013
.825	-0.066	1600	6.655	54.059	8.276	54.067	-0.008	8.304	-0.028	54.066	-0.007	8.297	-0.021
.389	-0.030	1800	6.865	54.855	9.629	54.864	-0.009	9.657	-0.028	54.860	-0.005	9.645	-0.016
.967	-0.008	2000	7.046	55.588	11.021	55.592	-0.004	11.040	-0.019	55.587	0.001	11.026	-0.005
.553	0.006	2200	7.202	56.267	12.446	56.266	0.001	12.453	-0.007	56.261	0.006	12.441	0.005
.146	0.013	2400	7.341	56.899	13.900	56.894	0.005	13.897	0.003	56.891	0.008	13.889	0.011
.743	0.016	2600	7.475	57.492	15.382	57.484	0.008	15.371	0.011	57.484	0.008	15.372	0.010
.344	0.015	2800	7.609	58.051	16.890	58.042	0.009	16.877	0.013	58.046	0.005	16.888	0.002
.945	0.014	3000	7.749	58.581	18.426	58.572	0.009	18.414	0.012	58.581	0.000	18.439	-0.013
.549	0.010	3000	7.749	58.581	18.426	58.572	0.009	18.414	0.012	58.581	0.000	18.450	-0.024
.152	0.007	3200	7.894	59.086	19.990	59.078	0.008	19.982	0.008	59.077	0.009	19.988	0.002
.756	0.003	3400	8.045	59.569	21.584	59.562	0.007	21.580	0.004	59.558	0.011	21.573	0.011
.359	-0.000	3600	8.198	60.033	23.208	60.027	0.005	23.209	-0.001	60.022	0.011	23.197	0.011
.962	-0.003	3800	8.351	60.480	24.863	60.476	0.004	24.867	-0.004	60.470	0.010	24.857	0.006
.564	-0.005	4000	8.500	60.912	26.548	60.908	0.004	26.554	-0.007	60.904	0.008	26.548	-0.000
.166	-0.007	4200	8.644	61.331	28.263	61.327	0.004	28.269	-0.006	61.324	0.007	28.268	-0.005
.766	-0.007	4400	8.780	61.736	30.005	61.732	0.004	30.011	-0.006	61.729	0.007	30.013	-0.008
.365	-0.006	4600	8.906	62.129	31.774	62.124	0.005	31.777	-0.003	62.122	0.007	31.781	-0.007
.962	-0.003	4800	9.020	62.511	33.567	62.505	0.006	33.567	-0.000	62.503	0.008	33.572	-0.005
.558	0.001	5000	9.122	62.881	35.381	62.875	0.006	35.379	0.002	62.873	0.008	35.382	-0.001
.153	0.006	5200	9.212	63.240	37.215	63.234	0.006	37.211	0.004	63.232	0.008	37.212	0.003
		5400	9.288	63.590	39.065	63.583	0.007	39.061	0.004	63.580	0.010	39.059	0.006
		5600	9.352	63.929	40.929	63.923	0.006	40.927	0.002	63.919	0.010	40.923	0.006
		5800	9.403	64.258	42.805	64.252	0.006	42.805	-0.000	64.249	0.009	42.804	0.001
		6000	9.442	64.577	44.690	64.572	0.005	44.695	-0.005	64.571	0.006	44.700	-0.010

LITHIUM METABORATE (C) B 1LI 10 2 0 0 0 671
 MOL. WT.= 49.740 BLCCK= 2265 NO. POINT = 22
 DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -243.600 KEY = 444
 FITS FOR NOTS RMS = 0.000845
 1 5 2 8 1 71 0 0 0 0 LITHIUM METABORATE (C) 30J 671 444
 1.3256988E+1+1.2613533E+1+2.8295302E-1-3.8799598E-2 400 2000 31J 671 444
 1.1249389E-1-2.4883830E+2+2.3411102E+1-2.4359999E+2BLIO2 (C) 32J 671 444

LITH
 MOL
 DATA
 FITS
 1 5 2
 +5.9496
 -8.2991

FITS FOR EST RMS LOW = 0.000859 RMS HIGH = 0.000859
 1 5 2 8 1 71 0 0 0 0 LITHIUM METABORATE (C) 30BLIO2\$
 243599+6+930693+5+128335+2+132219-1-160128+6+767293+2 4002000J 67131BLIO2\$
 243599+6+930693+5+128335+2+132219-1-160128+6+767293+2 4002000J 67132BLIO2\$

FITS
 1 5 2
 -239066
 -239066

-----NOTS-----												-----EST-----											
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C										
K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	K	C										
400	17.004	16.996	1.612	16.995	0.001	1.611	0.001	16.985	0.011	1.608	0.004	400	17.										
500	18.787	20.989	3.404	20.988	0.001	3.403	0.001	20.991	-0.002	3.406	-0.002	600	20.										
600	20.329	24.553	5.361	24.550	0.003	5.360	0.001	24.555	-0.002	5.363	-0.002	800	34.										
700	21.773	27.796	7.467	27.794	0.002	7.465	0.002	27.797	-0.001	7.468	-0.001	1000	34.										
800	23.169	30.795	9.714	30.794	0.001	9.714	0.000	30.794	0.001	9.714	-0.000	1200	34.										
900	24.540	33.603	12.100	33.603	0.000	12.100	0.000	33.602	0.001	12.099	0.000	1400	34.										
1000	25.897	36.259	14.622	36.259	-0.000	14.623	-0.001	36.258	0.001	14.621	0.001	1600	34.										
1100	27.244	38.790	17.279	38.791	-0.001	17.280	-0.001	38.789	0.001	17.278	0.001	1800	34.										
1200	28.586	41.218	20.071	41.220	-0.002	20.072	-0.001	41.217	0.001	20.070	0.001	2000	34.										
1300	29.924	43.559	22.996	43.560	-0.001	22.997	-0.001	43.558	0.001	22.996	0.000	2200	34.										
1400	31.259	45.826	26.055	45.827	-0.001	26.056	-0.001	45.825	0.001	26.055	-0.000	2400	34.										
1500	32.593	48.028	29.248	48.029	-0.001	29.248	-0.000	48.028	0.000	29.248	-0.000	2600	34.										
1600	33.924	50.174	32.574	50.174	-0.000	32.574	0.000	50.174	0.000	32.574	-0.000	2800	34.										
1700	35.255	52.270	36.033	52.271	-0.001	36.032	0.001	52.270	-0.000	36.033	-0.000	3000	34.										
1800	36.585	54.323	39.625	54.323	-0.000	39.624	0.001	54.323	-0.000	39.625	-0.000												
1900	37.915	56.337	43.350	56.337	-0.000	43.350	0.000	56.337	0.000	43.350	-0.000												
2000	39.243	58.315	47.208	58.316	-0.001	47.208	-0.000	58.315	0.000	47.208	0.000												

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LITHIUM METABORATE (L) B 1LI 10 2 0 0 0 671
MOL. WT.= 49.740 BLOCK= 2267 NO. POINT = 29
DATA FROM 298 TO 3000 K HFORM(KCAL/(MOLE)) = -239.067 KEY = 445
FITS FOR NOTS RMS = 0.096118
1 5 2 8 1 71 0 0 0 0 0 LITHIUM METABORATE (L) 20J 671 445
+5.9496765E+1-2.5615615E+1+9.4817304E+0-1.2089834E+0 400 3000 21J 671 445
-8.2991180E+0-2.7966967E+2+5.9742660E+1-2.3906698E+2BLIO2(L) 22J 671 445

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PITS FOR EST RMS LOW = 0.181816 RMS HIGH = 0.181816
1 5 2 8 1 7 1 0 0 0 0 0 LITHIUM METABORATE (L) 20BLIO2*
-239066+6+861680+5+384050+2-131455-2-414321+7+805199+2 4003C00J 67121BLIO2*
-239066+6+861680+5+384050+2-131455-2-414321+7+805199+2 4003000J 67122BLIO2*

[illegible]

DICHLORODIFLUOROMETHANE (G) C 1CL 2F 2 0 0 0 670
 MOL. WT.= 120.910 BLOCK= 2270 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -117.500 KEY = 446
 FITS FOR NOTS RMS = 0.007740
 6 2 9 2 17 0 0 0 0 0 DICHLORODIFLUOROMETHANE (G) 10J 670 446
 .5377273E+1+2.8630816E-1-6.4149439E-2+4.8633180E-3 400 6000 11J 670 446
 1.1618652E+0-1.2860809E+2+9.7063919E+1-1.1750000E+2CCL2F2 (G) 12J 670 446

FITS FOR EST RMS LOW = 0.010696 RMS HIGH = 0.007761
 6 2 9 2 17 0 0 0 0 0 DICHLORODIFLUOROMETHANE (G) 10CCL2F2
 117500+6+662248+5+255468+2+915529-4-119041+7+125623+3 4003000J 67011CCL2F2
 117500+6+662263+5+260017+2-245972-4-266393+7+125623+330006000J 67012CCL2F2

H C/M	-----NOTS-----												T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
.510	400	19.683	77.351	1.891	77.551	-0.200	1.969	-0.078	77.565	-0.214	1.978	-0.087	400
.162	500	22.371	85.907	6.130	85.875	0.032	6.102	0.028	85.875	0.032	6.104	0.026	600
.612	600	23.684	92.544	10.750	92.518	0.026	10.727	0.023	92.520	0.024	10.730	0.020	800
.122	700	24.389	97.912	15.564	97.901	0.011	15.554	0.010	97.904	0.008	15.559	0.005	1000
.074	800	24.802	102.398	20.487	102.394	0.004	20.485	0.002	102.398	-0.000	20.490	-0.003	1200
.127	900	25.063	106.243	25.475	106.241	0.002	25.477	-0.002	106.245	-0.002	25.481	-0.006	1400
.109	1000	25.237	109.601	30.506	109.601	0.000	30.509	-0.003	109.603	-0.002	30.512	-0.006	1600
.060	1100	25.358	112.581	35.566	112.581	0.000	35.568	-0.002	112.582	-0.001	35.569	-0.003	1800
.007	1200	25.446	115.258	40.647	115.257	0.001	40.648	-0.001	115.257	0.001	40.648	-0.001	2000
.036	1300	25.512	117.686	45.743	117.685	0.001	45.744	-0.001	117.684	0.002	45.741	0.002	2200
.056	1400	25.563	119.909	50.851	119.907	0.002	50.851	0.000	119.906	0.003	50.848	0.003	2400
.049	1500	25.602	121.956	55.968	121.954	0.002	55.967	0.001	121.954	0.002	55.965	0.003	2600
.008	1600	25.633	123.855	61.091	123.853	0.002	61.091	0.000	123.853	0.002	61.091	0.000	2800
.070	1700	25.659	125.624	66.221	125.622	0.002	66.221	0.000	125.624	0.000	66.225	-0.004	3000
	1800	25.659	125.624	66.221	125.622	0.002	66.221	0.000	125.624	0.000	66.226	-0.005	3200
	1900	25.680	127.281	71.355	127.279	0.002	71.355	0.000	127.279	0.002	71.356	-0.001	3400
	2000	25.697	128.838	76.492	128.837	0.001	76.493	-0.001	128.836	0.002	76.491	0.001	3600
	2100	25.712	130.307	81.633	130.306	0.001	81.635	-0.002	130.305	0.002	81.631	0.002	3800
	2200	25.724	131.698	86.777	131.697	0.001	86.779	-0.002	131.695	0.003	86.774	0.003	4000
	2300	25.735	133.018	91.923	133.016	0.002	91.925	-0.002	133.015	0.003	91.920	0.003	4200
	2400	25.744	134.274	97.071	134.272	0.002	97.072	-0.001	134.271	0.003	97.068	0.003	4400
	2500	25.752	135.471	102.220	135.470	0.001	102.222	-0.002	135.469	0.002	102.219	0.001	4600
	2600	25.759	136.616	107.371	136.615	0.001	107.372	-0.001	136.614	0.002	107.371	0.000	4800
	2700	25.765	137.713	112.524	137.711	0.002	112.524	0.000	137.710	0.003	112.524	0.000	5000
	2800	25.770	138.764	117.677	138.763	0.001	117.676	0.001	138.762	0.002	117.678	-0.001	5200
	2900	25.775	139.775	122.832	139.773	0.002	122.830	0.002	139.773	0.002	122.833	-0.001	5400
	3000	25.779	140.748	127.987	140.746	0.002	127.985	0.002	140.746	0.002	127.988	-0.001	5600
	3100	25.783	141.686	133.143	141.684	0.002	133.142	0.001	141.684	0.002	133.144	-0.001	5800
	3200	25.786	142.591	138.300	142.589	0.002	138.300	0.000	142.588	0.003	138.300	0.000	6000
	3300	25.789	143.465	143.458	143.463	0.002	143.460	-0.002	143.462	0.003	143.456	0.002	6000

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+9.93
-3.30
FIT
1 9
-1600
-1600

LITHIUM SODIUM OXIDE

(G) LI 1NA 10 1

661

MOL. WT.= 45.920 BLOCK= 2283 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -25.000 KEY = 448

FITS FOR NOTS RMS = 0.003732

1 8 1 11 1 71 0 0 0 0 0 LITHIUM SODIUM OXIDE (G) 10J 661 448
 1.3732954E+1+1.1157482E-1-2.5069456E-2+1.9098212E-3 400 6000 11J 661 448
 0.0689697E-1-3.0635330E+1+7.5481246E+1-2.5000000E+1L1NAO(G) 12J 661 448

FITS FOR EST RMS LOW = 0.004604 RMS HIGH = 0.004203

1 8 1 11 1 71 0 0 0 0 0 LITHIUM SODIUM OXIDE (G) 10L1NAO
 250000+5+360492+5+137960+2+366436-4-516880+6+908359+2 4003000J 66111L1NAO
 250000+5+360508+5+140058+2-138527-4-128588+7+908359+230006000J 66112L1NAO

DH KC/M	-----NOTS-----								-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
5 0.033	400	11.257	64.436	1.100	64.525	-0.089	1.133	-0.033	64.530	-0.094	1.138	-0.038
1 -0.011	600	12.415	69.247	3.481	69.233	0.014	3.468	0.013	69.233	0.014	3.470	0.011
5 -0.012	800	12.986	72.906	6.027	72.894	0.012	6.016	0.011	72.896	0.010	6.019	0.008
4 -0.002	1000	13.291	75.840	8.658	75.834	0.006	8.652	0.006	75.836	0.004	8.655	0.003
9 0.004	1200	13.469	78.280	11.335	78.278	0.002	11.334	0.001	78.280	0.000	11.336	-0.001
5 0.005	1400	13.581	80.366	14.041	80.365	0.001	14.041	-0.000	80.366	0.000	14.044	-0.003
0 0.004	1600	13.656	82.184	16.765	82.184	0.000	16.766	-0.001	82.185	-0.001	16.768	-0.003
3 0.001	1800	13.708	83.796	19.502	83.795	0.001	19.503	-0.001	83.796	0.000	19.503	-0.001
2 -0.001	2000	13.746	85.242	22.248	85.242	0.000	22.248	0.000	85.241	0.001	22.248	0.000
8 -0.002	2200	13.774	86.554	25.000	86.553	0.001	25.000	0.000	86.552	0.002	24.999	0.001
0 -0.002	2400	13.795	87.753	27.757	87.752	0.001	27.757	0.000	87.752	0.001	27.755	0.002
7 0.000	2600	13.812	88.858	30.517	88.857	0.001	30.517	-0.000	88.857	0.001	30.516	0.001
0 0.001	2800	13.826	89.882	33.281	89.881	0.001	33.281	-0.000	89.881	0.001	33.281	-0.000
9 0.000	3000	13.837	90.836	36.048	90.836	0.000	36.048	0.000	90.836	0.000	36.049	-0.001
0 -0.001	3200	13.837	90.836	36.048	90.836	0.000	36.048	0.000	90.836	0.000	36.051	-0.003
3 -0.001	3400	13.845	91.730	38.816	91.729	0.001	38.816	-0.000	91.728	0.002	38.817	-0.001
5 0.000	3600	13.853	92.569	41.586	92.569	0.000	41.586	-0.000	92.568	0.001	41.585	0.001
4 0.001	3800	13.859	93.361	44.357	93.361	0.000	44.357	-0.000	93.359	0.002	44.355	0.002
4 0.001	4000	13.864	94.111	47.129	94.110	0.001	47.130	-0.001	94.109	0.002	47.128	0.001
6 0.001	4200	13.869	94.822	49.902	94.821	0.001	49.903	-0.001	94.820	0.002	49.901	0.001
9 0.001	4400	13.873	95.499	52.677	95.498	0.001	52.677	-0.000	95.497	0.002	52.676	0.001
3 0.001	4600	13.876	96.144	55.452	96.144	0.000	55.452	0.000	96.142	0.002	55.451	0.001
9 -0.000	4800	13.879	96.761	58.227	96.760	0.001	58.227	-0.000	96.759	0.002	58.227	0.000
4 -0.000	5000	13.882	97.352	61.003	97.351	0.001	61.003	-0.000	97.350	0.002	61.003	-0.000
1 -0.001	5200	13.884	97.918	63.780	97.918	0.000	63.779	0.001	97.917	0.001	63.780	-0.000
8 -0.001	5400	13.886	98.463	66.557	98.462	0.001	66.556	0.001	98.462	0.001	66.557	-0.000
5 -0.000	5600	13.888	98.987	69.334	98.986	0.001	69.333	0.001	98.986	0.001	69.335	-0.001
5 -0.000	5800	13.889	99.492	72.112	99.491	0.001	72.111	0.001	99.491	0.001	72.112	-0.000
4 0.002	6000	13.891	99.980	74.890	99.979	0.001	74.890	0.000	99.978	0.002	74.890	0.000
	6200	13.892	100.451	77.668	100.450	0.001	77.669	-0.001	100.449	0.002	77.667	0.001

LITHIUM METATITANATE (C) LI 20 3TI 1 365
 MOL. WT.= 109.770 BLCK= 2289 NO. POINT = 32
 DATA FROM 0 TO 3000 K HFORM(KCAL/(MOLE)) = -399.300 KEY = 449
 FITS FOR NOTS RMS = 0.574709
 3 8 1 22 2 71 0 0 0 0 0 LITHIUM METATITANATE (C) 30J 365 449
 -1.8746215E+1+8.7347137E+1-4.0779998E+1+6.6596755E+0 400 3000 31J 365 449
 +3.9843597E+0-3.8499414E+2-6.1143741E+0-3.9929980E+2LI2O3TI(C) 32J 365 449

FITS FOR EST RMS LOW = 0.651530 RMS HIGH = 0.651530
 3 8 1 22 2 71 0 0 0 0 0 LITHIUM METATITANATE (C) 30LI2O3TI\$
 -399299+6+117370+6+372116+2+538703-2-313678+7+111492+3 4003000J 36531LI2O3TI\$
 -399299+6+117370+6+372116+2+538703-2-313678+7+111492+3 4003000J 36532LI2O3TI\$

	-----NOTS-----								-----EST-----			
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
8	400	30.440	30.263	2.898	30.430	-0.167	3.007	-0.109	32.137	-1.874	3.606	-0.708
1	600	33.820	43.328	9.365	43.475	-0.147	9.419	-0.054	42.857	0.471	8.973	0.392
8	800	35.620	53.329	16.327	52.921	0.408	16.001	0.326	52.733	0.596	15.863	0.464
3	1000	36.780	61.409	23.573	61.070	0.339	23.320	0.253	61.232	0.177	23.491	0.082
1	1200	37.600	68.194	31.018	68.375	-0.181	31.343	-0.325	68.615	-0.421	31.595	-0.577
3	1400	38.120	74.032	38.594	74.975	-0.943	39.911	-1.317	75.139	-1.107	40.065	-1.471
3	1600	43.000	81.309	49.484	80.946	0.363	48.859	0.625	80.998	0.311	48.843	0.641
1	1800	44.600	86.466	58.244	86.360	0.106	58.053	0.191	86.330	0.136	57.899	0.345
0	2000	46.200	91.248	67.324	91.287	-0.039	67.407	-0.083	91.236	0.012	67.214	0.110
1	2200	47.800	95.726	76.724	95.807	-0.081	76.893	-0.169	95.792	-0.066	76.777	-0.053
2	2400	49.400	99.954	86.444	100.003	-0.049	86.538	-0.094	100.055	-0.101	86.578	-0.134
1	2600	51.000	103.971	96.484	103.962	0.009	96.433	0.051	104.071	-0.100	96.614	-0.130
0	2800	52.600	107.809	106.844	107.775	0.034	106.728	0.116	107.874	-0.065	106.879	-0.035
1	3000	54.200	111.493	117.524	111.538	-0.045	117.639	-0.115	111.493	0.000	117.371	0.153

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LITHIUM METATITANATE

(L)

LI 20 3TI 1

364

MOL. WT.= 109.770

BLOCK= 2292

NO. POINT = 39

DATA FROM 298 TO 4000 K HFORM(KCAL/(MOLE)) = -374.374 KEY = 450

FITS FOR NOTS RMS = 0.336652

3 8 1 22 2 71 0 0 0 0 LITHIUM METATITANATE (L) 20J 364 450
+2.5569458E+1+2.7729614E+1-1.0556510E+1+1.2766275E+0 400 4000 21J 364 450
-3.2033996E+0-3.9042797E+2+5.0011642E+1-3.7437377E+2LI203TI(L) 22J 364 450

FITS FOR EST RMS LOW = 0.424205 RMS HIGH = 0.424205

3 8 1 22 2 71 0 0 0 0 LITHIUM METATITANATE (L) 20LI203TI*
-374373+6+117283+6+518147+2-896888-3-884654+7+125479+3 4004000J 36421LI203TI*
-374373+6+117283+6+518147+2-896888-3-884654+7+125479+3 4004000J 36422LI203TI*

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	30.440	43.688	2.898	46.868	-3.180	4.183	-1.285	50.564	-6.876	5.697	-2.799
600	33.820	56.753	9.365	56.229	0.524	8.899	0.466	56.035	0.718	8.598	0.767
800	35.620	66.754	16.327	65.832	0.922	15.608	0.719	65.387	1.367	15.149	1.178
1000	36.780	74.834	23.573	74.490	0.344	23.384	0.189	74.281	0.553	23.139	0.434
1200	37.600	81.619	31.018	82.196	-0.577	31.845	-0.827	82.197	-0.578	31.830	-0.812
1400	48.000	88.898	40.472	89.076	-0.178	40.777	-0.305	89.190	-0.292	40.907	-0.435
1600	48.000	95.307	50.072	95.253	0.054	50.031	0.041	95.401	-0.094	50.211	-0.139
1800	48.000	100.961	59.672	100.829	0.132	59.501	0.171	100.962	-0.001	59.655	0.017
2000	48.000	106.018	69.272	105.886	0.132	69.101	0.171	105.982	0.036	69.185	0.087
2200	48.000	110.593	78.872	110.493	0.100	78.768	0.104	110.549	0.044	78.769	0.103
2400	48.000	114.769	88.472	114.706	0.063	88.453	0.019	114.732	0.037	88.385	0.087
2600	48.000	118.611	98.072	118.576	0.035	98.122	-0.050	118.587	0.024	98.016	0.056
2800	48.000	122.169	107.672	122.146	0.023	107.756	-0.084	122.157	0.012	107.651	0.021
3000	48.000	125.480	117.272	125.455	0.025	117.348	-0.076	125.480	0.000	117.283	-0.011
3200	48.000	128.578	126.872	128.539	0.039	126.905	-0.033	128.585	-0.007	126.906	-0.034
3400	48.000	131.488	136.472	131.431	0.057	136.447	0.025	131.498	-0.010	136.514	-0.042
3600	48.000	134.232	146.072	134.163	0.069	146.005	0.067	134.239	-0.007	146.105	-0.033
3800	48.000	136.827	155.672	136.763	0.064	155.623	0.049	136.826	0.001	155.675	-0.003
4000	48.000	139.289	165.272	139.260	0.029	165.360	-0.088	139.274	0.015	165.222	0.050

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MAGNESIUM METATITANATE      (C)      HG 10 3TI 1 0 0 0      667
MOL. WT.= 120.210      BLOCK= 2296      NO. POINT = 32
DATA FROM 0 TO 3000 K      HFORM(KCAL/(MOLE)) = -375.850      KEY = 451
FITS FOR NOTS      RMS = 0.002622

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450

450

450

3	8	1	12	1	22	0	0	0	0	0	MAGNESIUM METATITANATE	(C)	30J	667	451	
+2.8710388E+1+3.7296714E+0-7.0536786E-1+1.7856603E-1												400	3000	31J	667	451
-8.5697937E-1-3.8733862E+2+4.6979888E+1-3.7584985E+2												MGO3TI	(C)	32J	667	451

FITS FOR EST RMS LOW = 0.035733 RMS HIGH = 0.035733
 3 8 1 12 1 22 0 0 0 0 0 MAGNESIUM METATITANATE (C) 30MGO3TIS
 -375849+6+889503+5+281725+2+329069-2-518752+6+881899+2 4003000J 66731MGO3TIS
 -375849+6+889503+5+281725+2+329069-2-518752+6+881899+2 4003000J 66732MGO3TIS

	DB KC/H
697	-2.799
598	0.767
149	1.178
139	0.434
830	-0.812
907	-0.435
211	-0.139
655	0.017
185	0.087
769	0.103
385	0.087
016	0.056
651	0.021
283	-0.011
906	-0.034
314	-0.042
105	-0.033
675	-0.003
222	0.050

-----NOTS-----								-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	25.154	24.763	2.414	24.790	-0.027	2.422	-0.008	24.461	0.302	2.281	0.133
600	28.311	35.642	7.801	35.628	0.014	7.792	0.009	35.642	0.000	7.812	-0.011
800	29.967	44.033	13.643	44.031	0.002	13.642	0.001	44.090	-0.057	13.691	-0.048
1000	31.056	50.843	19.751	50.845	-0.002	19.753	-0.002	50.888	-0.045	19.788	-0.037
1200	31.891	56.582	26.049	56.583	-0.001	26.049	-0.000	56.604	-0.022	26.060	-0.011
1400	32.606	61.553	32.500	61.552	0.001	32.499	0.001	61.557	-0.004	32.489	0.011
1600	33.266	65.950	39.087	65.950	0.000	39.087	0.000	65.946	0.004	39.064	0.023
1800	33.910	69.905	45.805	69.906	-0.001	45.805	-0.000	69.901	0.004	45.781	0.024
2000	34.559	73.511	52.652	73.512	-0.001	52.653	-0.001	73.512	-0.001	52.637	0.015
2200	35.228	76.836	59.630	76.837	-0.001	59.632	-0.002	76.844	-0.008	59.630	-0.000
2400	35.925	79.931	66.745	79.932	-0.001	66.745	-0.000	79.945	-0.014	66.759	-0.014
2600	36.659	82.836	74.002	82.835	0.001	74.002	0.000	82.852	-0.016	74.022	-0.020
2800	37.432	85.580	81.411	85.580	0.000	81.409	0.002	85.592	-0.012	81.419	-0.008
3000	38.250	88.190	88.978	88.191	-0.001	88.979	-0.001	88.190	0.000	88.950	0.028

MAGNESIUM DITITANATE (C) MG 10 STI 2 0 0 0 667
 MOL. WT.= 200.100 BLOCK= 2299 NO. POINT = 32
 DATA FROM 0 TO 3000 K HFORM(KCAL/(MOLE)) = -599.750 KEY = 452
 FITS FOR NOTS RMS = 0.002558
 5 8 1 12 2 22 0 0 0 0 0 MAGNESIUM DITITANATE (C) 30J 667 452
 +4.0426910E+1+9.9328842E+0-4.4338309E-1+6.1343282E-2 400 3000 31J 667 452
 -7.6828002E-1-6.1480053E+2+7.4128356E+1-5.9975000E+2MGO5TI2(C) 32J 667 452

FITS FOR EST RMS LOW = 0.006006 RMS HIGH = 0.006006
 5 8 1 12 2 22 0 0 0 0 0 MAGNESIUM DITITANATE (C) 30MGO5TI2\$
 -599750+6+148438+6+413064+2+886941-2-940208+6+146938+3 4003000J 66731MGO5TI2\$
 -599750+6+148438+6+413064+2+886941-2-940208+6+146938+3 4003000J 66732MGO5TI2\$

-----NOTS-----													-----EST-----			
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
	K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H				
0.133	400	39.616	43.424	3.829	43.425	-0.001	3.826	0.003	43.536	-0.112	3.876	-0.047				
-0.011	600	44.096	60.434	12.249	60.429	0.005	12.244	0.005	60.426	0.008	12.240	0.009				
-0.048	800	46.911	73.525	21.363	73.522	0.003	21.360	0.003	73.512	0.013	21.352	0.011				
-0.037	1000	49.204	84.245	30.980	84.244	0.001	30.979	0.001	84.238	0.007	30.974	0.006				
-0.011	1200	51.276	93.401	41.030	93.401	-0.000	41.030	-0.000	93.400	0.001	41.030	-0.000				
0.011	1400	53.236	101.454	51.483	101.454	-0.000	51.483	-0.000	101.454	-0.000	51.486	-0.003				
0.023	1600	55.132	108.687	62.320	108.688	-0.001	62.322	-0.002	108.688	-0.001	62.324	-0.004				
0.024	1800	56.988	115.288	73.533	115.289	-0.001	73.535	-0.002	115.288	-0.000	73.535	-0.002				
0.015	2000	58.819	121.387	85.114	121.389	-0.002	85.116	-0.002	121.387	0.000	85.115	-0.001				
-0.000	2200	60.633	127.078	97.059	127.080	-0.002	97.061	-0.002	127.077	0.001	97.058	0.001				
-0.014	2400	62.433	132.431	109.366	132.432	-0.001	109.367	-0.001	132.429	0.002	109.364	0.002				
-0.020	2600	64.224	137.499	122.032	137.500	-0.001	122.031	-0.001	137.498	0.001	122.030	0.002				
-0.008	2800	66.008	142.324	135.055	142.325	-0.001	135.054	0.001	142.323	0.001	135.055	0.000				
0.028	3000	67.787	146.939	148.435	146.940	-0.001	148.436	-0.001	146.939	0.000	148.438	-0.003				

MAGNESIUM DITITANATE (L) MG 10 5TI 2 0 0 0 667
 MOL. WT.= 200.100 BLOCK= 2303 NO. POINT = 39
 DATA FROM 298 TO 4000 K HFORM(KCAL/(MOLE)) = -569.385 KEY = 453
 FITS FOR NOTS RMS = 0.400893
 5 8 1 12 2 22 0 0 0 0 0 MAGNESIUM DITITANATE (L) 20J 667 453
 +2.5838211E+1+4.2872375E+1-1.5876955E+1+1.8863954E+0 400 4000 21J 667 453
 -2.3120117E+0-5.8351000E+2+6.1904815E+1-5.6938476E+2HGO5TI2 (L) 22J 667 453

FITS FOR EST RMS LOW = 0.562227 RMS HIGH = 0.562227
 5 8 1 12 2 22 0 0 0 0 0 MAGNESIUM DITITANATE (L) 20HGO5TI2*
 -569384+6+152281+6+670381+2-105887-2-115970+8+164586+3 4004000J 66721HGO5TI2*
 -569384+6+152281+6+670381+2-105887-2-115970+8+164586+3 4004000J 66722HGO5TI2*

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.047	400	39.616	58.284	3.829	61.374	-3.090	5.093	-1.264	67.861	-9.577	7.790	-3.961	40
0.009	600	44.096	75.294	12.249	74.919	0.375	11.866	0.383	74.697	0.597	11.427	0.822	60
0.011	800	46.911	88.385	21.363	87.485	0.900	20.638	0.725	86.724	1.661	19.855	1.508	80
0.006	1000	49.204	99.105	30.980	98.623	0.482	30.640	0.340	98.210	0.895	30.172	0.808	100
-0.000	1200	51.276	108.261	41.030	108.520	-0.259	41.508	-0.478	108.449	-0.188	41.414	-0.384	120
-0.003	1400	62.400	117.029	52.448	117.376	-0.347	53.004	-0.556	117.503	-0.474	53.166	-0.718	140
-0.004	1600	62.400	125.362	64.928	125.349	0.013	64.951	-0.023	125.549	-0.187	65.220	-0.292	160
-0.002	1800	62.400	132.711	77.408	132.566	0.145	77.207	0.201	132.758	-0.047	77.463	-0.055	180
-0.001	2000	62.400	139.286	89.888	139.125	0.161	89.659	0.229	139.270	0.016	89.824	0.064	200
0.001	2200	62.400	145.233	102.368	145.108	0.125	102.216	0.152	145.196	0.037	102.259	0.109	220
0.002	2400	62.400	150.663	114.848	150.587	0.076	114.808	0.040	150.626	0.037	114.741	0.107	240
0.002	2600	62.400	155.657	127.328	155.620	0.037	127.385	-0.057	155.631	0.026	127.247	0.081	260
0.000	2800	62.400	160.282	139.808	160.264	0.018	139.917	-0.109	160.269	0.013	139.764	0.044	280
-0.003	3000	62.400	164.587	152.288	164.568	0.019	152.393	-0.105	164.587	0.000	152.282	0.006	300
	3200	62.400	168.614	164.768	168.577	0.036	164.818	-0.050	168.624	-0.010	164.791	-0.023	
	3400	62.400	172.397	177.248	172.337	0.060	177.219	0.029	172.411	-0.014	177.287	-0.039	
	3600	62.400	175.964	189.728	175.886	0.078	189.639	0.089	175.977	-0.013	189.764	-0.036	
	3800	62.400	179.337	202.208	179.266	0.071	202.142	0.066	179.344	-0.007	202.218	-0.010	
	4000	62.400	182.538	214.688	182.513	0.025	214.806	-0.118	182.532	0.006	214.647	0.041	

667

MAGNESIUM ORTHOTITANATE

(C)

MG 20 4TI 1 0 0 0

667

MOL. WT. = 160.520

BLOCK = 2307

NO. POINT = 32

DATA FROM 0 TO 3000 K HFORM (KCAL/(MOLE)) = -517.300 KEY = 454

FITS FOR NOTS RMS = 0.002241

4 8 2 12 1 22 0 0 0 0 0 MAGNESIUM ORTHOTITANATE

(C) 30J 667 454

3.4892196E+1+1.0551683E+1-9.1447627E-1+1.5480693E-2 400 3000

31J 667 454

6.3803100E-1-5.3031323E+2+6.3020721E+1-5.1729980E+2MG204TI (C)

32J 667 454

FITS FOR EST RMS LOW = 0.068521 RMS HIGH = 0.068521

4 8 2 12 1 22 0 0 0 0 0 MAGNESIUM ORTHOTITANATE

(C) 30MG204TIS

-517299+6+131488+6+393421+2+664417-2-179798+7+129067+3 4003000J 66731MG204TIS

517299+6+131488+6+393421+2+664417-2-179798+7+129067+3 4003000J 66732MG204TIS

-----NOTS-----

-----EST-----

C DH
/H KC/H
7.790 -3.961
1.427 0.822
9.855 1.508
0.172 0.808
1.414 -0.384
3.166 -0.718
5.220 -0.292
7.463 -0.055
9.824 0.064
2.259 0.109
1.741 0.107
7.247 0.081
1.764 0.044
1.282 0.006
0.791 -0.023
1.287 -0.039
1.764 -0.036
1.218 -0.010
0.647 0.041

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H
400	34.963	37.198	3.368	37.191	0.007	3.363	0.005	38.041	-0.843	3.727	-0.359
600	39.122	52.253	10.822	52.251	0.002	10.819	0.003	52.201	0.052	10.762	0.060
800	41.756	63.887	18.922	63.885	0.002	18.920	0.002	63.755	0.132	18.811	0.111
1000	43.902	73.440	27.493	73.439	0.001	27.492	0.001	73.357	0.083	27.426	0.067
1200	45.815	81.616	36.468	81.616	-0.000	36.467	0.001	81.584	0.032	36.456	0.011
1400	47.584	88.813	45.810	88.814	-0.001	45.810	-0.000	88.812	0.001	45.838	-0.028
1600	49.245	95.277	55.494	95.278	-0.001	55.496	-0.002	95.287	-0.010	55.539	-0.046
1800	50.815	101.168	65.501	101.170	-0.002	65.504	-0.003	101.176	-0.008	65.542	-0.041
2000	52.304	106.600	75.815	106.602	-0.002	75.817	-0.002	106.597	0.003	75.835	-0.020
2200	53.717	111.652	86.418	111.653	-0.001	86.419	-0.001	111.636	0.016	86.413	0.005
2400	55.057	116.384	97.297	116.385	-0.001	97.297	0.000	116.359	0.025	97.269	0.028
2600	56.326	120.841	108.436	120.842	-0.001	108.436	0.000	120.814	0.027	108.402	0.034
2800	57.525	125.060	119.822	125.060	-0.000	119.821	0.001	125.040	0.020	119.809	0.013
3000	58.656	129.068	131.441	129.068	-0.000	131.442	-0.001	129.068	0.000	131.488	-0.047

MAGNESIUM ORTHOTITANATE (L) MG 20 4TI 1 0 0 0 667
 MOL. WT. = 160.520 BLOCK = 2310 NO. POINT = 39
 DATA FROM 298 TO 4000 K HFORM (KCAL/(MOLE)) = -489.084 KEY = 455
 FITS FOR NOTS RMS = 0.304592
 4 8 2 12 1 22 0 0 0 0 0 MAGNESIUM ORTHOTITANATE (L) 20J 667 455
 +1.5614105E+1+4.3573303E+1-1.5691145E+1+1.8289041E+0 400 4000 21J 667 455
 -3.5888671E-2-4.9457202E+2+5.0397933E+1-4.8908398E+2MG204TI(L) 22J 667 455

FITS FOR EST RMS LOW = 0.513369 RMS HIGH = 0.513369
 4 8 2 12 1 22 0 0 0 0 0 MAGNESIUM ORTHOTITANATE (L) 20MG204TI*
 -489083+6+133138+6+581505+2-767076-3-100539+8+144123+3 4004000J 66721MG204TI*
 -489083+6+133138+6+581505+2-767076-3-100539+8+144123+3 4004000J 66722MG204TI*

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
-0.359	400	34.963	50.896	3.368	52.416	-1.520	4.010	-0.642	59.811	-8.915	7.121	-3.753	400
0.060	600	39.122	65.951	10.822	65.923	0.028	10.713	0.109	65.780	0.171	10.296	0.526	600
0.111	800	41.756	77.585	18.922	77.091	0.494	18.501	0.421	76.247	1.338	17.630	1.292	800
0.067	1000	43.902	87.138	27.493	86.753	0.385	27.175	0.318	86.242	0.896	26.609	0.884	1000
0.011	1200	45.815	95.314	36.468	95.301	0.013	36.562	-0.094	95.154	0.160	36.394	0.074	1200
-0.028	1400	54.600	102.511	45.810	102.959	-0.448	46.503	-0.693	103.039	-0.528	46.628	-0.818	1400
-0.046	1600	54.600	109.802	56.730	109.873	-0.071	56.864	-0.134	110.049	-0.247	57.130	-0.400	1600
-0.041	1800	54.600	116.233	67.650	116.149	0.084	67.522	0.128	116.333	-0.100	67.801	-0.151	1800
-0.020	2000	54.600	121.986	78.570	121.867	0.119	78.377	0.193	122.011	-0.025	78.581	-0.011	2000
0.005	2200	54.600	127.190	89.490	127.093	0.097	89.344	0.146	127.182	0.008	89.432	0.058	2200
0.028	2400	54.600	131.940	100.410	131.884	0.056	100.357	0.053	131.922	0.018	100.329	0.081	2400
0.034	2600	54.600	136.311	111.330	136.289	0.022	111.365	-0.035	136.294	0.016	111.253	0.077	2600
0.013	2800	54.600	140.357	122.250	140.355	0.002	122.338	-0.088	140.348	0.009	122.193	0.057	2800
-0.047	3000	54.600	144.124	133.170	144.124	0.000	133.261	-0.091	144.124	0.000	133.139	0.031	3000
	3200	54.600	147.648	144.090	147.634	0.014	144.138	-0.048	147.656	-0.008	144.084	0.006	3200
	3400	54.600	150.958	155.010	150.923	0.035	154.990	0.020	150.972	-0.014	155.023	-0.013	3400
	3600	54.600	154.079	165.930	154.028	0.051	165.855	0.075	154.095	-0.016	165.952	-0.022	3600
	3800	54.600	157.031	176.850	156.984	0.047	176.790	0.060	157.046	-0.015	176.867	-0.017	3800
	4000	54.600	159.831	187.770	159.825	0.006	187.869	-0.099	159.841	-0.010	187.767	0.003	4000

2
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ZIRCONIUM MONOCHLORIDE

(G)

CL 1ZR 1 0 0 0 0

1269

MOL. WT.= 126.670 BLOCK= 2316 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 49.100 KEY = 458

FITS FOR NOTS RMS = 0.022783

1 17 1 40 0 0 0 0 0 0 ZIRCONIUM MONOCHLORIDE (G) 10J1269 458

1.4572801E+0+8.3738136E-1-2.1474999E-1+1.8049150E-2 400 6000 11J1269 458

5.0128173E-1+4.5038619E+1+7.0440963E+1+4.9099990E+1CLZR (G) 12J1269 458

FITS FOR EST RMS LOW = 0.028793 RMS HIGH = 0.003593

1 17 1 40 0 0 0 0 0 0 ZIRCONIUM MONOCHLORIDE (G) 10CLZR

490999+5+267011+5+995701+1+227515-3-569008+6+825749+2 4003000J126911CLZR

490999+5+266870+5+101746+2+625929-4+964096+6+825749+230006000J126912CLZR

-----NOTS-----												
-----EST-----												
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
121 -3.753	400	8.612	63.251	0.866	63.660	-0.409	1.037	-0.171	63.668	-0.417	1.040	-0.174
196 0.526	600	8.888	66.798	2.617	66.771	0.027	2.584	0.033	66.762	0.036	2.580	0.037
330 1.292	800	9.162	69.392	4.422	69.327	0.065	4.364	0.058	69.327	0.065	4.366	0.056
509 0.884	1000	9.453	71.468	6.284	71.428	0.040	6.249	0.035	71.434	0.034	6.256	0.028
694 0.074	1200	9.720	73.215	8.201	73.200	0.015	8.194	0.007	73.208	0.007	8.203	-0.002
828 -0.818	1400	9.940	74.731	10.168	74.729	0.002	10.178	-0.010	74.736	-0.005	10.186	-0.018
1030 -0.400	1600	10.110	76.070	12.174	76.073	-0.003	12.192	-0.018	76.077	-0.007	12.195	-0.021
1201 -0.151	1800	10.235	77.268	14.209	77.272	-0.004	14.227	-0.018	77.272	-0.004	14.224	-0.015
1381 -0.011	2000	10.323	78.351	16.266	78.352	-0.001	16.278	-0.012	78.350	0.001	16.270	-0.004
1532 0.058	2200	10.382	79.338	18.337	79.336	0.002	18.342	-0.005	79.332	0.006	18.331	0.006
1729 0.081	2400	10.420	80.243	20.417	80.238	0.005	20.417	0.000	80.234	0.009	20.406	0.011
1953 0.077	2600	10.443	81.078	22.504	81.072	0.006	22.499	0.005	81.070	0.008	22.493	0.011
2193 0.057	2800	10.458	81.853	24.594	81.845	0.008	24.587	0.007	81.847	0.006	24.591	0.003
2439 0.031	3000	10.466	82.575	26.686	82.567	0.008	26.678	0.008	82.575	0.000	26.701	-0.015
2684 0.006	3200	10.466	82.575	26.686	82.567	0.008	26.678	0.008	82.575	0.000	26.687	-0.001
2923 -0.013	3400	10.471	83.250	28.780	83.243	0.007	28.773	0.007	83.251	-0.001	28.781	-0.001
3152 -0.022	3600	10.474	83.885	30.874	83.879	0.006	30.870	0.004	83.885	-0.000	30.875	-0.001
3367 -0.017	3800	10.478	84.484	32.970	84.478	0.006	32.968	0.002	84.484	0.000	32.969	0.001
3567 0.003	4000	10.481	85.051	35.066	85.045	0.006	35.067	-0.001	85.050	0.001	35.065	0.001
	4200	10.486	85.588	37.162	85.584	0.004	37.166	-0.004	85.588	-0.000	37.161	0.001
	4400	10.491	86.100	39.260	86.096	0.004	39.265	-0.005	86.100	0.000	39.259	0.001
	4600	10.498	86.588	41.359	86.584	0.004	41.364	-0.005	86.588	-0.000	41.358	0.001
	4800	10.506	87.055	43.459	87.051	0.004	43.463	-0.004	87.055	-0.000	43.459	0.000
	5000	10.515	87.502	45.561	87.498	0.004	45.563	-0.002	87.502	-0.000	45.561	-0.000
	5200	10.524	87.932	47.665	87.926	0.006	47.665	0.000	87.932	0.000	47.666	-0.001
	5400	10.535	88.345	49.771	88.339	0.006	49.768	0.003	88.345	0.000	49.772	-0.001
	5600	10.546	88.743	51.879	88.736	0.007	51.875	0.004	88.743	0.000	51.880	-0.001
	5800	10.558	89.126	53.990	89.120	0.006	53.985	0.005	89.126	-0.000	53.990	-0.000
	6000	10.570	89.497	56.102	89.492	0.005	56.102	0.000	89.497	-0.000	56.102	-0.000
		10.582	89.856	58.218	89.851	0.005	58.225	-0.007	89.855	0.001	58.217	0.001

ZIRCONIUM MONOFLUORIDE

(G)

F 12R 1 0 0 0 0

669

MOL. WT.= 110.210

BLOCK= 2322

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 19.800 KEY = 459

FITS FOR NOTS RMS = 0.023218

1 9 1 40 0 0 0 0 0 0 0 ZIRCONIUM MONOFLUORIDE (G) 10J 669 459
+9.4515094E+0+9.7941052E-1-2.1469116E-1+1.8016874E-2 400 6000 11J 669 459
-5.6024169E-1+1.5554458E+1+6.7585296E+1+1.9799987E+1FZR(G) 12J 669 459

FITS FOR EST RMS LOW = 0.028987 RMS HIGH = 0.003811

1 9 1 40 0 0 0 0 0 0 0 ZIRCONIUM MONOFLUORIDE (G) 10FZR
+197999+5+271589+5+994581+1+371781-3-625248+6+801419+2 4003000J 66911FZR
+197999+5+271448+5+101917+2+200524-3+785600+6+801419+230006000J 66912FZR

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-----NOTS-----

-----EST-----

DB	T	CP	S	H	SC	DS	HC	DB	SC	DS	HC	DB
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.174	400	8.364	60.632	0.834	61.051	-0.419	1.010	-0.176	61.055	-0.423	1.011	-0.177
0.037	600	8.809	64.114	2.555	64.086	0.028	2.521	0.034	64.076	0.038	2.517	0.038
0.056	800	9.176	66.698	4.353	66.632	0.066	4.295	0.058	66.632	0.066	4.297	0.056
0.028	1000	9.528	68.784	6.224	68.743	0.041	6.189	0.035	68.750	0.034	6.197	0.027
0.002	1200	9.842	70.550	8.162	70.534	0.016	8.154	0.008	70.542	0.008	8.164	-0.002
0.018	1400	10.102	72.087	10.157	72.086	0.001	10.168	-0.011	72.092	-0.005	10.175	-0.018
0.021	1600	10.309	73.450	12.199	73.454	-0.004	12.217	-0.018	73.457	-0.007	12.220	-0.021
0.015	1800	10.467	74.674	14.278	74.677	-0.003	14.295	-0.017	74.677	-0.003	14.292	-0.014
0.004	2000	10.587	75.783	16.383	75.784	-0.001	16.396	-0.013	75.781	0.002	16.388	-0.005
0.006	2200	10.677	76.797	18.510	76.794	0.003	18.516	-0.006	76.790	0.007	18.505	0.005
0.011	2400	10.745	77.729	20.653	77.724	0.005	20.652	0.001	77.719	0.010	20.641	0.012
0.011	2600	10.798	78.591	22.807	78.584	0.007	22.802	0.005	78.582	0.009	22.796	0.011
0.003	2800	10.842	79.393	24.971	79.385	0.008	24.964	0.007	79.387	0.006	24.969	0.002
0.015	3000	10.880	80.142	27.144	80.134	0.008	27.136	0.008	80.142	0.000	27.159	-0.015
0.001	3000	10.880	80.142	27.144	80.134	0.008	27.136	0.008	80.142	0.000	27.145	-0.001
0.001	3200	10.914	80.845	29.323	80.838	0.007	29.316	0.007	80.845	-0.000	29.324	-0.001
0.001	3400	10.946	81.508	31.509	81.501	0.007	31.505	0.004	81.507	0.001	31.509	-0.000
0.001	3600	10.978	82.135	33.701	82.129	0.006	33.700	0.001	82.134	0.001	33.701	0.000
0.001	3800	11.010	82.729	35.900	82.724	0.005	35.901	-0.001	82.728	0.001	35.899	0.001
0.001	4000	11.043	83.294	38.105	83.290	0.004	38.109	-0.004	83.294	0.000	38.104	0.001
0.001	4200	11.077	83.834	40.317	83.830	0.004	40.322	-0.005	83.833	0.001	40.316	0.001
0.001	4400	11.112	84.350	42.536	84.346	0.004	42.541	-0.005	84.349	0.001	42.535	0.001
0.000	4600	11.149	84.845	44.762	84.840	0.005	44.766	-0.004	84.844	0.001	44.762	0.000
0.000	4800	11.186	85.320	46.996	85.315	0.005	46.998	-0.002	85.320	0.000	46.996	0.000
0.001	5000	11.224	85.778	49.237	85.772	0.006	49.236	0.001	85.777	0.001	49.237	-0.000
0.001	5200	11.263	86.219	51.485	86.213	0.006	51.483	0.002	86.218	0.001	51.486	-0.001
0.001	5400	11.302	86.644	53.742	86.638	0.006	53.737	0.005	86.644	0.000	53.743	-0.001
0.000	5600	11.342	87.056	56.006	87.050	0.006	56.002	0.004	87.056	0.000	56.007	-0.001
0.000	5800	11.383	87.455	58.279	87.449	0.006	58.278	0.001	87.454	0.001	58.279	0.000
0.001	6000	11.423	87.841	60.559	87.837	0.004	60.566	-0.007	87.841	0.000	60.558	0.001

C

DA

PI

1.3

1.2

PI

991

791

T

K

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

961

```
FITS FOR EST      RMS LOW =          0.000340 RMS HIGH =          0.000340
2 8 1 13 1 71 0 0 0 0 0 LITHIUM ALUMINATE (L) 20ALLIO2*
273300+6+567389+5+210034+2-120020-5-262400+4+676839+2 4003000J 96121ALLIO2*
273300+6+567389+5+210034+2-120020-5-262400+4+676839+2 4003000J 96122ALLIO2*
```

[illegible]

1

D.
P.
1
+5.
-3.

[illegible]

BERYLLIUM DICHLORIDE

(L)

BE 1CL 2

665

MOL. WT. = 79.910

BLOCK = 2335

NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -117.425 KEY = 463

FITS FOR NOTS RMS = 0.023438

1 4 2 17 0 0 0 0 0 0 0 BERYLLIUM DICHLORIDE (L) 20J 665 463
+5.8481430E+1-4.9202697E+1+2.9444015E+1-6.0233993E+0 400 2000 21J 665 463
-3.5828704E+0-1.4490708E+2+8.3259323E+1-1.1742498E+2BECL2 (L) 22J 665 463

FITS FOR EST RMS LOW = 0.043825 RMS HIGH = 0.043825

1 4 2 17 0 0 0 0 0 0 0 BERYLLIUM DICHLORIDE (L) 20BECL2*
-117424+6+758396+5+304530+2-711458-3-700720+6+802494+2 4002000J 66521BECL2*
-117424+6+758396+5+304530+2-711458-3-700720+6+802494+2 4002000J 66522BECL2*

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	16.420	23.674	1.601	23.416	0.258	1.521	0.080	22.890	0.784	1.325	0.276
500	29.020	28.432	3.766	28.717	-0.285	3.907	-0.141	28.826	-0.394	3.988	-0.222
600	29.020	33.723	6.668	33.706	0.017	6.647	0.021	33.879	-0.156	6.760	-0.092
700	29.020	38.196	9.570	38.140	0.056	9.523	0.047	38.244	-0.048	9.592	-0.022
800	29.020	42.071	12.472	42.041	0.030	12.445	0.027	42.072	-0.001	12.459	0.013
900	29.020	45.489	15.374	45.488	0.001	15.372	0.002	45.473	0.016	15.347	0.027
1000	29.020	48.547	18.276	48.562	-0.015	18.290	-0.014	48.528	0.019	18.247	0.029
1100	29.020	51.313	21.178	51.332	-0.019	21.196	-0.018	51.298	0.015	21.153	0.025
1200	29.020	53.838	24.080	53.853	-0.015	24.093	-0.013	53.831	0.007	24.064	0.016
1300	29.020	56.161	26.982	56.168	-0.007	26.985	-0.003	56.161	-0.000	26.975	0.007
1400	29.020	58.311	29.884	58.313	-0.002	29.879	0.005	58.318	-0.007	29.886	-0.002
1500	29.020	60.313	32.786	60.312	0.001	32.777	0.009	60.325	-0.012	32.795	-0.009
1600	29.020	62.186	35.688	62.186	0.000	35.680	0.008	62.200	-0.014	35.701	-0.013
1700	29.020	63.946	38.590	63.949	-0.003	38.588	0.002	63.960	-0.014	38.603	-0.013
1800	29.020	65.604	41.492	65.612	-0.008	41.498	-0.006	65.616	-0.012	41.501	-0.009
1900	29.020	67.173	44.394	67.182	-0.009	44.402	-0.008	67.181	-0.008	44.394	0.000
2000	29.020	68.662	47.296	68.664	-0.002	47.291	0.005	68.662	0.000	47.282	0.014

BERYLLIUM DIFLUORIDE (C) BE 1F 2 0 0 0 0 670
 MOL. WT. = 47.000 BLCK = 2337 NO. POINT = 15
 DATA FROM 0 TO 1300 K HFORM(KCAL/(MOLE)) = -245.400 KEY = 464
 FITS FOR NOTS RMS = 0.003377
 1 4 2 9 0 0 0 0 0 0 BERYLLIUM DIFLUORIDE (C) 30J 670 464
 -3.4273269E+1+1.1241845E+2-8.7375778E+1+2.5383773E+1 400 1300 31J 670 464
 +3.1887989E+0-2.2961512E+2-4.3230484E+1-2.4539999E+2BEF2 (C) 32J 670 464

FITS FOR EST RMS LOW = 0.010939 RMS HIGH = 0.010939
 1 4 2 9 0 0 0 0 0 0 BERYLLIUM DIFLUORIDE (C) 30BEF2\$
 -245399+6+682866+5+942362+1+934067-2+494321+6+616093+2 4001300J 67031BEF2\$
 -245399+6+682866+5+942362+1+934067-2+494321+6+616093+2 4001300J 67032BEF2\$

-----NOTS-----								-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H
400	14.943	16.749	1.392	16.728	0.021	1.395	-0.003	16.819	-0.070	1.429	-0.037
500	15.320	20.514	3.090	20.493	0.021	3.079	0.011	20.412	0.102	3.038	0.052
600	16.120	23.378	4.662	23.399	-0.021	4.673	-0.011	23.366	0.012	4.659	0.003
700	16.920	25.923	6.314	25.928	-0.005	6.314	-0.000	25.935	-0.012	6.326	-0.012
800	17.720	28.235	8.046	28.233	0.002	8.041	0.005	28.245	-0.010	8.058	-0.012
900	18.520	30.368	9.858	30.370	-0.002	9.857	0.001	30.370	-0.003	9.863	-0.005
1000	19.320	32.361	11.750	32.367	-0.006	11.753	-0.003	32.355	0.006	11.747	0.003
1100	20.120	34.240	13.722	34.245	-0.005	13.724	-0.002	34.231	0.009	13.715	0.007
1200	20.920	36.025	15.774	36.026	-0.001	15.771	0.003	36.017	0.008	15.769	0.005
1300	21.720	37.731	17.906	37.735	-0.004	17.907	-0.001	37.731	0.000	17.911	-0.005

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 20

BERYLLIUM DIFLUORIDE (L) BE 1F 2 0 0 0 0 670
 MOL. WT. = 47.000 BLOCK = 2339 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -244.275 KEY = 465
 FITS FOR NOTS RMS = 0.000689
 1 4 2 9 0 0 0 0 0 0 0 BERYLLIUM DIFLUORIDE (L) 20J 670 465
 +1.3257493E+1+7.9901161E+0-5.1515901E-1+1.0315012E-1 400 2000 21J 670 465
 -3.6624145E-1-2.4978683E+2+2.6006759E+1-2.4427499E+2BEF2 (L) 22J 670 465

FITS FOR EST RMS LOW = 0.001191 RMS HIGH = 0.001191
 1 4 2 9 0 0 0 0 0 0 0 BERYLLIUM DIFLUORIDE (L) 20BEF2*
 -244274+6+677144+5+137717+2+712302-2-423760+6+631445+2 4002000J 67021BEF2*
 -244274+6+677144+5+137717+2+712302-2-423760+6+631445+2 4002000J 67022BEF2*

DIFLU
 MOL.
 DATA 1
 FITS 1
 1 1
 .74013
 .57223

FITS 1
 1 1 1
 1753994
 1753994

H	-----NOTS-----												-----EST-----												T	C/
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	K		
37	400	14.151	18.159	1.336	18.161	-0.002	1.336	0.000	18.177	-0.018	1.342	-0.006	400	11.									400	11.		
52	500	15.669	21.488	2.830	21.485	0.003	2.828	0.002	21.485	0.003	2.828	0.002	500	14.									500	14.		
03	600	16.862	24.454	4.459	24.452	0.002	4.458	0.001	24.450	0.004	4.456	0.003	600	15.									600	15.		
12	700	17.880	27.131	6.197	27.131	0.000	6.196	0.001	27.129	0.002	6.195	0.002	700	16.									700	16.		
12	800	18.797	29.579	8.032	29.579	-0.000	8.031	0.001	29.579	0.000	8.031	0.001	800	17.									800	17.		
05	900	19.653	31.843	9.954	31.844	-0.001	9.955	-0.001	31.843	-0.000	9.955	-0.001	900	18.									900	18.		
03	1000	20.469	33.956	11.961	33.957	-0.001	11.961	-0.000	33.957	-0.001	11.961	-0.000	1000	18.									1000	18.		
07	1100	21.258	35.944	14.047	35.945	-0.001	14.048	-0.001	35.945	-0.001	14.048	-0.001	1100	18.									1100	18.		
05	1200	22.028	37.827	16.211	37.828	-0.001	16.212	-0.001	37.828	-0.001	16.212	-0.001	1200	18.									1200	18.		
05	1300	22.785	39.620	18.452	39.621	-0.001	18.453	-0.001	39.621	-0.001	18.453	-0.001	1300	19.									1300	19.		
	1400	23.532	41.336	20.768	41.337	-0.001	20.768	-0.000	41.336	-0.000	20.768	-0.000	1400	19.									1400	19.		
	1500	24.271	42.985	23.158	42.985	-0.000	23.158	-0.000	42.985	0.000	23.158	0.000	1500	19.									1500	19.		
	1600	25.005	44.575	25.622	44.575	0.000	25.622	0.000	44.574	0.001	25.621	0.001	1600	19.									1600	19.		
	1700	25.734	46.113	28.159	46.113	0.000	28.159	0.000	46.112	0.001	28.158	0.001	1700	19.									1700	19.		
	1800	26.460	47.604	30.769	47.604	0.000	30.768	0.001	47.604	0.000	30.768	0.001	1800	19.									1800	19.		
	1900	27.183	49.054	33.451	49.054	-0.000	33.451	0.000	49.054	0.000	33.451	0.000	1900	19.									1900	19.		
	2000	27.904	50.467	36.205	50.467	0.000	36.205	-0.000	50.467	0.000	36.206	-0.001	2000	19.									2000	19.		
													600	19.									600	19.		
													800	19.									800	19.		
													1000	19.									1000	19.		
													1200	19.									1200	19.		
													1400	19.									1400	19.		
													1600	19.									1600	19.		
													1800	19.									1800	19.		
													2000	19.									2000	19.		

DIFLUOROBORANE (G) B 1F 2H 1 1265
 MOL. WT. = 49.810 BLOCK = 2341 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = -175.400 KEY = 466
 FITS FOR NOTS RMS = 0.023781
 1 1 5 2 9 0 0 0 0 0 DIFLUOROBORANE (G) 10J1265 466
 .7401306E+1+1.4448823E+0-3.0467087E-1+2.1938726E-2 400 6000 11J1265 466
 .5722351E+0-1.8505848E+2+7.2542541E+1-1.7539999E+2BF2H(G) 12J1265 466

FITS FOR EST RMS LOW = 0.038451 RMS HIGH = 0.005791
 1 1 1 5 2 9 0 0 0 0 0 DIFLUOROBORANE (G) 10BF2H
 175399+6+472984+5+183057+2+477455-3-174929+7+949169+2 4003000J126511BF2H
 175399+6+472844+5+199869+2-175856-4-494643+7+949169+230006000J126512BF2H

BEI
 MC
 DATA
 FITS
 2 4
 +4.487
 -3.036
 FITS
 2 4
 -50602
 -50602

H C/H	-----NOTS-----												-----EST-----				T K
	T K	CP C/H-K	S C/H-K	H KC/H	SC C/H-K	DS C/H-K	HC KC/H	DH KC/H	SC C/H-K	DS C/H-K	HC KC/H	DH KC/H					
.006	400	11.677	61.494	1.111	62.065	-0.571	1.342	-0.231	62.161	-0.667	1.383	-0.272	400	2			
.002	600	14.134	66.726	3.708	66.651	0.075	3.642	0.066	66.642	0.084	3.634	0.073	600	3			
.003	800	15.746	71.029	6.708	70.950	0.079	6.640	0.068	70.940	0.089	6.634	0.074	800	3			
.002	1000	16.812	74.665	9.970	74.629	0.036	9.941	0.029	74.629	0.036	9.943	0.027	1000	4			
.001	1200	17.537	77.799	13.410	77.788	0.011	13.409	0.001	77.794	0.005	13.418	-0.008	1200	4			
.001	1400	18.046	80.543	16.971	80.543	0.000	16.985	-0.014	80.551	-0.008	16.995	-0.024	1400	4			
.000	1600	18.411	82.977	20.619	82.980	-0.003	20.636	-0.017	82.986	-0.009	20.643	-0.024	1600	4			
.001	1800	18.681	85.162	24.329	85.163	-0.001	24.343	-0.014	85.166	-0.004	24.345	-0.016	1800	4			
.001	2000	18.885	87.141	28.087	87.140	0.001	28.095	-0.008	87.139	0.002	28.091	-0.004	2000	4			
.000	2200	19.042	88.949	31.860	88.944	0.005	31.883	-0.003	88.941	0.008	31.873	0.007	2200	4			
.000	2400	19.165	90.611	35.701	90.605	0.006	35.699	0.002	90.600	0.011	35.687	0.014	2400	4			
.000	2600	19.263	92.149	39.544	92.141	0.008	39.539	0.005	92.139	0.010	39.531	0.013	2600	4			
.001	2800	19.342	93.580	43.405	93.571	0.009	43.398	0.007	93.573	0.007	43.402	0.003	2800	4			
.001	3000	19.407	94.917	47.280	94.908	0.009	47.274	0.006	94.917	0.000	47.298	-0.018	3000	4			
.000	400	19.407	94.917	47.280	94.908	0.009	47.274	0.006	94.917	0.000	47.284	-0.004					
.001	1200	19.461	96.171	51.167	96.163	0.008	51.162	0.005	96.170	0.001	51.168	-0.001					
	1400	19.506	97.352	55.064	97.345	0.007	55.061	0.003	97.351	0.001	55.063	0.001					
	1600	19.545	98.468	58.969	98.462	0.006	58.969	0.000	98.467	0.001	58.967	0.002					
	1800	19.577	99.526	62.881	99.520	0.006	62.883	-0.002	99.524	0.002	62.879	0.002					
	2000	19.605	100.531	66.800	100.525	0.006	66.803	-0.003	100.529	0.002	66.798	0.002					
	2200	19.629	101.488	70.723	101.483	0.005	70.728	-0.005	101.486	0.002	70.722	0.001					
	2400	19.651	102.402	74.651	102.396	0.006	74.656	-0.005	102.400	0.002	74.650	0.001					
	2600	19.669	103.275	78.583	103.270	0.005	78.587	-0.004	103.274	0.001	78.583	-0.000					
	2800	19.685	104.113	82.519	104.107	0.006	82.520	-0.001	104.112	0.001	82.519	-0.000					
	3000	19.700	104.917	86.457	104.910	0.007	86.457	0.000	104.916	0.001	86.458	-0.001					
	400	19.713	105.690	90.399	105.683	0.007	90.396	0.003	105.689	0.001	90.400	-0.001					
	600	19.724	106.434	94.342	106.427	0.007	94.338	0.004	106.433	0.001	94.343	-0.001					
	800	19.734	107.151	98.288	107.144	0.007	98.284	0.004	107.150	0.001	98.288	-0.000					
	1000	19.744	107.844	102.236	107.837	0.007	102.235	0.001	107.843	0.001	102.235	0.001					
	1200	19.752	108.513	106.185	108.508	0.005	106.191	-0.006	108.512	0.001	106.183	0.002					

665

32J 665 467

-506028+6+113891+6+421790+2+154447-2-237147+7+104436+3 4003000J 66532BE204SI\$

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HYDROGEN BROMIDE

(G) BR 1H 1

965

MOL. WT. = 80.910 BLOCK = 2357 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = -8.710 KEY = 469

FITS FOR NOTS RMS = 0.012754

1 1 1 35 0 0 0 0 0 0 0 HYDROGEN BROMIDE (G) 10J 965 469
 +7.3104839E+0+1.0248403E+0-1.9286280E-1+1.3713054E-2 400 6000 11J 965 469
 -3.3821105E-1-1.1738578E+1+5.5025650E+1-8.7099990E+0BRH(G) 12J 965 469

FITS FOR EST RMS LOW = 0.021311 RMS HIGH = 0.003066

1 1 1 35 0 0 0 0 0 0 0 HYDROGEN BROMIDE (G) 10BRH
 -870999+4+221838+5+789700+1+405492-3-455856+6+654099+2 4003000J 96511BRH
 -870999+4+221753+5+898609+1+870482-4-250937+7+654099+230006000J 96512BRH

-----NOTS-----													-----EST-----			
DH KC/M	T K	CP C/H-K	S C/H-K	H KC/M	SC C/H-K	DS C/H-K	HC KC/M	DH KC/M	SC C/H-K	DS C/H-K	HC KC/M	DH KC/M				
-0.083	400	6.984	45.514	0.710	49.779	-0.265	0.819	-0.109	49.843	-0.329	0.847	-0.137				
0.015	600	7.139	52.369	2.120	52.342	0.027	2.092	0.028	52.335	0.034	2.087	0.033				
0.028	800	7.423	54.460	3.575	54.419	0.041	3.539	0.036	54.411	0.049	3.533	0.042				
0.015	1000	7.725	56.149	5.090	56.128	0.021	5.072	0.018	56.126	0.023	5.072	0.018				
0.001	1200	7.989	57.582	6.662	57.575	0.007	6.660	0.002	57.577	0.005	6.664	-0.002				
-0.009	1400	8.205	58.830	8.282	58.830	-0.000	8.289	-0.007	58.834	-0.004	8.295	-0.013				
-0.011	1600	8.378	59.937	9.941	59.939	-0.002	9.951	-0.010	59.942	-0.005	9.955	-0.014				
-0.008	1800	8.517	60.933	11.631	60.934	-0.001	11.639	-0.008	60.934	-0.001	11.641	-0.010				
-0.003	2000	8.630	61.836	13.346	61.836	0.000	13.352	-0.006	61.834	0.002	13.349	-0.003				
0.002	2200	8.724	62.663	15.082	62.661	0.002	15.084	-0.002	62.658	0.005	15.078	0.004				
0.007	2400	8.803	63.426	16.835	63.422	0.004	16.834	0.001	63.419	0.007	16.827	0.008				
0.007	2600	8.870	64.133	18.602	64.129	0.004	18.599	0.003	64.126	0.007	18.594	0.008				
0.001	2800	8.929	64.792	20.382	64.788	0.004	20.378	0.004	64.788	0.004	20.380	0.002				
-0.009	3000	8.980	65.410	22.173	65.406	0.004	22.169	0.004	65.410	0.000	22.184	-0.011				
0.000	3000	8.980	65.410	22.173	65.406	0.004	22.169	0.004	65.410	0.000	22.175	-0.002				
-0.001	3200	9.027	65.991	23.974	65.987	0.004	23.971	0.003	65.990	0.001	23.974	-0.000				
-0.000	3400	9.069	66.540	25.783	66.536	0.004	25.781	0.002	66.539	0.001	25.783	0.000				
-0.000	3600	9.107	67.059	27.601	67.056	0.003	27.600	0.001	67.058	0.001	27.600	0.001				
0.000	3800	9.143	67.553	29.426	67.550	0.003	29.427	-0.001	67.551	0.002	29.425	0.001				
0.001	4000	9.176	68.023	31.258	68.020	0.003	31.260	-0.002	68.021	0.002	31.257	0.001				
0.001	4200	9.208	68.471	33.096	68.468	0.003	33.099	-0.003	68.470	0.001	33.096	0.000				
0.001	4400	9.238	68.900	34.941	68.897	0.003	34.944	-0.003	68.899	0.001	34.941	0.000				
0.000	4600	9.266	69.311	36.791	69.309	0.002	36.793	-0.002	69.310	0.001	36.791	-0.000				
-0.000	4800	9.294	69.706	38.647	69.703	0.003	38.648	-0.001	69.705	0.001	38.648	-0.001				
0.000	5000	9.320	70.086	40.509	70.083	0.003	40.509	0.000	70.085	0.001	40.509	-0.000				
-0.001	5200	9.346	70.452	42.375	70.449	0.003	42.374	0.001	70.451	0.001	42.376	-0.001				
-0.001	5400	9.371	70.805	44.247	70.802	0.003	44.245	0.002	70.804	0.001	44.248	-0.001				
-0.001	5600	9.395	71.147	46.124	71.143	0.004	46.122	0.002	71.146	0.001	46.124	-0.000				
-0.000	5800	9.419	71.477	48.005	71.473	0.004	48.005	0.000	71.476	0.001	48.005	-0.000				
0.001	6000	9.442	71.796	49.891	71.794	0.002	49.895	-0.004	71.795	0.001	49.891	0.000				

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BROMINE, DIATOMIC

(G)

BR 2

1261

MOL. WT. = 159.810

BLOCK = 2362

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 7.387 KEY = 475

FITS FOR NOTS RMS = 0.001655

2 35 0 0 0 0 0 0 0 0 BROMINE, DIATOMIC

(G) 10J1261 475

4.9514455E+0+9.9583327E-2+3.0944799E-4+2.1519110E-5 400 6000

11J1261 475

3.9245605E-2+4.5880031E+0+6.9248596E+1+7.3869991E+0BR2(G)

12J1261 475

FITS FOR EST RMS LOW = 0.000483 RMS HIGH = 0.003085

2 35 0 0 0 0 0 0 0 0 BROMINE, DIATOMIC

(G) 10BR2

738699+4+245192+5+854250+1+103566-3-355520+5+793849+2 4003000J126111BR2

738699+4+245214+5+900997+1+936482-4-471600+6+793849+230006000J126112BR2

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
75 -0.002	400	8.775	61.204	0.887	61.209	-0.005	0.888	-0.001	61.207	-0.003	0.888	-0.001	
44 -0.000	600	8.908	64.791	2.657	64.790	0.001	2.655	0.002	64.791	-0.000	2.657	-0.000	
32 0.001	800	8.970	67.363	4.445	67.362	0.001	4.443	0.002	67.363	-0.000	4.445	-0.000	
31 0.000	1000	9.011	69.369	6.244	69.368	0.001	6.242	0.002	69.369	-0.000	6.244	0.000	
36 -0.000	1200	9.042	71.015	8.049	71.014	0.001	8.047	0.002	71.015	0.000	8.049	0.000	
47 -0.000	1400	9.069	72.411	9.860	72.410	0.001	9.859	0.001	72.411	0.000	9.860	-0.000	
64 0.000	1600	9.094	73.624	11.677	73.623	0.001	11.676	0.001	73.624	0.000	11.677	0.000	
85 0.000	1800	9.118	74.696	13.498	74.696	0.000	13.497	0.001	74.696	-0.000	13.498	0.000	
11 0.000	2000	9.141	75.658	15.324	75.658	-0.000	15.324	0.000	75.658	0.000	15.324	0.000	
41 -0.000	2200	9.163	76.530	17.154	76.530	-0.000	17.154	-0.000	76.530	-0.000	17.154	-0.000	
76 0.000	2400	9.185	77.329	18.989	77.329	0.000	18.989	-0.000	77.328	0.001	18.989	0.000	
15 -0.000	2600	9.206	78.065	20.828	78.065	0.000	20.828	-0.000	78.065	0.000	20.828	-0.000	
59 0.000	2800	9.228	78.748	22.672	78.748	0.000	22.672	0.000	78.748	0.000	22.671	0.001	
06 -0.000	3000	9.249	79.385	24.519	79.385	-0.000	24.520	-0.001	79.385	0.000	24.519	-0.000	
08 -0.002	3200	9.249	79.385	24.519	79.385	-0.000	24.520	-0.001	79.385	0.000	24.521	-0.002	
59 -0.001	3400	9.270	79.983	26.371	79.983	0.000	26.372	-0.001	79.982	0.001	26.372	-0.001	
14 0.000	3600	9.291	80.545	28.227	80.545	-0.000	28.228	-0.001	80.544	0.001	28.227	0.000	
74 0.001	3800	9.312	81.077	30.088	81.077	-0.000	30.088	-0.000	81.076	0.001	30.087	0.001	
38 0.001	4000	9.333	81.581	31.952	81.581	-0.000	31.953	-0.001	81.580	0.001	31.951	0.001	
07 0.001	4200	9.354	82.060	33.821	82.060	-0.000	33.821	-0.000	82.059	0.001	33.820	0.001	
80 0.001	4400	9.375	82.517	35.694	82.517	-0.000	35.694	-0.000	82.516	0.001	35.693	0.001	
57 0.001	4600	9.396	82.954	37.571	82.954	0.000	37.571	-0.000	82.953	0.001	37.571	0.000	
39 0.000	4800	9.417	83.372	39.452	83.372	0.000	39.452	-0.000	83.371	0.001	39.452	-0.000	
25 0.000	5000	9.438	83.773	41.338	83.773	-0.000	41.338	0.000	83.772	0.001	41.338	0.000	
14 -0.000	5200	9.458	84.159	43.227	84.159	0.000	43.227	-0.000	84.158	0.001	43.228	-0.001	
08 -0.000	5400	9.479	84.530	45.121	84.530	-0.000	45.121	0.000	84.529	0.001	45.122	-0.001	
06 -0.000	5600	9.500	84.888	47.019	84.888	-0.000	47.019	0.000	84.888	0.000	47.020	-0.001	
08 -0.000	5800	9.521	85.234	48.921	85.234	-0.000	48.921	0.000	85.233	0.001	48.921	-0.000	
14 -0.000	6000	9.542	85.569	50.827	85.569	0.000	50.827	-0.000	85.568	0.001	50.827	-0.000	
24 0.001	6200	9.562	85.892	52.738	85.893	-0.001	52.738	0.000	85.892	0.000	52.737	0.001	

LITHIUM BROMIDE, DIMERIC (G) BR 2LI 2 0 0 0 0 666
 MOL. WT.= 173.690 BLOCK= 2388 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -119.700 KEY = 476
 FITS FOR NOTS RMS = 0.002941
 2 35 2 71 0 0 0 0 0 0 0 LITHIUM BROMIDE, DIMERIC (G) 10J 666 476
 +1.9884857E+1-5.0682164E-3+3.4686410E-5+8.6076441E-5 400 6000 11J 666 476
 -1.9807434E-1-1.2627198E+2+9.8164199E+1-1.1969999E+2BR2LI2(G) 12J 666 476

FITS FOR EST RMS LOW = 0.000575 RMS HIGH = 0.005937
 2 35 2 71 0 0 0 0 0 0 0 LITHIUM BROMIDE, DIMERIC (G) 10BR2LI2
 -119699+6+531268+5+198682+2+116269-5-190352+6+120005+3 4003000J 66611BR2LI2
 -119699+6+531314+5+200143+2-207933-4-111846+7+120005+330006000J 66612BR2LI2

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.001	400	18.735	80.545	1.873	80.561	-0.016	1.877	-0.004	80.555	-0.010	1.877	-0.004	
-0.000	600	19.346	88.281	5.692	88.279	0.002	5.688	0.004	88.280	0.001	5.692	0.000	
-0.000	800	19.571	93.881	9.587	93.878	0.003	9.582	0.005	93.881	0.000	9.586	0.001	
0.000	1000	19.678	98.261	13.513	98.258	0.003	13.508	0.005	98.261	0.000	13.513	0.000	
0.000	1200	19.737	101.855	17.455	101.852	0.003	17.451	0.004	101.854	0.001	17.455	0.000	
-0.000	1400	19.772	104.900	21.406	104.898	0.002	21.403	0.003	104.900	0.000	21.406	-0.000	
0.000	1600	19.796	107.542	25.363	107.541	0.001	25.361	0.002	107.542	0.000	25.363	-0.000	
0.000	1800	19.811	109.875	29.324	109.874	0.001	29.323	0.001	109.874	0.001	29.324	0.000	
0.000	2000	19.823	111.962	33.288	111.962	-0.000	33.287	0.001	111.962	-0.000	33.287	0.001	
-0.000	2200	19.831	113.852	37.253	113.852	-0.000	37.253	-0.000	113.852	0.000	37.253	0.000	
0.000	2400	19.838	115.578	41.220	115.578	-0.000	41.220	-0.000	115.578	0.000	41.220	0.000	
-0.000	2600	19.843	117.166	45.188	117.166	-0.000	45.189	-0.001	117.166	0.000	45.188	-0.000	
0.001	2800	19.847	118.637	49.157	118.637	-0.000	49.158	-0.001	118.637	0.000	49.157	-0.000	
-0.000	3000	19.850	120.006	53.127	120.007	-0.001	53.128	-0.001	120.006	0.000	53.127	0.000	
-0.002	3000	19.850	120.006	53.127	120.007	-0.001	53.128	-0.001	120.006	0.000	53.131	-0.004	
-0.001	3200	19.853	121.287	57.097	121.288	-0.001	57.098	-0.001	121.286	0.001	57.098	-0.001	
0.000	3400	19.855	122.491	61.068	122.491	-0.000	61.069	-0.001	122.489	0.002	61.067	0.001	
0.001	3600	19.857	123.626	65.039	123.626	-0.000	65.040	-0.001	123.624	0.002	65.037	0.002	
0.001	3800	19.858	124.700	69.010	124.700	0.000	69.011	-0.001	124.697	0.003	69.008	0.002	
0.001	4000	19.859	125.718	72.982	125.718	-0.000	72.983	-0.001	125.716	0.002	72.980	0.002	
0.001	4200	19.861	126.687	76.954	126.687	-0.000	76.954	-0.000	126.685	0.002	76.952	0.002	
0.000	4400	19.862	127.611	80.926	127.611	-0.000	80.926	-0.000	127.609	0.002	80.925	0.001	
-0.000	4600	19.862	128.494	84.899	128.494	-0.000	84.898	0.001	128.492	0.002	84.898	0.001	
0.000	4800	19.863	129.339	88.871	129.339	-0.000	88.871	0.000	129.337	0.002	88.871	-0.000	
-0.001	5000	19.864	130.150	92.844	130.150	-0.000	92.843	0.001	130.148	0.002	92.845	-0.001	
-0.001	5200	19.864	130.929	96.817	130.929	-0.000	96.816	0.001	130.928	0.001	96.818	-0.001	
-0.001	5400	19.865	131.679	100.790	131.679	-0.000	100.789	0.001	131.677	0.002	100.790	-0.000	
-0.000	5600	19.865	132.401	104.763	132.401	-0.000	104.762	0.001	132.400	0.001	104.763	0.000	
-0.000	5800	19.866	133.099	108.736	133.099	0.000	108.736	0.000	133.097	0.002	108.735	0.001	
0.001	6000	19.866	133.772	112.709	133.772	-0.000	112.709	-0.000	133.770	0.002	112.707	0.002	

BORON OXYDIFLUORIDE (G) B 1F 20 1 0 0 0 1266
 MOL. WT.= 64.800 BLCK= 2394 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -200.000 KEY = 477
 FITS FOR NOTS RMS = 0.015187
 1 5 1 8 2 9 0 0 0 0 BORON OXYDIFLUORIDE (G) 10J1266 477
 1.9735900E+1-3.8567304E-2+2.2165317E-2+1.7430474E-3 400 6000 11J1266 477
 1.2883911E+0-2.0965191E+2+8.2207046E+1-2.0000000E+2BF20 (G) 12J1266 477

FITS FOR EST RMS LOW = 0.012243 RMS HIGH = 0.006219
 1 5 1 8 2 9 0 0 0 0 BORON OXYDIFLUORIDE (G) 10BF20
 200000+6+500540+5+194504+2+141698-3-118441+7+103964+3 4003000J126611BF20
 200000+6+500540+5+183844+2+359916-3+223692+7+103964+330006000J126612BF20

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H

C/M

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
.004	400	13.900	67.792	1.323	68.136	-0.344	1.461	-0.138	68.041	-0.249	1.423	-0.100	400
.000	600	16.330	73.939	4.371	73.896	0.043	4.332	0.039	73.900	0.039	4.340	0.031	500
.001	800	17.618	78.832	7.779	78.786	0.046	7.739	0.040	78.804	0.028	7.757	0.022	600
.000	1000	18.337	82.848	11.381	82.824	0.024	11.361	0.020	82.840	0.008	11.376	0.005	700
.000	1200	18.767	86.232	15.095	86.223	0.009	15.091	0.004	86.233	-0.001	15.100	-0.005	800
.000	1400	19.042	89.148	18.878	89.146	0.002	18.883	-0.005	89.151	-0.003	18.886	-0.008	900
.000	1600	19.227	91.703	22.706	91.704	-0.001	22.714	-0.008	91.705	-0.002	22.713	-0.007	1000
.001	1800	19.358	93.976	26.565	93.976	-0.000	26.574	-0.009	93.976	-0.000	26.569	-0.004	
.000	2000	19.453	96.020	30.447	96.020	0.000	30.453	-0.006	96.019	0.001	30.447	0.000	
.000	2200	19.527	97.878	34.345	97.876	0.002	34.348	-0.003	97.876	0.002	34.343	0.002	
.000	2400	19.585	99.580	38.257	99.576	0.004	38.257	0.000	99.577	0.003	38.253	0.004	
.000	2600	19.635	101.149	42.179	101.145	0.004	42.176	0.003	101.147	0.002	42.176	0.003	
.000	2800	19.680	102.606	46.110	102.601	0.005	46.106	0.003	102.604	0.002	46.110	0.000	
.004	3000	19.723	103.965	50.050	103.960	0.005	50.046	0.004	103.965	0.000	50.054	-0.004	
.001	3200	19.723	103.965	50.050	103.960	0.005	50.046	0.004	103.965	0.000	50.054	-0.004	
.001	3400	19.766	105.240	53.999	105.235	0.005	53.996	0.003	105.239	0.001	54.001	-0.002	
.002	3600	19.810	106.439	57.957	106.435	0.004	57.955	0.002	106.438	0.001	57.956	0.001	
.002	3800	19.858	107.573	61.924	107.569	0.004	61.923	0.001	107.571	0.002	61.922	0.002	
.002	4000	19.908	108.648	65.900	108.644	0.004	65.901	-0.001	108.646	0.002	65.898	0.002	
.002	4200	19.962	109.670	69.887	109.667	0.003	69.890	-0.003	109.668	0.002	69.885	0.002	
.001	4400	20.019	110.646	73.885	110.643	0.003	73.888	-0.003	110.644	0.002	73.883	0.002	
.001	4600	20.079	111.578	77.895	111.575	0.003	77.898	-0.003	111.576	0.002	77.894	0.001	
.000	4800	20.142	112.472	81.917	112.469	0.003	81.919	-0.002	112.471	0.001	81.917	0.000	
.001	5000	20.206	113.331	85.952	113.327	0.004	85.953	-0.001	113.329	0.002	85.952	-0.000	
.001	5200	20.273	114.157	89.999	114.153	0.004	89.999	-0.000	114.156	0.001	90.000	-0.001	
.000	5400	20.340	114.953	94.061	114.949	0.004	94.059	0.002	114.952	0.001	94.062	-0.001	
.000	5600	20.407	115.722	98.135	115.718	0.004	98.132	0.003	115.721	0.001	98.136	-0.001	
.001	5800	20.475	116.466	102.224	116.462	0.004	102.220	0.004	116.464	0.002	102.224	0.000	
.001	6000	20.541	117.185	106.325	117.182	0.003	106.324	0.001	117.184	0.001	106.325	0.000	
.002	6200	20.606	117.883	110.440	117.880	0.003	110.445	-0.005	117.881	0.002	110.439	0.001	

HYDROGEN IODIDE

(G) H 1I 1

961

MOL. WT. = 127.910 BLCCK = 2409 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 6.300 KEY = 481

FITS FOR NOTS RMS = 0.011045

1 1 1 53 0 0 0 0 0 0 0 HYDROGEN IODIDE (G) 10J 961 481
 +7.7180786E+0+8.1580913E-1-1.4985811E-1+1.0770313E-2 400 6000 11J 961 481
 -3.9010620E-1+2.9888572E+0+5.7192306E+1+6.2999992E+0HI (G) 12J 961 481

FITS FOR EST RMS LOW = 0.018081 RMS HIGH = 0.002927

1 1 1 53 0 0 0 0 0 0 0 HYDROGEN IODIDE (G) 10HI
 +629999+4+225254+5+816561+1+338668-3-478208+6+675669+2 4003000J 96111HI
 +629999+4+225190+5+899694+1+946843-4-207035+7+675669+230006000J 96112HI

-----NOTS-----														-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	SC	DS	HC	DH	SC
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K
25 -0.099	400	7.010	51.403	0.711	51.654	-0.251	0.813	-0.102	51.701	-0.298	0.834	-0.123	51.701	-0.298	0.834	-0.123	51.701
14 0.028	600	7.253	54.285	2.134	54.255	0.030	2.106	0.028	54.250	0.035	2.103	0.031	54.250	0.035	2.103	0.031	54.250
15 0.026	800	7.600	56.419	3.620	56.381	0.038	3.588	0.032	56.376	0.043	3.584	0.036	56.376	0.043	3.584	0.036	56.376
19 0.010	1000	7.920	58.150	5.172	58.132	0.018	5.158	0.014	58.131	0.019	5.158	0.014	58.131	0.019	5.158	0.014	58.131
79 -0.003	1200	8.177	59.617	6.783	59.612	0.005	6.782	0.001	59.615	0.002	6.786	-0.003	59.615	0.002	6.786	-0.003	59.615
13 -0.009	1400	8.376	60.894	8.439	60.894	0.000	8.446	-0.007	60.897	-0.003	8.451	-0.012	60.897	-0.003	8.451	-0.012	60.897
10 -0.008	1600	8.531	62.023	10.131	62.024	-0.001	10.139	-0.008	62.027	-0.004	10.143	-0.012	62.027	-0.004	10.143	-0.012	62.027
16 -0.006	1800	8.654	63.035	11.850	63.036	-0.001	11.857	-0.007	63.037	-0.002	11.858	-0.008	63.037	-0.002	11.858	-0.008	63.037
15 -0.001	2000	8.753	63.952	13.591	63.951	0.001	13.595	-0.004	63.951	0.001	13.593	-0.002	63.951	0.001	13.593	-0.002	63.951
36 0.003	2200	8.835	64.790	15.350	64.788	0.002	15.351	-0.001	64.786	0.004	15.347	0.003	64.786	0.004	15.347	0.003	64.786
18 0.005	2400	8.904	65.562	17.124	65.559	0.003	17.123	0.001	65.557	0.005	17.117	0.007	65.557	0.005	17.117	0.007	65.557
10 0.004	2600	8.963	66.277	18.911	66.274	0.003	18.908	0.003	66.272	0.005	18.904	0.007	66.272	0.005	18.904	0.007	66.272
10 0.001	2800	9.016	66.943	20.709	66.939	0.004	20.706	0.003	66.940	0.003	20.707	0.002	66.940	0.003	20.707	0.002	66.940
18 -0.006	3000	9.062	67.567	22.517	67.563	0.004	22.514	0.003	67.567	0.000	22.525	-0.008	67.567	0.000	22.525	-0.008	67.567
15 -0.003	3000	9.062	67.567	22.517	67.563	0.004	22.514	0.003	67.567	0.000	22.519	-0.002	67.567	0.000	22.519	-0.002	67.567
18 -0.001	3200	9.105	68.153	24.333	68.150	0.003	24.331	0.002	68.153	0.000	24.334	-0.001	68.153	0.000	24.334	-0.001	68.153
24 0.001	3400	9.143	68.706	26.158	68.703	0.003	26.157	0.001	68.705	0.001	26.158	0.000	68.705	0.001	26.158	0.000	68.705
34 0.002	3600	9.180	69.230	27.991	69.227	0.003	27.990	0.001	69.229	0.001	27.990	0.001	69.229	0.001	27.990	0.001	69.229
17 0.002	3800	9.213	69.727	29.830	69.725	0.002	29.831	-0.001	69.726	0.001	29.829	0.001	69.726	0.001	29.829	0.001	69.726
12 0.001	4000	9.245	70.201	31.676	70.198	0.003	31.677	-0.001	70.200	0.001	31.675	0.001	70.200	0.001	31.675	0.001	70.200
79 0.001	4200	9.276	70.652	33.528	70.650	0.002	33.530	-0.002	70.651	0.001	33.527	0.001	70.651	0.001	33.527	0.001	70.651
17 0.001	4400	9.305	71.085	35.386	71.082	0.003	35.388	-0.002	71.084	0.001	35.386	0.000	71.084	0.001	35.386	0.000	71.084
17 0.000	4600	9.333	71.499	37.250	71.496	0.003	37.251	-0.001	71.498	0.001	37.250	0.000	71.498	0.001	37.250	0.000	71.498
37 -0.000	4800	9.360	71.897	39.119	71.894	0.003	39.120	-0.001	71.896	0.001	39.119	-0.000	71.896	0.001	39.119	-0.000	71.896
18 -0.000	5000	9.387	72.279	40.994	72.276	0.003	40.994	0.000	72.279	0.000	40.994	-0.000	72.279	0.000	40.994	-0.000	72.279
30 -0.001	5200	9.413	72.648	42.874	72.645	0.003	42.873	0.001	72.647	0.001	42.874	-0.000	72.647	0.001	42.874	-0.000	72.647
13 -0.001	5400	9.438	73.004	44.759	73.000	0.004	44.757	0.002	73.003	0.001	44.759	-0.000	73.003	0.001	44.759	-0.000	73.003
76 -0.000	5600	9.463	73.347	46.649	73.344	0.003	46.647	0.002	73.347	0.000	46.649	-0.000	73.347	0.000	46.649	-0.000	73.347
19 0.001	5800	9.487	73.680	48.544	73.677	0.003	48.544	0.000	73.679	0.001	48.544	0.000	73.679	0.001	48.544	0.000	73.679
23 0.001	6000	9.511	74.002	50.444	74.000	0.002	50.447	-0.003	74.001	0.001	50.443	0.001	74.001	0.001	50.443	0.001	74.001

IODINE, MONATOMIC (G) I 1 1261
 MOL. WT.= 126.900 BLOCK= 2415 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 25.537 KEY = 482
 FITS FOR NOTS RMS = 0.008193
 53 0 0 0 0 0 0 0 0 0 IODINE, MONATOMIC (G) 10J1261 482
 .2691793E+0+5.2021551E-1-6.6931605E-2+1.9686622E-3 400 6000 11J1261 482
 1.9583129E-1+2.4722885E+1+4.8819778E+1+2.5536987E+1I (G) 12J1261 482

FITS FOR EST RMS LOW = 0.003438 RMS HIGH = 0.002473
 1 53 0 0 0 0 0 0 0 0 0 IODINE, MONATOMIC (G) 10I
 .55369+5+137025+5+464136+1+218221-3+860890+5+547729+2 4003000J126111I
 .55369+5+137056+5+598937+1-737348-4-435329+7+547729+230006000J126112I

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DH

KC/M

0.123

0.031

0.036

0.014

0.003

0.012

0.012

0.008

0.002

0.003

0.007

0.007

0.002

0.008

0.002

0.001

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0.000

0.000

0.001

0.001

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	4.968	44.644	0.506	44.499	0.145	0.444	0.062	44.589	0.055	0.484	0.022	400
600	4.968	46.658	1.500	46.667	-0.009	1.510	-0.010	46.664	-0.006	1.506	-0.006	500
800	4.968	48.087	2.493	48.109	-0.022	2.512	-0.019	48.096	-0.009	2.500	-0.007	600
1000	4.970	49.196	3.487	49.209	-0.013	3.498	-0.011	49.199	-0.003	3.490	-0.003	700
1200	4.977	50.103	4.482	50.107	-0.004	4.483	-0.001	50.102	0.001	4.480	0.002	800
1400	4.993	50.871	5.479	50.871	0.000	5.473	0.006	50.869	0.002	5.475	0.004	900
1600	5.018	51.539	6.479	51.537	0.002	6.472	0.007	51.538	0.001	6.477	0.002	1000
1800	5.052	52.132	7.486	52.131	0.001	7.479	0.007	52.132	0.000	7.485	0.001	1100
2000	5.093	52.667	8.501	52.666	0.001	8.496	0.005	52.667	0.000	8.501	-0.000	1200
2200	5.137	53.154	9.524	53.155	-0.001	9.522	0.002	53.155	-0.001	9.525	-0.001	1300
2400	5.182	53.603	10.556	53.605	-0.002	10.556	-0.000	53.604	-0.001	10.557	-0.001	1400
2600	5.226	54.020	11.597	54.022	-0.002	11.599	-0.002	54.020	0.000	11.597	-0.000	1500
2800	5.267	54.408	12.646	54.412	-0.004	12.649	-0.003	54.408	-0.000	12.646	0.000	1600
3000	5.304	54.773	13.703	54.776	-0.003	13.707	-0.004	54.773	0.000	13.703	0.000	1700
3200	5.304	54.773	13.703	54.776	-0.003	13.707	-0.004	54.773	0.000	13.706	-0.003	1800
3400	5.336	55.116	14.767	55.119	-0.003	14.770	-0.003	55.115	0.001	14.767	-0.000	1900
3600	5.364	55.441	15.837	55.443	-0.002	15.839	-0.002	55.440	0.001	15.836	0.001	2000
3800	5.387	55.748	16.912	55.750	-0.002	16.913	-0.001	55.747	0.001	16.911	0.001	2100
4000	5.406	56.040	17.992	56.042	-0.002	17.992	0.000	56.039	0.001	17.991	0.001	2200
4200	5.421	56.318	19.075	56.319	-0.001	19.073	0.002	56.316	0.002	19.074	0.001	2300
4400	5.432	56.582	20.160	56.584	-0.002	20.158	0.002	56.581	0.001	20.160	0.000	2400
4600	5.439	56.835	21.247	56.837	-0.002	21.245	0.002	56.834	0.001	21.247	-0.000	2500
4800	5.444	57.077	22.335	57.079	-0.002	22.334	0.001	57.076	0.001	22.336	-0.001	
5000	5.446	57.309	23.425	57.311	-0.002	23.424	0.001	57.308	0.001	23.425	0.000	
5200	5.447	57.531	24.514	57.533	-0.002	24.514	-0.000	57.530	0.001	24.514	-0.000	
5400	5.445	57.745	25.603	57.747	-0.002	25.604	-0.001	57.744	0.001	25.603	-0.000	
5600	5.442	57.950	26.692	57.953	-0.003	26.693	-0.001	57.949	0.001	26.692	0.000	
5800	5.438	58.148	27.780	58.150	-0.002	27.781	-0.001	58.147	0.001	27.780	0.000	
6000	5.433	58.339	28.867	58.341	-0.002	28.867	-0.000	58.338	0.001	28.867	0.000	
6200	5.428	58.523	29.953	58.525	-0.002	29.951	0.002	58.522	0.001	29.953	0.000	

666

I

DA

FI

1.5
+ 1.5
+ 3.3

FI

1 5
- 6 17
- 6 17

-----EST-----

[illegible]

LITHIUM IODIDE (L) I 1LI 1 0 0 0 0 666
 MOL. WT.= 133.840 BLOCK= 2424 NO. POINT = 24
 DATA FROM 298 TO 2500 K HFORM(KCAL/(MOLE)) = -61.749 KEY = 484
 FITS FOR NOTS RMS = 0.000831
 1 53 1 71 0 0 0 0 0 0 0 LITHIUM IODIDE (L) 20J 666 484
 +1.5037964E+1+1.3644492E-1-9.4830334E-2+2.0583495E-2 400 2500 21J 666 484
 +3.3874511E-3-6.6227645E+1+4.1746887E+1-6.1748992E+1ILI(L) 22J 666 484

FITS FOR EST RMS LOW = 0.000141 RMS HIGH = 0.000141
 1 53 1 71 0 0 0 0 0 0 0 LITHIUM IODIDE (L) 20ILI*
 -617489+5+407976+5+151025+2-110196-5-140800+4+584299+2 4002500J 66621ILI*
 -617489+5+407976+5+151025+2-110196-5-140800+4+584299+2 4002500J 66622ILI*

-----NOTS-----													-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
KC/H	K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H				
-0.242	400	15.100	28.005	1.538	28.005	0.000	1.537	0.001	28.007	-0.002	1.539	-0.001				
0.067	500	15.100	31.375	3.048	31.374	0.001	3.047	0.001	31.375	-0.000	3.048	-0.000				
0.126	600	15.100	34.128	4.558	34.127	0.001	4.557	0.001	34.128	0.000	4.558	-0.000				
0.086	700	15.100	36.456	6.068	36.454	0.002	6.067	0.001	36.455	0.001	6.068	0.000				
0.027	800	15.100	38.472	7.578	38.471	0.001	7.577	0.001	38.471	0.001	7.578	0.000				
-0.012	900	15.100	40.250	9.088	40.250	0.000	9.087	0.001	40.250	0.000	9.088	0.000				
-0.028	1000	15.100	41.841	10.598	41.841	-0.000	10.598	0.000	41.841	0.000	10.598	0.000				
-0.032	1100	15.100	43.281	12.108	43.281	0.000	12.108	-0.000	43.280	0.001	12.108	0.000				
-0.029	1200	15.100	44.594	13.618	44.595	-0.001	13.618	-0.000	44.594	0.000	13.618	0.000				
-0.021	1300	15.100	45.803	15.128	45.804	-0.001	15.129	-0.001	45.803	0.000	15.128	0.000				
-0.012	1400	15.100	46.922	16.638	46.923	-0.001	16.639	-0.001	46.922	0.000	16.638	0.000				
-0.000	1500	15.100	47.964	18.148	47.965	-0.001	18.149	-0.001	47.963	0.001	18.148	0.000				
0.008	1600	15.100	48.938	19.658	48.939	-0.001	19.659	-0.001	48.938	0.000	19.658	0.000				
0.011	1700	15.100	49.854	21.168	49.854	-0.001	21.169	-0.001	49.853	0.001	21.168	0.000				
0.010	1800	15.100	50.717	22.678	50.717	-0.000	22.678	-0.000	50.717	0.000	22.678	0.000				
0.008	1900	15.100	51.533	24.188	51.534	-0.001	24.188	-0.000	51.533	0.000	24.188	-0.000				
0.005	2000	15.100	52.308	25.698	52.308	-0.000	25.698	0.000	52.308	0.000	25.698	-0.000				
0.002	2100	15.100	53.045	27.208	53.045	0.000	27.208	0.000	53.044	0.001	27.208	-0.000				
-0.001	2200	15.100	53.747	28.718	53.747	-0.000	28.717	0.001	53.747	0.000	28.718	-0.000				
-0.003	2300	15.100	54.418	30.228	54.418	-0.000	30.227	0.001	54.418	0.000	30.228	0.000				
-0.003	2400	15.100	55.061	31.738	55.061	-0.000	31.738	0.000	55.061	0.000	31.738	0.000				
-0.002	2500	15.100	55.677	33.248	55.678	-0.001	33.248	-0.000	55.677	0.000	33.248	0.000				

LITHIUM IODIDE (G) I 1LI 1 0 0 0 0 666
 MOL. WT. = 133.840 BLOCK = 2426 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -21.750 KEY = 485
 FITS FOR NOTS RMS = 0.001717
 1 53 1 71 0 0 0 0 0 0 LITHIUM IODIDE (G) 10J 666 485
 +8.9398221E+0+1.7253339E-1-1.2669609E-3+1.3449444E-4 400 6000 11J 666 485
 -8.0444335E-2-2.4681259E+1+6.5829696E+1-2.1750000E+1LI(G) 12J 666 485

FITS FOR EST RMS LOW = 0.000520 RMS HIGH = 0.003224
 1 53 1 71 0 0 0 0 0 0 LITHIUM IODIDE (G) 10LI
 -217500+5+246822+5+893858+1+170248-3-790560+5+761679+2 4003000J 66611LI
 -217500+5+246844+5+900863+1+159434-3-507712+6+761679+230006000J 66612LI

---				-----NOTS-----								-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	SC	DS	HC
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M
-0.001	400	8.556	57.951	0.858	57.959	-0.008	0.860	-0.002	57.958	-0.007	0.861	-0.003			
-0.000	600	8.824	61.480	2.600	61.478	0.002	2.598	0.002	61.479	0.001	2.600	0.000			
-0.000	800	8.950	64.037	4.379	64.035	0.002	4.376	0.003	64.036	0.001	4.378	0.001			
0.000	1000	9.029	66.043	6.177	66.042	0.001	6.175	0.002	66.043	0.000	6.177	0.000			
0.000	1200	9.087	67.695	7.989	67.694	0.001	7.987	0.002	67.694	0.001	7.989	0.000			
0.000	1400	9.136	69.099	9.811	69.099	0.000	9.810	0.001	69.099	0.000	9.811	-0.000			
0.000	1600	9.180	70.322	11.643	70.322	0.000	11.642	0.001	70.322	0.000	11.643	-0.000			
0.000	1800	9.221	71.406	13.483	71.406	0.000	13.482	0.001	71.405	0.001	13.483	-0.000			
0.000	2000	9.260	72.379	15.331	72.379	-0.000	15.331	0.000	72.379	0.000	15.331	-0.000			
0.000	2200	9.297	73.264	17.187	73.264	0.000	17.187	0.000	73.263	0.001	17.187	0.000			
0.000	2400	9.334	74.074	19.050	74.074	-0.000	19.050	0.000	74.074	0.000	19.050	0.000			
0.000	2600	9.370	74.823	20.920	74.823	0.000	20.920	-0.000	74.822	0.001	20.920	-0.000			
0.000	2800	9.405	75.518	22.798	75.519	-0.001	22.798	-0.000	75.518	0.000	22.798	0.000			
0.000	3000	9.440	76.168	24.682	76.169	-0.001	24.683	-0.001	76.168	0.000	24.682	-0.000			
0.000	3000	9.440	76.168	24.682	76.169	-0.001	24.683	-0.001	76.168	0.000	24.684	-0.002			
-0.000	3200	9.475	76.779	26.574	76.779	-0.000	26.574	-0.000	76.778	0.001	26.574	-0.000			
-0.000	3400	9.510	77.354	28.473	77.355	-0.001	28.473	0.000	77.353	0.001	28.472	0.001			
-0.000	3600	9.545	77.899	30.378	77.899	-0.000	30.378	-0.000	77.897	0.001	30.377	0.001			
-0.000	3800	9.579	78.416	32.290	78.416	-0.000	32.291	-0.001	78.414	0.002	32.289	0.001			
0.000	4000	9.614	78.908	34.210	78.908	-0.000	34.210	0.000	78.907	0.001	34.209	0.001			
0.000	4200	9.648	79.378	36.136	79.378	-0.000	36.136	-0.000	79.377	0.001	36.135	0.001			
0.000	4400	9.682	79.828	38.069	79.828	0.000	38.069	0.000	79.826	0.002	38.069	0.000			
	4600	9.717	80.259	40.009	80.259	0.000	40.009	0.000	80.258	0.001	40.009	0.000			
	4800	9.751	80.673	41.956	80.673	-0.000	41.955	0.001	80.672	0.001	41.956	0.000			
	5000	9.785	81.072	43.909	81.072	0.000	43.909	0.000	81.071	0.001	43.909	-0.000			
	5200	9.819	81.456	45.869	81.456	-0.000	45.869	-0.000	81.455	0.001	45.870	-0.001			
	5400	9.853	81.827	47.837	81.827	-0.000	47.836	0.001	81.826	0.001	47.837	-0.000			
	5600	9.887	82.186	49.811	82.186	-0.000	49.810	0.001	82.185	0.001	49.811	0.000			
	5800	9.921	82.534	51.791	82.534	0.000	51.791	-0.000	82.533	0.001	51.791	-0.000			
	6000	9.955	82.871	53.779	82.871	0.000	53.779	0.000	82.869	0.002	53.778	0.001			

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361

-	53 0 0 0 0 0 0 0 0 IODINE, DIATOMIC	(R)	10J	961	486
7.	3128700E-2+6.1703243E+0-1.3917789E+0+1.0666483E-1 400 6000		11J	961	486
5.	5523834E+0+2.4256607E+1+7.0270874E+1+0.0000000E+0I2 (R)		12J	961	486

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FITS FOR EST      RMS LOW =      0.604390 RMS  HIGH =      0.003237
2 53 0  0 0  0 0  0 0  0 0  0 IODINE, DIATOMIC      (R) 10I2
00000+0+397547+5+374446+1+194440-2+481339+7+832039+2 4003000J 96111I2
00000+0+396382+5+901930+1+122702-3-505728+6+832039+230006000J 96112I2

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DB	T	NOTS						EST					
		CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.003	400	19.281	41.602	5.196	55.346	-13.744	10.811	-5.615	55.829	-14.227	10.996	-5.800	
0.000	600	8.980	68.511	17.616	66.056	2.455	15.973	1.643	66.093	2.418	15.950	1.666	
0.001	800	9.025	71.101	19.416	70.458	0.643	19.005	0.410	70.484	0.617	18.977	0.439	
0.000	1000	9.061	73.119	21.225	73.005	0.114	21.279	-0.054	73.062	0.057	21.279	-0.054	
-0.000	1200	9.092	74.774	23.041	74.793	-0.019	23.238	-0.197	74.869	-0.095	23.258	-0.217	
-0.000	1400	9.122	76.178	24.862	76.202	-0.024	25.065	-0.203	76.279	-0.101	25.086	-0.224	
-0.000	1600	9.151	77.398	26.689	77.389	0.009	26.842	-0.153	77.455	-0.057	26.848	-0.159	
-0.000	1800	9.179	78.477	28.522	78.430	0.047	28.611	-0.089	78.483	-0.006	28.592	-0.070	
0.000	2000	9.207	79.445	30.361	79.368	0.077	30.390	-0.029	79.407	0.038	30.347	0.014	
0.000	2200	9.234	80.324	32.205	80.225	0.099	32.189	0.016	80.257	0.067	32.131	0.074	
-0.000	2400	9.261	81.129	34.054	81.017	0.112	34.010	0.044	81.051	0.078	33.957	0.097	
0.000	2600	9.289	81.871	35.909	81.754	0.117	35.851	0.058	81.802	0.069	35.832	0.077	
-0.000	2800	9.316	82.561	37.770	82.443	0.118	37.711	0.059	82.517	0.044	37.763	0.007	
-0.002	3000	9.343	83.204	39.636	83.090	0.114	39.587	0.049	83.204	0.000	39.755	-0.119	
-0.000	3000	9.343	83.204	39.636	83.090	0.114	39.587	0.049	83.204	0.000	39.638	-0.002	
0.001	3200	9.370	83.808	41.507	83.699	0.109	41.474	0.033	83.807	0.001	41.508	-0.001	
0.001	3400	9.397	84.377	43.384	84.273	0.104	43.369	0.015	84.376	0.001	43.383	0.001	
0.001	3600	9.424	84.915	45.266	84.816	0.099	45.269	-0.003	84.913	0.002	45.265	0.001	
0.001	3800	9.451	85.425	47.153	85.331	0.094	47.171	-0.018	85.424	0.001	47.152	0.001	
0.001	4000	9.477	85.910	49.046	85.819	0.091	49.074	-0.028	85.909	0.001	49.045	0.001	
0.000	4200	9.504	86.374	50.944	86.283	0.091	50.976	-0.032	86.372	0.002	50.943	0.001	
0.000	4400	9.531	86.816	52.848	86.725	0.091	52.877	-0.029	86.815	0.001	52.847	0.001	
0.000	4600	9.558	87.241	54.757	87.147	0.094	54.778	-0.021	87.239	0.002	54.757	0.000	
-0.000	4800	9.585	87.648	56.671	87.552	0.096	56.680	-0.009	87.647	0.001	56.671	-0.000	
-0.001	5000	9.612	88.040	58.591	87.941	0.099	58.585	0.006	88.039	0.001	58.591	-0.000	
-0.000	5200	9.639	88.417	60.516	88.316	0.101	60.497	0.019	88.416	0.001	60.516	-0.000	
0.000	5400	9.665	88.782	62.446	88.679	0.103	62.420	0.026	88.780	0.002	62.446	-0.000	
-0.000	5600	9.692	89.133	64.382	89.031	0.102	64.358	0.024	89.132	0.001	64.382	0.000	
0.001	5800	9.719	89.474	66.323	89.375	0.099	66.319	0.004	89.473	0.001	66.323	0.000	
0.001	6000	9.746	89.804	68.269	89.712	0.091	68.310	-0.041	89.803	0.001	68.268	0.001	

IODINE, DIATOMIC

(G) I 2-

961

MOL. WT.= 253.800 BLOCK= 2440 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 14.924 KEY = 488

FITS FOR NOTS RMS = 0.001690

2 53 0 0 0 0 0 0 0 0 0 IODINE, DIATOMIC (G) 10J 961 488
 +8.9576320E+0+1.2535023E-1+1.5487521E-3-8.6076441E-5 400 6000 11J 961 488
 -2.2018432E-2+1.2179904E+1+7.2980209E+1+1.4923999E+1I2 (G) 12J 961 488

FITS FOR EST RMS LOW = 0.000495 RMS HIGH = 0.003120

2 53 0 0 0 0 0 0 0 0 0 IODINE, DIATOMIC (G) 10I2
 +149239+5+247118+5+894397+1+133527-3-167840+5+832039+2 4003000J 96111I2
 +149239+5+247145+5+901852+1+122829-3-503264+6+832039+230006000J 96112I2

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-5.800	400	8.901	64.885	0.903	64.891	-0.006	0.904	-0.001	64.887	-0.002	0.904	-0.001
1.666	600	8.980	68.511	2.692	68.510	0.001	2.690	0.002	68.511	-0.000	2.692	0.000
0.439	800	9.025	71.101	4.492	71.099	0.002	4.490	0.002	71.101	0.000	4.492	-0.000
-0.054	1000	9.061	73.119	6.301	73.117	0.002	6.299	0.002	73.118	0.001	6.301	0.000
-0.217	1200	9.092	74.774	8.117	74.773	0.001	8.115	0.002	74.773	0.001	8.116	0.001
-0.224	1400	9.122	76.178	9.938	76.177	0.001	9.936	0.002	76.177	0.001	9.938	0.000
-0.159	1600	9.151	77.398	11.765	77.397	0.001	11.764	0.001	77.397	0.001	11.765	-0.000
-0.070	1800	9.179	78.477	13.598	78.477	0.000	13.598	0.000	78.477	0.000	13.598	-0.000
0.014	2000	9.207	79.446	15.437	79.445	0.001	15.437	0.000	79.445	0.001	15.437	0.000
0.074	2200	9.234	80.324	17.281	80.324	-0.000	17.281	-0.000	80.324	0.000	17.281	0.000
0.097	2400	9.261	81.129	19.131	81.129	-0.000	19.131	0.000	81.129	0.000	19.131	0.000
0.077	2600	9.289	81.871	20.986	81.872	-0.001	20.986	0.000	81.871	0.000	20.986	0.000
0.007	2800	9.316	82.561	22.846	82.561	0.000	22.846	-0.000	82.560	0.001	22.846	0.000
-0.119	3000	9.343	83.204	24.712	83.205	-0.001	24.712	-0.000	83.204	0.000	24.712	0.000
-0.002	3000	9.343	83.204	24.712	83.205	-0.001	24.712	-0.000	83.204	0.000	24.715	-0.003
-0.001	3200	9.370	83.808	26.583	83.808	-0.000	26.584	-0.001	83.807	0.001	26.584	-0.001
0.001	3400	9.397	84.377	28.460	84.377	-0.000	28.460	-0.000	84.376	0.001	28.459	0.001
0.001	3600	9.424	84.915	30.342	84.915	-0.000	30.342	-0.000	84.913	0.002	30.341	0.001
0.001	3800	9.451	85.425	32.229	85.425	-0.000	32.230	-0.001	85.424	0.001	32.228	0.001
0.001	4000	9.477	85.910	34.122	85.911	-0.001	34.122	-0.000	85.909	0.001	34.121	0.001
0.001	4200	9.504	86.374	36.020	86.374	0.000	36.020	-0.000	86.372	0.002	36.019	0.001
0.001	4400	9.531	86.816	37.924	86.817	-0.001	37.924	0.000	86.815	0.001	37.923	0.001
0.000	4600	9.558	87.241	39.833	87.241	0.000	39.833	0.000	87.239	0.002	39.833	0.000
-0.000	4800	9.585	87.648	41.747	87.648	-0.000	41.747	0.000	87.647	0.001	41.747	-0.000
-0.000	5000	9.612	88.040	43.667	88.040	0.000	43.666	0.001	88.039	0.001	43.667	-0.000
-0.000	5200	9.639	88.417	45.592	88.417	-0.000	45.591	0.001	88.416	0.001	45.592	-0.000
-0.000	5400	9.665	88.782	47.522	88.782	0.000	47.522	0.000	88.780	0.002	47.523	-0.001
0.000	5600	9.692	89.134	49.458	89.134	0.000	49.458	0.000	89.132	0.002	49.458	-0.000
0.000	5800	9.719	89.474	51.399	89.474	-0.000	51.399	0.000	89.473	0.001	51.399	0.000
0.001	6000	9.746	89.804	53.345	89.804	-0.000	53.345	-0.000	89.803	0.001	53.344	0.001

LITHIUM IODIDE, DIMERIC (G) I 2LI 2 0 0 0 0 666
 MOL. WT.= 267.680 BLOCK= 2446 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORN(KCAL/(MOLE)) = -86.500 KEY = 489
 FITS FOR NOTS RMS = 0.003080
 53 2 71 0 0 0 0 0 0 LITHIUM IODIDE, DIMERIC (G) 10J 666 489
 .9880706E+1-1.9134134E-3-7.5642555E-4+1.5063380E-4 400 6000 11J 666 489
 .7155456E-1-9.2988189E+1+1.0214056E+2-8.6500000E+1+12LI2 (G) 12J 666 489

FITS FOR EST RMS LOW = 0.000693 RMS HIGH = 0.005929
 53 2 71 0 0 0 0 0 0 LITHIUM IODIDE, DIMERIC (G) 10I2LI2
 .65000+5+531976+5+198701+2+300050-6-166480+6+123982+3 4003000J 66611I2LI2
 .65000+5+532021+5+200087+2-199843-4-105523+7+123982+330006000J 66612I2LI2

LITH
 MOL
 DATA
 FITS
 3 8 1
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 -8.4085

FITS
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 -394239
 -394239

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H				
400	18.877	84.449	1.891	84.459	-0.010	1.893	-0.002	84.457	-0.008	1.895	-0.004				
600	19.412	92.225	5.730	92.222	0.003	5.726	0.004	92.224	0.001	5.730	-0.000				
800	19.610	97.840	9.635	97.837	0.003	9.630	0.005	97.840	0.000	9.635	0.000				
1000	19.703	102.227	13.568	102.224	0.003	13.563	0.005	102.227	0.000	13.567	0.001				
1200	19.754	105.824	17.514	105.822	0.002	17.510	0.004	105.824	-0.000	17.514	0.000				
1400	19.785	108.872	21.468	108.870	0.002	21.465	0.003	108.872	0.000	21.468	0.000				
1600	19.805	111.515	25.427	111.514	0.001	25.425	0.002	111.515	-0.000	25.427	-0.000				
1800	19.819	113.849	29.390	113.848	0.001	29.388	0.002	113.849	0.000	29.390	0.000				
2000	19.829	115.937	33.354	115.937	-0.000	33.354	0.000	115.938	-0.001	33.355	-0.001				
2200	19.836	117.828	37.321	117.828	0.000	37.321	0.000	117.828	0.000	37.321	-0.000				
2400	19.842	119.554	41.289	119.554	-0.000	41.289	-0.000	119.554	-0.000	41.289	0.000				
2600	19.846	121.142	45.258	121.143	-0.001	45.258	-0.000	121.142	-0.000	45.258	0.000				
2800	19.850	122.613	49.227	122.614	-0.001	49.228	-0.001	122.613	-0.000	49.227	-0.000				
3000	19.853	123.983	53.198	123.983	-0.000	53.199	-0.001	123.983	0.000	53.198	0.000				
3200	19.853	123.983	53.198	123.983	-0.000	53.199	-0.001	123.983	0.000	53.202	-0.004				
3400	19.855	125.264	57.168	125.265	-0.001	57.170	-0.002	125.263	0.001	57.169	-0.001				
3600	19.857	126.468	61.140	126.469	-0.001	61.141	-0.001	126.466	0.002	61.139	0.001				
3800	19.858	127.603	65.111	127.604	-0.001	65.112	-0.001	127.601	0.002	65.109	0.002				
4000	19.860	128.677	69.083	128.677	-0.000	69.084	-0.001	128.675	0.002	69.081	0.002				
4200	19.861	129.695	73.055	129.696	-0.001	73.056	-0.001	129.693	0.002	73.053	0.002				
4400	19.862	130.664	77.027	130.665	-0.001	77.028	-0.001	130.663	0.001	77.026	0.001				
4600	19.863	131.588	81.000	131.589	-0.001	81.000	0.000	131.587	0.001	80.999	0.001				
4800	19.864	132.471	84.973	132.472	-0.001	84.972	0.001	132.470	0.001	84.972	0.001				
5000	19.864	133.317	88.945	133.317	-0.000	88.945	0.000	133.315	0.002	88.946	-0.001				
5200	19.865	134.128	92.918	134.128	0.000	92.918	0.000	134.126	0.002	92.919	-0.001				
5400	19.865	134.907	96.891	134.907	-0.000	96.891	0.000	134.906	0.001	96.892	-0.001				
5600	19.866	135.657	100.864	135.657	0.000	100.864	0.000	135.655	0.002	100.865	-0.001				
5800	19.866	136.379	104.838	136.379	-0.000	104.837	0.001	136.378	0.001	104.838	0.000				
6000	19.867	137.076	108.811	137.077	-0.001	108.811	0.000	137.075	0.001	108.810	0.001				
6200	19.867	137.750	112.784	137.750	-0.000	112.785	-0.001	137.748	0.002	112.783	0.001				

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3 8 1 14 2 71 0 0 0 0 0 LITHIUM METASILICATE	(C)	30J	667	490
+2.9859481E+1+8.4091205E+0-1.1630687E+0+1.0076695E-1 400 2500		31J	667	490
-8.4085083E-1-4.0623046E+2+4.8424026E+1-3.9423999E+2LI2O3SI (C)		32J	667	490

PITS FOR EST RMS LOW = 0.024086 RMS HIGH = 0.024086
 3 8 1 14 2 71 0 0 0 0 0 LITHIUM METASILICATE (C) 30LI2O3SI\$
 -394239+6+107479+6+328671+2+503559-2-141073+7+102238+3 4002500J 66731LI2O3SI\$
 -394239+6+107479+6+328671+2+503559-2-141073+7+102238+3 4002500J 66732LI2O3SI\$

[illegible]

LITHIUM METASILICATE (L) LI 20 3SI 1 0 0 0 667
 MOL. WT.= 89.960 BLOCK= 2455 NO. POINT = 39
 DATA FROM 298 TO 4000 K HFORM(KCAL/(MOLE)) = -388.441 KEY = 491
 FITS FOR NOTS RMS = 0.089277
 8 1 14 2 71 0 0 0 0 0 LITHIUM METASILICATE (L) 20J 667 491
 .5719635E+1-3.6038169E+0+7.6520866E-1-4.9666151E-2 400 4000 21J 667 491
 .3912963E+0-4.1417602E+2+6.1739364E+1-3.8844091E+2+2LI2O3SI(L) 22J 667 491

FITS FOR EST RMS LOW = 0.133641 RMS HIGH = 0.133641
 8 1 14 2 71 0 0 0 0 0 LITHIUM METASILICATE (L) 20LI2O3SI*
 .68440+6+102571+6+416285+2-413878-3-298689+7+104411+3 4004000J 66721LI2O3SI*
 .68440+6+102571+6+416285+2-413878-3-298689+7+104411+3 4004000J 66722LI2O3SI*

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DB

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-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	28.400	30.686	2.689	32.188	-1.502	3.259	-0.570	30.779	-0.093	2.639	0.050	400
600	32.100	42.976	8.776	42.456	0.520	8.420	0.356	42.389	0.587	8.434	0.342	600
800	34.520	52.555	15.447	52.321	0.234	15.302	0.145	52.467	0.088	15.457	-0.010	800
1000	40.000	60.467	22.546	60.697	-0.230	22.817	-0.271	60.834	-0.367	22.962	-0.416	1000
1200	40.000	67.760	30.546	67.798	-0.038	30.608	-0.062	67.884	-0.124	30.698	-0.152	1200
1400	40.000	73.926	38.546	73.902	0.024	38.529	0.017	73.943	-0.017	38.561	-0.015	1400
1600	40.000	79.267	46.546	79.231	0.036	46.511	0.035	79.241	0.026	46.496	0.050	1600
1800	40.000	83.979	54.546	83.947	0.032	54.519	0.027	83.939	0.040	54.473	0.073	1800
2000	40.000	88.193	62.546	88.169	0.024	62.534	0.012	88.154	0.039	62.476	0.070	2000
2200	40.000	92.005	70.546	91.988	0.017	70.548	-0.002	91.974	0.031	70.492	0.054	2200
2400	40.000	95.486	78.546	95.472	0.014	78.557	-0.011	95.465	0.021	78.514	0.032	2400
2600	40.000	98.688	86.546	98.675	0.013	86.560	-0.014	98.675	0.013	86.537	0.009	2600
2800	40.000	101.652	94.546	101.639	0.013	94.557	-0.011	101.647	0.005	94.557	-0.011	2800
3000	40.000	104.412	102.546	104.396	0.016	102.552	-0.006	104.412	0.000	102.572	-0.026	3000
200	40.000	106.993	110.546	106.976	0.017	110.545	0.001	106.996	-0.003	110.579	-0.033	
400	40.000	109.418	118.546	109.399	0.019	118.539	0.007	109.420	-0.002	118.576	-0.030	
600	40.000	111.704	126.546	111.685	0.019	126.538	0.008	111.703	0.001	126.563	-0.017	
800	40.000	113.867	134.546	113.849	0.018	134.543	0.003	113.859	0.008	134.539	0.007	
1000	40.000	115.919	142.546	115.904	0.015	142.557	-0.011	115.901	0.018	142.503	0.043	

665

NO. POINT = 32

DATA FROM 0 TO 3000 K HFORN(KCAL/(MOLE)) = -483.736 KEY = 492

FITS FOR NOTS RMS = 0.011728

491	4 8 1 14 1 40 0 0 0 0 0 ZIRCONIUM SILICATE	(C)	30J	665	492
491	+3.6843292E+1+9.7615945E-1-9.6283471E-1+1.9197714E-1 400 3000		31J	665	492
491	-1.8291015E+0-5.0044482E+2+5.5450942E+1-4.8373583E+2O4SIZR (C)		32J	665	492

FITS FOR EST RMS LOW = 0.024866 RMS HIGH = 0.024866
 4 8 1 14 1 40 0 0 0 0 0 ZIRCONIUM SILICATE (C) 3004SIZR\$
 -483735+6+940258+5+373408+2-422696-3-174784+7+963529+2 4003000J 6653104SIZR\$
 -483735+6+940258+5+373408+2-422696-3-174784+7+963529+2 4003000J 6653204SIZR\$

[illegible]

ALUMINUM MONOBROMIDE (G) AL 1BR 1 964 A
 MOL. WT. = 106.890 BLOCK = 2463 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = 3.600 KEY = 493
 FITS FOR NOTS RMS = 0.001672
 13 1 35 0 0 0 0 0 0 0 ALUMINUM MONOBROMIDE (G) 10J 964 493
 .9514045E+0+1.0952246E-1+6.1763310E-4-1.6139325E-5 400 6000 11J 964 493
 .1498413E-2+7.6165103E-1+6.7781829E+1+3.5999994E+0ALBR (G) 12J 964 493

FITS FOR EST RMS LOW = 0.000491 RMS HIGH = 0.003092
 13 1 35 0 0 0 0 0 0 0 ALUMINUM MONOBROMIDE (G) 10ALBR
 .59999+4+245306+5+893974+1+115069-3-462880+5+779499+2 4003000J 96411ALBR
 .59999+4+245333+5+901842+1+102902-3-536592+6+779499+230006000J 96412ALBR

		-----NOTS-----								-----EST-----				
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
.012	400	8.710	59.778	0.878	59.785	-0.007	0.880	-0.002	59.780	-0.002	0.879	-0.001	400	
.032	500	8.881	63.347	2.640	63.347	0.000	2.638	0.002	63.348	-0.001	2.640	0.000	500	
.023	600	8.959	65.914	4.425	65.912	0.002	4.422	0.003	65.914	-0.000	4.425	0.000	600	
.039	700	9.009	67.919	6.222	67.917	0.002	6.220	0.002	67.919	-0.000	6.222	0.000	700	
.017	800	9.046	69.565	8.027	69.564	0.001	8.025	0.002	69.565	0.000	8.027	-0.000	800	
.009	900	9.078	70.962	9.840	70.961	0.001	9.838	0.002	70.962	0.000	9.840	0.000	900	
.022	1000	9.106	72.176	11.658	72.175	0.001	11.657	0.001	72.176	0.000	11.658	0.000	1000	
.018	1100	9.133	73.250	13.482	73.249	0.001	13.481	0.001	73.250	0.000	13.482	0.000	1100	
.008	1200	9.158	74.213	15.311	74.213	-0.000	15.311	0.000	74.213	-0.000	15.311	0.000	1200	
.003	1300	9.183	75.087	17.145	75.087	-0.000	17.145	-0.000	75.087	-0.000	17.145	-0.000	1300	
.011	1400	9.208	75.887	18.984	75.888	-0.001	18.985	-0.001	75.888	-0.001	18.984	-0.000	1400	
.012	1500	9.232	76.625	20.828	76.626	-0.001	20.829	-0.001	76.626	-0.001	20.828	-0.000	1500	
.003	1600	9.256	77.310	22.677	77.311	-0.001	22.678	-0.001	77.311	-0.001	22.677	-0.000		
.015	1700	9.279	77.950	24.531	77.950	0.000	24.531	-0.000	77.950	0.000	24.531	0.000		
	1800	9.279	77.950	24.531	77.950	0.000	24.531	-0.000	77.950	0.000	24.533	-0.002		
	1900	9.303	78.549	26.389	78.550	-0.001	26.389	-0.000	78.549	0.000	26.390	-0.001		
	2000	9.326	79.114	28.252	79.114	-0.000	28.252	-0.000	79.113	0.001	28.251	0.001		
	2100	9.349	79.648	30.119	79.648	0.000	30.120	-0.001	79.647	0.001	30.118	0.001		
	2200	9.372	80.154	31.991	80.154	-0.000	31.992	-0.001	80.153	0.001	31.990	0.001		
	2300	9.396	80.635	33.868	80.635	-0.000	33.868	-0.000	80.634	0.001	33.867	0.001		
	2400	9.419	81.094	35.750	81.094	-0.000	35.750	0.000	81.093	0.001	35.749	0.001		
	2500	9.442	81.533	37.636	81.533	-0.000	37.636	0.000	81.532	0.001	37.635	0.001		
	2600	9.465	81.953	39.526	81.953	-0.000	39.526	-0.000	81.952	0.001	39.526	-0.000		
	2700	9.488	82.356	41.422	82.356	-0.000	41.421	0.001	82.356	0.000	41.422	0.000		
	2800	9.511	82.744	43.321	82.744	-0.000	43.321	-0.000	82.744	0.000	43.322	-0.001		
	2900	9.534	83.118	45.226	83.118	0.000	45.226	0.000	83.117	0.001	45.226	-0.000		
	3000	9.557	83.478	47.135	83.478	0.000	47.135	0.000	83.477	0.001	47.135	-0.000		
	3100	9.579	83.826	49.048	83.826	0.000	49.048	-0.000	83.825	0.001	49.049	-0.001		
	3200	9.602	84.162	50.967	84.162	-0.000	50.966	0.001	84.162	0.000	50.966	0.001		
	3300	9.625	84.488	52.889	84.488	-0.000	52.889	-0.000	84.487	0.001	52.888	0.001		

ALUMINUM TRIBROMIDE (C) AL 1BR 3 0 0 0 0 667
 MOL. WT. = 266.700 BLOCK = 2469 NO. POINT = 17
 DATA FROM 0 TO 1500 K HFSRM(KCAL/(MOLE)) = -126.000 KEY = 494
 FITS FOR NOTS RMS = 0.000997
 1 13 3 35 0 0 0 0 0 0 0 ALUMINUM TRIBROMIDE (C) 30J 667 494
 +3.5800521E+1-1.2432069E+1+9.3247661E+0-2.3801488E+0 400 1500 31J 667 494
 -5.4251098E-1-1.3821347E+2+8.6080093E+1-1.2600000E+2ALBR3 (C) 32J 667 494

FITS FOR EST RMS LOW = 0.003009 RMS HIGH = 0.003009
 1 13 3 35 0 0 0 0 0 0 0 ALUMINUM TRIBROMIDE (C) 30ALBR3\$
 -126000+6+801401+5+299150+2-106605-4-107904+6+110582+3 4001500J 66731ALBR3\$
 -126000+6+801401+5+299150+2-106605-4-107904+6+110582+3 4001500J 66732ALBR3\$

-----NOTS-----								-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	28.150	50.702	2.654	50.694	0.008	2.652	0.002	50.665	0.037	2.642	0.012
500	29.600	57.190	5.565	57.201	-0.011	5.569	-0.004	57.218	-0.028	5.579	-0.014
600	29.700	62.597	8.530	62.594	0.003	8.528	0.002	62.606	-0.009	8.534	-0.004
700	29.720	67.177	11.501	67.175	0.002	11.499	0.002	67.176	0.001	11.499	0.002
800	29.740	71.147	14.474	71.147	-0.000	14.475	-0.001	71.144	0.003	14.471	0.003
900	29.760	74.651	17.449	74.652	-0.001	17.450	-0.001	74.649	0.002	17.446	0.003
1000	29.780	77.787	20.426	77.788	-0.001	20.427	-0.001	77.787	0.000	20.425	0.001
1100	29.800	80.627	23.405	80.627	0.000	23.405	0.000	80.628	-0.001	23.405	-0.000
1200	29.820	83.220	26.386	83.220	-0.000	26.385	0.001	83.222	-0.002	26.387	-0.001
1300	29.840	85.608	29.369	85.608	-0.000	29.369	0.000	85.610	-0.002	29.371	-0.002
1400	29.860	87.820	32.354	87.821	-0.001	32.354	-0.000	87.822	-0.002	32.355	-0.001
1500	29.880	89.881	35.341	89.881	-0.000	35.341	0.000	89.881	0.000	35.340	0.001

ALUMINUM TRIBROMIDE (L) AL 1BR 3 0 0 0 0 667
 MOL. WT. = 266.700 BLOCK = 2471 NO. POINT = 14
 DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -123.633 KEY = 495
 FITS FOR NOTS RMS = 0.000241
 1 13 3 35 0 0 0 0 0 0 0 ALUMINUM TRIBROMIDE (L) 20J 667 495
 +2.9825347E+1+1.8231415E-1-2.2465521E-1+8.4282875E-2 400 1500 21J 667 495
 -1.5258789E-4-1.3253195E+2+8.5400497E+1-1.2363299E+2ALBR3 (L) 22J 667 495

FITS FOR EST RMS LOW = 0.000247 RMS HIGH = 0.000247
 1 13 3 35 0 0 0 0 0 0 0 ALUMINUM TRIBROMIDE (L) 20ALBR3*
 -123632+6+807032+5+298670+2+139050-5+160000+3+118313+3 4001500J 66721ALBR3*
 -123632+6+807032+5+298670+2+139050-5+160000+3+118313+3 4001500J 66722ALBR3*

-----NOTS-----								-----EST-----							
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
400	29.869	58.130	3.042	58.129	0.001	3.042	0.000	58.130	0.000	3.042	-0.000				
500	29.869	64.795	6.029	64.794	0.001	6.029	0.000	64.795	0.000	6.029	-0.000				
600	29.869	70.240	9.016	70.240	-0.000	9.016	0.000	70.241	-0.001	9.016	-0.000				
700	29.869	74.845	12.003	74.845	0.000	12.003	-0.000	74.845	0.000	12.003	0.000				
800	29.869	78.833	14.990	78.834	-0.001	14.990	-0.000	78.833	-0.000	14.990	0.000				
900	29.869	82.351	17.977	82.352	-0.001	17.977	-0.000	82.351	-0.000	17.977	0.000				
1000	29.869	85.498	20.964	85.499	-0.001	20.964	0.000	85.498	-0.000	20.963	0.001				
1100	29.869	88.345	23.950	88.345	-0.000	23.950	-0.000	88.345	0.000	23.950	-0.000				
1200	29.869	90.944	26.937	90.944	0.000	26.937	-0.000	90.944	0.000	26.937	-0.000				
1300	29.869	93.335	29.924	93.335	0.000	29.924	0.000	93.335	0.000	29.924	-0.000				
1400	29.869	95.548	32.911	95.548	-0.000	32.911	0.000	95.548	-0.000	32.911	0.000				
1500	29.869	97.609	35.898	97.609	-0.000	35.898	-0.000	97.609	0.000	35.898	0.000				

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ALUMINUM TRIBROMIDE (G) AL 1BR 3 0 0 0 0 667
MOL. WT.= 266.700 BLOCK= 2472 NO. POINT = 62
DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -101.100 KEY = 496
FITS FOR NOTS RMS = 0.003100
1 13 3 35 0 0 0 0 0 0 0 ALUMINUM TRIBROMIDE (G) 10J 667 496
+1.9880386E+1-1.7276289E-3-7.5756758E-4+1.4525401E-4 400 6000 11J 667 496
-1.4714050E-1-1.0750415E+2+1.0779948E+2-1.0109999E+2ALBR3(G) 12J 667 496

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FITS FOR EST RMS LOW = 0.000674 RMS HIGH = 0.005994
1 13 3 35 0 0 0 0 0 0 0 ALUMINUM TRIBROMIDE (G) 10ALBR3
-101099+6+532733+5+198707+2+750126-7-142496+6+129640+3 4003000J 66711ALBR3
-101099+6+532774+5+200102+2-203107-4-103244+7+129640+330006000J 66712ALBR3

-----		-----NOTS-----						-----EST-----					
	DH KC/M	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
42	-0.000	400	19.037	90.030	1.914	90.042	-0.012	1.916	-0.002	90.041	-0.011	1.918	-0.004
29	-0.000	600	19.481	97.850	5.773	97.847	0.003	5.769	0.004	97.850	-0.000	5.773	-0.000
16	-0.000	800	19.648	103.480	9.689	103.477	0.003	9.683	0.006	103.480	0.000	9.688	0.001
03	0.000	1000	19.727	107.874	13.627	107.871	0.003	13.622	0.005	107.874	0.000	13.627	0.000
90	0.000	1200	19.771	111.475	17.577	111.473	0.002	17.573	0.004	111.475	-0.000	17.577	0.000
77	0.000	1400	19.797	114.525	21.534	114.523	0.002	21.531	0.003	114.525	0.000	21.534	-0.000
63	0.001	1600	19.815	117.170	25.496	117.169	0.001	25.493	0.003	117.170	0.000	25.496	0.000
50	-0.000	1800	19.827	119.504	29.460	119.504	0.000	29.458	0.002	119.504	-0.000	29.460	0.000
37	-0.000	2000	19.835	121.593	33.426	121.593	-0.000	33.425	0.001	121.594	-0.001	33.426	-0.000
24	-0.000	2200	19.841	123.484	37.394	123.484	-0.000	37.394	0.000	123.485	-0.001	37.394	0.000
11	0.000	2400	19.846	125.211	41.363	125.211	-0.000	41.363	0.000	125.211	-0.000	41.363	0.000
98	0.000	2600	19.850	126.800	45.332	126.800	-0.000	45.333	-0.001	126.800	-0.000	45.332	-0.000
		2800	19.853	128.271	49.303	128.271	-0.000	49.303	-0.000	128.271	-0.000	49.303	0.000
		3000	19.855	129.641	53.273	129.641	-0.000	53.274	-0.001	129.641	0.000	53.273	-0.000
		3000	19.855	129.641	53.273	129.641	-0.000	53.274	-0.001	129.641	0.000	53.277	-0.004
		3200	19.857	130.922	57.245	130.923	-0.001	57.246	-0.001	130.921	0.001	57.245	-0.000
		3400	19.859	132.126	61.216	132.127	-0.001	61.217	-0.001	132.125	0.001	61.215	0.001
		3600	19.860	133.261	65.188	133.262	-0.001	65.189	-0.001	133.260	0.001	65.186	0.002
		3800	19.862	134.335	69.160	134.335	-0.000	69.161	-0.001	134.333	0.002	69.158	0.002
		4000	19.863	135.354	73.133	135.354	-0.000	73.133	-0.000	135.352	0.002	73.131	0.002
		4200	19.863	136.323	77.105	136.323	-0.000	77.106	-0.001	136.321	0.002	77.104	0.001
		4400	19.864	137.247	81.078	137.247	-0.000	81.078	-0.000	137.246	0.001	81.077	0.001
		4600	19.865	138.130	85.051	138.130	-0.000	85.051	0.000	138.129	0.001	85.051	0.000
		4800	19.865	138.975	89.024	138.976	-0.001	89.024	0.000	138.974	0.001	89.024	-0.000
		5000	19.866	139.786	92.997	139.787	-0.001	92.997	0.000	139.785	0.001	92.998	-0.001
		5200	19.866	140.566	96.970	140.566	0.000	96.970	0.000	140.565	0.001	96.971	-0.001
		5400	19.867	141.315	100.944	141.315	-0.000	100.943	0.001	141.314	0.001	100.944	-0.000
		5600	19.867	142.038	104.917	142.038	0.000	104.916	0.001	142.037	0.001	104.917	-0.000
		5800	19.867	142.735	108.890	142.735	-0.000	108.890	-0.000	142.734	0.001	108.890	0.000
		6000	19.868	143.408	112.864	143.409	-0.001	112.864	-0.000	143.407	0.001	112.862	0.002

ALUMINUM MONOIODIDE (G) AL 1I 1 964
 MOL. WT.= 153.880 BLOCK= 2479 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 14.300 KEY = 497
 FITS FOR NOTS RMS = 0.001643
 13 1 53 0 0 0 0 0 0 0 ALUMINUM MONOIODIDE (G) 10J 964 497
 .9550170E+0+1.1130857E-1+1.1706480E-3-5.3797775E-5 400 6000 11J 964 497
 .8360595E-2+1.1502086E+1+6.9850769E+1+1.4299999E+1ALI(G) 12J 964 497

FITS FOR EST RMS LOW = 0.000485 RMS HIGH = 0.003108
 13 1 53 0 0 0 0 0 0 0 ALUMINUM MONOIODIDE (G) 10ALI
 142999+5+245896+5+894299+1+118109-3-336640+5+800289+2 4003000J 96411ALI
 142999+5+245923+5+901573+1+107657-3-509344+6+800289+230006000J 96412ALI

ALI
 NO
 DATA
 FITS
 1 13
 +2.969
 -9.006
 FITS
 1 13
 -73899
 -73899

H	T	-----NOTS-----												-----EST-----											
		CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH													
K	K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H													
04	400	8.789	61.805	0.888	61.810	-0.005	0.889	-0.001	61.806	-0.001	0.889	-0.001													
00	500	8.921	65.398	2.661	65.397	0.001	2.659	0.002	65.397	0.001	2.661	-0.000													
01	600	8.985	67.974	4.452	67.972	0.002	4.450	0.002	67.973	0.001	4.452	-0.000													
00	700	9.027	69.983	6.254	69.982	0.001	6.251	0.003	69.983	0.000	6.254	0.000													
00	800	9.061	71.632	8.063	71.631	0.001	8.061	0.002	71.632	0.000	8.063	0.000													
00	900	9.091	73.031	9.878	73.031	0.000	9.877	0.001	73.031	0.000	9.878	0.000													
00	1000	9.119	74.247	11.699	74.247	0.000	11.698	0.001	74.247	0.000	11.699	0.000													
00	1100	9.145	75.323	13.525	75.322	0.001	13.525	0.000	75.322	0.001	13.525	-0.000													
00	1200	9.171	76.288	15.357	76.288	0.000	15.357	0.000	76.287	0.001	15.357	-0.000													
00	1300	9.196	77.163	17.194	77.163	0.000	17.194	0.000	77.162	0.001	17.194	0.000													
06	1400	9.221	77.964	19.035	77.964	-0.000	19.036	-0.001	77.964	0.000	19.035	-0.000													
00	1500	9.245	78.703	20.882	78.703	-0.000	20.882	-0.000	78.703	0.000	20.882	0.000													
00	1600	9.270	79.389	22.733	79.389	-0.000	22.734	-0.001	79.389	0.000	22.733	-0.000													
00	1700	9.294	80.029	24.590	80.030	-0.001	24.590	-0.000	80.029	0.000	24.590	0.000													
04	1800	9.294	80.029	24.590	80.030	-0.001	24.590	-0.000	80.029	0.000	24.592	-0.002													
00	1900	9.318	80.630	26.451	80.630	-0.000	26.451	-0.000	80.629	0.001	26.452	-0.001													
01	2000	9.342	81.196	28.317	81.196	0.000	28.317	-0.000	81.194	0.002	28.316	0.000													
02	2100	9.366	81.730	30.188	81.730	-0.000	30.188	-0.000	81.729	0.001	30.187	0.001													
02	2200	9.390	82.237	32.063	82.237	-0.000	32.063	-0.000	82.236	0.001	32.062	0.001													
02	2300	9.414	82.720	33.943	82.720	0.000	33.944	-0.001	82.718	0.002	33.942	0.001													
01	2400	9.438	83.179	35.829	83.180	-0.001	35.829	0.000	83.178	0.001	35.828	0.001													
01	2500	9.461	83.619	37.718	83.619	-0.000	37.719	-0.001	83.617	0.001	37.718	-0.000													
00	2600	9.485	84.040	39.613	84.040	-0.000	39.613	-0.000	84.039	0.001	39.613	-0.000													
00	2700	9.509	84.444	41.513	84.444	-0.000	41.512	0.001	84.443	0.001	41.513	0.000													
01	2800	9.533	84.833	43.417	84.833	-0.000	43.417	0.000	84.832	0.001	43.417	-0.000													
01	2900	9.556	85.207	45.326	85.207	-0.000	45.325	0.001	85.206	0.001	45.326	-0.000													
00	3000	9.580	85.568	47.239	85.568	-0.000	47.239	-0.000	85.567	0.001	47.240	-0.001													
00	3100	9.604	85.917	49.158	85.917	-0.000	49.158	0.000	85.916	0.001	49.158	-0.000													
00	3200	9.628	86.255	51.081	86.255	0.000	51.081	0.000	86.253	0.002	51.081	0.000													
02	3300	9.651	86.581	53.009	86.582	-0.001	53.009	0.000	86.580	0.001	53.008	0.001													

ALUMINUM TRIIODIDE

(C) AL 11 3

664

MOL. WT. = 407.690 BLOCK = 2485 NO. POINT = 14

DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -73.900 KEY = 498

FITS FOR NOTS RMS = 0.000790

1 13 3 53 0 0 0 0 0 0 0 ALUMINUM TRIIODIDE (C) 30J 664 498
+2.9693405E+1+6.6958484E+0-6.9262018E+0+2.1576423E+0 400 1500 31J 664 498
-9.0066528E-1-8.5906753E+1+7.4789627E+1-7.3899993E+1ALI3 (C) 32J 664 498

FITS FOR EST RMS LOW = 0.002573 RMS HIGH = 0.002573

1 13 3 53 0 0 0 0 0 0 0 ALUMINUM TRIIODIDE (C) 30ALI3\$
-738999+5+815342+5+324496+2-711982-3-101929+7+112962+3 4001500J 66431ALI3\$
-738999+5+815342+5+324496+2-711982-3-101929+7+112962+3 4001500J 66432ALI3\$

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DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.001	400	25.940	52.564	2.523	52.567	-0.003	2.524	-0.001	52.559	0.005	2.521	0.002
0.000	500	27.940	58.587	5.226	58.581	0.006	5.223	0.003	58.583	0.004	5.224	0.002
0.000	600	29.158	63.797	8.086	63.799	-0.002	8.087	-0.001	63.805	-0.008	8.090	-0.004
0.000	700	29.899	68.353	11.042	68.355	-0.002	11.043	-0.001	68.360	-0.007	11.046	-0.004
0.000	800	30.335	72.376	14.055	72.376	0.000	14.055	-0.000	72.378	-0.002	14.056	-0.001
0.000	900	30.574	75.964	17.102	75.963	0.001	17.101	0.001	75.962	0.002	17.098	0.004
0.000	1000	30.700	79.192	20.166	79.192	0.000	20.166	0.000	79.190	0.002	20.163	0.003
0.000	1100	30.799	82.123	23.242	82.124	-0.001	23.243	-0.001	82.123	-0.000	23.240	0.002
0.000	1200	30.870	84.806	26.325	84.807	-0.001	26.326	-0.001	84.808	-0.002	26.326	-0.001
0.000	1300	30.908	87.279	29.414	87.279	0.000	29.414	0.000	87.282	-0.003	29.417	-0.003
0.000	1400	30.951	89.571	32.507	89.570	0.001	32.506	0.001	89.574	-0.003	32.509	-0.002
0.000	1500	31.000	91.708	35.605	91.709	-0.001	35.605	-0.000	91.708	0.000	35.603	0.002
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ALUMINUM TRIIODIDE

(G) AL 1I 3

664

MOL. WT. = 407.690

BLOCK = 2488

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -49.000 KEY = 500

FITS FOR NOTS RMS = 0.003057

99 1 13 3 53 0 0 0 0 0 0 0 ALUMINUM TRIIODIDE (G) 10J 664 500
 99 +1.9873855E+1+3.8461349E-3-2.2013231E-3+2.6898877E-4 400 6000 11J 664 500
 99 -1.6687011E-1-5.5465698E+1+1.0994921E+2-4.9000000E+1ALI3(G) 12J 664 500

FITS FOR EST RMS LOW = 0.000619 RMS HIGH = 0.006057

1 13 3 53 0 0 0 0 0 0 0 ALUMINUM TRIIODIDE (G) 10ALI3
 -490000+5+532133+5+198685+2+116269-5-162672+6+131795+3 4003000J 66411ALI3
 -490000+5+532174+5+200046+2-192746-4-102041+7+131795+330006000J 66412ALI3

-----NOTS-----														-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	SC	DS	HC	DH	SC
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K
54 -0.000	400	18.917	92.249	1.898	92.262	-0.013	1.901	-0.003	92.259	-0.010	1.903	-0.005					
54 0.000	600	19.422	100.033	5.741	100.031	0.002	5.737	0.004	100.033	0.000	5.741	0.000					
54 0.000	800	19.614	105.651	9.648	105.647	0.004	9.643	0.005	105.650	0.001	9.647	0.001					
54 0.000	1000	19.705	110.038	13.580	110.035	0.003	13.576	0.004	110.038	-0.000	13.580	-0.000					
54 0.000	1200	19.756	113.636	17.527	113.634	0.002	17.524	0.003	113.636	0.000	17.527	0.000					
54 0.000	1400	19.787	116.684	21.482	116.682	0.002	21.479	0.003	116.684	0.000	21.482	0.000					
54 0.000	1600	19.807	119.327	25.441	119.326	0.001	25.439	0.002	119.328	-0.001	25.441	-0.000					
54 0.000	1800	19.820	121.661	29.404	121.660	0.001	29.403	0.001	121.661	-0.000	29.404	0.000					
54 0.000	2000	19.830	123.750	33.369	123.750	0.000	33.368	0.001	123.750	-0.000	33.369	-0.000					
54 0.000	2200	19.838	125.640	37.336	125.640	-0.000	37.336	0.000	125.641	-0.001	37.336	0.000					
54 0.000	2400	19.843	127.366	41.304	127.367	-0.001	41.304	-0.000	127.367	-0.001	41.304	0.000					
54 0.000	2600	19.848	128.955	45.273	128.955	-0.000	45.274	-0.001	128.955	-0.000	45.273	0.000					
54 0.000	2800	19.851	130.426	49.243	130.426	-0.000	49.244	-0.001	130.426	-0.000	49.243	0.000					
54 0.000	3000	19.854	131.796	53.213	131.796	-0.000	53.214	-0.001	131.796	0.000	53.213	-0.000					
54 0.000	3000	19.854	131.796	53.213	131.796	-0.000	53.214	-0.001	131.796	0.000	53.217	-0.004					
54 0.000	3200	19.856	133.077	57.184	133.078	-0.001	57.185	-0.001	133.076	0.001	57.185	-0.001					
54 0.000	3400	19.858	134.281	61.156	134.281	-0.000	61.157	-0.001	134.280	0.001	61.155	0.001					
	3600	19.859	135.416	65.127	135.416	-0.000	65.128	-0.001	135.414	0.002	65.125	0.002					
	3800	19.861	136.490	69.099	136.490	-0.000	69.100	-0.001	136.488	0.002	69.097	0.002					
	4000	19.862	137.508	73.072	137.509	-0.001	73.072	-0.000	137.507	0.001	73.070	0.002					
	4200	19.863	138.478	77.044	138.478	0.000	77.045	-0.001	138.476	0.002	77.042	0.001					
	4400	19.864	139.402	81.017	139.402	0.000	81.017	-0.000	139.400	0.002	81.016	0.001					
	4600	19.865	140.285	84.990	140.285	0.000	84.990	0.000	140.283	0.002	84.989	0.001					
	4800	19.865	141.130	88.963	141.130	-0.000	88.962	0.001	141.129	0.001	88.963	0.000					
	5000	19.866	141.941	92.936	141.941	-0.000	92.935	0.001	141.940	0.001	92.936	-0.000					
	5200	19.866	142.720	96.909	142.720	-0.000	96.908	0.001	142.719	0.001	96.910	-0.001					
	5400	19.867	143.470	100.882	143.470	-0.000	100.882	0.000	143.469	0.001	100.883	-0.001					
	5600	19.867	144.192	104.856	144.193	-0.001	104.855	0.001	144.191	0.001	104.856	-0.000					
	5800	19.868	144.890	108.829	144.890	0.000	108.829	-0.000	144.888	0.002	108.829	0.000					
	6000	19.868	145.563	112.803	145.563	-0.001	112.803	-0.000	145.562	0.001	112.801	0.002					

ALUMINUM TRIBROMIDE, DIMERIC (G) AL 2BR 6 0 0 0 0 667
 MOL. WT. = 533.410 BLOCK = 2495 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -231.500 KEY = 501
 FITS FOR NOTS RMS = 0.006580
 13 6 35 0 0 0 0 0 0 0 ALUMINUM TRIBROMIDE, DIMERIC (G) 10J 667 501
 .3726898E+1+.4.2657479E-3-3.8663407E-3+5.1107886E-4 400 6000 11J 667 501
 1.6865234E-1-2.4572827E+2+1.8173883E+2-2.3150000E+2AL2BR6 (G) 12J 667 501

FITS FOR EST RMS LOW = 0.001085 RMS HIGH = 0.013260
 13 6 35 0 0 0 0 0 0 0 ALUMINUM TRIBROMIDE, DIMERIC (G) 10AL2BR6
 231500+6+117066+6+437103+2+213786-5-358768+6+229796+3 4003000J 66711AL2BR6
 231500+6+117077+6+440242+2-447376-4-235571+7+229796+330006000J 66712AL2BR6

	-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T				
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K				
05	400	41.621	142.795	4.177	142.826	-0.031	4.184	-0.007	142.821	-0.026	4.188	-0.011	400	42		
100	600	42.730	159.921	12.632	159.916	0.005	12.623	0.009	159.921	-0.000	12.631	0.001	600	42		
100	800	43.151	172.280	21.226	172.272	0.008	21.215	0.011	172.278	0.002	21.224	0.002	800	42		
100	1000	43.351	181.932	29.878	181.926	0.006	29.868	0.010	181.931	0.001	29.877	0.001	1000	42		
100	1200	43.462	189.847	38.560	189.842	0.005	38.552	0.008	189.846	0.001	38.559	0.001	1200	42		
100	1400	43.529	196.552	47.260	196.548	0.004	47.254	0.006	196.552	0.000	47.259	0.001	1400	42		
100	1600	43.573	202.368	55.970	202.365	0.003	55.966	0.004	202.367	0.001	55.970	-0.000	1600	42		
100	1800	43.603	207.502	64.688	207.500	0.002	64.686	0.002	207.501	0.001	64.688	0.000	1800	42		
100	2000	43.625	212.097	73.411	212.096	0.001	73.410	0.001	212.097	0.000	73.411	0.000	2000	42		
100	2200	43.641	216.255	82.138	216.256	-0.001	82.138	-0.000	216.255	-0.000	82.137	0.001	2200	42		
100	2400	43.653	220.053	90.867	220.054	-0.001	90.869	-0.002	220.053	-0.000	90.867	0.000	2400	42		
100	2600	43.663	223.548	99.599	223.549	-0.001	99.601	-0.002	223.548	0.000	99.599	0.000	2600	42		
100	2800	43.670	226.784	108.332	226.785	-0.001	108.335	-0.003	226.784	0.000	108.332	0.000	2800	42		
104	3000	43.676	229.797	117.067	229.798	-0.001	117.070	-0.003	229.797	0.000	117.067	0.000	3000	42		
101	3000	43.676	229.797	117.067	229.798	-0.001	117.070	-0.003	229.797	0.000	117.077	-0.010	3000	42		
101	3200	43.681	232.616	125.802	232.617	-0.001	125.806	-0.004	232.613	0.003	125.805	-0.003	3200	42		
102	3400	43.685	235.264	134.539	235.265	-0.001	134.543	-0.004	235.260	0.004	134.537	0.002	3400	42		
102	3600	43.689	237.761	143.277	237.763	-0.002	143.280	-0.003	237.757	0.004	143.272	0.005	3600	42		
102	3800	43.692	240.123	152.015	240.125	-0.002	152.018	-0.003	240.119	0.004	152.010	0.005	3800	42		
101	4000	43.694	242.365	160.753	242.366	-0.001	160.756	-0.003	242.360	0.005	160.749	0.004	4000	42		
01	4200	43.697	244.497	169.492	244.497	-0.000	169.494	-0.002	244.492	0.005	169.489	0.003	4200	42		
01	4400	43.698	246.529	178.232	246.530	-0.001	178.233	-0.001	246.525	0.004	178.230	0.002	4400	42		
00	4600	43.700	248.472	186.972	248.472	-0.000	186.972	-0.000	248.468	0.004	186.971	0.001	4600	42		
00	4800	43.701	250.332	195.712	250.332	-0.000	195.712	-0.000	250.328	0.004	195.712	-0.000	4800	42		
01	5000	43.703	252.116	204.452	252.116	-0.000	204.452	-0.000	252.112	0.004	204.454	-0.002	5000	42		
01	5200	43.704	253.830	213.193	253.830	-0.000	213.192	0.001	253.827	0.003	213.195	-0.002	5200	42		
00	5400	43.705	255.479	221.934	255.480	-0.001	221.933	0.001	255.476	0.003	221.936	-0.002	5400	42		
00	5600	43.706	257.069	230.675	257.069	0.000	230.674	0.001	257.065	0.004	230.676	-0.001	5600	42		
00	5800	43.707	258.602	239.416	258.603	-0.001	239.416	-0.000	258.598	0.004	239.415	0.001	5800	42		
02	6000	43.707	260.084	248.157	260.085	-0.001	248.158	-0.001	260.080	0.004	248.154	0.003	6000	42

ALUMINUM TRIIODIDE, DINERIC (G) AL 2I 6 664
MOL. WT.= 815.380 BLOCK= 2501 NO. POINT = 62
DATA FROM 0 TO 6000 K BFORM(KCAL/(MOLE)) = -121.000 KEY = 502
FITS FOR NOTS RMS = 0.006582
2 13 6 53 0 0 0 0 0 0 0 ALUMINUM TRIIODIDE, DINERIC (G) 10J 664 502
+4.3745315E+1-6.3430629E-3-1.4813672E-3+3.3354619E-4 400 6000 11J 664 502
-2.9614257E-1-1.3499951E+2+1.9099838E+2-1.2100000E+2AL2I6 (G) 12J 664 502

FITS FOR EST RMS LOW = 0.000879 RMS HIGH = 0.013229
2 13 6 53 0 0 0 0 0 0 0 ALUMINUM TRIIODIDE, DINERIC (G) 10AL2I6
-121000+6+117296+6+437188+2+750126-7-282544+6+239049+3 4003000J 66411AL2I6
-121000+6+117307+6+440253+2-445105-4-226944+7+239049+330006000J 66412AL2I6

T /H	-----NOTS-----												-----EST-----											
	K	CP C/H-K	S C/H-K	H KC/H	SC C/H-K	DS C/H-K	HC KC/H	DH KC/H	SC C/H-K	DS C/H-K	HC KC/H	DH KC/H												
011	400	42.054	151.809	4.232	151.838	-0.029	4.238	-0.006	151.828	-0.019	4.240	-0.008												
001	600	42.947	169.063	12.748	169.059	0.004	12.740	0.008	169.064	-0.001	12.748	-0.000												
002	800	43.278	181.470	21.375	181.463	0.007	21.365	0.010	181.469	0.001	21.374	0.001												
001	1000	43.435	191.146	30.048	191.139	0.007	30.038	0.010	191.145	0.001	30.047	0.001												
001	1200	43.521	199.074	38.745	199.068	0.006	38.736	0.009	199.073	0.001	38.744	0.001												
001	1400	43.574	205.787	47.455	205.783	0.004	47.448	0.007	205.786	0.001	47.454	0.001												
000	1600	43.608	211.607	56.173	211.605	0.002	56.168	0.005	211.607	-0.000	56.173	0.000												
000	1800	43.631	216.745	64.897	216.744	0.001	64.894	0.003	216.745	-0.000	64.897	0.000												
000	2000	43.648	221.343	73.625	221.343	0.000	73.624	0.001	221.343	-0.000	73.625	0.000												
001	2200	43.660	225.504	82.356	225.504	0.000	82.356	-0.000	225.504	0.000	82.356	0.000												
000	2400	43.670	229.303	91.089	229.304	-0.001	91.090	-0.001	229.303	-0.000	91.089	0.000												
000	2600	43.677	232.799	99.824	232.800	-0.001	99.826	-0.002	232.799	0.000	99.824	0.000												
000	2800	43.683	236.036	108.560	236.037	-0.001	108.562	-0.002	236.036	0.000	108.560	0.000												
000	3000	43.688	239.050	117.297	239.051	-0.001	117.300	-0.003	239.050	0.000	117.297	0.000												
010	3000	43.688	239.050	117.297	239.051	-0.001	117.300	-0.003	239.050	0.000	117.308	-0.011												
003	3200	43.692	241.870	126.035	241.871	-0.001	126.038	-0.003	241.867	0.003	126.038	-0.003												
002	3400	43.695	244.518	134.774	244.520	-0.002	134.777	-0.003	244.515	0.003	134.772	0.002												
005	3600	43.698	247.016	143.513	247.017	-0.001	143.516	-0.003	247.012	0.004	143.509	0.004												
005	3800	43.700	249.379	152.253	249.380	-0.001	152.255	-0.002	249.374	0.005	152.248	0.005												
004	4000	43.702	251.620	160.993	251.621	-0.001	160.995	-0.002	251.616	0.004	160.988	0.005												
003	4200	43.703	253.753	169.733	253.753	-0.001	169.735	-0.002	253.748	0.005	169.730	0.003												
002	4400	43.705	255.786	178.474	255.786	-0.000	178.475	-0.001	255.782	0.004	178.472	0.002												
001	4600	43.706	257.728	187.215	257.729	-0.001	187.215	-0.000	257.724	0.003	187.214	0.001												
000	4800	43.707	259.589	195.956	259.589	-0.000	195.956	-0.000	259.585	0.004	195.957	-0.001												
002	5000	43.708	261.373	204.698	261.373	-0.000	204.697	0.001	261.369	0.004	204.700	-0.002												
002	5200	43.709	263.087	213.440	263.087	-0.000	213.439	0.001	263.083	0.003	213.442	-0.002												
002	5400	43.710	264.737	222.182	264.737	-0.000	222.181	0.001	264.733	0.003	222.184	-0.002												
001	5600	43.711	266.326	230.924	266.327	-0.001	230.923	0.001	266.323	0.003	230.925	-0.001												
001	5800	43.711	267.860	239.666	267.861	-0.001	239.666	0.000	267.856	0.004	239.665	0.001												
003	6000	43.712	269.342	248.408	269.343	-0.001	248.409	-0.001	269.338	0.004	248.405	0.003												

BOE
MC
DATA
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.396
FITS
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6000
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1200
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1600
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2200
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4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

BORON MONOBROMIDE (G) B 1BR 1 1264
 MOL. WT. = 90.720 BLOCK = 2507 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 56.000 KEY = 503
 FITS FOR NOTS RMS = 0.001638
 5 1 35 0 0 0 0 0 0 0 BORON MONOBROMIDE (G) 10J1264 503
 .9193792E+0+1.1126613E-1-4.3326514E-3+3.7658447E-4 400 6000 11J1264 503
 .3963317E-1+5.2899047E+1+6.3819732E+1+5.6000000E+1BBR(G) 12J1264 503

FITS FOR EST RMS LOW = 0.000786 RMS HIGH = 0.003079
 5 1 35 0 0 0 0 0 0 0 BORON MONOBROMIDE (G) 10BBR
 60000+5+241729+5+892505+1+100303-3-138768+6+739439+2 4003000J126411BBR
 60000+5+241747+5+900317+1+858418-4-556608+6+739439+230 006000J126412BBR

BOR
 NO
 DATA
 FITS
 1 5
 +1.976
 -4.607
 FITS
 1 5
 -48799
 -48799

H	-----NOTS-----												-----EST-----				T
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	K	K	K	
	K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H					
08	400	8.216	56.111	0.819	56.128	-0.017	0.825	-0.006	56.126	-0.015	0.825	-0.006		400	1		
00	600	8.604	59.526	2.506	59.523	0.003	2.503	0.003	59.524	0.002	2.505	0.001		600	1		
01	800	8.783	62.029	4.247	62.026	0.003	4.244	0.003	62.027	0.002	4.246	0.001		800	1		
01	1000	8.883	64.000	6.015	63.999	0.001	6.012	0.003	64.000	0.000	6.014	0.001		1000	1		
01	1200	8.947	65.626	7.798	65.625	0.001	7.796	0.002	65.626	0.000	7.798	-0.000		1200	1		
00	1400	8.994	67.009	9.592	67.008	0.001	9.591	0.001	67.009	-0.000	9.593	-0.001		1400	1		
00	1600	9.032	68.212	11.395	68.212	-0.000	11.394	0.001	68.213	-0.001	11.395	-0.000		1600	1		
00	1800	9.064	69.278	13.205	69.278	0.000	13.204	0.001	69.278	-0.000	13.205	0.000		1800	1		
00	2000	9.092	70.235	15.020	70.234	0.000	15.020	-0.000	70.234	0.000	15.020	-0.000		2000	1		
00	2200	9.118	71.102	16.841	71.102	-0.000	16.841	-0.000	71.102	-0.000	16.841	-0.000		2200	1		
00	2400	9.142	71.897	18.667	71.897	0.000	18.667	-0.000	71.897	0.000	18.667	0.000		2400	1		
00	2600	9.165	72.629	20.498	72.629	-0.000	20.498	-0.000	72.629	-0.000	20.498	0.000		2600	1		
11	2800	9.187	73.309	22.333	73.310	-0.001	22.333	-0.000	73.309	-0.000	22.333	-0.000		2800	1		
03	3000	9.209	73.944	24.173	73.944	-0.000	24.173	-0.000	73.944	0.000	24.173	0.000		3000	1		
02	3200	9.209	73.944	24.173	73.944	-0.000	24.173	-0.000	73.944	0.000	24.175	-0.002		3200	1		
04	3400	9.230	74.539	26.016	74.539	-0.000	26.017	-0.001	74.538	0.001	26.017	-0.001		3400	1		
05	3600	9.250	75.099	27.864	75.099	-0.000	27.865	-0.001	75.098	0.001	27.864	-0.000		3600	1		
05	3800	9.271	75.628	29.717	75.629	-0.001	29.717	0.000	75.627	0.001	29.716	0.001		3800	1		
03	4000	9.291	76.130	31.573	76.130	-0.000	31.573	-0.000	76.129	0.001	31.572	0.001		3800	1		
02	4200	9.311	76.607	33.433	76.607	-0.000	33.433	-0.000	76.606	0.001	33.432	0.001		4000	1		
01	4400	9.331	77.062	35.297	77.062	-0.000	35.297	-0.000	77.061	0.001	35.296	0.001		4200	1		
01	4600	9.351	77.497	37.165	77.497	0.000	37.165	-0.000	77.496	0.001	37.165	0.000		4400	1		
02	4800	9.370	77.913	39.037	77.913	0.000	39.037	-0.000	77.912	0.001	39.037	-0.000		4600	1		
02	5000	9.390	78.312	40.913	78.312	0.000	40.913	-0.000	78.311	0.001	40.914	-0.001		4800	1		
02	5200	9.409	78.696	42.793	78.696	0.000	42.793	0.000	78.695	0.001	42.794	-0.001		5000	1		
01	5400	9.429	79.065	44.677	79.065	0.000	44.677	0.000	79.064	0.001	44.678	-0.001		5200	1		
01	5600	9.448	79.421	46.565	79.421	-0.000	46.564	0.001	79.421	0.000	46.565	-0.000		5400	1		
03	5800	9.467	79.765	48.456	79.765	-0.000	48.456	-0.000	79.764	0.001	48.457	-0.001		5600	1		
	6000	9.487	80.098	50.352	80.098	0.000	50.352	0.000	80.097	0.001	50.352	0.000		5800	1		
	6000	9.506	80.420	52.251	80.420	0.000	52.251	-0.000	80.419	0.001	52.250	0.001		6000	1		

1264

BORON TRIBROMIDE

(G)

B 1BR 3

1264

MOL. WT. = 250.530

BLOCK = 2515

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -48.800 KEY = 505

FITS FOR NOTS RMS = 0.003572

54 503 1 5 3 35 0 0 0 0 0 0 0 BORON TRIBROMIDE (G) 10J1264 505
 54 503 +1.9769180E+1+6.7745506E-2-1.6021605E-2+1.2803869E-3 400 6000 11J1264 505
 54 503 -4.6078491E-1-5.6130966E+1+9.9129623E+1-4.8799987E+1BBR3 (G) 12J1264 505

FITS FOR EST RMS LOW = 0.002998 RMS HIGH = 0.005965

1 5 3 35 0 0 0 0 0 0 0 BORON TRIBROMIDE (G) 10BBR3
 -487999+5+523171+5+198036+2+219412-4-465136+6+121015+3 4003000J126411BBR3
 -487999+5+523203+5+200035+2-191043-4-140108+7+121015+33006000J126412BBR3

-----		-----NOTS-----						-----EST-----					
HC	DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
C/M	KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.825	-0.006	400	17.358	82.423	1.713	82.481	-0.058	1.734	-0.021	82.484	-0.061	1.738	-0.025
2.505	0.001	600	18.545	89.720	5.321	89.709	0.011	5.310	0.011	89.711	0.009	5.314	0.007
4.246	0.001	800	19.074	95.137	9.089	95.128	0.009	9.079	0.010	95.130	0.007	9.084	0.005
6.014	0.001	1000	19.345	99.425	12.934	99.420	0.005	12.928	0.006	99.422	0.003	12.932	0.002
7.798	-0.000	1200	19.499	102.967	16.819	102.964	0.003	16.816	0.003	102.966	0.001	16.820	-0.001
9.593	-0.001	1400	19.595	105.980	20.730	105.979	0.001	20.728	0.002	105.980	-0.001	20.731	-0.001
11.395	-0.000	1600	19.659	108.602	24.656	108.601	0.001	24.655	0.001	108.601	0.001	24.657	-0.001
13.205	0.000	1800	19.703	110.920	28.592	110.919	0.001	28.591	0.001	110.919	0.001	28.593	-0.001
15.020	-0.000	2000	19.735	112.997	32.536	112.997	-0.000	32.536	0.000	112.997	0.000	32.536	-0.000
16.841	-0.000	2200	19.758	114.879	36.485	114.879	-0.000	36.485	-0.000	114.878	0.001	36.485	0.000
18.667	0.000	2400	19.776	116.599	40.439	116.599	-0.000	40.439	0.000	116.598	0.001	40.438	0.001
20.498	0.000	2600	19.790	118.183	44.396	118.183	0.000	44.396	0.000	118.182	0.001	44.395	0.001
22.333	-0.000	2800	19.802	119.650	48.355	119.650	0.000	48.355	-0.000	119.649	0.001	48.355	0.000
24.173	0.000	3000	19.811	121.016	52.316	121.017	-0.001	52.317	-0.001	121.016	0.000	52.317	-0.001
24.175	-0.002	3000	19.811	121.016	52.316	121.017	-0.001	52.317	-0.001	121.016	0.000	52.320	-0.004
26.017	-0.001	3200	19.818	122.295	56.279	122.295	-0.000	56.280	-0.001	122.294	0.001	56.280	-0.001
27.864	-0.000	3400	19.824	123.497	60.243	123.497	-0.000	60.244	-0.001	123.495	0.002	60.242	0.001
29.716	0.001	3600	19.830	124.630	64.209	124.630	-0.000	64.210	-0.001	124.628	0.002	64.207	0.002
31.572	0.001	3800	19.834	125.702	68.175	125.703	-0.001	68.176	-0.001	125.700	0.002	68.173	0.002
33.432	0.001	4000	19.838	126.720	72.142	126.720	-0.000	72.143	-0.001	126.717	0.003	72.140	0.002
35.296	0.001	4200	19.841	127.688	76.110	127.688	0.000	76.111	-0.001	127.686	0.002	76.108	0.001
37.165	0.000	4400	19.844	128.611	80.079	128.611	0.000	80.079	0.000	128.609	0.002	80.078	0.001
39.037	-0.000	4600	19.846	129.493	84.048	129.493	0.000	84.048	0.000	129.491	0.002	84.047	0.001
40.914	-0.001	4800	19.848	130.338	88.017	130.338	0.000	88.017	0.000	130.336	0.002	88.017	-0.000
42.794	-0.001	5000	19.850	131.148	91.987	131.148	0.000	91.986	0.001	131.146	0.002	91.988	-0.001
44.678	-0.001	5200	19.852	131.927	95.957	131.926	0.001	95.956	0.001	131.925	0.002	95.958	-0.001
46.565	-0.000	5400	19.853	132.676	99.928	132.676	0.000	99.927	0.001	132.674	0.002	99.929	-0.001
48.457	-0.001	5600	19.855	133.398	103.899	133.398	0.000	103.898	0.001	133.396	0.002	103.899	0.000
50.352	0.000	5800	19.856	134.095	107.870	134.095	0.000	107.869	0.001	134.093	0.002	107.869	0.001
52.250	0.001	6000	19.857	134.768	111.841	134.768	0.000	111.842	-0.001	134.766	0.002	111.839	0.002

BORON TRIIODIDE (G) B 1I 3
 MOL. WT. = 391.520 BLOCK = 2521 NO. POINT = 62
 DATA FROM 0 TO 6000 K BFORM(KCAL/(MOLE)) = 17.000 KEY = 506
 FITS FOR NOTS RMS = 0.003249

1264

1 5 3 53 0 0 0 0 0 0 0 BORON TRIIODIDE (G) 10J1264 506
 1.9821395E+1+3.5822592E-2-9.1073624E-3+7.7468808E-4 400 6000 11J1264 506
 1.5250854E-1+9.9795074E+0+1.0553356E+2+1.7000000E+1BI3(G) 12J1264 506

FITS FOR EST RMS LOW = 0.001772 RMS HIGH = 0.005878
 1 5 3 53 0 0 0 0 0 0 0 BORON TRIIODIDE (G) 10BI3
 170000+5+526557+5+198341+2+122270-4-351552+6+127401+3 4003000J126411BI3
 170000+5+526594+5+200005+2-186217-4-123136+7+127401+330006000J126412BI3

DH

KC/M

-0.025
 0.007
 0.005
 0.002
 -0.001
 -0.001
 -0.001
 -0.001
 -0.001
 -0.000
 0.000
 0.001
 0.001
 0.001
 0.000
 -0.001
 -0.004
 -0.001
 0.001
 0.002
 0.002
 0.002
 0.001
 0.001
 0.001
 -0.000
 -0.001
 -0.001
 -0.001
 0.000
 0.001
 0.002

-----NOTS-----

-----EST-----

T	CP	S	H	SC	ES	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	17.922	88.447	1.779	88.487	-0.040	1.792	-0.013	88.485	-0.038	1.795	-0.016	40
600	18.878	95.924	5.474	95.918	0.006	5.466	0.008	95.919	0.005	5.470	0.004	60
800	19.283	101.418	9.295	101.412	0.006	9.287	0.008	101.414	0.004	9.292	0.003	80
1000	19.486	105.745	13.174	105.741	0.004	13.168	0.006	105.744	0.001	13.173	0.001	100
1200	19.601	109.309	17.083	109.307	0.002	17.080	0.003	109.309	0.000	17.084	-0.001	120
1400	19.671	112.336	21.011	112.335	0.001	21.009	0.002	112.336	-0.000	21.012	-0.001	140
1600	19.717	114.966	24.950	114.965	0.001	24.949	0.001	114.966	-0.000	24.951	-0.001	160
1800	19.750	117.291	28.897	117.290	0.001	28.896	0.001	117.290	0.001	28.898	-0.001	180
2000	19.773	119.373	32.850	119.372	0.001	32.849	0.001	119.372	0.001	32.850	0.000	200
2200	19.790	121.258	36.806	121.258	0.000	36.806	0.000	121.257	0.001	36.806	0.000	220
2400	19.803	122.980	40.765	122.980	-0.000	40.765	-0.000	122.980	0.000	40.765	0.000	240
2600	19.813	124.566	44.727	124.566	-0.000	44.727	-0.000	124.565	0.001	44.726	0.001	260
2800	19.821	126.035	48.690	126.035	0.000	48.691	-0.001	126.034	0.001	48.690	-0.000	280
3000	19.828	127.402	52.655	127.403	-0.001	52.656	-0.001	127.402	0.000	52.656	-0.001	300
3200	19.828	127.402	52.655	127.403	-0.001	52.656	-0.001	127.402	0.000	52.659	-0.004	300
3400	19.833	128.682	56.621	128.682	-0.001	56.622	-0.001	128.681	0.001	56.622	-0.001	320
3600	19.838	129.885	60.589	129.885	-0.000	60.590	-0.001	129.883	0.002	60.588	0.001	340
3800	19.842	131.019	64.557	131.019	-0.000	64.557	-0.000	131.016	0.003	64.554	0.003	360
4000	19.845	132.092	68.525	132.092	0.000	68.526	-0.001	132.089	0.003	68.523	0.002	380
4200	19.847	133.110	72.494	133.110	0.000	72.495	-0.001	133.107	0.003	72.492	0.002	400
4400	19.850	134.078	76.464	134.078	-0.000	76.465	-0.001	134.076	0.002	76.462	0.002	420
4600	19.852	135.001	80.434	135.002	-0.001	80.434	-0.000	134.999	0.002	80.433	0.001	440
4800	19.854	135.884	84.405	135.884	0.000	84.405	0.000	135.882	0.002	84.404	0.001	460
5000	19.855	136.729	88.376	136.729	0.000	88.375	0.001	136.727	0.002	88.376	0.000	480
5200	19.856	137.539	92.347	137.539	-0.000	92.346	0.001	137.538	0.001	92.347	-0.000	500
5400	19.858	138.318	96.318	138.318	-0.000	96.318	0.000	138.317	0.001	96.319	-0.001	520
5600	19.859	139.068	100.290	139.068	0.000	100.289	0.001	139.066	0.002	100.291	-0.001	540
5800	19.860	139.790	104.262	139.790	0.000	104.261	0.001	139.788	0.002	104.262	-0.000	560
6000	19.861	140.487	108.234	140.487	0.000	108.234	0.000	140.485	0.002	108.233	0.001	580
6200	19.861	141.160	112.206	141.160	-0.000	112.207	-0.001	141.158	0.002	112.204	0.001	600

BERYLLIUM MONOBROMIDE

(G)

BE 1BR 1

964

MOL. WT. = 88.920

BLOCK = 2527

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 8.800 KEY = 507

FITS FOR NOTS RMS = 0.001695

1 4 1 35 0 0 0 0 0 0 0 BERYLLIUM MONOBROMIDE (G) 10J 964 507
 +8.9096374E+0+1.0511791E-1-5.5924728E-3+4.6266079E-4 400 6000 11J 964 507
 -1.6078186E-1+5.6411857E+0+6.4807922E+1+8.7999992E+0BEBR (G) 12J 964 507

FITS FOR EST RMS LOW = 0.001200 RMS HIGH = 0.002986

1 4 1 35 0 0 0 0 0 0 0 BERYLLIUM MONOBROMIDE (G) 10BEBR
 +879999+4+240556+5+892041+1+895510-4-161392+6+748989+2 4003000J 96411BEBR
 +879999+4+240575+5+900389+1+735077-4-584048+6+748989+230006000J 96412BEBR

-----NOTS-----													
-----EST-----													
DB	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.016	400	8.110	57.165	0.807	57.188	-0.023	0.815	-0.008	57.188	-0.023	0.816	-0.009	
0.004	600	8.534	60.546	2.478	60.542	0.004	2.473	0.005	60.542	0.004	2.475	0.003	40
0.003	800	8.733	63.031	4.206	63.028	0.003	4.203	0.003	63.028	0.003	4.204	0.002	50
0.001	1000	8.843	64.993	5.965	64.991	0.002	5.962	0.003	64.992	0.001	5.964	0.001	60
-0.001	1200	8.913	66.612	7.741	66.611	0.001	7.739	0.002	66.611	0.001	7.741	-0.000	70
-0.001	1400	8.963	67.990	9.529	67.989	0.001	9.528	0.001	67.989	0.001	9.529	-0.000	80
-0.001	1600	9.001	69.189	11.325	69.189	0.000	11.325	0.000	69.189	0.000	11.326	-0.001	90
-0.001	1800	9.033	70.251	13.129	70.251	0.000	13.128	0.001	70.251	0.000	13.129	-0.000	100
0.000	2000	9.060	71.204	14.938	71.204	0.000	14.938	-0.000	71.204	0.000	14.938	-0.000	110
0.000	2200	9.085	72.069	16.753	72.069	0.000	16.753	0.000	72.068	0.001	16.753	0.000	120
0.000	2400	9.107	72.860	18.572	72.860	-0.000	18.572	-0.000	72.860	0.000	18.572	0.000	130
0.001	2600	9.129	73.590	20.396	73.590	-0.000	20.396	0.000	73.590	0.000	20.395	0.001	140
-0.000	2800	9.149	74.267	22.224	74.267	-0.000	22.224	0.000	74.267	0.000	22.223	0.001	150
-0.001	3000	9.169	74.899	24.055	74.899	-0.000	24.056	-0.001	74.899	0.000	24.056	-0.001	
-0.004	3000	9.169	74.899	24.055	74.899	-0.000	24.056	-0.001	74.899	0.000	24.058	-0.003	
-0.001	3200	9.188	75.492	25.891	75.492	0.000	25.891	-0.000	75.491	0.001	25.892	-0.001	
0.001	3400	9.207	76.049	27.730	76.049	-0.000	27.731	-0.001	76.048	0.001	27.730	-0.000	
0.003	3600	9.225	76.576	29.574	76.576	-0.000	29.574	-0.000	76.575	0.001	29.573	0.001	
0.002	3800	9.243	77.075	31.420	77.075	-0.000	31.421	-0.001	77.074	0.001	31.420	0.000	
0.002	4000	9.261	77.550	33.271	77.550	0.000	33.271	-0.000	77.549	0.001	33.270	0.001	
0.002	4200	9.278	78.002	35.125	78.002	-0.000	35.125	0.000	78.001	0.001	35.124	0.001	
0.001	4400	9.296	78.434	36.982	78.434	-0.000	36.982	-0.000	78.433	0.001	36.982	0.000	
0.001	4600	9.313	78.848	38.843	78.848	0.000	38.843	0.000	78.847	0.001	38.843	0.000	
0.000	4800	9.330	79.244	40.707	79.244	-0.000	40.707	-0.000	79.243	0.001	40.708	-0.001	
-0.000	5000	9.347	79.626	42.575	79.626	0.000	42.575	0.000	79.625	0.001	42.575	-0.000	
-0.001	5200	9.365	79.993	44.446	79.993	0.000	44.446	0.000	79.992	0.001	44.447	-0.001	
-0.001	5400	9.382	80.346	46.321	80.346	-0.000	46.320	0.001	80.345	0.001	46.321	-0.000	
-0.000	5600	9.399	80.688	48.199	80.688	0.000	48.198	0.001	80.687	0.001	48.199	-0.000	
0.001	5800	9.415	81.018	50.080	81.018	0.000	50.080	-0.000	81.017	0.001	50.080	-0.000	
0.001	6000	9.432	81.337	51.965	81.337	-0.000	51.965	-0.000	81.336	0.001	51.964	0.001	

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BERYLLIUM DIBROMIDE

(L) BE 1BR 2

665

MOL. WT. = 168.830 BLOCK = 2535 NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -85.880 KEY = 509

FITS FOR NOTS RMS = 0.026964

1 4 2 35 0 0 0 0 0 0 0 BERYLLIUM DIBROMIDE (L) 20J 665 509
 +6.0916473E+1-5.6667449E+1+3.3927734E+1-6.9441795E+0 400 2000 21J 665 509
 -4.1227264E+0-1.1501705E+2+9.5991806E+1-8.5879989E+1BEER2 (L) 22J 665 509

FITS FOR EST RMS LOW = 0.050421 RMS HIGH = 0.050421

1 4 2 35 0 0 0 0 0 0 0 BERYLLIUM DIBROMIDE (L) 20BEER2*
 -858799+5+705779+5+286482+2-818328-3-806032+6+854785+2 4002000J 66521BEER2*
 -858799+5+705779+5+286482+2-818328-3-806032+6+854785+2 4002000J 66522BEER2*

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	18.100	33.176	1.774	32.957	0.219	1.682	0.092	32.357	0.819	1.456	0.318
500	27.000	37.307	3.626	37.631	-0.324	3.788	-0.162	37.761	-0.454	3.881	-0.255
600	27.000	42.230	6.326	42.207	0.023	6.302	0.024	42.410	-0.180	6.432	-0.106
700	27.000	46.392	9.026	46.322	0.070	8.973	0.053	46.447	-0.055	9.052	-0.026
800	27.000	49.997	11.726	49.957	0.040	11.695	0.031	49.998	-0.001	11.711	0.015
900	27.000	53.177	14.426	53.171	0.006	14.424	0.002	53.158	0.019	14.395	0.031
1000	27.000	56.022	17.126	56.035	-0.013	17.142	-0.016	56.000	0.022	17.092	0.034
1100	27.000	58.596	19.826	58.613	-0.017	19.846	-0.020	58.579	0.017	19.798	0.028
1200	27.000	60.945	22.526	60.957	-0.012	22.540	-0.014	60.936	0.009	22.507	0.019
1300	27.000	63.106	25.226	63.110	-0.004	25.230	-0.004	63.106	-0.000	25.218	0.008
1400	27.000	65.107	27.926	65.103	0.004	27.920	0.006	65.115	-0.008	27.928	-0.002
1500	27.000	66.970	30.626	66.963	0.007	30.615	0.011	66.983	-0.013	30.636	-0.010
1600	27.000	68.712	33.326	68.706	0.006	33.317	0.009	68.728	-0.016	33.340	-0.014
1700	27.000	70.349	36.026	70.348	0.001	36.024	0.002	70.365	-0.016	36.041	-0.015
1800	27.000	71.892	38.726	71.896	-0.004	38.733	-0.007	71.906	-0.014	38.736	-0.010
1900	27.000	73.352	41.426	73.357	-0.005	41.435	-0.009	73.360	-0.008	41.426	0.000
2000	27.000	74.737	44.126	74.734	0.003	44.120	0.006	74.737	0.000	44.110	0.016

BERYLLIUM DIBROMIDE

(G)

BE 1BR 2

665

MOL. WT. = 168.830

BLCK = 2537

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -57.300 KEY = 510

FITS FOR NOTS RMS = 0.002713

1 4 2 35 0 0 0 0 0 0 0 BERYLLIUM DIBROMIDE (G) 10J 665 510
 +1.4841236E+1+4.1936576E-2-1.0083712E-2+8.1772636E-4 400 6000 11J 665 510
 -2.4609375E-1-6.2483825E+1+8.3165893E+1-5.7299987E+1BEBR2 (G) 12J 665 510

FITS FOR EST RMS LOW = 0.001846 RMS HIGH = 0.004624

1 4 2 35 0 0 0 0 0 0 0 BERYLLIUM DIBROMIDE (G) 10BEBR2
 -572999+5+395365+5+148603+2+141398-4-247488+6+995719+2 4003000J 66511BEBR2
 -572999+5+395391+5+150079+2-151301-4-972032+6+995719+230006000J 66512BEBR2

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	13.594	70.315	1.358	70.352	-0.037	1.371	-0.013	70.353	-0.038	1.374	-0.016
600	14.194	75.957	4.145	75.950	0.007	4.138	0.007	75.951	0.006	4.141	0.004
800	14.473	80.083	7.015	80.077	0.006	7.009	0.006	80.079	0.004	7.012	0.003
1000	14.617	83.329	9.925	83.326	0.003	9.921	0.004	83.328	0.001	9.924	0.001
1200	14.701	86.002	12.858	86.001	0.001	12.856	0.002	86.002	-0.000	12.858	-0.000
1400	14.753	88.273	15.804	88.272	0.001	15.802	0.002	88.273	-0.000	15.805	-0.001
1600	14.787	90.245	18.758	90.245	0.000	18.757	0.001	90.245	-0.000	18.759	-0.001
1800	14.811	91.988	21.718	91.988	-0.000	21.718	0.000	91.988	-0.000	21.719	-0.001
2000	14.829	93.550	24.682	93.550	0.000	24.682	0.000	93.550	0.000	24.682	-0.000
2200	14.842	94.964	27.649	94.964	0.000	27.649	-0.000	94.963	0.001	27.649	0.000
2400	14.852	96.256	30.619	96.256	0.000	30.619	0.000	96.255	0.001	30.618	0.001
2600	14.859	97.445	33.590	97.445	0.000	33.590	-0.000	97.444	0.001	33.589	0.001
2800	14.866	98.546	36.562	98.546	-0.000	36.563	-0.001	98.546	0.000	36.562	-0.000
3000	14.870	99.572	39.536	99.572	-0.000	39.536	-0.000	99.572	0.000	39.537	-0.001
3000	14.870	99.572	39.536	99.572	-0.000	39.536	-0.000	99.572	0.000	39.539	-0.003
3200	14.875	100.532	42.510	100.532	0.000	42.511	-0.001	100.531	0.001	42.511	-0.001
3400	14.878	101.434	45.486	101.434	0.000	45.486	-0.000	101.432	0.002	45.485	0.001
3600	14.881	102.284	48.461	102.284	-0.000	48.462	-0.001	102.283	0.001	48.460	0.001
3800	14.883	103.089	51.438	103.089	0.000	51.439	-0.001	103.087	0.002	51.436	0.002
4000	14.885	103.852	54.415	103.852	-0.000	54.415	-0.000	103.851	0.001	54.413	0.002
4200	14.887	104.579	57.392	104.579	0.000	57.392	-0.000	104.577	0.002	57.391	0.001
4400	14.889	105.271	60.370	105.271	-0.000	60.370	0.000	105.270	0.001	60.369	0.001
4600	14.890	105.933	63.347	105.933	0.000	63.347	-0.000	105.932	0.001	63.347	-0.000
4800	14.891	106.567	66.325	106.567	0.000	66.325	-0.000	106.566	0.001	66.326	-0.001
5000	14.892	107.175	69.304	107.175	0.000	69.303	0.001	107.174	0.001	69.304	-0.000
5200	14.893	107.759	72.282	107.759	0.000	72.282	0.000	107.758	0.001	72.283	-0.001
5400	14.894	108.321	75.261	108.321	0.000	75.260	0.001	108.320	0.001	75.262	-0.001
5600	14.895	108.862	78.240	108.862	-0.000	78.239	0.001	108.861	0.001	78.240	-0.000
5800	14.895	109.385	81.219	109.385	-0.000	81.219	0.000	109.384	0.001	81.218	0.001
6000	14.896	109.890	84.198	109.890	-0.000	84.198	-0.000	109.889	0.001	84.197	0.001

BERYLLIUM MONOXIDE (G) BE 11 1 964
 MOL. WT. = 135.910 BLOCK = 2543 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 24.700 KEY = 511
 FITS FOR NOTS RMS = 0.001727
 1 4 1 53 0 0 0 0 0 0 0 BERYLLIUM MONOXIDE (G) 10J 964 511
 +8.9212808E+0+1.1231166E-1-4.2880363E-3+3.7658447E-4 400 6000 11J 964 511
 -1.3108825E-1+2.1622985E+1+6.6812057E+1+2.4699996E+1BEI (G) 12J 964 511

FITS FOR EST RMS LOW = 0.000908 RMS HIGH = 0.003082
 1 4 1 53 0 0 0 0 0 0 0 BERYLLIUM MONOXIDE (G) 10BEI
 +246999+5+242047+5+892816+1+100976-3-131408+6+769409+2 4003000J 96411BEI
 +246999+5+242064+5+899993+1+878998-4-518608+6+769409+230006000J 96412BEI

-----NOTS-----												-----EST-----			
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH			
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M			
1	400	8.257	59.077	0.824	59.092	-0.015	0.828	-0.004	59.092	-0.015	0.830	-0.006			
16	600	8.630	62.506	2.518	62.504	0.002	2.514	0.004	62.505	0.001	2.516	0.002			
14	800	8.800	65.015	4.262	65.012	0.003	4.259	0.003	65.013	0.002	4.261	0.001			
13	1000	8.895	66.990	6.033	66.988	0.002	6.030	0.003	66.989	0.001	6.032	0.001			
11	1200	8.956	68.617	7.818	68.616	0.001	7.816	0.002	68.617	0.000	7.818	-0.000			
10	1400	9.002	70.001	9.614	70.001	0.000	9.613	0.001	70.001	-0.000	9.614	-0.000			
11	1600	9.039	71.206	11.418	71.205	0.001	11.417	0.001	71.206	0.000	11.418	-0.000			
11	1800	9.070	72.272	13.229	72.272	-0.000	13.229	0.000	72.272	-0.000	13.229	-0.000			
10	2000	9.098	73.229	15.046	73.229	-0.000	15.046	0.000	73.229	-0.000	15.046	-0.000			
10	2200	9.124	74.098	16.868	74.098	0.000	16.868	-0.000	74.097	0.001	16.868	-0.000			
11	2400	9.148	74.893	18.695	74.893	0.000	18.695	-0.000	74.892	0.001	18.695	-0.000			
11	2600	9.171	75.626	20.527	75.626	0.000	20.527	-0.000	75.625	0.001	20.527	-0.000			
10	2800	9.193	76.306	22.364	76.306	-0.000	22.364	-0.000	76.306	0.000	22.364	0.000			
11	3000	9.215	76.941	24.204	76.941	-0.000	24.205	-0.001	76.941	0.000	24.205	-0.001			
13	3000	9.215	76.941	24.204	76.941	-0.000	24.205	-0.001	76.941	0.000	24.206	-0.002			
11	3200	9.236	77.537	26.050	77.537	0.000	26.050	-0.000	77.536	0.001	26.050	-0.000			
11	3400	9.257	78.097	27.899	78.097	-0.000	27.899	-0.000	78.096	0.001	27.899	0.000			
11	3600	9.278	78.627	29.752	78.627	-0.000	29.753	-0.001	78.626	0.001	29.752	0.000			
12	3800	9.298	79.129	31.610	79.129	-0.000	31.610	-0.000	79.128	0.001	31.609	0.001			
12	4000	9.318	79.606	33.472	79.607	-0.001	33.472	0.000	79.605	0.001	33.471	0.001			
11	4200	9.338	80.062	35.337	80.062	0.000	35.338	-0.001	80.061	0.001	35.337	0.000			
11	4400	9.358	80.496	37.207	80.497	-0.001	37.207	-0.000	80.496	0.000	37.207	0.000			
10	4600	9.378	80.913	39.081	80.913	0.000	39.081	0.000	80.912	0.001	39.081	0.000			
11	4800	9.398	81.312	40.958	81.313	-0.001	40.958	-0.000	81.312	0.000	40.959	-0.001			
10	5000	9.418	81.697	42.840	81.697	0.000	42.840	0.000	81.696	0.001	42.840	-0.000			
11	5200	9.438	82.066	44.725	82.066	-0.000	44.725	-0.000	82.066	0.000	44.726	-0.001			
11	5400	9.457	82.423	46.615	82.423	0.000	46.615	0.000	82.422	0.001	46.615	-0.000			
10	5600	9.477	82.767	48.508	82.767	-0.000	48.508	-0.000	82.766	0.001	48.509	-0.001			
11	5800	9.497	83.100	50.406	83.100	-0.000	50.406	0.000	83.099	0.001	50.406	0.000			
11	6000	9.516	83.422	52.307	83.422	-0.000	52.307	-0.000	83.421	0.001	52.306	0.001			

BERYL
 MOL.
 ATA F.
 ITS F.
 4 2
 .01395
 .09237
 ITS F
 4 2
 5999+
 5999+

T
 K C/
 10 18.
 20 19.
 30 19.
 40 19.
 50 20.
 60 20.
 70 20.
 80 20.
 90 20.
 100 20.
 110 20.
 120 20.
 130 20.
 140 20.
 150 20.

BERYLLIUM DIIODIDE (C) BE 1I 2 665
 MOL. WT.= 262.820 BLOCK= 2550 NO. POINT = 14
 DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -50.600 KEY = 512
 ITS FOR NOTS RMS = 0.000362
 4 2 53 0 0 0 0 0 0 0 BERYLLIUM DIIODIDE (C) 30J 665 512
 .0139572E+1+4.4508159E-1+4.8496681E-1-3.5735940E-1 400 1500 31J 665 512
 .0923748E-1-5.7652313E+1+5.1319183E+1-5.0599990E+1BEI2(C) 32J 665 512

ITS FOR EST RMS LOW = 0.002450 RMS HIGH = 0.002450
 4 2 53 0 0 0 0 0 0 0 BERYLLIUM DIIODIDE (C) 30BEI2\$
 5999+5+550140+5+208227+2-121437-4-415048+6+747108+2 4001500J 66531BEI2\$
 5999+5+550140+5+208227+2-121437-4-415048+6+747108+2 4001500J 66532BEI2\$

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	CP	S	H
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K	C/M-K	KC/M
0	18.500	34.039	1.820	34.041	-0.002	1.820	-0.000	34.061	-0.022	1.828	-0.008	400	18.50		
100	19.200	38.247	3.707	38.246	0.001	3.706	0.001	38.239	0.008	3.702	0.005	500	27.00		
200	19.650	41.790	5.650	41.789	0.001	5.650	-0.000	41.780	0.010	5.645	0.005	600	27.00		
300	19.931	44.841	7.630	44.841	0.000	7.630	-0.000	44.836	0.005	7.628	0.002	700	27.00		
400	20.150	47.517	9.634	47.517	-0.000	9.634	-0.000	47.516	0.001	9.635	-0.001	800	27.00		
500	20.289	49.899	11.657	49.898	0.001	11.656	0.001	49.899	-0.000	11.659	-0.002	900	27.00		
600	20.400	52.042	13.691	52.042	-0.000	13.691	-0.000	52.043	-0.001	13.694	-0.003	1000	27.00		
700	20.484	53.991	15.736	53.991	0.000	15.736	0.000	53.991	0.000	15.737	-0.001	1100	27.00		
800	20.541	55.776	17.787	55.776	0.000	17.787	-0.000	55.774	0.002	17.787	0.000	1200	27.00		
900	20.571	57.421	19.843	57.421	-0.000	19.843	-0.000	57.418	0.003	19.841	0.002	1300	27.00		
1000	20.574	58.946	21.901	58.946	0.000	21.900	0.001	58.943	0.003	21.899	0.002	1400	27.00		
1100	20.550	60.365	23.957	60.365	0.000	23.957	-0.000	60.365	0.000	23.959	-0.002	1500	27.00		
												1600	27.00		
												1700	27.00		
												1800	27.00		
												1900	27.00		
												2000	27.00		

BERYLLIUM
 MOL. 1
 DATA FROM
 FITS FOR
 1 4 2 5:
 +5.9427071
 -3.9423370
 FITS FOR
 1 4 2 5:
 -474459+54
 -474459+54

BERYLLIUM DIIODIDE

(L)

BE 1I 2

665

MOL. WT. = 262.820

BLOCK = 2551

NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -47.446 KEY = 513

FITS FOR NOTS RMS = 0.025789

1 4 2 53 0 0 0 0 0 0 0 BERYLLIUM DIIODIDE (L) 20J 665 513
+5.9427078E+1-5.4172241E+1+3.2429458E+1-6.6366233E+0 400 2000 21J 665 513
-3.9423370E+0-7.5656036E+1+9.8775573E+1-4.7445999E+1BEI2 (L) 22J 665 513

FITS FOR EST RMS LOW = 0.048222 RMS HIGH = 0.048222

1 4 2 53 0 0 0 0 0 0 0 BERYLLIUM DIIODIDE (L) 20BEI2*
-474459+5+706849+5+285763+2-782623-3-770816+6+900305+2 4002000J 66521BEI2*
-474459+5+706849+5+285763+2-782623-3-770816+6+900305+2 4002000J 66522BEI2*

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.008	400	18.500	37.636	1.820	37.427	0.209	1.732	0.088	36.853	0.783	1.516	0.304
0.005	500	27.000	41.850	3.709	42.160	-0.310	3.864	-0.155	42.284	-0.434	3.953	-0.244
0.005	600	27.000	46.772	6.409	46.750	0.022	6.386	0.023	46.945	-0.173	6.510	-0.101
0.002	700	27.000	50.935	9.109	50.868	0.067	9.058	0.051	50.988	-0.053	9.134	-0.025
-0.001	800	27.000	54.540	11.809	54.502	0.038	11.779	0.030	54.541	-0.001	11.795	0.014
-0.002	900	27.000	57.720	14.509	57.714	0.006	14.507	0.002	57.702	0.018	14.479	0.030
-0.003	1000	27.000	60.565	17.209	60.577	-0.012	17.224	-0.015	60.544	0.021	17.177	0.032
-0.001	1100	27.000	63.138	19.909	63.155	-0.017	19.928	-0.019	63.123	0.015	19.882	0.027
0.000	1200	27.000	65.487	22.609	65.499	-0.012	22.623	-0.014	65.480	0.007	22.591	0.018
0.002	1300	27.000	67.649	25.309	67.652	-0.003	25.313	-0.004	67.649	-0.000	25.302	0.007
0.002	1400	27.000	69.649	28.009	69.646	0.003	28.003	0.006	69.657	-0.008	28.011	-0.002
-0.002	1500	27.000	71.512	30.709	71.506	0.006	30.699	0.010	71.525	-0.013	30.719	-0.010
	1600	27.000	73.255	33.409	73.249	0.006	33.400	0.009	73.271	-0.016	33.423	-0.014
	1700	27.000	74.892	36.109	74.890	0.002	36.107	0.002	74.908	-0.016	36.123	-0.014
	1800	27.000	76.435	38.809	76.438	-0.003	38.816	-0.007	76.448	-0.013	38.819	-0.010
	1900	27.000	77.895	41.509	77.899	-0.004	41.518	-0.009	77.903	-0.008	41.509	0.000
	2000	27.000	79.280	44.209	79.277	0.003	44.203	0.006	79.280	0.000	44.194	0.015

665

1 4 2 53 0 0 0 0 0 0 0 BERYLLIUM DIIODIDE	(G)	10J	665	514
+1.4876436E+1+1.9485369E-2-5.0085447E-3+4.3038208E-4 400 6000		11J	665	514
-1.9462585E-1-2.5340179E+1+8.7487365E+1-2.0299987E+1BEI2 (G)		12J	665	514

1	4	2	53	0	0	0	0	0	0	BERYLLIUM DIODIDE	(G) 10BEI2
-202999+5+397052+5+148767+2+915154-5-190560+6+103880+3	4003000J	665118EI2									
-202999+5+397082+5+150202+2-169469-4-968960+6+103880+3	300006000J	665128EI2									

DH KC/H	NOTS						EST						
	T K	CP C/H-K	S C/H-K	H KC/H	SC C/H-K	DS C/H-K	HC KC/H	DH KC/H	SC C/H-K	DS C/H-K	HC KC/H	DH KC/H	
0.304	400	13.862	74.444	1.389	74.472	-0.028	1.398	-0.009	74.467	-0.023	1.398	-0.009	4
-0.244	600	14.360	80.173	4.218	80.169	0.004	4.213	0.005	80.170	0.003	4.216	0.002	6
-0.101	800	14.579	84.338	7.115	84.334	0.004	7.110	0.005	84.336	0.002	7.113	0.002	8
-0.025	1000	14.690	87.605	10.043	87.602	0.003	10.039	0.004	87.604	0.001	10.042	0.001	10
0.014	1200	14.753	90.289	12.988	90.287	0.002	12.985	0.003	90.289	0.000	12.988	0.000	12
0.030	1400	14.792	92.566	15.942	92.565	0.001	15.941	-0.001	92.566	-0.000	15.943	-0.001	14
0.032	1600	14.818	94.543	18.904	94.543	0.000	18.902	0.001	94.543	-0.000	18.904	0.000	16
0.027	1800	14.836	96.290	21.869	96.289	0.001	21.868	0.001	96.289	0.001	21.869	-0.000	18
0.018	2000	14.849	97.854	24.837	97.853	0.001	24.837	-0.000	97.853	0.001	24.837	-0.000	20
0.007	2200	14.858	99.269	27.808	99.269	-0.000	27.808	-0.000	99.269	0.000	27.808	0.000	22
-0.002	2400	14.866	100.562	30.781	100.562	-0.000	30.781	0.000	100.562	0.000	30.780	0.001	24
-0.010	2600	14.871	101.753	33.754	101.753	0.000	33.755	-0.001	101.752	0.001	33.754	-0.000	26
-0.014	2800	14.876	102.855	36.729	102.855	0.000	36.730	-0.001	102.854	0.001	36.729	-0.000	28
-0.014	3000	14.879	103.881	39.705	103.881	-0.000	39.705	-0.000	103.881	0.000	39.705	-0.000	30
-0.010	3000	14.879	103.881	39.705	103.881	-0.000	39.705	-0.000	103.881	0.000	39.708	-0.003	30
0.000	3200	14.882	104.842	42.681	104.842	0.000	42.682	-0.001	104.840	0.002	42.682	-0.001	32
0.015	3400	14.885	105.744	45.657	105.744	-0.000	45.658	-0.001	105.742	0.002	45.657	0.000	34
	3600	14.887	106.595	48.635	106.595	0.000	48.635	-0.000	106.593	0.002	48.633	0.002	36
	3800	14.889	107.400	51.612	107.400	0.000	51.613	-0.001	107.398	0.002	51.610	0.002	38
	4000	14.890	108.163	54.590	108.164	-0.001	54.591	-0.001	108.162	0.001	54.588	0.002	40
	4200	14.892	108.890	57.568	108.890	-0.000	57.569	-0.001	108.888	0.002	57.567	0.001	42
	4400	14.893	109.583	60.547	109.583	0.000	60.547	-0.000	109.581	0.002	60.546	0.001	44
	4600	14.894	110.245	63.526	110.245	0.000	63.526	0.000	110.243	0.002	63.525	0.001	46
	4800	14.895	110.879	66.504	110.879	0.000	66.504	-0.000	110.877	0.002	66.505	-0.001	48
	5000	14.895	111.487	69.483	111.487	0.000	69.483	-0.000	111.485	0.002	69.484	-0.001	50
	5200	14.896	112.071	72.463	112.071	0.000	72.462	0.001	112.070	0.001	72.463	-0.000	52
	5400	14.897	112.633	75.442	112.633	-0.000	75.441</						

MERCURY MONOBROMIDE

(G)

BR 1HG 1

1261

MOL. WT.= 280.490

BLOCK= 2559

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 24.900 KEY = 515

FITS FOR NOTS RMS = 0.001707

1 35 1 80 0 0 0 0 0 0 0 MERCURY MONOBROMIDE (G) 10J1261 515
+8.9471702E+0+2.7037763E-1-7.4684852E-4+1.1835509E-4 400 6000 11J1261 515
-1.4251708E-2+2.2173324E+1+7.5548446E+1+2.4899993E+1BRHG (G) 12J1261 515

FITS FOR EST RMS LOW = 0.000492 RMS HIGH = 0.003263

1 35 1 80 0 0 0 0 0 0 0 MERCURY MONOBROMIDE (G) 10BRHG
+248999+5+253309+5+894710+1+268685-3-141760+5+861869+2 4003000J126111BRHG
+248999+5+253334+5+900286+1+261811-3-404016+6+861869+230006000J126112BRHG

-----NOTS-----

-----EST-----

I	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
:/M	K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H
009	400	8.978	67.502	0.910	67.503	-0.001	0.909	0.001	67.504	-0.002	0.912	-0.002
002	600	9.072	71.161	2.716	71.160	0.001	2.714	0.002	71.161	-0.000	2.716	-0.000
002	800	9.140	73.781	4.538	73.779	0.002	4.535	0.003	73.780	0.001	4.537	0.001
001	1000	9.201	75.827	6.372	75.826	0.001	6.370	0.002	75.826	0.001	6.371	0.001
000	1200	9.259	77.510	8.218	77.509	0.001	8.216	0.002	77.509	0.001	8.218	0.000
001	1400	9.315	78.941	10.075	78.940	0.001	10.074	0.001	78.941	0.000	10.075	-0.000
000	1600	9.371	80.189	11.944	80.188	0.001	11.943	0.001	80.189	0.000	11.944	-0.000
000	1800	9.426	81.296	13.824	81.295	0.001	13.823	0.001	81.296	0.000	13.824	0.000
000	2000	9.481	82.291	15.714	82.292	-0.001	15.714	-0.000	82.292	-0.001	15.715	-0.001
000	2200	9.535	83.198	17.616	83.198	0.000	17.616	0.000	83.198	0.000	17.616	-0.000
001	2400	9.590	84.030	19.529	84.030	0.000	19.529	0.000	84.030	0.000	19.529	0.000
000	2600	9.644	84.799	21.452	84.800	-0.001	21.452	-0.000	84.799	-0.000	21.452	0.000
000	2800	9.699	85.516	23.386	85.517	-0.001	23.387	-0.001	85.516	-0.000	23.386	-0.000
000	3000	9.753	86.187	25.331	86.188	-0.001	25.332	-0.001	86.187	0.000	25.331	0.000
003	3000	9.753	86.187	25.331	86.188	-0.001	25.332	-0.001	86.187	0.000	25.333	-0.002
001	3200	9.807	86.818	27.287	86.819	-0.001	27.288	-0.001	86.818	0.000	27.288	-0.001
000	3400	9.861	87.414	29.254	87.415	-0.001	29.255	-0.001	87.414	0.000	29.254	0.000
002	3600	9.916	87.980	31.232	87.980	-0.000	31.232	-0.000	87.979	0.001	31.231	0.001
002	3800	9.970	88.517	33.221	88.518	-0.001	33.221	0.000	88.516	0.001	33.219	0.002
002	4000	10.024	89.030	35.220	89.030	-0.000	35.220	-0.000	89.029	0.001	35.219	0.001
001	4200	10.078	89.520	37.230	89.521	-0.001	37.230	-0.000	89.519	0.001	37.229	0.001
001	4400	10.132	89.990	39.251	89.991	-0.001	39.251	-0.000	89.990	0.000	39.251	0.000
001	4600	10.187	90.442	41.283	90.442	-0.000	41.283	0.000	90.441	0.001	41.283	0.000
001	4800	10.241	90.877	43.326	90.877	0.000	43.326	0.000	90.876	0.001	43.326	0.000
001	5000	10.295	91.296	45.380	91.296	-0.000	45.379	0.001	91.295	0.001	45.380	0.000
000	5200	10.349	91.701	47.444	91.701	0.000	47.443	0.001	91.700	0.001	47.444	-0.000
000	5400	10.403	92.092	49.519	92.093	-0.001	49.519	0.000	92.092	0.000	49.519	-0.000
000	5600	10.457	92.472	51.605	92.472	0.000	51.605	0.000	92.471	0.001	51.605	-0.000
001	5800	10.511	92.840	53.702	92.840	0.000	53.702	0.000	92.839	0.001	53.702	0.000
001	6000	10.566	93.197	55.810	93.197	-0.000	55.810	-0.000	93.196	0.001	55.809	0.001

POT
NO
ATA
FITS
19
452
769

FITS
19
4119
4119

T
K
100 1
500 1
700 1
700 1
800 1
900 1
900 1
1000 1
1200 1
1300 1
1400 1
1500 2

POTASSIUM BROMIDE (C) BR 1K 1 0 0 0 0 367
 MOL. WT.= 119.010 BLOCK= 2566 NO. POINT = 17
 ATA FROM 0 TO 1500 K HFORM(KCAL/(MOLE)) = -94.120 KEY = 516
 FITS FOR NOTS RMS = 0.004882

19 1 35 0 0 0 0 0 0 0 POTASSIUM BROMIDE (C) 30J 367 516
 .4520721E+1-6.4321075E+1+6.8014663E+1-2.1033645E+1 400 1500 31J 367 516
 .7695980E-1-1.0500221E+2+7.6274002E+1-9.4119995E+1BRK(C) 32J 367 516

FITS FOR EST RMS LOW = 0.024658 RMS HIGH = 0.024658
 19 1 35 0 0 0 0 0 0 0 POTASSIUM BROMIDE (C) 30BRK\$
 41199+5+601521+5+694272+1+906188-2+333010+6+652996+2 4001500J 36731BRK\$
 41199+5+601521+5+694272+1+906188-2+333010+6+652996+2 4001500J 36732BRK\$

-----		-----NOTS-----								-----EST-----			
DH		T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M		K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
2	-0.002	400	12.860	26.655	1.292	26.648	0.007	1.289	0.003	26.728	-0.073	1.326	-0.034
6	-0.000	500	13.205	29.558	2.593	29.565	-0.007	2.597	-0.004	29.558	0.000	2.595	-0.002
7	0.001	600	13.470	31.988	3.927	31.994	-0.006	3.930	-0.003	31.933	0.055	3.898	0.029
1	0.001	700	13.883	34.094	5.293	34.090	0.004	5.290	0.003	34.032	0.062	5.261	0.032
8	0.000	800	14.440	35.981	6.708	35.974	0.007	6.702	0.006	35.945	0.036	6.694	0.014
5	-0.000	900	15.222	37.725	8.188	37.724	0.001	8.188	-0.000	37.724	0.001	8.205	-0.017
4	-0.000	1000	16.255	39.380	9.760	39.388	-0.008	9.768	-0.008	39.400	-0.021	9.797	-0.037
4	0.000	1100	17.460	40.987	11.448	40.990	-0.003	11.451	-0.003	40.997	-0.010	11.473	-0.025
5	-0.001	1200	18.370	42.547	13.241	42.542	0.005	13.235	0.006	42.530	0.017	13.235	0.006
6	-0.000	1300	19.030	44.045	15.113	44.042	0.003	15.109	0.004	44.009	0.036	15.083	0.030
9	0.000	1400	19.550	45.474	17.042	45.479	-0.005	17.049	-0.007	45.443	0.031	17.019	0.023
2	0.000	1500	20.000	46.839	19.020	46.838	0.001	19.018	0.002	46.839	0.000	19.043	-0.023
6	-0.000												
1	0.000												
3	-0.002												
8	-0.001												
4	0.000												
1	0.001												
9	0.002												
9	0.001												
9	0.001												
1	0.000												
3	0.000												
6	0.000												
0	0.000												
4	-0.000												
9	-0.000												
5	-0.000												
2	0.000												
9	0.001												

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POTASSIUM BROMIDE (L) BR 1K 1 0 0 0 0 367

MOL. WT. = 119.010 BLOCK = 2568 NO. POINT = 24

DATA FROM 298 TO 2500 K HFORM(KCAL/(MOLE)) = -89.984 KEY = 517

FITS FOR NOTS RMS = 0.000917

1 19 1 35 0 0 0 0 0 0 0 POTASSIUM BROMIDE (L) 20J 367 517
+1.6629196E+1+1.5427350E-1-1.0669225E-1+2.3092433E-2 400 2500 21J 367 517
+4.0283203E-3-9.4935867E+1+4.5327804E+1-8.9983993E+1BRK(L) 22J 367 517

FITS FOR EST RMS LOW = 0.000160 RMS HIGH = 0.000160

1 19 1 35 0 0 0 0 0 0 0 POTASSIUM BROMIDE (L) 20BRK*
-899839+5+451205+5+167028+2-120123-5-153600+4+637816+2 4002500J 36721BRK*
-899839+5+451205+5+167028+2-120123-5-153600+4+637816+2 4002500J 36722BRK*

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.034	400	16.700	30.133	1.701	30.132	0.001	1.700	0.001	30.135	-0.002	1.702	-0.001
-0.002	500	16.700	33.859	3.371	33.858	0.001	3.370	0.001	33.860	-0.001	3.371	-0.000
0.029	600	16.700	36.904	5.041	36.903	0.001	5.040	0.001	36.904	-0.000	5.041	-0.000
0.032	700	16.700	39.478	6.711	39.477	0.001	6.710	0.001	39.478	-0.000	6.711	0.000
0.014	800	16.700	41.708	8.381	41.707	0.001	8.380	0.001	41.708	-0.000	8.381	0.000
-0.017	900	16.700	43.675	10.051	43.674	0.000	10.050	0.001	43.675	-0.000	10.051	0.000
-0.037	1000	16.700	45.435	11.721	45.434	0.001	11.721	0.000	45.435	0.000	11.721	0.000
-0.025	1100	16.700	47.026	13.391	47.026	-0.000	13.391	-0.000	47.026	-0.000	13.391	0.000
0.006	1200	16.700	48.479	15.061	48.480	-0.001	15.061	-0.000	48.480	-0.001	15.061	0.000
0.030	1300	16.700	49.816	16.731	49.817	-0.001	16.732	-0.001	49.816	-0.000	16.731	0.000
0.023	1400	16.700	51.054	18.401	51.055	-0.001	18.402	-0.001	51.054	0.000	18.401	0.000
-0.023	1500	16.700	52.206	20.071	52.207	-0.001	20.072	-0.001	52.206	-0.000	20.071	0.000
	1600	16.700	53.284	21.741	53.285	-0.001	21.742	-0.001	53.284	0.000	21.741	0.000
	1700	16.700	54.296	23.411	54.297	-0.001	23.412	-0.001	54.296	-0.000	23.411	0.000
	1800	16.700	55.251	25.081	55.251	-0.000	25.081	-0.001	55.251	0.000	25.081	0.000
	1900	16.700	56.154	26.751	56.154	-0.000	26.751	-0.000	56.154	0.000	26.751	-0.000
	2000	16.700	57.010	28.421	57.011	-0.001	28.421	0.000	57.010	-0.000	28.421	-0.000
	2100	16.700	57.825	30.091	57.825	-0.000	30.091	0.000	57.825	-0.000	30.091	-0.000
	2200	16.700	58.602	31.761	58.602	0.000	31.760	0.001	58.602	-0.000	31.761	-0.000
	2300	16.700	59.344	33.431	59.344	-0.000	33.430	0.001	59.344	-0.001	33.431	0.000
	2400	16.700	60.055	35.101	60.055	-0.000	35.101	0.000	60.055	-0.000	35.101	0.000
	2500	16.700	60.737	36.771	60.737	-0.000	36.771	-0.000	60.737	0.000	36.771	0.000

67

TITANIUM MONOBROMIDE

(G)

BR 1TI 1 0 0 0 0

668

MOL. WT.= 127.800

BLOCK= 2576

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 50.800 KEY = 519

FITS FOR NOTS RMS = 0.007594

518 1 22 1 35 0 0 0 0 0 0 0 TITANIUM MONOBROMIDE

(G) 10J 668 519

518 +9.9520263E+0+4.9551296E-1-8.5926115E-2+5.8424361E-3 400 6000

11J 668 519

518 +4.1244506E-2+4.7770523E+1+7.3819015E+1+5.0799987E+1BRTI (G)

12J 668 519

FITS FOR EST RMS LOW = 0.005603 RMS HIGH = 0.004502

1 22 1 35 0 0 0 0 0 0 0 TITANIUM MONOBROMIDE

(G) 10BRTI

+507999+5+283843+5+102981+2+180478-3-479040+5+858999+2 4003000J 66811BRTI

+507999+5+283856+5+107493+2+600807-4-868784+6+858999+230006000J 66812BRTI

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
905 -0.001	400	9.601	64.920	0.953	64.763	0.157	0.886	0.067	64.828	0.092	0.915	0.038	
698 -0.000	600	10.194	68.943	2.941	68.960	-0.017	2.956	-0.015	68.956	-0.013	2.953	-0.012	
506 0.000	800	10.411	71.911	5.005	71.936	-0.025	5.025	-0.020	71.926	-0.015	5.018	-0.013	
324 -0.000	1000	10.475	74.242	7.095	74.253	-0.011	7.102	-0.007	74.247	-0.005	7.098	-0.003	
151 0.001	1200	10.500	76.154	9.193	76.155	-0.001	9.189	0.004	76.153	0.001	9.189	0.004	
987 -0.000	1400	10.524	77.775	11.295	77.772	0.003	11.287	0.008	77.772	0.003	11.290	0.005	
831 0.000	1600	10.557	79.182	13.403	79.179	0.003	13.395	0.008	79.180	0.002	13.400	0.003	
682 -0.000	1800	10.596	80.428	15.518	80.426	0.002	15.512	0.006	80.428	0.000	15.517	0.001	
541 -0.000	2000	10.640	81.546	17.642	81.547	-0.001	17.639	0.003	81.547	-0.001	17.643	-0.001	
408 -0.000	2200	10.684	82.563	19.775	82.564	-0.001	19.775	0.000	82.564	-0.001	19.776	-0.001	
283 0.000	2400	10.727	83.494	21.916	83.497	-0.003	21.918	-0.002	83.495	-0.001	21.917	-0.001	
165 -0.000	2600	10.766	84.354	24.065	84.357	-0.003	24.068	-0.003	84.355	-0.001	24.065	-0.000	
055 0.000	2800	10.801	85.153	26.222	85.157	-0.004	26.225	-0.003	85.154	-0.001	26.221	0.001	
952 -0.000	3000	10.831	85.900	28.365	85.903	-0.003	28.388	-0.003	85.900	0.000	28.384	0.001	
955 -0.003	3000	10.831	85.900	28.365	85.903	-0.003	28.388	-0.003	85.900	0.000	28.386	-0.001	
858 -0.001	3200	10.858	86.599	30.554	86.602	-0.003	30.556	-0.002	86.600	-0.001	30.555	-0.001	
769 0.001	3400	10.881	87.258	32.728	87.261	-0.003	32.729	-0.001	87.259	-0.001	32.728	-0.000	
689 0.001	3600	10.902	87.881	34.906	87.883	-0.002	34.906	-0.000	87.881	-0.000	34.906	0.000	
617 0.001	3800	10.920	88.471	37.088	88.473	-0.002	37.088	0.000	88.471	0.000	37.088	0.000	
552 0.001	4000	10.937	89.031	39.274	89.033	-0.002	39.273	0.001	89.031	-0.000	39.273	0.001	
495 0.001	4200	10.952	89.565	41.463	89.567	-0.002	41.462	0.001	89.565	-0.000	41.462	0.001	
446 0.000	4400	10.967	90.075	43.655	90.077	-0.002	43.654	0.001	90.075	-0.000	43.654	0.001	
404 -0.000	4600	10.982	90.563	45.850	90.565	-0.002	45.849	0.001	90.563	-0.000	45.849	0.001	
370 0.000	4800	10.997	91.031	48.048	91.033	-0.002	48.048	0.000	91.031	0.000	48.048	0.000	
343 -0.000	5000	11.012	91.480	50.249	91.482	-0.002	50.249	0.000	91.480	-0.000	50.249	-0.000	
324 -0.001	5200	11.027	91.912	52.453	91.914	-0.002	52.453	-0.000	91.913	-0.001	52.454	-0.001	
312 0.000	5400	11.044	92.329	54.660	92.331	-0.002	54.660	-0.000	92.329	-0.000	54.661	-0.001	
307 -0.000	5600	11.061	92.731	56.870	92.733	-0.002	56.871	-0.001	92.731	-0.000	56.871	-0.001	
310 0.001	5800	11.079	93.119	59.064	93.121	-0.002	59.084	-0.000	93.119	-0.000	59.084	-0.000	
321 0.000	6000	11.098	93.495	61.302	93.497	-0.002	61.301	0.001	93.495	0.000	61.300	0.002	

POTASSIUM BROMIDE, DIMERIC (G) BR 2K 2 0 0 0 0 367
 MOL. WT.= 238.020 BLOCK= 2583 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -129.200 KEY = 520
 FITS FOR NOTS RMS = 0.003054
 19 2 35 0 0 0 0 0 0 0 POTASSIUM BROMIDE, DIMERIC (G) 10J 367 520
 1.9879394E+1+1.3814787E-3-2.0336529E-3+2.8512813E-4 400 6000 11J 367 520
 1.4973144E-2-1.3524057E+2+1.1378015E+2-1.2919999E+2BR2K2(G) 12J 367 520

FITS FOR EST RMS LOW = 0.000568 RMS HIGH = 0.005942
 19 2 35 0 0 0 0 0 0 0 POTASSIUM BROMIDE, DIMERIC (G) 10BR2K2
 129199+6+536018+5+198738+2-675114-6-312960+5+135618+3 4003000J 36711BR2K2
 129199+6+536057+5+199949+2-178978-4-831232+6+135618+330006000J 36712BR2K2

DH	-----NOTS-----												-----EST-----				T
KC/M	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		T			
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		K			
0.038	100	19.689	95.669	1.999	95.675	-0.006	1.999	0.000	95.673	-0.004	2.001	-0.002		40			
-0.012	200	19.790	103.676	5.949	103.674	0.002	5.945	0.004	103.677	-0.001	5.949	-0.000		50			
-0.013	300	19.826	109.375	9.911	109.372	0.003	9.907	0.004	109.375	0.000	9.911	-0.000		60			
-0.003	400	19.842	113.801	13.878	113.798	0.003	13.874	0.004	113.801	0.000	13.876	0.000		70			
0.004	500	19.851	117.419	17.848	117.417	0.002	17.844	0.004	117.419	-0.000	17.847	0.001		80			
0.005	600	19.857	120.480	21.818	120.478	0.002	21.815	0.003	120.480	0.000	21.818	-0.000		90			
0.003	700	19.860	123.131	25.790	123.130	0.001	25.788	0.002	123.131	-0.000	25.790	0.000		100			
0.001	800	19.863	125.471	29.762	125.470	0.001	29.761	0.001	125.471	0.000	29.762	-0.000		110			
-0.001	900	19.864	127.563	33.735	127.563	-0.000	33.734	0.001	127.564	-0.001	33.735	0.000		120			
-0.001	1000	19.866	129.457	37.708	129.457	0.000	37.708	0.000	129.457	-0.000	37.708	-0.000		130			
-0.000	1100	19.867	131.185	41.681	131.186	-0.001	41.681	-0.000	131.186	-0.001	41.681	-0.000		140			
0.001	1200	19.867	132.776	45.655	132.776	-0.000	45.655	-0.000	132.776	0.000	45.655	0.000		150			
0.001	1300	19.868	134.248	49.628	134.249	-0.001	49.629	-0.001	134.248	-0.000	49.628	-0.000					
-0.001	1400	19.868	135.619	53.602	135.619	-0.000	53.603	-0.001	135.619	0.000	53.602	0.000					
-0.001	1500	19.868	135.619	53.602	135.619	-0.000	53.603	-0.001	135.619	0.000	53.606	-0.004					
-0.000	1600	19.869	136.901	57.575	136.902	-0.001	57.577	-0.002	136.900	0.001	57.576	-0.001					
0.000	1700	19.869	138.106	61.549	138.106	-0.000	61.550	-0.001	138.104	0.002	61.548	0.001					
0.000	1800	19.869	139.241	65.523	139.242	-0.001	65.524	-0.001	139.240	0.001	65.521	0.002					
0.001	1900	19.870	140.316	69.497	140.316	-0.000	69.498	-0.001	140.314	0.002	69.495	0.002					
0.001	2000	19.870	141.335	73.471	141.335	-0.000	73.472	-0.001	141.333	0.002	73.469	0.002					
0.001	2100	19.870	142.304	77.445	142.305	-0.001	77.445	-0.000	142.303	0.001	77.443	0.002					
0.001	2200	19.870	143.229	81.419	143.229	0.000	81.419	0.000	143.227	0.002	81.418	0.001					
0.000	2300	19.870	144.112	85.393	144.112	-0.000	85.393	0.000	144.110	0.002	85.392	0.001					
-0.000	2400	19.870	144.957	89.367	144.958	-0.001	89.367	0.000	144.956	0.001	89.367	-0.000					
-0.001	2500	19.870	145.769	93.341	145.769	0.000	93.340	0.001	145.768	0.001	93.342	-0.001					
-0.001	2600	19.871	146.548	97.315	146.548	-0.000	97.314	0.001	146.547	0.001	97.316	-0.001					
-0.001	2700	19.871	147.298	101.289	147.298	-0.000	101.289	0.000	147.297	0.001	101.290	-0.001					
-0.000	2800	19.871	148.020	105.263	148.021	-0.001	105.263	0.000	148.019	0.001	105.264	-0.001					
0.002	2900	19.871	148.718	109.238	148.718	-0.000	109.238	0.000	148.717	0.001	109.237	0.001					
	3000	19.871	149.391	113.212	149.392	-0.001	113.212	-0.000	149.390	0.001	113.210	0.002					

TITANIUM TRIBROMIDE (C) BR 3TI 1 0 0 0 0 668
 MOL. WT. = 287.620 BLOCK = 2590 NO. POINT = 17
 DATA FROM 0 TO 1500 K FORM (KCAL/(MOLE)) = -131.500 KEY = 522
 FITS FOR NOTS RMS = 0.009458
 22 3 35 0 0 0 0 0 0 0 TITANIUM TRIBROMIDE (C) 30J 668 522
 .5357360E+0+8.8384521E+1-6.3461425E+1+1.6785781E+1 400 1500 31J 668 522
 .0635681E-1-1.3196542E+2+1.5941822E+1-1.3150000E+2BR3TI (C) 32J 668 522

FITS FOR EST RMS LOW = 0.017617 RMS HIGH = 0.017617
 22 3 35 0 0 0 0 0 0 0 TITANIUM TRIBROMIDE (C) 30BR3TI\$
 31500+6+112810+6+331528+2+654508-2-226324+7+126498+3 4001500J 66831BR3TI\$
 31500+6+112810+6+331528+2+654508-2-226324+7+126498+3 4001500J 66832BR3TI\$

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DH

KC/M

0.001
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 0.000
 0.000
 0.000
 0.000
 0.000

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T			
K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M	K			
400	25.291	49.424	2.516	49.463	-0.039	2.529	-0.013	49.628	-0.204	2.588	-0.072	400			
500	27.416	55.287	5.148	55.232	0.055	5.120	0.028	55.134	0.153	5.066	0.082	500			
600	29.997	60.511	8.017	60.511	0.000	8.020	-0.003	60.450	0.061	7.987	0.030	600			
700	32.794	65.350	11.159	65.385	-0.035	11.185	-0.026	65.381	-0.031	11.188	-0.029	700			
800	35.200	69.900	14.570	69.901	-0.001	14.569	0.001	69.921	-0.021	14.590	-0.020	800			
900	36.300	74.110	18.145	74.092	0.018	18.129	0.016	74.110	0.000	18.148	-0.003	900			
1000	37.446	77.995	21.833	77.988	0.007	21.827	0.006	77.992	0.003	21.833	-0.000	1000			
1100	38.500	81.614	25.631	81.618	-0.004	25.637	-0.006	81.610	0.004	25.630	0.001	1100			
1200	39.463	85.006	29.530	85.012	-0.006	29.538	-0.008	85.000	0.006	29.527	0.003	1200			
1300	40.333	88.199	33.520	88.199	-0.000	33.521	-0.001	88.191	0.008	33.515	0.005	1300			
1400	41.113	91.217	37.594	91.212	0.005	37.586	0.008	91.211	0.006	37.589	0.005	1400			
1500	41.800	94.078	41.740	94.079	-0.001	41.743	-0.003	94.078	0.000	41.746	-0.006	1500			

TITANIUM TETRABROMIDE (C) BR 4TI 1 0 0 0 0 668
 MOL. WT.= 367.530 BLOCK= 2592 NO. POINT = 17
 DATA FROM 0 TO 1500 K HFORM(KCAL/(MOLE)) = -147.700 KEY = 523
 FITS FOR NOTS RMS = 0.000278
 1 22 4 35 0 0 0 0 0 0 0 TITANIUM TETRABROMIDE (C) 30J 668 523
 +3.2017974E+1-8.8371872E-2+6.4420461E-2-1.6856580E-2 400 1500 31J 668 523
 -3.2196044E-3-1.5725668E+2+9.6969406E+1-1.4769999E+2BR4TI (C) 32J 668 523

FITS FOR EST RMS LOW = 0.000306 RMS HIGH = 0.000306
 1 22 4 35 0 0 0 0 0 0 0 TITANIUM TETRABROMIDE (C) 30BR4TI\$
 -147699+6+863671+5+319927+2-132097-4-432000+4+132028+3 4001500J 66831BR4TI\$
 -147699+6+863671+5+319927+2-132097-4-432000+4+132028+3 4001500J 66832BR4TI\$

M	-----NOTS-----								-----EST-----				
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
	K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M	
72	400	31.974	67.612	3.253	67.611	0.001	3.253	0.000	67.613	-0.001	3.254	-0.001	
82	500	31.974	74.746	6.450	74.746	0.000	6.450	-0.000	74.746	-0.000	6.450	-0.000	
30	600	31.974	80.576	9.648	80.576	0.000	9.648	0.000	80.575	0.001	9.647	0.001	
29	700	31.974	85.505	12.845	85.505	0.000	12.845	-0.000	85.504	0.001	12.845	0.000	
20	800	31.974	89.774	16.043	89.774	-0.000	16.043	0.000	89.774	0.000	16.042	0.001	
03	900	31.974	93.540	19.240	93.540	-0.000	19.240	-0.000	93.540	0.000	19.240	0.000	
00	1000	31.974	96.909	22.437	96.909	-0.000	22.438	-0.001	96.909	0.000	22.437	-0.000	
01	1100	31.974	99.956	25.635	99.957	-0.001	25.635	0.000	99.956	-0.000	25.635	0.000	
03	1200	31.974	102.739	28.832	102.739	0.000	28.832	-0.000	102.738	0.001	28.832	-0.000	
05	1300	31.974	105.298	32.030	105.298	0.000	32.030	0.000	105.298	0.000	32.030	0.000	
05	1400	31.974	107.667	35.227	107.667	-0.000	35.227	0.000	107.667	-0.000	35.227	0.000	
06	1500	31.974	109.873	38.424	109.873	-0.000	38.424	-0.000	109.873	0.000	38.424	0.000	

TITANIUM TETRABROMIDE (L) BR 4TI 1 0 0 0 0 668
 MOL. WT. = 367.530 BLOCK = 2594 NO. POINT = 14
 DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -144.681 KEY = 524
 FITS FOR NOTS RMS = 0.000208
 1 22 4 35 0 0 0 0 0 0 0 TITANIUM TETRABROMIDE (L) 20J 668 524
 +3.5976699E+1+8.1054043E-1-7.2003096E-1+2.1576422E-1 400 1500 21J 668 524
 +1.7440795E-2-1.5538209E+2+1.1133306E+2-1.4468099E+2BR4TI(L) 22J 668 524

FITS FOR EST RMS LOW = 0.000165 RMS HIGH = 0.000165
 1 22 4 35 0 0 0 0 0 0 0 TITANIUM TETRABROMIDE (L) 20BR4TI*
 -144680+6+980666+5+363129+2-848205-5-345600+4+151721+3 4001500J 66821BR4TI*
 -144680+6+980666+5+363129+2-848205-5-345600+4+151721+3 4001500J 66822BR4TI*

-----NOTS-----							-----EST-----					
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
400	36.300	78.585	3.697	78.585	0.000	3.697	0.000	78.587	-0.002	3.698	-0.001	
500	36.300	86.685	7.327	86.685	-0.000	7.327	-0.000	86.686	-0.001	7.327	-0.000	
600	36.300	93.304	10.957	93.303	0.001	10.957	0.000	93.303	0.001	10.957	0.000	
700	36.300	98.899	14.587	98.899	0.000	14.587	0.000	98.899	0.000	14.587	0.000	
800	36.300	103.746	18.217	103.746	-0.000	18.217	-0.000	103.746	-0.000	18.217	0.000	
900	36.300	108.022	21.847	108.022	-0.000	21.847	-0.000	108.022	0.000	21.847	0.000	
1000	36.300	111.847	25.477	111.847	0.000	25.477	-0.000	111.847	0.000	25.477	0.000	
1100	36.300	115.306	29.107	115.306	-0.000	29.107	-0.000	115.306	-0.000	29.107	0.000	
1200	36.300	118.465	32.737	118.465	0.000	32.737	-0.000	118.465	0.000	32.737	-0.000	
1300	36.300	121.370	36.367	121.370	-0.000	36.367	0.000	121.370	-0.000	36.367	-0.000	
1400	36.300	124.060	39.997	124.060	-0.000	39.997	0.000	124.061	-0.001	39.997	-0.000	
1500	36.300	126.565	43.627	126.565	0.000	43.627	-0.000	126.565	0.000	43.627	0.000	

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TITANIUM TETRABROMIDE (G) BR 4TI 1 0 0 0 0 668
 MOL. WT. = 367.530 BLOCK = 2596 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -131.500 KEY = 525
 FITS FOR NOTS RMS = 0.003935
 1 22 4 35 0 0 0 0 0 0 0 TITANIUM TETRABROMIDE (G) 10J 668 525
 +2.5846649E+1-3.0062915E-3-9.9138286E-4+2.0443159E-4 400 6000 11J 668 525
 -1.8383789E-1-1.3980093E+2+1.2556047E+2-1.3150000E+2BR4TI(G) 12J 668 525

FITS FOR EST RMS LOW = 0.000718 RMS HIGH = 0.007794
 1 22 4 35 0 0 0 0 0 0 0 TITANIUM TETRABROMIDE (G) 10BR4TI
 -131500+6+692800+5+258328+2-112518-6-176608+6+153953+3 4003000J 66811BR4TI
 -131500+6+692859+5+260119+2-260733-4-133376+7+153953+330006000J 66812BR4TI

H C/M	-----NOTS-----												-----EST-----	
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M		
.001	400	24.793	102.434	2.493	102.451	-0.017	2.497	-0.004	102.446	-0.012	2.498	-0.005		
.000	600	25.350	112.613	7.518	112.611	0.002	7.513	0.005	112.613	-0.000	7.517	0.001		
.000	800	25.557	119.938	12.611	119.934	0.004	12.605	0.006	119.938	0.000	12.610	0.001		
.000	1000	25.655	125.653	17.733	125.649	0.004	17.728	0.005	125.652	0.001	17.733	0.000		
.000	1200	25.709	130.335	22.870	130.332	0.003	22.866	0.004	130.335	-0.000	22.870	0.000		
.000	1400	25.742	134.301	28.016	134.299	0.002	28.012	0.004	134.301	-0.000	28.015	0.001		
.000	1600	25.763	137.740	33.166	137.739	0.001	33.164	0.002	137.740	-0.000	33.166	-0.000		
.000	1800	25.778	140.775	38.321	140.775	0.000	38.319	0.002	140.775	-0.000	38.320	0.001		
.000	2000	25.788	143.492	43.477	143.492	0.000	43.476	0.001	143.492	-0.000	43.477	0.000		
.000	2200	25.796	145.950	48.636	145.950	-0.000	48.636	0.000	145.950	-0.000	48.635	0.001		
.000	2400	25.802	148.195	53.795	148.195	-0.000	53.796	-0.001	148.195	-0.000	53.795	-0.000		
.000	2600	25.807	150.260	58.956	150.261	-0.001	58.957	-0.001	150.261	-0.001	58.956	-0.000		
.000	2800	25.810	152.173	64.118	152.174	-0.001	64.119	-0.001	152.173	-0.000	64.118	0.000		
	3000	25.813	153.954	69.280	153.954	-0.000	69.282	-0.002	153.954	0.000	69.280	-0.000		
	3000	25.813	153.954	69.280	153.954	-0.000	69.282	-0.002	153.954	0.000	69.286	-0.006		
	3200	25.816	155.620	74.443	155.620	-0.001	74.445	-0.002	155.619	0.001	74.444	-0.001		
	3400	25.818	157.185	79.607	157.186	-0.001	79.608	-0.001	157.183	0.002	79.605	0.002		
	3600	25.819	158.661	84.770	158.661	-0.000	84.772	-0.002	158.658	0.003	84.767	0.003		
	3800	25.821	160.057	89.934	160.057	-0.000	89.935	-0.001	160.054	0.003	89.931	0.003		
	4000	25.822	161.381	95.098	161.382	-0.001	95.099	-0.001	161.379	0.002	95.095	0.003		
	4200	25.823	162.641	100.263	162.641	-0.000	100.264	-0.001	162.639	0.002	100.261	0.002		
	4400	25.824	163.842	105.428	163.843	-0.001	105.428	0.000	163.840	0.002	105.426	0.002		
	4600	25.825	164.990	110.592	164.990	-0.001	110.592	-0.000	164.988	0.002	110.592	0.000		
	4800	25.825	166.089	115.757	166.090	-0.001	115.757	-0.000	166.088	0.001	115.758	-0.001		
	5000	25.826	167.144	120.923	167.144	0.000	120.922	0.001	167.142	0.002	120.923	-0.000		
	5200	25.826	168.157	126.088	168.157	0.000	126.087	0.001	168.155	0.002	126.089	-0.001		
	5400	25.827	169.131	131.253	169.131	-0.000	131.253	0.000	169.130	0.001	131.254	-0.001		
	5600	25.827	170.071	136.419	170.071	0.000	136.418	0.001	170.069	0.002	136.419	-0.000		
	5800	25.828	170.977	141.584	170.977	-0.000	141.584	-0.000	170.975	0.002	141.584	0.000		
	6000	25.828	171.852	146.750	171.853	-0.001	146.750	-0.000	171.850	0.002	146.747	0.003		

POTASSIUM CARBONATE (C) C 1K 20 3 0 0 0 366
 MOL. WT. = 138.210 BLOCK = 2602 NO. POINT = 22
 ATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -274.900 KEY = 526
 ITS FOR NOTS RMS = 0.001483
 6 3 8 2 19 0 0 0 0 0 POTASSIUM CARBONATE (C) 30J 366 526
 .4582275E+1+1.9894500E+1+1.2263259E+0-2.0251494E-1 400 2000 31J 366 526
 .3335876E-1-2.8422973E+2+5.9101730E+1-2.7489990E+2CK203 (C) 32J 366 526

ITS FOR EST RMS LOW = 0.003125 RMS HIGH = 0.003125
 6 3 8 2 19 0 0 0 0 0 POTASSIUM CARBONATE (C) 30CK203\$
 .4899+6+160935+6+230192+2+222769-1-147264+6+149493+3 4002000J 36631CK203\$
 .4899+6+160935+6+230192+2+222769-1-147264+6+149483+3 4002000J 36632CK203\$

 DH
 M KC/M
 .498 -0.005
 .517 0.001
 .610 0.001
 .733 0.000
 .870 0.000
 .015 0.001
 .166 -0.000
 .320 0.001
 .477 0.000
 .635 0.001
 .795 -0.000
 .956 -0.000
 .118 0.000
 .280 -0.000
 .286 -0.006
 .444 -0.001
 .605 0.002
 .767 0.003
 .931 0.003
 .095 0.003
 .261 0.002
 .426 0.002
 .592 0.000
 .758 -0.001
 .923 -0.000
 .089 -0.001
 .254 -0.001
 .419 -0.000
 .584 0.000
 .747 0.003

-----NOTS-----
 T CP S H SC DS HC DH SC DS HC DH
 K C/M-K C/M-K KC/M C/M-K C/M-K KC/M KC/M C/M-K C/M-K KC/M KC/M
 100 30.625 45.675 2.956 45.671 0.004 2.953 0.003 45.634 0.041 2.940 0.016
 200 33.473 52.821 6.164 52.821 -0.000 6.163 0.001 52.832 -0.011 6.171 -0.007
 300 36.010 59.152 9.640 59.150 0.002 9.638 0.002 59.167 -0.015 9.649 -0.009
 400 38.356 64.881 13.359 64.877 0.004 13.356 0.003 64.889 -0.008 13.364 -0.005
 500 40.641 70.152 17.309 70.150 0.002 17.307 0.002 70.155 -0.003 17.310 -0.001
 600 42.905 75.070 21.487 75.070 0.000 21.487 0.000 75.070 0.000 21.485 0.002
 700 45.160 79.707 25.890 79.709 -0.002 25.891 -0.001 79.706 0.001 25.887 0.003
 800 47.400 84.117 30.518 84.118 -0.001 30.520 -0.002 84.114 0.003 30.515 0.003
 900 49.640 88.337 35.370 88.339 -0.002 35.372 -0.002 88.335 0.002 35.367 0.003
 1000 51.880 92.399 40.446 92.401 -0.002 40.448 -0.002 92.398 0.001 40.445 0.001
 1100 54.120 96.325 45.746 96.327 -0.002 45.747 -0.001 96.326 -0.001 45.746 0.000
 1200 56.360 100.136 51.270 100.137 -0.001 51.270 -0.000 100.137 -0.001 51.271 -0.001
 1300 58.600 103.845 57.018 103.845 0.000 57.018 0.000 103.846 -0.001 57.020 -0.002
 1400 60.840 107.464 62.990 107.464 -0.000 62.989 0.001 107.466 -0.002 62.992 -0.002
 1500 63.080 111.005 69.186 111.005 -0.000 69.185 0.001 111.007 -0.002 69.187 -0.001
 1600 65.320 114.476 75.606 114.476 -0.000 75.605 0.001 114.477 -0.001 75.606 -0.000
 1700 67.560 117.883 82.250 117.884 -0.001 82.251 -0.001 117.883 0.000 82.248 0.002

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POTASSIUM CARBONATE

(L)

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MOL. WT. = 138.210

BLOCK = 2604

NO. POINT = 24

DATA FROM 298 TO 2500 K HFORM(KCAL/(MOLE)) = -270.220 KEY = 527

FITS FOR NOTS RMS = 0.125449

1 6 3 8 2 19 0 0 0 0 0 POTASSIUM CARBONATE (L) 20J 366 527
 +5.8444885E+1+1.4187469E+0-5.5226325E+0+1.5475511E+0 400 2500 21J 366 527
 -6.9520111E+0-3.0756372E+2+8.2203964E+1-2.7021997E+2CK203(L) 22J 366 527

FITS FOR EST RMS LOW = 0.163373 RMS HIGH = 0.163373

1 6 3 8 2 19 0 0 0 0 0 POTASSIUM CARBONATE (L) 20CK203*
 -270219+6+126642+6+568497+2-264439-2-577302+7+139571+3 4002500J 36621CK203*
 -270219+6+126642+6+568497+2-264439-2-577302+7+139571+3 4002500J 36622CK203*

-----NOTS-----

-----EST-----

	DH KC/H	T K	CP C/H-K	S C/H-K	H KC/H	SC C/H-K	DS C/H-K	HC KC/H	DH KC/H	SC C/H-K	DS C/H-K	HC KC/H	DH KC/H
40	0.016	400	30.625	49.224	2.956	50.535	-1.311	3.420	-0.464	49.620	-0.396	3.029	-0.073
71	-0.007	500	33.473	56.370	6.164	55.681	0.689	5.754	0.410	55.547	0.823	5.709	0.455
49	-0.009	600	36.010	62.701	9.640	61.973	0.728	9.218	0.422	62.119	0.582	9.324	0.316
64	-0.005	700	38.356	68.430	13.359	68.269	0.161	13.308	0.051	68.491	-0.061	13.463	-0.104
10	-0.001	800	50.000	73.699	17.309	74.225	-0.526	17.772	-0.463	74.437	-0.738	17.918	-0.609
85	0.002	900	50.000	79.588	22.309	79.754	-0.166	22.468	-0.159	79.922	-0.334	22.577	-0.268
87	0.003	1000	50.000	84.856	27.309	84.853	0.003	27.309	0.000	84.970	-0.114	27.369	-0.060
15	0.003	1100	50.000	89.621	32.309	89.553	0.068	32.240	0.069	89.623	-0.002	32.252	0.057
67	0.003	1200	50.000	93.972	37.309	93.891	0.081	37.226	0.083	93.924	0.048	37.195	0.114
45	0.001	1300	50.000	97.974	42.309	97.906	0.068	42.242	0.067	97.914	0.060	42.180	0.129
46	0.000	1400	50.000	101.679	47.309	101.632	0.047	47.270	0.039	101.627	0.052	47.190	0.119
71	-0.001	1500	50.000	105.129	52.309	105.102	0.027	52.300	0.009	105.095	0.034	52.217	0.092
20	-0.002	1600	50.000	108.356	57.309	108.345	0.011	57.324	-0.015	108.344	0.012	57.251	0.057
92	-0.002	1700	50.000	111.387	62.309	111.385	0.002	62.339	-0.030	111.398	-0.011	62.288	0.021
87	-0.001	1800	50.000	114.245	67.309	114.245	-0.000	67.343	-0.034	114.275	-0.030	67.321	-0.012
06	-0.000	1900	50.000	116.948	72.309	116.945	0.003	72.337	-0.028	116.993	-0.045	72.348	-0.039
48	0.002	2000	50.000	119.513	77.309	119.503	0.010	77.323	-0.014	119.566	-0.053	77.366	-0.057
		2100	50.000	121.953	82.309	121.934	0.019	82.305	0.004	122.008	-0.055	82.371	-0.062
		2200	50.000	124.279	87.309	124.253	0.026	87.290	0.019	124.331	-0.052	87.363	-0.054
		2300	50.000	126.501	92.309	126.472	0.029	92.283	0.026	126.542	-0.041	92.339	-0.030
		2400	50.000	128.629	97.309	128.605	0.024	97.294	0.015	128.653	-0.024	97.298	0.011
		2500	50.000	130.670	102.309	130.661	0.009	102.332	-0.023	130.670	0.000	102.238	0.071

MERCURY MONOCHLORIDE (G) CL 1HG 1 1261
 MOL. WT. = 236.040 BLOCK = 2607 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 18.750 KEY = 528
 FITS FOR NOTS RMS = 0.001629
 1 17 1 80 0 0 0 0 0 0 0 MERCURY MONOCHLORIDE (G) 10J1261 528
 3.9467992E+0+1.9489824E-1-7.3977769E-4+1.1297530E-4 400 6000 11J1261 528
 3.1250000E-2+1.5972747E+1+7.2711380E+1+1.8750000E+1CLHG (G) 12J1261 528

527
 527
 527

FITS FOR EST RMS LOW = 0.000543 RMS HIGH = 0.003155
 1 17 1 80 0 0 0 0 0 0 0 MERCURY MONOCHLORIDE (G) 10CLHG
 187500+5+249456+5+894348+1+194594-3-292800+5+831239+2 4003000J126111CLHG
 187500+5+249479+5+900579+1+185706-3-438400+6+831239+230006000J126112CLHG

DH		-----NOTS-----												-----EST-----			
KC/M		T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
		K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
029	-0.073	400	8.849	64.685	0.895	64.689	-0.004	0.895	-0.000	64.688	-0.003	0.896	-0.001				
709	0.455	600	8.981	68.302	2.680	68.301	0.001	2.678	0.002	68.302	-0.000	2.680	0.000				
324	0.316	800	9.054	70.896	4.484	70.895	0.001	4.481	0.002	70.896	-0.000	4.483	0.001				
463	-0.104	1000	9.109	72.923	6.300	72.922	0.001	6.298	0.002	72.922	0.001	6.300	0.000				
918	-0.609	1200	9.157	74.588	8.127	74.587	0.001	8.125	0.002	74.587	0.001	8.126	0.001				
577	-0.268	1400	9.201	76.003	9.962	76.002	0.001	9.961	0.001	76.002	0.001	9.962	-0.000				
369	-0.060	1600	9.243	77.234	11.807	77.234	0.000	11.806	0.001	77.234	0.000	11.807	0.000				
252	0.057	1800	9.285	78.325	13.660	78.325	0.000	13.659	0.001	78.325	0.000	13.660	0.000				
195	0.114	2000	9.325	79.305	15.521	79.305	-0.000	15.520	0.001	79.305	-0.000	15.521	0.000				
180	0.129	2200	9.365	80.196	17.390	80.196	-0.000	17.390	0.000	80.196	0.000	17.390	0.000				
190	0.119	2400	9.405	81.013	19.267	81.013	0.000	19.267	0.000	81.012	0.001	19.267	0.000				
217	0.092	2600	9.445	81.767	21.152	81.767	-0.000	21.152	-0.000	81.767	0.000	21.152	0.000				
251	0.057	2800	9.485	82.469	23.045	82.469	0.000	23.045	-0.000	82.468	0.001	23.045	0.000				
288	0.021	3000	9.524	83.124	24.946	83.125	-0.001	24.946	-0.000	83.124	0.000	24.946	0.000				
321	-0.012	3000	9.524	83.124	24.946	83.125	-0.001	24.946	-0.000	83.124	0.000	24.948	-0.002				
348	-0.039	3200	9.564	83.740	26.854	83.740	-0.001	26.855	-0.001	83.739	0.001	26.855	-0.001				
366	-0.057	3400	9.603	84.321	28.771	84.321	-0.000	28.772	-0.001	84.320	0.001	28.771	0.000				
371	-0.062	3600	9.642	84.871	30.696	84.871	-0.000	30.696	-0.000	84.870	0.001	30.695	0.001				
363	-0.054	3800	9.681	85.394	32.628	85.394	0.000	32.628	-0.000	85.392	0.002	32.627	0.001				
339	-0.030	4000	9.720	85.891	34.568	85.891	-0.000	34.568	-0.000	85.890	0.001	34.567	0.001				
298	0.011	4200	9.760	86.366	36.516	86.367	-0.001	36.516	-0.000	86.365	0.001	36.515	0.001				
238	0.071	4400	9.799	86.821	38.472	86.821	-0.000	38.472	0.000	86.820	0.001	38.471	0.000				
		4600	9.838	87.258	40.436	87.258	0.000	40.435	0.001	87.257	0.001	40.435	0.001				
		4800	9.877	87.677	42.407	87.677	-0.000	42.407	0.000	87.676	0.001	42.407	-0.000				
		5000	9.916	88.081	44.386	88.081	-0.000	44.386	-0.000	88.080	0.001	44.387	-0.001				
		5200	9.955	88.471	46.373	88.471	0.000	46.373	-0.000	88.470	0.001	46.374	-0.001				
		5400	9.994	88.847	48.368	88.847	-0.000	48.368	-0.000	88.846	0.001	48.369	-0.001				
		5600	10.033	89.211	50.371	89.212	-0.001	50.371	0.000	89.210	0.001	50.371	-0.000				
		5800	10.072	89.564	52.382	89.564	-0.000	52.382	0.000	89.563	0.001	52.382	0.000				
		6000	10.111	89.906	54.400	89.907	-0.001	54.400	-0.000	89.905	0.001	54.399	0.001				

POTASSIUM CHLORIDE

(C) CL 1K 1 0 0 0 0

366

MOL. WT.= 74.550 BLOCK= 2613 NO. POINT = 17

DATA FROM 0 TO 1500 K HFORM(KCAL/(MOLE)) = -104.370 KEY = 529

FITS FOR NOTS RMS = 0.003343

1 17 1 19 0 0 0 0 0 0 POTASSIUM CHLORIDE (C) 30J 366 529
 +4.3782745E+1-8.3901275E+1+8.1962585E+1-2.4251342E+1 400 1500 31J 366 529
 -1.5213623E+0-1.1929508E+2+8.6286407E+1-1.0436999E+2CLK(C) 32J 366 529

FITS FOR EST RMS LOW = 0.020059 RMS HIGH = 0.020059

1 17 1 19 0 0 0 0 0 0 POTASSIUM CHLORIDE (C) 30CLK\$
 -104369+6+606838+5+594338+1+968395-2+529102+6+621847+2 4001500J 36631CLK\$
 -104369+6+606838+5+594338+1+968395-2+529102+6+621847+2 4001500J 36632CLK\$

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.001	400	12.700	23.398	1.272	23.402	-0.004	1.273	-0.001	23.407	-0.009	1.282	-0.010
0.000	500	13.086	26.274	2.561	26.265	0.008	2.558	0.003	26.297	-0.023	2.576	-0.015
0.001	600	13.460	28.693	3.889	28.700	-0.007	3.893	-0.004	28.672	0.021	3.880	0.009
0.000	700	13.863	30.797	5.254	30.800	-0.003	5.256	-0.002	30.752	0.045	5.229	0.025
0.001	800	14.359	32.679	6.664	32.673	0.006	6.659	0.005	32.640	0.039	6.645	0.019
0.000	900	15.036	34.407	8.132	34.403	0.004	8.129	0.003	34.396	0.011	8.136	-0.004
0.000	1000	16.006	36.038	9.681	36.043	-0.005	9.686	-0.005	36.052	-0.014	9.709	-0.028
0.000	1100	17.200	37.622	11.343	37.624	-0.002	11.346	-0.003	37.633	-0.011	11.368	-0.025
0.000	1200	18.200	39.163	13.115	39.160	0.003	13.112	0.003	39.153	0.010	13.116	-0.001
0.000	1300	19.000	40.652	14.977	40.650	0.002	14.974	0.003	40.625	0.027	14.955	0.022
0.000	1400	19.600	42.084	16.908	42.086	-0.002	16.912	-0.004	42.055	0.029	16.885	0.023
0.000	1500	20.000	43.451	18.890	43.450	0.001	18.889	0.001	43.451	0.000	18.909	-0.019
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POTASSIUM CHLORIDE (L) CL 1K 1 0 0 0 0 366
 MOL. WT. = 74.550 BLOCK = 2615 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -100.810 KEY = 530
 FITS FOR NOTS RMS = 0.000603
 17 1 19 0 0 0 0 0 0 0 POTASSIUM CHLORIDE (L) 20J 366 530
 1.7545272E+1+1.5052616E-1-1.4135813E-1+3.9745926E-2 400 2000 21J 366 530
 1.7819824E-4-1.0604774E+2+4.1907623E+1-1.0080999E+2CLK(L) 22J 366 530

FITS FOR EST RMS LOW = 0.000065 RMS HIGH = 0.000065
 17 1 19 0 0 0 0 0 0 0 POTASSIUM CHLORIDE (L) 20CLK*
 100809+6+475253+5+175918+2-923413-6-784000+3+613248+2 4002000J 36621CLK*
 100809+6+475253+5+175918+2-923413-6-784000+3+613248+2 4002000J 36622CLK*

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-----NOTS-----												-----EST-----											
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	CP	S	H	SC	DS	HC	DH	T	CP	S	H
K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	K	C/H-K	C/H-K	KC/H
400	17.590	25.883	1.792	25.883	-0.000	1.792	0.000	25.884	-0.001	1.792	-0.000	400	17.590	25.883	1.792	25.883	-0.000	1.792	0.000	400	17.590	25.883	1.792
500	17.590	29.808	3.551	29.807	0.001	3.550	0.001	29.808	-0.000	3.551	-0.000	600	17.590	29.808	3.551	29.807	0.001	3.550	0.001	600	17.590	29.808	3.551
600	17.590	33.015	5.310	33.014	0.001	5.309	0.001	33.015	-0.000	5.310	0.000	800	17.590	33.015	5.310	33.014	0.001	5.309	0.001	800	17.590	33.015	5.310
700	17.590	35.727	7.069	35.726	0.001	7.068	0.001	35.727	0.000	7.069	0.000	1000	17.590	35.727	7.069	35.726	0.001	7.068	0.001	1000	17.590	35.727	7.069
800	17.590	38.076	8.828	38.075	0.001	8.828	0.000	38.075	0.001	8.828	0.000	1200	17.590	38.076	8.828	38.075	0.001	8.828	0.000	1200	17.590	38.076	8.828
900	17.590	40.147	10.587	40.147	-0.000	10.587	0.000	40.147	-0.000	10.587	0.000	1400	17.590	40.147	10.587	40.147	-0.000	10.587	0.000	1400	17.590	40.147	10.587
1000	17.590	42.001	12.346	42.001	-0.000	12.346	-0.000	42.000	0.001	12.346	0.000	1600	17.590	42.001	12.346	42.001	-0.000	12.346	-0.000	1600	17.590	42.001	12.346
1100	17.590	43.677	14.105	43.678	-0.001	14.106	-0.001	43.677	0.000	14.105	0.000	1800	17.590	43.677	14.105	43.678	-0.001	14.106	-0.001	1800	17.590	43.677	14.105
1200	17.590	45.208	15.864	45.209	-0.001	15.865	-0.001	45.207	0.001	15.864	0.000	2000	17.590	45.208	15.864	45.209	-0.001	15.865	-0.001	2000	17.590	45.208	15.864
1300	17.590	46.616	17.623	46.616	-0.000	17.624	-0.001	46.615	0.001	17.623	0.000	2200	17.590	46.616	17.623	46.616	-0.000	17.624	-0.001	2200	17.590	46.616	17.623
1400	17.590	47.919	19.382	47.920	-0.001	19.383	-0.001	47.919	-0.000	19.382	0.000	2400	17.590	47.919	19.382	47.920	-0.001	19.383	-0.001	2400	17.590	47.919	19.382
1500	17.590	49.133	21.141	49.133	-0.000	21.141	-0.000	49.133	0.000	21.141	0.000	2600	17.590	49.133	21.141	49.133	-0.000	21.141	-0.000	2600	17.590	49.133	21.141
1600	17.590	50.268	22.900	50.268	-0.000	22.900	0.000	50.268	0.000	22.900	0.000	2800	17.590	50.268	22.900	50.268	-0.000	22.900	0.000	2800	17.590	50.268	22.900
1700	17.590	51.334	24.659	51.334	-0.000	24.659	0.000	51.334	-0.000	24.659	0.000	3000	17.590	51.334	24.659	51.334	-0.000	24.659	0.000	3000	17.590	51.334	24.659
1800	17.590	52.340	26.418	52.340	0.000	26.417	0.001	52.340	0.000	26.418	0.000	3000	17.590	52.340	26.418	52.340	0.000	26.417	0.001	3000	17.590	52.340	26.418
1900	17.590	53.291	28.177	53.291	0.000	28.177	0.000	53.291	0.000	28.177	0.000	3200	17.590	53.291	28.177	53.291	0.000	28.177	0.000	3200	17.590	53.291	28.177
2000	17.590	54.193	29.936	54.193	-0.001	29.936	-0.000	54.193	0.000	29.936	0.000	3400	17.590	54.193	29.936	54.193	-0.001	29.936	-0.000	3400	17.590	54.193	29.936

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 -5130

POTASSIUM CHLORIDE (G) CL 1K 1 0 0 0 0 366
 MOL. WT. = 74.550 BLOCK = 2617 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -51.310 KEY = 531
 FITS FOR NOTS RMS = 0.001712
 1 17 1 19 0 0 0 0 0 0 0 POTASSIUM CHLORIDE (G) 10J 366 531
 +8.9459829E+0+1.8130207E-1-9.2717539E-4+1.3449444E-4 400 6000 11J 366 531
 -2.8747558E-2-5.4078826E+1+6.7738571E+1-5.1309997E+1CLK(G) 12J 366 531

FITS FOR EST RMS LOW = 0.000547 RMS HIGH = 0.003186
 1 17 1 19 0 0 0 0 0 0 0 POTASSIUM CHLORIDE (G) 10CLK
 -513099+5+248881+5+894482+1+179695-3-276960+5+781089+2 4003000J 36611CLK
 -513099+5+248905+5+900001+1+172464-3-405744+6+781089+230006000J 36612CLK

-----NOTS-----								-----EST-----				
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.000	400	8.857	59.701	0.896	59.704	-0.003	0.896	0.000	59.704	-0.003	0.897	-0.001
-0.000	600	8.979	63.318	2.681	63.317	0.001	2.679	0.002	63.318	-0.001	2.681	-0.000
0.000	800	9.046	65.911	4.484	65.910	0.001	4.482	0.002	65.911	0.000	4.484	0.000
0.000	1000	9.097	67.935	6.298	67.934	0.001	6.296	0.002	67.935	0.000	6.298	-0.000
0.000	1200	9.141	69.598	8.122	69.597	0.001	8.120	0.002	69.598	0.000	8.122	-0.000
0.000	1400	9.182	71.010	9.955	71.009	0.001	9.953	0.002	71.010	0.000	9.954	0.001
0.000	1600	9.221	72.238	11.795	72.238	0.000	11.794	0.001	72.238	-0.000	11.795	0.000
0.000	1800	9.259	73.327	13.643	73.326	0.001	13.642	0.001	73.327	0.000	13.643	0.000
0.000	2000	9.297	74.304	15.499	74.304	-0.000	15.498	0.001	74.304	-0.000	15.499	0.000
0.000	2200	9.335	75.192	17.362	75.192	-0.000	17.362	0.000	75.192	-0.000	17.362	0.000
0.000	2400	9.372	76.006	19.232	76.006	-0.000	19.232	-0.000	76.006	-0.000	19.232	-0.000
0.000	2600	9.408	76.758	21.110	76.758	0.000	21.111	-0.001	76.758	0.000	21.110	-0.000
0.000	2800	9.445	77.456	22.996	77.456	-0.000	22.996	-0.000	77.456	-0.000	22.996	0.000
0.000	3000	9.482	78.109	24.888	78.109	-0.000	24.889	-0.001	78.109	0.000	24.888	-0.000
0.000	3000	9.482	78.109	24.888	78.109	-0.000	24.889	-0.001	78.109	0.000	24.891	-0.003
0.000	3200	9.518	78.722	26.788	78.722	-0.000	26.789	-0.001	78.722	0.000	26.789	-0.001
0.000	3400	9.555	79.300	28.696	79.301	-0.001	28.696	-0.000	79.299	0.001	28.695	0.001
	3600	9.591	79.847	30.610	79.848	-0.001	30.611	-0.001	79.846	0.001	30.609	0.001
	3800	9.627	80.367	32.532	80.367	-0.000	32.532	-0.000	80.366	0.001	32.531	0.001
	4000	9.664	80.862	34.461	80.862	0.000	34.462	-0.001	80.861	0.001	34.460	0.001
	4200	9.700	81.334	36.398	81.334	-0.000	36.398	0.000	81.333	0.001	36.397	0.001
	4400	9.736	81.786	38.341	81.786	-0.000	38.341	-0.000	81.785	0.001	38.341	0.000
	4600	9.773	82.220	40.292	82.220	0.000	40.292	-0.000	82.219	0.001	40.292	-0.000
	4800	9.809	82.636	42.250	82.637	-0.001	42.250	-0.000	82.636	0.000	42.251	-0.001
	5000	9.845	83.038	44.216	83.038	0.000	44.215	0.001	83.037	0.001	44.216	-0.000
	5200	9.881	83.424	46.188	83.424	-0.001	46.188	-0.000	83.424	0.000	46.189	-0.001
	5400	9.918	83.798	48.168	83.798	-0.000	48.168	-0.000	83.797	0.001	48.169	-0.001
	5600	9.954	84.159	50.156	84.159	-0.000	50.155	0.001	84.159	0.000	50.156	0.000
	5800	9.990	84.509	52.150	84.509	-0.000	52.150	-0.000	84.509	0.000	52.150	-0.000
	6000	10.026	84.849	54.152	84.849	0.000	54.152	-0.000	84.848	0.001	54.151	0.001

MERCURY CHLORIDE, DIMERIC (C) CL 2HG 2 1261
 MOL. WT.= 472.080 BLOCK= 2623 NO. POINT = 17
 DATA FROM 0 TO 1500 K HFORM(KCAL/(MOLE)) = -63.319 KEY = 532
 FITS FOR NOTS RMS = 0.000336
 17 2 80 0 0 0 0 0 0 0 MERCURY CHLORIDE, DIMERIC (C) 30J1261 532
 1.3359954E+1+6.9843940E+0-1.2186622E+0-1.8542242E-1 400 1500 31J1261 532
 0.8648071E-2-7.0908309E+1+7.1721801E+1-6.3318984E+1CL2HG2(C) 32J1261 532

FITS FOR EST RMS LOW = 0.005670 RMS HIGH = 0.005670
 17 2 80 0 0 0 0 0 0 0 MERCURY CHLORIDE, DIMERIC (C) 30CL2HG2\$
 1.33189+5+831578+5+262296+2+301724-2-427632+6+112747+3 4001500J126131CL2HG2\$
 1.33189+5+831578+5+262296+2+301724-2-427632+6+112747+3 4001500J126132CL2HG2\$

 DH
 KC/M
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-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M				
400	25.340	53.318	2.533	53.318	0.000	2.533	0.000	53.365	-0.047	2.551	-0.018				
500	26.130	59.060	5.107	59.059	0.001	5.107	-0.000	59.039	0.021	5.096	0.011				
600	26.800	63.884	7.755	63.884	0.000	7.754	0.001	63.861	0.023	7.742	0.013				
700	27.380	68.060	10.464	68.060	0.000	10.464	-0.000	68.049	0.011	10.460	0.004				
800	27.920	71.752	13.230	71.752	-0.000	13.230	0.000	71.751	0.001	13.233	-0.003				
900	28.400	75.069	16.046	75.069	0.000	16.046	-0.000	75.072	-0.003	16.053	-0.007				
1000	28.840	78.084	18.909	78.084	-0.000	18.909	0.000	78.087	-0.003	18.915	-0.006				
1100	29.240	80.852	21.813	80.852	-0.000	21.813	-0.000	80.852	0.000	21.816	-0.003				
1200	29.600	83.412	24.755	83.412	-0.000	24.755	-0.000	83.407	0.005	24.753	0.002				
1300	29.916	85.794	27.732	85.794	0.000	27.731	0.001	85.787	0.007	27.726	0.006				
1400	30.189	88.021	30.737	88.021	-0.000	30.737	0.000	88.015	0.006	30.733	0.004				
1500	30.420	90.112	33.768	90.112	-0.000	33.768	-0.000	90.112	0.000	33.773	-0.005				

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POTASSIUM CHLORIDE, DIMERIC (G) CL 2K 2 0 0 0 0 366
 MOL. WT.= 149.110 BLOCK= 2625 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -147.620 KEY = 533
 FITS FOR NOTS RMS = 0.003042
 2 17 2 19 0 0 0 0 0 0 0 POTASSIUM CHLORIDE, DIMERIC (G) 10J 366 533
 +1.9883422E+1-2.5646151E-3-8.1048812E-4+1.6677309E-4 400 6000 11J 366 533
 -5.6381225E-2-1.5373204E+2+1.0807672E+2-1.4761999E+2CL2K2 (G) 12J 366 533

FITS FOR EST RMS LOW = 0.000582 RMS HIGH = 0.006007
 2 17 2 19 0 0 0 0 0 0 0 POTASSIUM CHLORIDE, DIMERIC (G) 10CL2K2
 -147619+6+535402+5+198738+2-825139-6-517760+5+129912+3 4003000J 36611CL2K2
 -147619+6+535447+5+200052+2-194875-4-911872+6+129912+330006000J 36612CL2K2

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.018	400	19.564	90.027	1.982	90.033	-0.006	1.982	-0.000	90.030	-0.003	1.984	-0.002	1
0.011	600	19.733	97.998	5.915	97.996	0.002	5.911	0.004	97.998	-0.000	5.916	-0.001	2
0.013	800	19.793	103.684	9.869	103.682	0.002	9.864	0.005	103.684	-0.000	9.869	0.000	3
0.004	1000	19.822	108.105	13.831	108.102	0.003	13.826	0.005	108.104	0.001	13.830	0.001	4
-0.003	1200	19.837	111.720	17.797	111.718	0.002	17.793	0.004	111.719	0.001	17.796	0.001	5
-0.007	1400	19.846	114.779	21.765	114.777	0.002	21.762	0.003	114.778	0.001	21.765	0.000	6
-0.006	1600	19.852	117.429	25.735	117.428	0.001	25.732	0.002	117.429	0.000	25.735	0.000	7
-0.003	1800	19.856	119.767	29.706	119.767	-0.000	29.704	0.002	119.767	-0.000	29.706	0.000	8
0.002	2000	19.859	121.860	33.677	121.860	0.000	33.676	0.001	121.859	0.001	33.677	-0.000	9
0.006	2200	19.861	123.753	37.649	123.753	0.000	37.649	0.000	123.752	0.001	37.649	-0.000	10
0.004	2400	19.863	125.481	41.622	125.481	-0.000	41.622	0.000	125.480	0.001	41.622	0.000	11
-0.005	2600	19.864	127.071	45.594	127.071	-0.000	45.595	-0.001	127.070	0.001	45.594	-0.000	12
	2800	19.865	128.543	49.567	128.543	-0.000	49.568	-0.001	128.542	0.001	49.567	-0.000	13
	3000	19.866	129.913	53.540	129.914	-0.001	53.542	-0.002	129.913	0.000	53.540	-0.000	14
	3000	19.866	129.913	53.540	129.914	-0.001	53.542	-0.002	129.913	0.000	53.545	-0.005	15
	3200	19.867	131.196	57.514	131.196	-0.000	57.515	-0.001	131.194	0.002	57.515	-0.001	16
	3400	19.867	132.400	61.487	132.401	-0.001	61.488	-0.001	132.398	0.002	61.486	0.001	17
	3600	19.868	133.536	65.461	133.536	-0.000	65.462	-0.001	133.533	0.003	65.459	0.002	18
	3800	19.868	134.610	69.434	134.610	-0.000	69.435	-0.001	134.607	0.003	69.432	0.002	19
	4000	19.869	135.629	73.408	135.630	-0.001	73.409	-0.001	135.626	0.003	73.406	0.002	20
	4200	19.869	136.598	77.382	136.599	-0.001	77.382	-0.000	136.596	0.002	77.380	0.002	21
	4400	19.869	137.523	81.355	137.523	-0.000	81.356	-0.001	137.520	0.003	81.354	0.001	22
	4600	19.869	138.406	85.329	138.406	-0.000	85.329	-0.000	138.404	0.002	85.329	0.000	23
	4800	19.869	139.252	89.303	139.252	0.000	89.303	0.000	139.250	0.002	89.303	-0.000	24
	5000	19.870	140.063	93.277	140.063	0.000	93.277	0.000	140.061	0.002	93.278	-0.001	25
	5200	19.870	140.842	97.251	140.842	-0.000	97.250	0.001	140.840	0.002	97.252	-0.001	26
	5400	19.870	141.592	101.225	141.592	-0.000	101.224	0.001	141.590	0.002	101.226	-0.001	27
	5600	19.870	142.314	105.199	142.315	-0.001	105.198	0.001	142.313	0.001	105.199	-0.000	28
	5800	19.870	143.012	109.173	143.012	-0.000	109.173	0.000	143.010	0.002	109.173	0.000	29
	6000	19.870	143.685	113.147	143.686	-0.001	113.147	-0.000	143.683	0.002	113.145	0.002	30

MERCURY MONOFLUORIDE (G) F 1HG 1
MOL. WT.= 219.580 BLCK= 2631 NO. POINT = 62
ATA FROM 0 TO 6000 K HFORM(KCAL/(MCLE)) = 0.700 KEY = 534
BITS FOR NOTS RMS = 0.001795

1261

F

9 1 80 0 0 0 0 0 0 0 MERCURY MONOFLUORIDE (G) 10J1261 534
.9374704E+0+1.7979800E-1-1.9104802E-3+1.8829223E-4 400 6000 11J1261 534
.6980590E-2-2.2216300E+0+6.9698272E+1+6.9999998E-1PHG(G) 12J1261 534

DA
FI
1
-2.5
+1.0

FITS FOR EST RMS LOW = 0.000566 RMS HIGH = 0.003223
9 1 80 0 0 0 0 0 0 0 MERCURY MONOFLUORIDE (G) 10PHG
99999+3+247118+5+893683+1+176089-3-755840+5+800539+2 4003000J126111PHG
99999+3+247139+5+901070+1+164047-3-514960+6+800539+230006000J126112PHG

FI
1
-135
-135

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DH KC/M	-----NOTS-----												T K
	T K	CP C/H-K	S C/H-K	H KC/M	SC C/H-K	DS C/H-K	HC KC/M	DH KC/M	SC C/H-K	DS C/H-K	HC KC/M	DH KC/M	
0.002	100	8.570	61.816	0.860	61.821	-0.005	0.860	-0.000	61.821	-0.005	0.862	-0.002	400
0.001	100	8.834	65.349	2.604	65.347	0.002	2.601	0.003	65.349	0.000	2.604	0.000	500
0.000	100	8.958	67.909	4.384	67.907	0.002	4.382	0.002	67.909	-0.000	4.384	-0.000	600
0.001	100	9.036	69.917	6.184	69.916	0.001	6.182	0.002	69.917	-0.000	6.184	-0.000	700
0.001	200	9.095	71.570	7.998	71.569	0.001	7.996	0.002	71.570	-0.000	7.998	0.000	800
0.000	400	9.145	72.976	9.822	72.975	0.001	9.820	0.002	72.976	-0.000	9.822	0.000	900
0.000	100	9.189	74.200	11.655	74.199	0.001	11.654	0.001	74.200	-0.000	11.655	-0.000	1000
0.000	800	9.231	75.285	13.497	75.284	0.001	13.497	0.000	75.285	0.000	13.497	-0.000	1100
0.000	100	9.270	76.259	15.348	76.259	-0.000	15.347	0.001	76.260	-0.001	15.347	0.001	1200
0.000	200	9.309	77.145	17.205	77.145	0.000	17.205	-0.000	77.145	0.000	17.205	-0.000	1300
0.000	400	9.346	77.956	19.071	77.956	-0.000	19.071	0.000	77.956	-0.000	19.071	0.000	1400
0.000	600	9.383	78.706	20.944	78.706	0.000	20.944	-0.000	78.706	-0.000	20.944	0.000	1500
0.000	800	9.420	79.402	22.824	79.403	-0.001	22.824	-0.000	79.403	-0.001	22.824	-0.000	1600
0.005	100	9.456	80.054	24.712	80.054	0.000	24.712	-0.000	80.054	0.000	24.712	0.000	1700
0.001	100	9.456	80.054	24.712	80.054	0.000	24.712	-0.000	80.054	0.000	24.714	-0.002	1800
0.001	200	9.492	80.665	26.606	80.665	-0.000	26.607	-0.001	80.665	0.000	26.607	-0.001	1900
0.001	400	9.527	81.241	28.508	81.242	-0.001	28.509	-0.001	81.241	-0.000	28.508	0.000	2000
0.002	600	9.563	81.787	30.417	81.787	-0.000	30.418	-0.001	81.786	0.000	30.417	0.000	
0.002	800	9.598	82.305	32.334	82.305	-0.000	32.334	0.000	82.304	0.001	32.333	0.001	
0.002	100	9.634	82.798	34.257	82.799	-0.001	34.257	-0.000	82.798	0.000	34.256	0.001	
0.002	200	9.669	83.269	36.187	83.269	-0.000	36.187	-0.000	83.269	0.000	36.186	0.001	
0.001	400	9.704	83.720	38.124	83.720	-0.000	38.125	-0.001	83.719	0.001	38.124	-0.000	
0.000	600	9.739	84.152	40.069	84.152	-0.000	40.069	0.000	84.152	0.000	40.069	0.000	
0.000	800	9.775	84.567	42.020	84.567	-0.000	42.020	-0.000	84.567	0.000	42.020	-0.000	
0.001	100	9.810	84.967	43.979	84.967	-0.000	43.978	0.001	84.967	0.000	43.979	-0.000	
0.001	200	9.845	85.352	45.944	85.352	-0.000	45.944	0.000	85.352	-0.000	45.945	-0.001	
0.001	400	9.880	85.725	47.917	85.725	0.000	47.916	0.001	85.724	0.001	47.917	0.000	
0.000	600	9.915	86.084	49.896	86.085	-0.001	49.896	0.000	86.084	-0.000	49.896	-0.000	
0.000	800	9.950	86.433	51.882	86.433	-0.000	51.882	-0.000	86.433	0.000	51.882	-0.000	
0.002	100	9.985	86.771	53.876	86.771	-0.000	53.876	0.000	86.770	0.001	53.875	0.001	

POTASSIUM FLUORIDE

(C)

F 1K 1 0 0 0 0

669

MOL. WT.= 58.100 BLOCK= 2637 NO. POINT = 22

DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -135.900 KEY = 535

FITS FOR NOTS RMS = 0.013391

1 9 1 19 0 0 0 0 0 0 POTASSIUM FLUORIDE (C) 30J 669 535
-2.5634765E-3+2.0161239E+1-6.6172483E+0+4.3341970E-1 400 2000 31J 669 535
+1.0674133E+0-1.3351283E+2+1.5134873E+1-1.3589999E+2FK (C) 32J 669 535

FITS FOR EST RMS LOW = 0.063026 RMS HIGH = 0.063026

1 9 1 19 0 0 0 0 0 0 POTASSIUM FLUORIDE (C) 30FK\$
-135899+6+442773+5+145945+2+163536-2-108238+7+503217+2 4002000J 66931FK\$
-135899+6+442773+5+145945+2+163536-2-108238+7+503217+2 4002000J 66932FK\$

-----NOTS-----

-----EST-----

H	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
.002	400	12.200	19.418	1.219	19.330	0.088	1.188	0.031	19.986	-0.568	1.448	-0.229
.000	500	12.600	22.185	2.459	22.248	-0.063	2.494	-0.035	22.188	-0.003	2.440	0.019
.000	600	12.970	24.515	3.738	24.555	-0.040	3.759	-0.021	24.351	0.164	3.629	0.109
.000	700	13.350	26.543	5.054	26.539	0.004	5.047	0.007	26.366	0.177	4.937	0.117
.000	800	13.720	28.349	6.407	28.323	0.026	6.383	0.024	28.219	0.130	6.326	0.081
.000	900	14.120	29.988	7.799	29.966	0.022	7.779	0.020	29.924	0.064	7.774	0.025
.000	1000	14.620	31.500	9.235	31.498	0.002	9.234	0.001	31.498	0.002	9.268	-0.033
.000	1100	15.260	32.923	10.727	32.939	-0.016	10.746	-0.019	32.959	-0.036	10.801	-0.074
.001	1200	15.960	34.282	12.291	34.298	-0.016	12.309	-0.018	34.321	-0.039	12.367	-0.076
.000	1300	16.400	35.578	13.910	35.585	-0.007	13.916	-0.006	35.597	-0.019	13.961	-0.051
.000	1400	16.680	36.804	15.565	36.803	0.001	15.560	0.005	36.798	0.006	15.582	-0.017
.000	1500	16.850	37.961	17.242	37.957	0.004	17.232	0.010	37.933	0.028	17.227	0.015
.000	1600	16.950	39.052	18.932	39.049	0.003	18.925	0.007	39.009	0.043	18.895	0.037
.000	1700	17.000	40.082	20.630	40.082	0.000	20.628	0.002	40.033	0.049	20.584	0.046
.002	1800	17.000	41.053	22.330	41.057	-0.004	22.335	-0.005	41.011	0.042	22.295	0.035
.001	1900	17.000	41.972	24.030	41.978	-0.006	24.037	-0.007	41.946	0.026	24.025	0.005
.000	2000	17.000	42.844	25.730	42.843	0.001	25.725	0.005	42.844	0.000	25.775	-0.045
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9

POTASSIUM FLUORIDE

(G)

F 1K 1 0 0 0 0

669

MOL. WT. = 58.100

BLOCK = 2643

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -78.100 KEY = 537

FITS FOR NOTS RMS = 0.001743

36

1 9 1 19 0 0 0 0 0 0 0 POTASSIUM FLUORIDE

(G) 10J 669 537

36

+8.9505929E+0+1.5963804E-1+5.8130570E-4-1.0759555E-5 400 6000

11J 669 537

36

-6.3339233E-2-8.0978515E+1+6.4593185E+1-7.8099990E+1FK (G)

12J 669 537

FITS FOR EST RMS LOW = 0.000494 RMS HIGH = 0.003188

1 9 1 19 0 0 0 0 0 0 0 POTASSIUM FLUORIDE

(G) 10FK

-780999+5+247170+5+894236+1+163705-3-600160+5+749109+2 4003000J 66911FK

-780999+5+247196+5+901486+1+153359-3-528208+6+749109+230006000J 66912FK

-----NOTS-----														-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH					
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M					
53 -0.001	400	8.662	56.647	0.871	56.654	-0.007	0.873	-0.002	56.652	-0.005	0.873	-0.002					
92 -0.000	600	8.877	60.206	2.628	60.205	0.001	2.626	0.002	60.206	0.000	2.628	-0.000					
32 0.000	800	8.979	62.775	4.415	62.773	0.002	4.412	0.003	62.775	0.000	4.415	0.000					
72 0.000	1000	9.045	64.786	6.218	64.785	0.001	6.215	0.003	64.786	-0.000	6.218	0.000					
12 0.000	1200	9.096	66.440	8.032	66.439	0.001	8.030	0.002	66.440	-0.000	8.032	0.000					
52 0.000	1400	9.140	67.846	9.856	67.845	0.001	9.855	0.001	67.846	0.000	9.856	0.000					
92 0.000	1600	9.181	69.069	11.688	69.069	0.000	11.687	0.001	69.069	0.000	11.688	-0.000					
132 0.000	1800	9.218	70.152	13.528	70.152	-0.000	13.527	0.001	70.152	-0.000	13.528	-0.000					
72 0.000	2000	9.255	71.126	15.375	71.126	0.000	15.375	-0.000	71.126	0.000	15.375	-0.000					
12 -0.000	2200	9.290	72.009	17.230	72.009	-0.000	17.230	0.000	72.009	-0.000	17.230	0.000					
52 -0.000	2400	9.325	72.819	19.091	72.819	-0.000	19.092	-0.001	72.819	-0.000	19.091	-0.000					
92 -0.000	2600	9.359	73.567	20.960	73.567	-0.000	20.960	-0.000	73.567	0.000	20.960	0.000					
32 0.000	2800	9.394	74.262	22.835	74.262	-0.000	22.836	-0.001	74.262	0.000	22.835	-0.000					
72 0.000	3000	9.427	74.911	24.717	74.911	-0.000	24.718	-0.001	74.911	0.000	24.717	-0.000					
	3000	9.427	74.911	24.717	74.911	-0.000	24.718	-0.001	74.911	0.000	24.720	-0.003					
	3200	9.461	75.521	26.606	75.521	0.000	26.607	-0.001	75.520	0.001	26.607	-0.001					
	3400	9.494	76.095	28.502	76.095	-0.000	28.502	-0.000	76.094	0.001	28.501	0.001					
	3600	9.528	76.639	30.404	76.639	-0.000	30.404	-0.000	76.638	0.001	30.403	0.001					
	3800	9.561	77.155	32.313	77.155	-0.000	32.313	-0.000	77.154	0.001	32.312	0.001					
	4000	9.594	77.646	34.228	77.646	-0.000	34.228	-0.000	77.645	0.001	34.227	0.001					
	4200	9.627	78.115	36.150	78.115	-0.000	36.151	-0.001	78.114	0.001	36.150	0.000					
	4400	9.661	78.564	38.079	78.564	0.000	38.079	-0.000	78.563	0.001	38.079	0.000					
	4600	9.694	78.994	40.015	78.994	0.000	40.015	0.000	78.993	0.001	40.015	0.000					
	4800	9.727	79.407	41.957	79.407	-0.000	41.956	0.000	79.406	0.001	41.957	0.000					
	5000	9.760	79.805	43.905	79.805	0.000	43.905	-0.000	79.804	0.001	43.906	-0.001					
	5200	9.793	80.188	45.861	80.188	-0.000	45.860	0.001	80.187	0.001	45.861	-0.000					
	5400	9.826	80.558	47.822	80.558	-0.000	47.822	-0.000	80.558	0.000	47.823	-0.001					
	5600	9.859	80.916	49.791	80.916	-0.000	49.791	0.000	80.915	0.001	49.791	-0.000					
	5800	9.892	81.263	51.766	81.263	0.000	51.766	0.000	81.262	0.001	51.766	0.000					
	6000	9.924	81.599	53.747	81.599	0.000	53.747	-0.000	81.598	0.001	53.747	0.000					

POTASSIUM FLUORIDE, DIMERIC (G) F 2K 2 0 0 0 0 669
 MOL. WT.= 116.200 BLOCK= 2655 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -206.200 KEY = 539
 FITS FOR NOTS RMS = 0.003097
 2 9 2 19 0 0 0 0 0 0 0 POTASSIUM FLUORIDE, DIMERIC (G) 10J 669 539
 +1.9891265E+1-8.7638050E-3+7.9523096E-4+3.2278665E-5 400 6000 11J 669 539
 -1.1320495E-1-2.1249792E+2+9.9921859E+1-2.0619999E+2F2K2(G) 12J 669 539

FITS FOR EST RMS LOW = 0.000547 RMS HIGH = 0.006040
 2 9 2 19 0 0 0 0 0 0 0 POTASSIUM FLUORIDE, DIMERIC (G) 10F2K2
 -206199+6+533809+5+198730+2-412569-6-105520+6+121757+3 4003000J 66911F2K2
 -206199+6+533852+5+200112+2-203817-4-100403+7+121757+330006000J 66912F2K2

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M	
-0.008	400	19.240	82.035	1.939	82.046	-0.011	1.941	-0.002	82.041	-0.006	1.941	-0.002	
0.002	600	19.585	89.914	5.828	89.913	0.001	5.824	0.004	89.915	-0.001	5.828	-0.000	
0.002	800	19.709	95.568	9.759	95.565	0.003	9.754	0.005	95.568	-0.000	9.759	0.000	
0.001	1000	19.767	99.973	13.707	99.970	0.003	13.702	0.005	99.973	0.000	13.707	0.000	
0.000	1200	19.799	103.580	17.664	103.578	0.002	17.660	0.004	103.580	0.000	17.664	0.000	
-0.000	1400	19.818	106.634	21.626	106.632	0.002	21.623	0.003	106.634	0.000	21.626	0.000	
0.000	1600	19.831	109.281	25.591	109.280	0.001	25.589	0.002	109.281	0.000	25.591	0.000	
-0.000	1800	19.839	111.617	29.558	111.617	0.000	29.557	0.001	111.617	-0.000	29.558	0.000	
0.000	2000	19.845	113.708	33.527	113.708	0.000	33.526	0.001	113.708	0.000	33.526	0.001	
-0.000	2200	19.850	115.600	37.496	115.600	0.000	37.496	-0.000	115.600	0.000	37.496	-0.000	
0.000	2400	19.853	117.327	41.467	117.327	-0.000	41.467	0.000	117.327	0.000	41.467	0.000	
0.001	2600	19.856	118.916	45.438	118.917	-0.001	45.438	-0.000	118.916	-0.000	45.438	0.000	
0.001	2800	19.858	120.388	49.409	120.388	-0.000	49.410	-0.001	120.388	0.000	49.409	-0.000	
-0.001	3000	19.860	121.758	53.381	121.758	-0.000	53.382	-0.001	121.758	0.000	53.381	0.000	
-0.004	3000	19.860	121.758	53.381	121.758	-0.000	53.382	-0.001	121.758	0.000	53.385	-0.004	
-0.001	3200	19.861	123.040	57.353	123.040	-0.000	57.354	-0.001	123.039	0.001	57.354	-0.001	
0.000	3400	19.863	124.244	61.325	124.244	-0.000	61.326	-0.001	124.242	0.002	61.324	0.001	
0.001	3600	19.864	125.379	65.298	125.380	-0.001	65.299	-0.001	125.377	0.002	65.296	0.002	
0.001	3800	19.864	126.453	69.271	126.454	-0.001	69.272	-0.001	126.451	0.002	69.268	0.003	
0.002	4000	19.865	127.472	73.244	127.473	-0.001	73.244	-0.000	127.470	0.002	73.241	0.003	
0.001	4200	19.866	128.441	77.217	128.442	-0.001	77.217	-0.000	128.439	0.002	77.215	0.002	
0.001	4400	19.866	129.365	81.190	129.366	-0.001	81.190	-0.000	129.364	0.001	81.189	0.001	
-0.000	4600	19.867	130.249	85.163	130.249	0.000	85.163	-0.000	130.247	0.002	85.163	0.000	
-0.000	4800	19.867	131.094	89.137	131.094	-0.000	89.136	0.001	131.093	0.001	89.137	0.000	
-0.000	5000	19.867	131.905	93.110	131.905	-0.000	93.110	0.000	131.904	0.001	93.111	-0.001	
-0.000	5200	19.868	132.684	97.084	132.685	-0.001	97.083	0.001	132.683	0.001	97.084	-0.000	
-0.000	5400	19.868	133.434	101.057	133.434	-0.000	101.057	0.000	133.433	0.001	101.058	-0.001	
-0.000	5600	19.868	134.157	105.031	134.157	0.000	105.030	0.001	134.155	0.002	105.031	-0.000	
-0.000	5800	19.869	134.854	109.005	134.854	-0.000	109.004	0.001	134.852	0.002	109.004	0.001	
0.001	6000	19.869	135.527	112.978	135.528	-0.001	112.978	-0.000	135.526	0.001	112.976	0.002	

POTASSIUM HYDROXIDE (C) H 1K 10 1 0 0 0 1270
 MOL. WT.= 56.100 BLOCK= 2662 NO. POINT = 17
 DATA FROM 0 TO 1500 K HFORM(KCAL/(MOLE)) = -101.510 KEY = 540
 ITS FOR NOTS RMS = 0.114153
 1 1 8 1 19 0 0 0 0 0 POTASSIUM HYDROXIDE (C) 30J1270 540
 .8771052E+2-4.0078857E+2+3.3223486E+2-9.2805603E+1 400 1500 31J1270 540
 .2672805E+0-1.7021426E+2+3.0515039E+2-1.0150999E+2HK0(C) 32J1270 540

PO
 H
 DAT
 FIT
 1 1
 +1.98
 -1.03

ITS FOR EST RMS LOW = 0.127410 RMS HIGH = 0.127410
 1 1 8 1 19 0 0 0 0 0 POTASSIUM HYDROXIDE (C) 30HK0\$
 1509+6+565684+5+112056+2+442383-2+302025+7+662132+2 4001500J127031HK0\$
 .1509+6+565684+5+112056+2+442383-2+302025+7+662132+2 4001500J127032HK0\$

FIT
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 -9864
 -9864

H

C/H

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-----NOTS-----												-----EST-----											
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH												
K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	T											
400	17.130	23.636	1.660	23.272	0.364	1.479	0.181	22.863	0.773	1.337	0.323	400	1										
500	19.020	27.656	3.465	28.843	-1.187	3.980	-0.515	29.203	-1.547	4.166	-0.701	500	1										
600	18.800	34.080	6.891	33.393	0.687	6.473	0.418	33.534	0.546	6.537	0.354	600	1										
700	18.800	36.979	8.771	36.870	0.109	8.725	0.046	36.817	0.162	8.664	0.107	700	1										
800	18.800	39.489	10.651	39.569	-0.080	10.744	-0.093	39.478	0.011	10.656	-0.005	800	1										
900	18.800	41.703	12.531	41.771	-0.068	12.612	-0.081	41.735	-0.032	12.572	-0.041	900	1										
1000	18.800	43.684	14.411	43.678	0.006	14.423	-0.012	43.713	-0.029	14.448	-0.037	1000	1										
1100	18.800	45.476	16.291	45.417	0.059	16.248	0.043	45.485	-0.009	16.308	-0.017	1100	1										
1200	18.800	47.112	18.171	47.052	0.060	18.127	0.044	47.102	0.010	18.166	0.005	1200	1										
1300	18.800	48.616	20.051	48.594	0.022	20.054	-0.003	48.596	0.020	20.033	0.018	1300	1										
1400	18.800	50.010	21.931	50.019	-0.009	21.976	-0.045	49.992	0.018	21.917	0.014	1400	1										
1500	18.800	51.307	23.811	51.273	0.034	23.793	0.018	51.307	0.000	23.823	-0.012	1500	1										

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 400 1
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 1000 1
 1100 1
 1200 1
 1300 1
 1400 1
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 1600 1
 1700 1
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 1900 1
 2000 1

POTASSIUM HYDROXIDE (L) H 1K 10 1 0 0 0 1270
 MOL. WT.= 56.100 BLOCK= 2663 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -98.644 KEY = 541
 FITS FOR NOTS RMS = 0.000756
 1 1 1 8 1 19 0 0 0 0 0 POTASSIUM HYDROXIDE (L) 20J1270 541
 +1.9823638E+1+1.4220595E-1-1.3816428E-1+3.9745926E-2 400 2000 21J1270 541
 -1.0375976E-3-1.0456237E+2+4.7035598E+1-9.8643997E+1HKO(L) 22J1270 541

FITS FOR EST RMS LOW = 0.000353 RMS HIGH = 0.000353
 1 1 1 8 1 19 0 0 0 0 0 POTASSIUM HYDROXIDE (L) 20HKO*
 -986439+5+536680+5+198625+2+615608-6-240000+3+689441+2 4002000J127021HKO*
 -986439+5+536680+5+198625+2+615608-6-240000+3+689441+2 4002000J127022HKO*

-----NOTS-----														-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.323	400	19.863	28.922	2.023	28.921	0.001	2.022	0.001	28.922	-0.000	2.023	-0.000					
-0.701	500	19.863	33.354	4.009	33.352	0.002	4.008	0.001	33.354	-0.000	4.010	-0.001					
0.354	600	19.863	36.976	5.996	36.974	0.002	5.994	0.002	36.975	0.001	5.996	0.000					
0.107	700	19.863	40.037	7.982	40.036	0.001	7.981	0.001	40.037	-0.000	7.982	0.000					
-0.005	800	19.863	42.690	9.968	42.689	0.001	9.968	0.000	42.690	0.000	9.968	-0.000					
-0.041	900	19.863	45.029	11.955	45.029	-0.000	11.955	0.000	45.029	-0.000	11.954	0.001					
-0.037	1000	19.863	47.122	13.941	47.122	-0.000	13.941	-0.000	47.122	0.000	13.941	0.000					
-0.017	1100	19.863	49.015	15.927	49.016	-0.001	15.928	-0.001	49.015	0.000	15.927	-0.000					
0.005	1200	19.863	50.743	17.913	50.744	-0.001	17.914	-0.001	50.743	-0.000	17.913	-0.000					
0.018	1300	19.863	52.333	19.900	52.334	-0.001	19.900	-0.000	52.333	-0.000	19.900	0.000					
0.014	1400	19.863	53.805	21.886	53.806	-0.001	21.887	-0.001	53.805	-0.000	21.886	0.000					
-0.012	1500	19.863	55.176	23.872	55.176	-0.000	23.873	-0.001	55.176	0.000	23.872	-0.000					
	1600	19.863	56.458	25.859	56.458	0.000	25.859	0.000	56.458	0.000	25.859	0.000					
	1700	19.863	57.662	27.845	57.662	0.000	27.845	0.000	57.662	0.000	27.845	-0.000					
	1800	19.863	58.797	29.831	58.797	-0.000	29.831	0.000	58.797	-0.000	29.831	-0.000					
	1900	19.863	59.871	31.818	59.871	-0.000	31.817	0.001	59.871	-0.000	31.818	0.000					
	2000	19.863	60.890	33.804	60.890	-0.000	33.804	-0.000	60.890	0.000	33.804	-0.000					

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MERCURY (L) HG 1 1261
 MOL. WT. = 200.590 BLOCK = 2672 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = 0.000 KEY = 543
 FITS FOR NOTS RMS = 0.000491
 1 80 0 0 0 0 0 0 0 0 0 MERCURY (L) 20J1261 543
 5.3556747E+0+1.7541913E+0-5.8131337E-1+1.1693108E-1 400 2000 21J1261 543
 9.5430374E-2-1.3592395E+0+2.4662628E+1+0.0000000E+0 HG(L) 22J1261 543

FITS FOR EST RMS LOW = 0.001050 RMS HIGH = 0.001050
 1 80 0 0 0 0 0 0 0 0 0 MERCURY (L) 20HG*
 0.00000+0+196168+5+592737+1+781257-3+342350+5+342069+2 4002000J126121HG*
 0.00000+0+196168+5+592737+1+781257-3+342350+5+342069+2 4002000J126122HG*

NEH
 HC
 DATA
 FITS
 1 80
 +4.844
 +3.176
 FITS
 1 80
 +14651
 +14651

-----NOTS-----													-----EST-----												
T	CR	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	T	CR	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M	K	K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M	K
400	6.552	20.115	0.673	20.115	0.000	0.673	-0.000	20.127	-0.012	0.678	-0.005	400	400	6.552	20.115	0.673	20.115	0.000	0.673	-0.000	20.127	-0.012	0.678	-0.005	400
500	6.495	21.570	1.325	21.569	0.001	1.325	0.000	21.567	0.003	1.323	0.002	500	500	6.495	21.570	1.325	21.569	0.001	1.325	0.000	21.567	0.003	1.323	0.002	500
600	6.486	22.752	1.974	22.751	0.001	1.973	0.001	22.747	0.005	1.971	0.003	600	600	6.486	22.752	1.974	22.751	0.001	1.973	0.001	22.747	0.005	1.971	0.003	600
700	6.523	23.754	2.624	23.754	0.000	2.624	0.000	23.751	0.003	2.622	0.002	700	700	6.523	23.754	2.624	23.754	0.000	2.624	0.000	23.751	0.003	2.622	0.002	700
800	6.592	24.630	3.280	24.630	-0.000	3.280	-0.000	24.629	0.001	3.280	0.000	800	800	6.592	24.630	3.280	24.630	-0.000	3.280	-0.000	24.629	0.001	3.280	0.000	800
900	6.667	25.411	3.943	25.411	-0.000	3.943	-0.000	25.411	0.000	3.944	-0.001	900	900	6.667	25.411	3.943	25.411	-0.000	3.943	-0.000	25.411	0.000	3.944	-0.001	900
1000	6.742	26.117	4.613	26.117	-0.000	4.614	-0.001	26.117	-0.000	4.614	-0.001	1000	1000	6.742	26.117	4.613	26.117	-0.000	4.614	-0.001	26.117	-0.000	4.614	-0.001	1000
1100	6.817	26.763	5.291	26.763	-0.000	5.291	-0.000	26.763	-0.000	5.292	-0.001	1100	1100	6.817	26.763	5.291	26.763	-0.000	5.291	-0.000	26.763	-0.000	5.292	-0.001	1100
1200	6.892	27.359	5.977	27.360	-0.001	5.977	0.000	27.359	-0.000	5.977	-0.000	1200	1200	6.892	27.359	5.977	27.360	-0.001	5.977	0.000	27.359	-0.000	5.977	-0.000	1200
1300	6.967	27.914	6.670	27.914	-0.000	6.670	0.000	27.914	0.000	6.670	0.000	1300	1300	6.967	27.914	6.670	27.914	-0.000	6.670	0.000	27.914	0.000	6.670	0.000	1300
1400	7.042	28.433	7.370	28.433	-0.000	7.370	-0.000	28.433	0.000	7.370	-0.000	1400	1400	7.042	28.433	7.370	28.433	-0.000	7.370	-0.000	28.433	0.000	7.370	-0.000	1400
1500	7.117	28.922	8.078	28.922	0.000	8.078	-0.000	28.921	0.001	8.078	0.000	1500	1500	7.117	28.922	8.078	28.922	0.000	8.078	-0.000	28.921	0.001	8.078	0.000	1500
1600	7.192	29.383	8.793	29.383	-0.000	8.793	-0.000	29.382	0.001	8.793	0.000	1600	1600	7.192	29.383	8.793	29.383	-0.000	8.793	-0.000	29.382	0.001	8.793	0.000	1600
1700	7.267	29.822	9.516	29.822	0.000	9.516	-0.000	29.821	0.001	9.516	0.000	1700	1700	7.267	29.822	9.516	29.822	0.000	9.516	-0.000	29.821	0.001	9.516	0.000	1700
1800	7.342	30.239	10.247	30.239	-0.000	10.247	0.000	30.238	0.001	10.246	0.001	1800	1800	7.342	30.239	10.247	30.239	-0.000	10.247	0.000	30.238	0.001	10.246	0.001	1800
1900	7.417	30.638	10.985	30.638	-0.000	10.985	0.000	30.637	0.001	10.985	0.000	1900	1900	7.417	30.638	10.985	30.638	-0.000	10.985	0.000	30.637	0.001	10.985	0.000	1900
2000	7.492	31.020	11.730	31.021	-0.001	11.730	-0.000	31.020	0.000	11.731	-0.001	2000	2000	7.492	31.020	11.730	31.021	-0.001	11.730	-0.000	31.020	0.000	11.731	-0.001	2000

3600
 3800
 4000
 4200
 4400
 4600
 4800
 5000
 5200
 5400
 5600
 5800
 6000

MERCURY

(G)

HG 1

1261

MOL. WT. = 200.590

BLOCK = 2674

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 14.652 KEY = 544

FITS FOR NOTS RMS = 0.002572

1 80 0 0 0 0 0 0 0 0 0 MERCURY

(G) 10J1261 544

+4.8446636E+0+1.2022131E-1-3.9044871E-2+4.1424259E-3 400 6000

11J1261 544

+3.1768798E-2+1.3279334E+1+4.7721908E+1+1.4651999E+1HG(G)

12J1261 544

FITS FOR EST RMS LOW = 0.000553 RMS HIGH = 0.006732

1 80 0 0 0 0 0 0 0 0 0 MERCURY

(G) 10HG

+146519+5+134231+5+496911+1-360998-6-723000+3+532639+2 4003000J126111HG

+146519+5+134205+5+454524+1+730961-4+203844+7+532639+230 006000J126112HG

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.005	400	4.968	43.254	0.506	43.229	0.025	0.495	0.011	43.255	-0.001	0.507	-0.001
0.002	600	4.968	45.268	1.500	45.268	-0.000	1.500	-0.000	45.268	-0.000	1.500	0.000
0.003	800	4.968	46.697	2.493	46.700	-0.003	2.496	-0.003	46.697	-0.000	2.493	-0.000
0.002	1000	4.968	47.806	3.487	47.808	-0.002	3.488	-0.001	47.806	0.000	3.487	0.000
0.000	1200	4.968	48.712	4.481	48.713	-0.001	4.481	0.000	48.712	0.000	4.480	0.001
-0.001	1400	4.968	49.478	5.474	49.478	0.000	5.473	0.001	49.478	0.000	5.474	-0.000
-0.001	1600	4.968	50.141	6.468	50.141	0.000	6.466	0.002	50.141	0.000	6.468	0.000
-0.001	1800	4.968	50.726	7.461	50.726	0.000	7.460	0.001	50.726	-0.000	7.461	-0.000
-0.000	2000	4.968	51.250	8.455	51.249	0.001	8.454	0.001	51.250	0.000	8.455	-0.000
0.000	2200	4.968	51.723	9.449	51.723	-0.000	9.448	0.001	51.723	-0.000	9.449	0.000
-0.000	2400	4.968	52.155	10.442	52.156	-0.001	10.442	0.000	52.155	-0.000	10.442	-0.000
0.000	2600	4.968	52.553	11.436	52.554	-0.001	11.436	-0.000	52.553	-0.000	11.436	0.000
0.000	2800	4.968	52.921	12.430	52.922	-0.001	12.430	-0.000	52.921	-0.000	12.430	0.000
0.000	3000	4.968	53.264	13.423	53.265	-0.001	13.424	-0.001	53.264	0.000	13.423	-0.000
0.001	3000	4.968	53.264	13.423	53.265	-0.001	13.424	-0.001	53.264	0.000	13.421	0.002
0.000	3200	4.968	53.585	14.417	53.585	-0.000	14.418	-0.001	53.586	-0.001	14.417	-0.000
-0.001	3400	4.968	53.886	15.410	53.887	-0.001	15.412	-0.002	53.887	-0.001	15.412	-0.002
	3600	4.969	54.170	16.404	54.171	-0.001	16.405	-0.001	54.171	-0.001	16.406	-0.002
	3800	4.969	54.439	17.398	54.439	-0.000	17.398	-0.000	54.440	-0.001	17.399	-0.001
	4000	4.970	54.693	18.392	54.694	-0.001	18.392	0.000	54.694	-0.001	18.391	0.001
	4200	4.971	54.936	19.386	54.936	-0.000	19.386	0.000	54.937	-0.001	19.385	0.001
	4400	4.973	55.167	20.380	55.168	-0.001	20.380	0.000	55.168	-0.001	20.379	0.001
	4600	4.976	55.388	21.375	55.389	-0.001	21.375	0.000	55.389	-0.001	21.374	0.001
	4800	4.981	55.600	22.371	55.601	-0.001	22.370	0.001	55.601	-0.001	22.370	0.001
	5000	4.987	55.804	23.368	55.804	-0.000	23.367	0.001	55.804	-0.000	23.368	0.000
	5200	4.996	55.999	24.366	56.000	-0.001	24.366	-0.000	56.000	-0.001	24.367	-0.001
	5400	5.007	56.188	25.366	56.189	-0.001	25.367	-0.001	56.189	-0.001	25.368	-0.002
	5600	5.022	56.371	26.369	56.371	-0.000	26.370	-0.001	56.372	-0.001	26.371	-0.002
	5800	5.041	56.547	27.375	56.548	-0.001	27.376	-0.001	56.548	-0.001	27.376	-0.001
	6000	5.064	56.718	28.386	56.719	-0.001	28.385	0.001	56.719	-0.001	28.383	0.003

MERCURY MONIODIDE (G) HG 1I 1 1261
 MOL. WT.= 327.490 BLOCK= 2680 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 31.900 KEY = 545
 FITS FOR NOTS RMS = 0.001710
 1 53 1 80 0 0 0 0 0 0 0 MERCURY MONIODIDE (G) 10J1261 545
 1.9535484E+0+5.6825566E-1+6.4763240E-4-5.3797775E-6 400 6000 11J1261 545
 1.9029541E-3+2.9174972E+1+7.7690490E+1+3.1899993E+1HGI(G) 12J1261 545

FITS FOR EST RMS LOW = 0.000448 RMS HIGH = 0.003537
 1 53 1 80 0 0 0 0 0 0 0 MERCURY MONIODIDE (G) 10HGI
 118999+5+267010+5+894614+1+572199-3-736000+4+892349+2 4003000J126111HGI
 118999+5+267036+5+902009+1+562215-3-500912+6+892349+230006000J126112HGI

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KC/H	-----NOTS-----												-----EST-----				T
KC/H	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T				
	K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	K				
0.001	400	9.139	69.741	0.927	69.745	-0.004	0.927	0.000	69.744	-0.003	0.928	-0.001	40				
0.000	600	9.272	73.473	2.768	73.472	0.001	2.766	0.002	73.473	-0.000	2.768	-0.000	50				
0.000	800	9.393	76.157	4.635	76.155	0.002	4.632	0.003	76.157	0.000	4.634	0.001	60				
0.001	1000	9.511	78.265	6.525	78.264	0.001	6.523	0.002	78.265	-0.000	6.525	0.000	70				
0.000	1200	9.627	80.010	8.439	80.009	0.001	8.437	0.002	80.010	0.000	8.439	0.000	80				
0.000	1400	9.743	81.503	10.376	81.502	0.001	10.374	0.002	81.503	0.000	10.376	0.000	90				
0.000	1600	9.858	82.811	12.336	82.811	0.000	12.335	0.001	82.811	-0.000	12.336	-0.000	100				
0.000	1800	9.973	83.979	14.319	83.979	0.000	14.319	0.000	83.979	-0.000	14.319	-0.000	110				
0.000	2000	10.088	85.036	16.326	85.036	0.000	16.325	0.001	85.036	0.000	16.326	0.000	120				
0.000	2200	10.203	86.003	18.355	86.003	0.000	18.355	0.000	86.003	0.000	18.355	0.000	130				
0.000	2400	10.318	86.895	20.407	86.896	-0.001	20.407	-0.000	86.896	-0.001	20.407	0.000	140				
0.000	2600	10.433	87.726	22.482	87.726	-0.000	22.482	-0.000	87.726	-0.000	22.482	-0.000	150				
0.000	2800	10.548	88.503	24.580	88.503	-0.000	24.581	-0.001	88.503	-0.000	24.580	-0.000	160				
0.002	3000	10.663	89.235	26.701	89.235	-0.000	26.702	-0.001	89.235	0.000	26.701	-0.000	170				
0.000	3200	10.663	89.235	26.701	89.235	-0.000	26.702	-0.001	89.235	0.000	26.704	-0.003	180				
0.002	3400	10.778	89.927	28.845	89.927	0.000	28.846	-0.001	89.926	0.001	28.846	-0.001	190				
0.002	3600	10.892	90.583	31.012	90.584	-0.001	31.013	-0.001	90.583	0.000	31.012	0.000	200				
0.001	3800	11.007	91.209	33.202	91.210	-0.001	33.203	-0.001	91.208	0.001	33.201	0.001					
0.001	4000	11.122	91.807	35.415	91.808	-0.001	35.415	-0.000	91.806	0.001	35.414	0.001					
0.001	4200	11.237	92.381	37.651	92.381	-0.000	37.651	-0.000	92.380	0.001	37.650	0.001					
0.001	4400	11.351	92.932	39.910	92.932	-0.000	39.910	0.000	92.931	0.001	39.909	0.001					
0.001	4600	11.466	93.463	42.191	93.463	0.000	42.191	-0.000	93.462	0.001	42.191	0.000					
0.000	4800	11.581	93.975	44.496	93.975	0.000	44.496	0.000	93.974	0.001	44.496	0.000					
0.001	5000	11.696	94.470	46.824	94.470	-0.000	46.824	0.000	94.469	0.001	46.824	0.000					
0.002	5200	11.810	94.950	49.174	94.950	0.000	49.174	0.000	94.949	0.001	49.175	-0.001					
0.002	5400	11.925	95.415	51.548	95.415	-0.000	51.547	0.001	95.415	0.000	51.548	-0.000					
0.002	5600	12.040	95.867	53.944	95.868	-0.001	53.944	0.000	95.867	0.000	53.945	-0.001					
0.001	5800	12.154	96.307	56.364	96.308	-0.001	56.363	0.001	96.307	0.000	56.364	0.000					
0.003	6000	12.269	96.736	58.806	96.736	-0.000	58.806	0.000	96.735	0.001	58.806	0.000					
	6200	12.384	97.154	61.271	97.154	-0.000	61.271	-0.000	97.153	0.001	61.270	0.001					

POTASSIUM IODIDE

(C) I 1K 1 0 0 0 0

667

MOL. WT. = 166.000 BLOCK = 2686 NO. POINT = 22

DATA FROM 0 TO 2000 K HFORM (KCAL/(MOLE)) = -78.370 KEY = 546

FITS FOR NOTS RMS = 0.005475

1 19 1 53 0 0 0 0 0 0 POTASSIUM IODIDE (C) 30J 667 546
 -1.0867584E+1+4.7798248E+1-2.7207839E+1+5.2246971E+0 400 2000 31J 667 546
 +1.5608215E+0-7.2112472E+1+6.9978208E+0-7.8369995E+1K(C) 32J 667 546

FITS FOR EST RMS LOW = 0.051257 RMS HIGH = 0.051257

1 19 1 53 0 0 0 0 0 0 POTASSIUM IODIDE (C) 30IK\$
 -783699+5+463441+5+179182+2+396144-3-163465+7+619298+2 4002000J 66731IK\$
 -783699+5+463441+5+179182+2+396144-3-163465+7+619298+2 4002000J 66732IK\$

POTA
MOL
DATA
FITS
1 19 1
1.7225
-3.3182

FITS
1 19 1
747709
747709

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
01	400	12.890	29.172	1.298	29.132	0.040	1.285	0.013	29.814	-0.642	1.548	-0.250
00	500	13.232	32.083	2.604	32.125	-0.042	2.625	-0.021	32.013	0.070	2.540	0.064
01	600	13.695	34.534	3.949	34.539	-0.005	3.950	-0.001	34.320	0.214	3.809	0.140
00	700	14.287	36.688	5.347	36.672	0.016	5.334	0.013	36.520	0.168	5.237	0.110
00	800	14.971	38.640	6.809	38.627	0.013	6.799	0.010	38.561	0.079	6.767	0.042
00	900	15.725	40.446	8.344	40.448	-0.002	8.346	-0.002	40.443	0.003	8.365	-0.021
00	1000	16.500	42.144	9.956	42.153	-0.009	9.965	-0.009	42.179	-0.035	10.013	-0.057
00	1100	17.100	43.746	11.637	43.752	-0.006	11.643	-0.006	43.784	-0.038	11.698	-0.061
00	1200	17.480	45.251	13.368	45.252	-0.001	13.367	0.001	45.275	-0.024	13.411	-0.043
00	1300	17.708	46.660	15.128	46.658	0.002	15.124	0.004	46.665	-0.005	15.148	-0.020
00	1400	17.830	47.977	16.905	47.976	0.001	16.902	0.003	47.966	0.011	16.903	0.002
00	1500	17.908	49.210	18.692	49.211	-0.001	18.692	-0.000	49.188	0.022	18.675	0.017
00	1600	17.960	50.368	20.486	50.370	-0.002	20.488	-0.002	50.340	0.028	20.460	0.026
00	1700	17.981	51.457	22.283	51.459	-0.002	22.285	-0.002	51.430	0.027	22.257	0.026
03	1800	17.995	52.485	24.082	52.486	-0.001	24.082	0.000	52.463	0.022	24.065	0.017
01	1900	18.001	53.459	25.882	53.458	0.001	25.879	0.003	53.445	0.014	25.882	0.000
00	2000	18.000	54.382	27.682	54.383	-0.001	27.683	-0.001	54.382	0.000	27.708	-0.026
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POTASSIUM IODIDE (L) I 1K 1 0 0 0 0 667
 MOL. WT.= 166.000 BLOCK= 2689 NO. POINT = 24
 DATA FROM 298 TO 2500 K HFORM(KCAL/(MOLE)) = -74.771 KEY = 547
 FITS FOR NOTS RMS = 0.000953
 1 19 1 53 0 0 0 0 0 0 0 POTASSIUM IODIDE (L) 20J 667 547
 1.7225799E+1+1.6113770E-1-1.1126995E-1+2.4065285E-2 400 2500 21J 667 547
 -1.3182373E-3-7.9900390E+1+4.8096740E+1-7.4770996E+1IK(L) 22J 667 547

FITS FOR EST RMS LOW = 0.000170 RMS HIGH = 0.000170
 1 19 1 53 0 0 0 0 0 0 0 POTASSIUM IODIDE (L) 20IK*
 747709+5+467415+5+173029+2-126080-5-156800+4+672140+2 4002500J 66721IK*
 747709+5+467415+5+173029+2-126080-5-156800+4+672140+2 4002500J 66722IK*

DH	-----NOTS-----								-----EST-----				
KC/H	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
	K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	K
-0.250	400	17.300	32.357	1.762	32.355	0.002	1.761	0.001	32.358	-0.001	1.763	-0.001	400
0.064	500	17.300	36.217	3.492	36.216	0.001	3.491	0.001	36.217	-0.000	3.492	-0.000	600
0.140	600	17.300	39.371	5.222	39.370	0.001	5.221	0.001	39.371	-0.000	5.222	-0.000	800
0.110	700	17.300	42.038	6.952	42.037	0.001	6.951	0.001	42.038	0.000	6.952	0.000	1000
0.042	800	17.300	44.348	8.682	44.347	0.001	8.681	0.001	44.348	0.000	8.682	0.000	1200
-0.021	900	17.300	46.386	10.412	46.385	0.001	10.411	0.001	46.385	0.001	10.412	0.000	1400
-0.057	1000	17.300	48.208	12.142	48.208	-0.000	12.142	0.000	48.208	0.000	12.142	0.000	1600
-0.061	1100	17.300	49.857	13.872	49.857	-0.000	13.872	0.000	49.857	0.000	13.872	0.000	1800
-0.043	1200	17.300	51.363	15.602	51.363	0.000	15.602	-0.000	51.362	0.001	15.602	0.000	2000
-0.020	1300	17.300	52.747	17.332	52.748	-0.001	17.333	-0.001	52.747	0.000	17.332	0.000	2200
0.002	1400	17.300	54.029	19.062	54.030	-0.001	19.063	-0.001	54.029	-0.000	19.062	0.000	2400
0.017	1500	17.300	55.223	20.792	55.224	-0.001	20.793	-0.001	55.223	0.000	20.792	0.000	2600
0.026	1600	17.300	56.339	22.522	56.340	-0.001	22.523	-0.001	56.339	-0.000	22.522	0.000	2800
0.026	1700	17.300	57.388	24.252	57.389	-0.001	24.253	-0.001	57.388	-0.000	24.252	0.000	3000
0.017	1800	17.300	58.377	25.982	58.378	-0.001	25.982	-0.001	58.377	0.000	25.982	0.000	3000
0.000	1900	17.300	59.312	27.712	59.313	-0.001	27.712	-0.000	59.312	-0.000	27.712	0.000	3200
-0.026	2000	17.300	60.200	29.442	60.200	-0.000	29.442	0.000	60.200	0.000	29.442	-0.000	3400
	2100	17.300	61.044	31.172	61.044	-0.000	31.172	0.000	61.044	0.000	31.172	0.000	3600
	2200	17.300	61.849	32.902	61.849	0.000	32.901	0.001	61.848	0.001	32.902	0.000	3800
	2300	17.300	62.618	34.632	62.618	0.000	34.631	0.001	62.617	0.001	34.632	0.000	4000
	2400	17.300	63.354	36.362	63.354	-0.000	36.362	0.000	63.354	0.000	36.362	0.000	4200
	2500	17.300	64.060	38.092	64.061	-0.001	38.092	-0.000	64.060	0.000	38.092	0.000	4400
													4600
													4800
													5000
													5200
													5400
													5600
													5800
													6000

POTASSIUM IODIDE, DIMERIC (G) I 2K 2 0 0 0 0 667
 MOL. WT. = 332.010 BLOCK = 2697 NO. POINT = 62
 DATA FROM 0 TO 6000 K HPORN(KCAL/(MOLE)) = -100.900 KEY = 549
 FITS FOR NOTS RMS = 0.003126
 19 2 53 0 0 0 0 0 0 0 POTASSIUM IODIDE, DIMERIC (G) 10J 667 549
 1.9884323E+1-2.5110975E-3-9.9366554E-4+1.9367202E-4 400 6000 11J 667 549
 .6107788E-2-1.0691120E+2+1.1849623E+2-1.0089999E+2I2K2(G) 12J 667 549

FITS FOR EST RMS LOW = 0.000559 RMS HIGH = 0.006047
 19 2 53 0 0 0 0 0 0 0 POTASSIUM IODIDE, DIMERIC (G) 10I2K2
 100899+6+536329+5+198734+2-562595-6-206240+5+140331+3 4003000J 66711I2K2
 100899+6+536374+5+200032+2-191327-4-874240+6+140331+330006000J 66712I2K2

DH	-----NOTS-----												-----EST-----			
KC/M	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
-0.000	400	19.753	100.351	2.008	100.357	-0.006	2.008	0.000	100.354	-0.003	2.009	-0.001	4			
-0.000	600	19.819	108.375	5.966	108.373	0.002	5.962	0.004	108.376	-0.001	5.967	-0.001	6			
-0.000	800	19.842	114.080	9.933	114.077	0.003	9.928	0.005	114.080	-0.000	9.933	0.000	8			
0.000	1000	19.853	118.509	13.902	118.506	0.003	13.898	0.004	118.509	-0.000	13.902	-0.000	10			
0.000	1200	19.858	122.129	17.873	122.127	0.002	17.869	0.004	122.129	-0.000	17.873	-0.000	12			
-0.000	1400	19.862	125.191	21.846	125.189	0.002	21.842	0.004	125.191	0.000	21.845	0.001	14			
0.000	1600	19.864	127.843	25.818	127.842	0.001	25.816	0.002	127.843	0.000	25.818	0.000	16			
0.000	1800	19.866	130.183	29.791	130.182	0.001	29.790	0.001	130.183	0.000	29.791	0.000	18			
-0.000	2000	19.867	132.276	33.764	132.276	0.000	33.764	0.000	132.276	0.000	33.764	-0.000	20			
-0.000	2200	19.868	134.169	37.738	134.170	-0.001	37.738	0.000	134.170	-0.001	37.738	0.000	22			
-0.000	2400	19.868	135.898	41.711	135.899	-0.001	41.712	-0.001	135.898	-0.000	41.711	-0.000	24			
0.000	2600	19.869	137.489	45.685	137.489	-0.000	45.686	-0.001	137.489	0.000	45.685	-0.000	26			
-0.002	2800	19.869	138.961	49.659	138.962	-0.001	49.660	-0.001	138.961	-0.000	49.659	-0.000	28			
-0.001	3000	19.870	140.332	53.633	140.333	-0.001	53.634	-0.001	140.332	0.000	53.633	0.000	30			
0.001	3200	19.870	140.332	53.633	140.333	-0.001	53.634	-0.001	140.332	0.000	53.637	-0.004	30			
0.001	3400	19.870	141.614	57.607	141.615	-0.001	57.608	-0.001	141.613	0.001	57.608	-0.001	32			
0.001	3600	19.870	142.819	61.581	142.820	-0.001	61.582	-0.001	142.817	0.002	61.580	0.001	34			
0.001	3800	19.870	143.955	65.555	143.955	-0.000	65.556	-0.001	143.953	0.002	65.553	0.002	36			
0.001	4000	19.870	145.029	69.529	145.029	-0.001	69.530	-0.001	145.027	0.002	69.527	0.002	38			
0.000	4200	19.870	146.048	73.503	146.049	-0.001	73.504	-0.001	146.046	0.002	73.501	0.002	40			
0.000	4400	19.871	147.018	77.477	147.018	-0.000	77.477	-0.001	147.016	0.002	77.475	0.002	42			
0.000	4600	19.871	147.942	81.451	147.942	-0.000	81.451	-0.000	147.940	0.002	81.450	0.001	44			
-0.001	4800	19.871	148.825	85.425	148.826	-0.001	85.425	-0.000	148.824	0.001	85.425	0.000	46			
-0.000	5000	19.871	149.671	89.399	149.671	-0.000	89.399	-0.000	149.670	0.001	89.400	-0.001	48			
-0.000	5200	19.871	150.482	93.374	150.482	-0.000	93.373	0.001	150.481	0.001	93.374	-0.000	50			
-0.000	5400	19.871	151.261	97.348	151.262	-0.001	97.347	0.001	151.260	0.001	97.349	-0.001	52			
0.000	5600	19.871	152.011	101.322	152.012	-0.001	101.321	0.001	152.010	0.001	101.323	-0.001	54			
0.001	5800	19.871	152.734	105.296	152.734	-0.000	105.296	0.000	152.733	0.001	105.297	-0.001	56			
	6000	19.871	153.431	109.270	153.432	-0.001	109.270	-0.000	153.430	0.001	109.270	0.000	58			
	6000	19.871	154.105	113.245	154.105	-0.000	113.245	-0.000	154.103	0.002	113.243	0.002	60			

CARBONYL MONOFLUORIDE

(G)

C 1F 10 1

1265

MOL. WT. = 47.000

BLOCK = 2704

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = -41.000 KEY = 550

FITS FOR NOTS RMS = 0.010291

1 6 1 8 1 9 0 0 0 0 0 CARBONYL MONOFLUORIDE (G) 10J1265 550
 +1.3032248E+1+5.2942311E-1-1.1419856E-1+8.3709321E-3 400 6000 11J1265 550
 -7.6916503E-1-4.7082656E+1+7.1806701E+1-4.1000000E+1CFO(G) 12J1265 550

FITS FOR EST RMS LOW = 0.016099 RMS HIGH = 0.004213

1 6 1 8 1 9 0 0 0 0 0 CARBONYL MONOFLUORIDE (G) 10CFO
 -410000+5+348039+5+133618+2+171328-3-832272+6+873199+2 4003000J126511CFO
 -410000+5+348002+5+140020+2-135121-4-221435+7+873199+230006000J126512CFO

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.001	400	10.106	62.212	0.990	62.472	-0.260	1.093	-0.103	62.506	-0.294	1.109	-0.119
-0.001	600	11.310	66.554	3.139	66.515	0.039	3.106	0.033	66.513	0.041	3.105	0.034
0.000	800	12.099	69.923	5.486	69.888	0.035	5.455	0.031	69.886	0.037	5.455	0.031
-0.000	1000	12.607	72.682	7.960	72.666	0.016	7.947	0.013	72.668	0.014	7.950	0.010
-0.000	1200	12.940	75.012	10.517	75.009	0.004	10.517	0.000	75.011	0.001	10.521	-0.004
0.001	1400	13.165	77.025	13.129	77.025	0.000	13.134	-0.005	77.028	-0.003	13.139	-0.010
0.000	1600	13.323	78.794	15.779	78.794	-0.000	15.785	-0.006	78.797	-0.003	15.788	-0.009
0.000	1800	13.436	80.370	18.455	80.370	0.000	18.460	-0.005	80.371	-0.001	18.461	-0.006
-0.000	2000	13.521	81.790	21.151	81.789	0.001	21.154	-0.003	81.789	0.001	21.152	-0.001
0.000	2200	13.585	83.082	23.862	83.080	0.002	23.863	-0.001	83.078	0.004	23.859	0.003
-0.000	2400	13.634	84.266	26.584	84.263	0.003	26.583	0.001	84.262	0.004	26.579	0.005
-0.000	2600	13.674	85.359	29.315	85.356	0.003	29.313	0.002	85.355	0.004	29.310	0.005
-0.000	2800	13.705	86.373	32.053	86.370	0.003	32.051	0.002	86.371	0.002	32.052	0.001
0.000	3000	13.731	87.320	34.797	87.317	0.003	34.795	0.002	87.320	0.000	34.804	-0.007
-0.004	3000	13.731	87.320	34.797	87.317	0.003	34.795	0.002	87.320	0.000	34.800	-0.003
-0.001	3200	13.752	88.207	37.545	88.204	0.003	37.544	0.001	88.206	0.001	37.546	-0.001
0.001	3400	13.770	89.041	40.297	89.038	0.003	40.297	0.000	89.040	0.001	40.297	0.000
0.002	3600	13.785	89.829	43.053	89.826	0.003	43.053	-0.000	89.827	0.002	43.052	0.001
0.002	3800	13.797	90.574	45.811	90.572	0.002	45.812	-0.001	90.573	0.001	45.810	0.001
0.002	4000	13.808	91.282	48.572	91.280	0.002	48.573	-0.001	91.281	0.001	48.570	0.002
0.002	4200	13.818	91.956	51.334	91.954	0.002	51.336	-0.002	91.955	0.001	51.333	0.001
0.001	4400	13.826	92.599	54.099	92.597	0.002	54.101	-0.002	92.598	0.001	54.098	0.001
0.000	4600	13.833	93.214	56.865	93.212	0.002	56.866	-0.001	93.213	0.001	56.865	0.000
-0.001	4800	13.839	93.803	59.632	93.800	0.003	59.632	-0.000	93.802	0.001	59.632	-0.000
-0.000	5000	13.845	94.368	62.400	94.365	0.003	62.400	0.000	94.367	0.001	62.401	-0.001
-0.001	5200	13.850	94.911	65.170	94.908	0.003	65.168	0.002	94.910	0.001	65.171	-0.001
-0.001	5400	13.854	95.434	67.940	95.431	0.003	67.938	0.002	95.433	0.001	67.941	-0.001
-0.001	5600	13.858	95.938	70.711	95.935	0.003	70.710	0.001	95.937	0.001	70.712	-0.001
0.000	5800	13.862	96.424	73.483	96.421	0.003	73.483	0.000	96.423	0.001	73.483	-0.000
0.002	6000	13.865	96.894	76.256	96.892	0.002	76.258	-0.002	96.893	0.001	76.255	0.001

TITANIUM DIIODIDE (G) I 2TI 1 0 0 0 0 1268
 MOL. WT. = 301.700 BLOCK = 2712 NO. POINT = 62
 DATA FROM 0 TO 6000 % HFORM(KCAL/(MOLE)) = -4.700 KEY = 552
 FITS FOR NOTS RMS = 0.017364
 1 22 2 53 0 0 0 0 0 0 0 TITANIUM DIIODIDE (G) 10J1268 552
 +1.2329580E+1+2.1508331E+0-3.3780795E-1+1.9808337E-2 400 6000 11J1268 552
 +5.6158447E-1-7.0530424E+0+9.3486846E+1-4.6999998E+0I2TI (G) 12J1268 552

FITS FOR EST RMS LOW = 0.009898 RMS HIGH = 0.007495
 1 22 2 53 0 0 0 0 0 0 0 TITANIUM DIIODIDE (G) 10I2TI
 -469999+4+414883+5+136596+2+910278-3+238656+6+112105+3 4003000J126811I2TI
 -469999+4+414911+5+168324+2+125214-3-802790+7+112105+330006000J126812I2TI

-----NOTS-----											
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	14.659	81.618	1.485	81.268	0.350	1.340	0.145	81.484	0.134	1.433	0.052
600	14.793	87.593	4.433	87.640	-0.047	4.472	-0.039	87.619	-0.026	4.455	-0.022
800	14.843	91.856	7.397	91.913	-0.057	7.441	-0.044	91.875	-0.020	7.413	-0.016
1000	14.880	95.172	10.369	95.195	-0.023	10.383	-0.014	95.173	-0.001	10.369	0.000
1200	14.939	97.889	13.350	97.889	0.000	13.339	0.011	97.882	0.007	13.341	0.009
1400	15.037	100.199	16.347	100.190	0.009	16.325	0.022	100.191	0.008	16.338	0.009
1600	15.177	102.216	19.368	102.208	0.008	19.348	0.020	102.212	0.004	19.364	0.004
1800	15.348	104.013	22.420	104.010	0.003	22.408	0.012	104.012	0.001	22.422	-0.002
2000	15.535	105.640	25.508	105.642	-0.002	25.505	0.003	105.641	-0.001	25.513	-0.005
2200	15.725	107.129	28.634	107.135	-0.006	28.639	-0.005	107.130	-0.001	28.638	-0.004
2400	15.907	108.505	31.798	108.513	-0.008	31.806	-0.008	108.504	0.001	31.798	-0.000
2600	16.074	109.785	34.996	109.793	-0.008	35.005	-0.009	109.783	0.002	34.993	0.003
2800	16.223	110.982	38.226	110.989	-0.007	38.233	-0.007	110.980	0.002	38.223	0.003
3000	16.355	112.106	41.484	112.112	-0.006	41.488	-0.004	112.106	0.000	41.488	-0.004
3000	16.355	112.106	41.484	112.112	-0.006	41.488	-0.004	112.106	0.000	41.491	-0.007
3200	16.471	113.165	44.767	113.170	-0.005	44.768	-0.001	113.163	0.002	44.768	-0.001
3400	16.574	114.167	48.072	114.171	-0.004	48.070	0.002	114.164	0.003	48.070	0.002
3600	16.666	115.117	51.396	115.121	-0.004	51.393	0.003	115.114	0.003	51.393	0.003
3800	16.749	116.020	54.737	116.024	-0.004	54.734	0.003	116.017	0.003	54.734	0.003
4000	16.826	116.881	58.095	116.885	-0.004	58.093	0.002	116.878	0.003	58.093	0.002
4200	16.897	117.704	61.467	117.708	-0.004	61.466	0.001	117.701	0.003	61.466	0.001
4400	16.964	118.492	64.853	118.496	-0.004	64.854	-0.001	118.489	0.003	64.854	-0.001
4600	17.026	119.247	68.252	119.252	-0.005	68.254	-0.002	119.245	0.002	68.254	-0.002
4800	17.085	119.973	71.664	119.978	-0.005	71.665	-0.001	119.971	0.002	71.665	-0.001
5000	17.140	120.672	75.086	120.676	-0.004	75.088	-0.002	120.669	0.003	75.087	-0.001
5200	17.191	121.345	78.520	121.349	-0.004	78.520	0.000	121.343	0.002	78.520	0.000
5400	17.237	121.994	81.962	121.999	-0.005	81.962	0.000	121.992	0.002	81.962	0.000
5600	17.279	122.622	85.414	122.626	-0.004	85.413	0.001	122.620	0.002	85.413	0.001
5800	17.315	123.229	88.874	123.233	-0.004	88.873	0.001	123.227	0.002	88.873	0.001
6000	17.347	123.817	92.340	123.821	-0.004	92.342	-0.002	123.815	0.002	92.341	-0.001

TITANIUM TRIIODIDE (C) I 3TI 1 0 0 0 0 1268
 MOL. WT.= 428.610 BLOCK= 2718 NO. POINT = 14
 DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -77.000 KEY = 553
 FITS FOR NOTS RMS = 0.000198
 1 22 3 53 0 0 0 0 0 0 0 TITANIUM TRIIODIDE (C) 30J1268 553
 +2.7395950E+1+1.7086229E+0+3.8543444E-2-1.3485264E-2 400 1500 31J1268 553
 +4.1198730E-4-8.5242980E+1+7.8644149E+1-7.7000000E+1I3TI(C) 32J1268 553

FITS FOR EST RMS LOW = 0.000245 RMS HIGH = 0.000245
 1 22 3 53 0 0 0 0 0 0 0 TITANIUM TRIIODIDE (C) 30I3TI\$
 -770000+5+817524+5+273993+2+173497-2-326400+4+113936+3 4001500J126831I3TI\$
 -770000+5+817524+5+273993+2+173497-2-326400+4+113936+3 4001500J126832I3TI\$

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T			
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K			
400	28.086	54.226	2.852	54.226	-0.000	2.852	0.000	54.229	-0.003	2.853	-0.001	400	3		
500	28.260	60.512	5.669	60.513	-0.001	5.669	-0.000	60.513	-0.001	5.669	-0.000	500	3		
600	28.434	65.680	8.504	65.680	-0.000	8.504	0.000	65.680	0.000	8.503	0.001	600	3		
700	28.608	70.076	11.356	70.076	-0.000	11.356	0.000	70.075	0.001	11.355	0.001	700	3		
800	28.782	73.908	14.225	73.908	0.000	14.225	-0.000	73.907	0.001	14.225	0.000	800	3		
900	28.956	77.308	17.112	77.308	0.000	17.112	-0.000	77.307	0.001	17.112	0.000	900	3		
1000	29.130	80.368	20.016	80.367	0.001	20.016	-0.000	80.367	0.001	20.016	-0.000	1000	3		
1100	29.304	83.152	22.938	83.152	0.000	22.938	-0.000	83.152	0.000	22.938	0.000	1100	3		
1200	29.478	85.709	25.877	85.709	-0.000	25.877	-0.000	85.709	0.000	25.877	-0.000	1200	3		
1300	29.652	88.076	28.834	88.076	0.000	28.834	0.000	88.075	0.001	28.834	0.000	1300	3		
1400	29.826	90.279	31.808	90.280	-0.001	31.808	0.000	90.279	-0.000	31.808	0.000	1400	3		
1500	30.000	92.343	34.799	92.343	-0.000	34.799	-0.000	92.343	0.000	34.799	-0.000	1500	3		

TITANIUM TETRAIODIDE (C) I 4TI 1 0 0 0 0 1268
 MOL. WT. = 555.510 BLOCK = 2720 NO. POINT = 17
 DATA FROM 0 TO 1500 K HFORM(KCAL/(MOLE)) = -89.800 KEY = 554
 FITS FOR NOTS RMS = 0.000216
 1 22 4 53 0 0 0 0 0 0 0 TITANIUM TETRAIODIDE (C) 30J1268 554
 +3.5070449E+1+8.3037590E-1-7.4044257E-1+2.2250688E-1 400 1500 31J1268 554
 +1.7608642E-2-9.8160522E+1+1.0649482E+2-8.9799987E+1I4TI(C) 32J1268 554

FITS FOR EST RMS LOW = 0.000167 RMS HIGH = 0.000167
 1 22 4 53 0 0 0 0 0 0 0 TITANIUM TETRAIODIDE (C) 30I4TI\$
 -897999+5+977051+5+354132+2-876015-5-348800+4+145905+3 4001500J126831I4TI\$
 -897999+5+977051+5+354132+2-876015-5-348800+4+145905+3 4001500J126832I4TI\$

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
1 -0.001	400	35.400	74.583	5.676	74.583	0.000	5.676	0.000	74.585	-0.002	5.677	-0.001	
2 -0.000	500	35.400	82.482	9.216	82.483	-0.001	9.216	0.000	82.482	-0.000	9.216	-0.000	
3 0.001	600	35.400	88.937	12.756	88.936	0.001	12.756	0.000	88.936	0.001	12.756	0.000	
4 0.001	700	35.400	94.394	16.296	94.393	0.001	16.296	0.000	94.393	0.001	16.296	0.000	
5 0.000	800	35.400	99.121	19.836	99.121	0.000	19.836	0.000	99.120	0.001	19.836	0.000	
6 0.000	900	35.400	103.290	23.376	103.290	-0.000	23.376	-0.000	103.290	0.000	23.376	0.000	
7 -0.000	1000	35.400	107.020	26.916	107.020	-0.000	26.916	-0.000	107.019	0.001	26.916	0.000	
8 0.000	1100	35.400	110.394	30.456	110.394	-0.000	30.456	-0.000	110.394	0.000	30.456	-0.000	
9 -0.000	1200	35.400	113.474	33.996	113.474	-0.000	33.996	-0.000	113.474	0.000	33.996	-0.000	
10 0.000	1300	35.400	116.308	37.536	116.308	0.000	37.536	0.000	116.307	0.001	37.536	-0.000	
11 0.000	1400	35.400	118.931	41.076	118.931	0.000	41.076	0.000	118.931	0.000	41.076	-0.000	
12 -0.000	1500	35.400	121.373	44.616	121.374	-0.001	44.616	-0.000	121.373	0.000	44.616	0.000	

68

TITANIUM TETRAIODIDE (L) I 4TI 1 0 0 0 0 1268
 MOL. WT.= 555.510 BLOCK= 2722 NO. POINT = 14
 DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -83.250 KEY = 555
 ITS FOR NOTS RMS = 0.000227
 2 4 53 0 0 0 0 0 0 0 TITANIUM TETRAIODIDE (L) 20J1268 555
 2066040E+1+8.3647978E-1-7.4272209E-1+2.2250688E-1 400 1500 21J1268 555
 142700E-2-9.4274871E+1+1.1676170E+2-8.3250000E+1I4TI (L) 22J1268 555

554

554

554

ITS FOR EST RMS LOW = 0.000174 RMS HIGH = 0.000174
 22 4 53 0 0 0 0 0 0 0 TITANIUM TETRAIODIDE (L) 20I4TI*
 2500+5+101037+6+374143+2-945540-5-374400+4+160874+3 4001500J126821I4TI*
 2500+5+101037+6+374143+2-945540-5-374400+4+160874+3 4001500J126822I4TI*

-----NOTS-----												
-----EST-----												
DH	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
677 -0.001	37.400	85.522	3.809	83.022	2.500	3.809	0.000	85.525	-0.003	3.810	-0.001	
216 -0.000	37.400	93.868	7.549	91.368	2.500	7.549	0.000	93.868	-0.000	7.549	-0.000	
756 0.000	37.400	100.687	11.289	98.186	2.501	11.289	0.000	100.686	0.001	11.289	0.000	
296 0.000	37.400	106.452	15.029	103.952	2.500	15.029	0.000	106.452	0.000	15.029	0.000	
836 0.000	37.400	111.446	18.769	108.946	2.500	18.769	0.000	111.446	0.000	18.769	0.000	
376 0.000	37.400	115.851	22.509	113.351	2.500	22.509	-0.000	115.851	0.000	22.509	0.000	
916 0.000	37.400	119.791	26.249	117.292	2.499	26.249	-0.000	119.792	-0.001	26.249	0.000	
456 -0.000	37.400	123.356	29.989	120.856	2.500	29.989	-0.000	123.356	-0.000	29.989	0.000	
996 -0.000	37.400	126.610	33.729	124.111	2.499	33.729	-0.000	126.611	-0.001	33.729	-0.000	
536 -0.000	37.400	129.604	37.469	127.104	2.500	37.469	0.000	129.604	-0.000	37.469	-0.000	
076 -0.000	37.400	102.376	41.209	129.875	-27.499	41.209	0.000	132.376	-30.000	41.209	0.000	
616 0.000	37.400	134.956	44.949	132.456	2.500	44.949	-0.000	134.956	0.000	44.949	0.000	

TITANIUM TETRAIODIDE

(G)

I 4TI 1 0 0 0 0

1268

MOL. WT. = 555.510

BLOCK = 2723

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = -66.270 KEY = 556

FITS FOR NOTS RMS = 0.003850

555

1 22 4 53 0 0 0 0 0 0 0 TITANIUM TETRAIODIDE (G) 10J1268 556

555

+2.5856613E+1-1.0082080E-2+8.2329148E-4+4.8418005E-5 400 6000 11J1268 556

555

-9.7656250E-2-7.4292999E+1+1.3426802E+2-6.6269989E+1I4TI (G) 12J1268 556

FITS FOR EST RMS LOW = 0.000611 RMS HIGH = 0.007687

1 22 4 53 0 0 0 0 0 0 0 TITANIUM TETRAIODIDE (G) 10I4TI

-662699+5+695409+5+258337+2+000000+0-877120+5+162652+3 4003000J126811I4TI

-662699+5+695469+5+260218+2-275636-4-129920+7+162652+330006000J126812I4TI

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
810 -0.001	400	25.309	110.864	2.560	110.877	-0.013	2.563	-0.003	110.870	-0.006	2.563	-0.003	
549 -0.000	600	25.595	121.191	7.657	121.190	0.001	7.652	0.005	121.192	-0.001	7.657	0.000	
289 0.000	800	25.698	128.571	12.787	128.567	0.004	12.781	0.006	128.571	0.000	12.787	-0.000	
029 0.000	1000	25.747	134.311	17.932	134.307	0.004	17.926	0.006	134.311	0.000	17.932	0.000	
769 0.000	1200	25.773	139.008	23.065	139.005	0.003	23.080	0.005	139.007	0.001	23.084	0.001	
509 0.000	1400	25.789	142.982	28.241	142.980	0.002	28.237	0.004	142.982	0.000	28.240	0.001	
249 0.000	1600	25.799	146.426	33.400	146.425	0.001	33.397	0.003	146.426	0.000	33.399	0.001	
989 0.000	1800	25.806	149.465	38.560	149.465	0.000	38.558	0.002	149.465	-0.000	38.560	0.000	
729 -0.000	2000	25.811	152.185	43.722	152.184	0.001	43.721	0.001	152.184	0.001	43.722	0.000	
469 -0.000	2200	25.815	154.645	48.885	154.645	0.000	48.885	0.000	154.645	0.000	48.885	0.000	
209 0.000	2400	25.818	156.891	54.048	156.892	-0.001	54.049	-0.001	156.891	-0.000	54.048	-0.000	
949 0.000	2600	25.820	158.958	59.212	158.958	-0.000	59.213	-0.001	158.958	0.000	59.212	0.000	
	2800	25.822	160.871	64.376	160.872	-0.001	64.378	-0.002	160.871	-0.000	64.376	-0.000	
	3000	25.823	162.653	69.541	162.654	-0.001	69.542	-0.001	162.653	0.000	69.541	0.000	
	3000	25.823	162.653	69.541	162.654	-0.001	69.542	-0.001	162.653	0.000	69.547	-0.006	
	3200	25.825	164.320	74.706	164.320	-0.000	74.707	-0.001	164.318	0.002	74.707	-0.001	
	3400	25.826	165.885	79.871	165.886	-0.001	79.872	-0.001	165.883	0.002	79.869	0.002	
	3600	25.826	167.361	85.036	167.362	-0.001	85.037	-0.001	167.359	0.002	85.033	0.003	
	3800	25.827	168.758	90.201	168.758	-0.000	90.203	-0.002	168.755	0.003	90.198	0.003	
	4000	25.828	170.083	95.367	170.083	-0.000	95.368	-0.001	170.080	0.003	95.364	0.003	
	4200	25.828	171.343	100.532	171.343	-0.000	100.533	-0.001	171.340	0.003	100.530	0.002	
	4400	25.829	172.544	105.698	172.545	-0.001	105.699	-0.001	172.542	0.002	105.697	0.001	
	4600	25.829	173.692	110.864	173.693	-0.001	110.864	-0.000	173.690	0.002	110.864	0.000	
	4800	25.829	174.792	116.030	174.792	-0.000	116.030	0.000	174.790	0.002	116.030	-0.000	
	5000	25.830	175.846	121.196	175.846	-0.000	121.195	0.001	175.844	0.002	121.197	-0.001	
	5200	25.830	176.859	126.362	176.859	-0.000	126.361	0.001	176.857	0.002	126.363	-0.001	
	5400	25.830	177.834	131.528	177.834	-0.000	131.527	0.001	177.832	0.002	131.529	-0.001	
	5600	25.830	178.773	136.694	178.774	-0.001	136.693	0.001	178.771	0.001	136.694	-0.001	
	5800	25.831	179.680	141.860	179.680	-0.000	141.860	0.000	179.678	0.002	141.859	0.001	
	6000	25.831	180.556	147.026	180.556	0.000	147.026	-0.000	180.553	0.003	147.024	0.002	

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-6.4

FI
1 1
+213
+213

[illegible]

POTASSIUM

(G) K 1

662

MOL. WT. = 39.100 BLOCK = 2738 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = 21.310 KEY = 559
 FITS FOR NOTS RMS = 0.123152

1 19 0 0 0 0 0 0 0 0 POTASSIUM (G) 10J 662 559
 +6.2952365E+0-3.8053321E-1-3.1978797E-1+1.1855953E-1 400 6000 11J 662 559
 -6.4184570E-1+1.8044128E+1+4.4404495E+1+2.1309997E+1K (G) 12J 662 559

FITS FOR EST RMS LOW = 0.020783 RMS HIGH = 0.139413

1 19 0 0 0 0 0 0 0 0 POTASSIUM (G) 10K
 +213099+5+136414+5+437321+1+309942-3+222406+6+498569+2 4003000J 66211K
 +213099+5+135364+5-342290+2+788439-2+154643+9+498569+230006000J 66212K

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
61	0.020	400	4.968	39.757	0.506	40.467	-0.710	0.820	-0.314	39.557	0.200	0.419	0.087
38	-0.015	600	4.968	41.771	1.500	41.803	-0.032	1.493	0.007	41.778	-0.007	1.510	-0.010
63	-0.013	800	4.968	43.200	2.493	43.115	0.085	2.408	0.085	43.233	-0.033	2.521	-0.028
69	-0.003	1000	4.968	44.309	3.487	44.225	0.084	3.404	0.083	44.334	-0.025	3.507	-0.020
73	0.004	1200	4.968	45.215	4.481	45.157	0.058	4.427	0.054	45.227	-0.012	4.487	-0.006
83	0.007	1400	4.970	45.981	5.474	45.949	0.032	5.454	0.020	45.984	-0.003	5.469	0.005
05	0.005	1600	4.975	46.645	6.469	46.632	0.013	6.478	-0.009	46.643	0.002	6.456	0.013
42	0.001	1800	4.988	47.231	7.465	47.231	-0.000	7.495	-0.030	47.229	0.002	7.451	0.013
97	-0.002	2000	5.013	47.758	8.465	47.764	-0.006	8.506	-0.041	47.758	-0.000	8.456	0.009
71	-0.003	2200	5.057	48.238	9.471	48.244	-0.006	9.514	-0.043	48.242	-0.004	9.471	-0.000
66	-0.003	2400	5.122	48.680	10.489	48.684	-0.004	10.524	-0.035	48.688	-0.008	10.497	-0.008
81	-0.001	2600	5.213	49.094	11.522	49.091	0.003	11.543	-0.021	49.103	-0.009	11.534	-0.012
19	0.000	2800	5.334	49.484	12.576	49.476	0.008	12.580	-0.004	49.491	-0.007	12.582	-0.006
79	0.001	3000	5.489	49.857	13.658	49.843	0.014	13.644	0.014	49.857	0.000	13.641	0.017
62	0.001	3000	5.489	49.857	13.658	49.843	0.014	13.644	0.014	49.857	0.000	13.536	0.122
67	0.001	3200	5.685	50.218	14.775	50.198	0.020	14.746	0.029	50.265	-0.047	14.801	-0.026
96	-0.001	3400	5.932	50.569	15.935	50.547	0.022	15.898	0.037	50.629	-0.060	16.001	-0.066
		3600	6.242	50.917	17.152	50.895	0.022	17.114	0.038	50.972	-0.055	17.201	-0.049
		3800	6.630	51.264	18.438	51.244	0.020	18.409	0.029	51.310	-0.046	18.451	-0.013
		4000	7.111	51.616	19.810	51.600	0.016	19.797	0.013	51.653	-0.037	19.790	0.020
		4200	7.701	51.977	21.289	51.966	0.011	21.296	-0.007	52.009	-0.032	21.250	0.039
		4400	8.412	52.351	22.899	52.345	0.006	22.924	-0.026	52.383	-0.032	22.859	0.040
		4600	9.250	52.743	24.663	52.739	0.004	24.701	-0.038	52.778	-0.035	24.637	0.026
		4800	10.215	53.157	26.607	53.153	0.004	26.647	-0.040	53.196	-0.039	26.603	0.004
		5000	11.294	53.595	28.756	53.589	0.006	28.782	-0.026	53.639	-0.044	28.773	-0.017
		5200	12.467	54.061	31.131	54.050	0.011	31.131	-0.000	54.107	-0.046	31.158	-0.027
		5400	13.701	54.555	33.747	54.537	0.018	33.717	0.030	54.600	-0.045	33.772	-0.025
		5600	14.953	55.075	36.613	55.055	0.020	36.565	0.048	55.118	-0.043	36.621	-0.008
		5800	16.178	55.622	39.727	55.605	0.017	39.700	0.027	55.661	-0.039	39.716	0.011
		6000	17.326	56.190	43.079	56.190	0.000	43.151	-0.072	56.228	-0.038	43.063	0.016

POTASSIUM, DIMERIC (G) K 2 1261
 MOL. WT.= 78.200 BLOCK= 2744 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 30.374 KEY = 560
 FITS FOR NOTS RMS = 0.001768
 19 0 0 0 0 0 0 0 0 0 POTASSIUM, DIMERIC (G) 10J1261 560
 1.9507274E+0+4.8965072E-1+1.8484366E-5+4.8418005E-5 400 6000 11J1261 560
 7.0190429E-3+2.7663009E+1+7.0323791E+1+3.0373992E+1K2 (G) 12J1261 560

FITS FOR EST RMS LOW = 0.000490 RMS HIGH = 0.003512
 2 19 0 0 0 0 0 0 0 0 0 POTASSIUM, DIMERIC (G) 10K2
 303739+5+263476+5+894204+1+492933-3-305600+4+816269+2 4003000J12611K2
 303739+5+263504+5+902368+1+480759-3-525584+6+816269+230006000J12611K2

H C/M	-----NOTS-----												T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
.087	400	9.121	62.336	0.926	62.340	-0.004	0.926	-0.000	62.337	-0.001	0.926	-0.000	400
.010	600	9.230	66.056	2.761	66.055	0.001	2.759	0.002	66.056	-0.000	2.761	-0.000	600
.028	800	9.332	68.725	4.617	68.724	0.001	4.615	0.002	68.726	-0.001	4.618	-0.001	800
.006	1000	9.432	70.818	6.494	70.817	0.001	6.492	0.002	70.819	-0.001	6.494	0.000	1000
.005	1200	9.532	72.547	8.390	72.546	0.001	8.388	0.002	72.547	-0.000	8.390	-0.000	1200
.013	1400	9.631	74.024	10.307	74.023	0.001	10.305	0.002	74.024	0.000	10.306	0.001	1400
.013	1600	9.730	75.316	12.243	75.316	0.000	12.241	0.002	75.316	-0.000	12.242	0.001	1600
.009	1800	9.828	76.468	14.198	76.467	0.001	14.198	0.000	76.468	0.000	14.198	-0.000	1800
.000	2000	9.927	77.508	16.174	77.508	-0.000	16.173	0.001	77.509	-0.001	16.174	0.000	2000
.008	2200	10.026	78.459	18.169	78.459	-0.000	18.169	-0.000	78.459	-0.000	18.169	-0.000	2200
.012	2400	10.124	79.336	20.184	79.336	0.000	20.184	-0.000	79.336	0.000	20.184	-0.000	2400
.006	2600	10.223	80.150	22.219	80.150	-0.000	22.219	-0.000	80.150	-0.000	22.219	0.000	2600
.017	2800	10.322	80.911	24.273	80.912	-0.001	24.274	-0.001	80.911	-0.000	24.273	-0.000	2800
.122	3000	10.420	81.627	26.348	81.627	-0.000	26.348	-0.000	81.627	0.000	26.348	0.000	3000
.026	3000	10.420	81.627	26.348	81.627	-0.000	26.348	-0.000	81.627	0.000	26.350	-0.002	3200
.066	3200	10.519	82.302	28.442	82.303	-0.001	28.442	0.000	82.302	0.000	28.442	-0.000	3400
.049	3400	10.617	82.943	30.555	82.943	-0.000	30.556	-0.001	82.942	0.001	30.555	0.000	3600
.013	3600	10.716	83.553	32.688	83.553	0.000	32.689	-0.001	83.552	0.001	32.687	0.001	3800
.020	3800	10.814	84.135	34.841	84.135	0.000	34.842	-0.001	84.134	0.001	34.840	0.001	4000
.039	4000	10.913	84.692	37.014	84.692	-0.000	37.014	-0.000	84.691	0.001	37.013	0.001	4200
.040	4200	11.011	85.227	39.207	85.227	0.000	39.207	0.000	85.226	0.001	39.206	0.001	4400
.026	4400	11.110	85.741	41.419	85.741	-0.000	41.419	0.000	85.740	0.001	41.418	0.001	4600
.004	4600	11.208	86.237	43.651	86.237	-0.000	43.650	0.001	86.237	0.000	43.650	0.001	4800
.017	4800	11.307	86.716	45.902	86.716	-0.000	45.902	0.000	86.716	0.000	45.902	-0.000	
.027	5000	11.406	87.180	48.173	87.180	-0.000	48.173	0.000	87.179	0.001	48.174	-0.001	
.025	5200	11.504	87.629	50.464	87.629	-0.000	50.464	0.000	87.629	0.000	50.465	-0.001	
.008	5400	11.603	88.065	52.775	88.065	-0.000	52.775	0.000	88.065	0.000	52.775	-0.000	
.011	5600	11.701	88.489	55.105	88.489	-0.000	55.105	-0.000	88.488	0.001	55.106	-0.001	
.016	5800	11.800	88.901	57.455	88.901	-0.000	57.455	-0.000	88.901	0.000	57.455	-0.000	
	6000	11.898	89.303	59.825	89.303	-0.000	59.825	-0.000	89.302	0.001	59.824	0.001	

TU
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 1 74
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666

FITS FOR NOTS RMS = 0.342052

1 74 0 0 0 0 0 0 0 0 0 TUNGSTEN	(C)	30J	666	562
+2.0003814E+1-1.0537546E+1+2.0243339E+0+1.4756721E-1 400 4800		31J	666	562
-3.9429321E+0-1.5272369E+1+2.2436737E+1+0.0000000E+0W(C)		32J	666	562

FITS FOR EST RMS LOW = 2.263558 RMS HIGH = 2.263558

1 74 0 0 0 0 0 0 0 0 0 0 TUNGSTEN (C) 30WS
+000000+0+192315+5-169440+2+889844-2+162041+8+235399+2 4004800J 66631WS
+000000+0+192315+5-169440+2+889844-2+162041+8+235399+2 4004800J 66632WS

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TUNGSTEN (G) W 1 0 0 0 0 0 666
 MOL. WT. = 183.850 BLOCK = 2768 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 203.400 KEY = 564
 FITS FOR NOTS RMS = 0.069069
 1 74 0 0 0 0 0 0 0 0 TUNGSTEN (G) 10J 666 564
 +1.8838378E+1-9.1154937E+0+2.2843017E+0-1.7033988E-1 400 6000 11J 666 564
 -2.0950927E+0+1.9177481E+2+5.7207229E+1+2.0339999E+2W (G) 12J 666 564

FITS FOR EST RMS LOW = 0.130062 RMS HIGH = 0.036389
 1 74 0 0 0 0 0 0 0 0 TUNGSTEN (G) 10W
 +203399+6+215659+5+115442+2-166979-2-538608+6+594049+2 4003000J 66611W
 +203399+6+216801+5+441640+1+912083-3-149566+7+594049+230006000J 66612W

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M	T
-1.671	400	5.536	43.099	0.538	43.026	0.073	0.466	0.072	42.139	0.960	0.098	0.440	K
-0.289	600	7.251	45.641	1.804	45.424	0.217	1.688	0.116	45.551	0.090	1.791	0.013	10
0.185	800	9.026	47.985	3.442	48.050	-0.065	3.520	-0.078	48.211	-0.226	3.642	-0.200	60
0.321	1000	9.855	50.109	5.348	50.225	-0.116	5.469	-0.121	50.301	-0.192	5.516	-0.168	80
0.311	1200	9.787	51.910	7.324	51.977	-0.067	7.391	-0.067	51.990	-0.080	7.367	-0.043	100
0.237	1400	9.297	53.384	9.236	53.401	-0.017	9.238	-0.002	53.386	-0.002	9.178	0.058	120
0.139	1600	8.721	54.588	11.037	54.577	0.011	10.998	0.039	54.561	0.027	10.938	0.099	140
0.043	1800	8.205	55.584	12.728	55.565	0.019	12.674	0.054	55.565	0.019	12.642	0.086	160
-0.040	2000	7.796	56.427	14.326	56.410	0.017	14.278	0.048	56.431	-0.004	14.286	0.040	180
-0.098	2200	7.499	57.155	15.854	57.146	0.009	15.822	0.032	57.186	-0.031	15.869	-0.015	200
-0.127	2400	7.304	57.798	17.333	57.798	-0.000	17.320	0.013	57.848	-0.050	17.389	-0.056	20
-0.107	2600	7.197	58.378	18.781	58.385	-0.007	18.787	-0.006	58.431	-0.053	18.846	-0.065	40
-0.071	2800	7.167	58.910	20.217	58.922	-0.012	20.235	-0.018	58.947	-0.037	20.238	-0.021	60
-0.043	3000	7.200	59.405	21.652	59.419	-0.014	21.678	-0.026	59.405	0.000	21.566	0.086	80
-0.021	3000	7.200	59.405	21.652	59.419	-0.014	21.678	-0.026	59.405	0.000	21.680	-0.028	100
-0.005	3200	7.284	59.872	23.100	59.887	-0.015	23.126	-0.026	59.862	0.010	23.098	0.002	
0.007	3400	7.409	60.318	24.569	60.331	-0.013	24.591	-0.022	60.304	0.014	24.556	0.013	
0.015	3600	7.565	60.745	26.066	60.756	-0.011	26.079	-0.013	60.732	0.013	26.053	0.013	
0.020	3800	7.744	61.159	27.596	61.167	-0.008	27.600	-0.004	61.147	0.012	27.589	0.007	
0.023	4000	7.937	61.561	29.164	61.567	-0.006	29.158	0.006	61.551	0.010	29.164	-0.000	
0.023	4200	8.140	61.953	30.772	61.957	-0.004	30.758	0.014	61.945	0.008	30.778	-0.006	
0.022	4400	8.345	62.337	32.420	62.339	-0.002	32.403	0.017	62.329	0.008	32.429	-0.009	
0.019	4600	8.550	62.712	34.110	62.715	-0.003	34.093	0.017	62.704	0.008	34.118	-0.008	
0.014	4800	8.750	63.080	35.840	63.084	-0.004	35.828	0.012	63.072	0.008	35.846	-0.006	
0.009	5000	8.943	63.441	37.609	63.447	-0.006	37.606	0.003	63.432	0.009	37.610	-0.001	
0.002	5200	9.127	63.796	39.416	63.803	-0.007	39.423	-0.007	63.785	0.011	39.412	0.004	
-0.006	5400	9.301	64.144	41.259	64.153	-0.009	41.274	-0.015	64.132	0.012	41.252	0.007	
-0.014	5600	9.463	64.485	43.136	64.494	-0.009	43.153	-0.017	64.474	0.011	43.128	0.008	
-0.023	5800	9.615	64.820	45.044	64.827	-0.007	45.050	-0.006	64.809	0.011	45.042	0.002	
	6000	9.755	65.148	46.981	65.150	-0.002	46.955	0.026	65.140	0.008	46.993	-0.012	

BORON DIBROMIDE

(G)

B 1BR 2

1264

MOL. WT. = 170.620

BLOCK = 2777

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = 15.000 KEY = 566

FITS FOR NOTS RMS = 0.002613

1 5 2 35 0 0 0 0 0 0 0 BORON DIBROMIDE (G) 10J1264 566
 +1.384644E+1+4.2887672E-2-1.0310232E-2+8.3386548E-4 400 6000 11J1264 566
 -3.0526733E-1+9.9200897E+0+8.5647659E+1+1.5000000E+1BBR2 (G) 12J1264 566

FITS FOR EST RMS LOW = 0.001935 RMS HIGH = 0.004275

1 5 2 35 0 0 0 0 0 0 0 BORON DIBROMIDE (G) 10BBR2
 +150000+5+366785+5+138661+2+144399-4-306752+6+100965+3 4003000J126411BBR2
 +150000+5+366809+5+140085+2-143069-4-994560+6+100965+330006000J126412BBR2

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.152	400	12.248	73.892	1.211	73.931	-0.039	1.225	-0.014	73.931	-0.039	1.227	-0.016	
0.012	600	13.035	79.030	3.751	79.022	0.008	3.744	0.007	79.024	0.006	3.746	0.005	
0.046	800	13.385	82.834	6.397	82.828	0.006	6.391	0.006	82.829	0.005	6.394	0.003	
0.038	1000	13.564	85.842	9.094	85.838	0.004	9.090	0.004	85.840	0.002	9.093	0.001	
0.018	1200	13.666	88.325	11.818	88.323	0.002	11.816	0.002	88.324	0.001	11.818	-0.000	
-0.004	1400	13.729	90.436	14.558	90.435	0.001	14.557	0.001	90.436	-0.000	14.559	-0.001	
-0.020	1600	13.771	92.272	17.308	92.272	0.000	17.307	0.001	92.272	-0.000	17.309	-0.001	
-0.026	1800	13.799	93.896	20.065	93.896	0.000	20.065	0.000	93.896	0.000	20.066	-0.001	
-0.021	2000	13.820	95.351	22.827	95.351	0.000	22.827	-0.000	95.351	0.000	22.827	-0.000	
-0.005	2200	13.836	96.669	25.593	96.669	0.000	25.593	-0.000	96.668	0.001	25.593	0.000	
0.016	2400	13.848	97.873	28.362	97.873	-0.000	28.362	0.000	97.873	0.000	28.361	0.001	
0.027	2600	13.857	98.982	31.132	98.982	-0.000	31.132	-0.000	98.982	0.000	31.132	0.000	
0.014	2800	13.864	100.009	33.904	100.009	-0.000	33.905	-0.001	100.009	0.000	33.904	-0.000	
-0.036	3000	13.870	100.966	36.678	100.966	-0.000	36.678	-0.000	100.966	0.000	36.679	-0.001	
	3000	13.870	100.966	36.678	100.966	-0.000	36.678	-0.000	100.966	0.000	36.681	-0.003	
	3200	13.875	101.862	39.452	101.862	0.000	39.453	-0.001	101.861	0.001	39.453	-0.001	
	3400	13.879	102.703	42.228	102.703	0.000	42.228	-0.000	102.701	0.002	42.227	0.001	
	3600	13.883	103.496	45.004	103.496	-0.000	45.005	-0.001	103.495	0.001	45.003	0.001	
	3800	13.885	104.247	47.781	104.247	0.000	47.781	-0.000	104.245	0.002	47.779	0.002	
	4000	13.888	104.959	50.558	104.959	-0.000	50.559	-0.001	104.958	0.001	50.557	0.001	
	4200	13.890	105.637	53.336	105.637	0.000	53.336	-0.000	105.635	0.002	53.335	0.001	
	4400	13.892	106.283	56.114	106.283	-0.000	56.114	-0.000	106.282	0.001	56.113	0.001	
	4600	13.894	106.901	58.893	106.901	0.000	58.893	0.000	106.899	0.002	58.892	0.001	
	4800	13.895	107.492	61.671	107.492	0.000	61.671	-0.000	107.491	0.001	61.672	-0.001	
	5000	13.896	108.059	64.451	108.059	-0.000	64.450	0.001	108.058	0.001	64.451	-0.000	
	5200	13.897	108.604	67.230	108.604	-0.000	67.229	0.001	108.603	0.001	67.230	-0.001	
	5400	13.898	109.129	70.009	109.129	0.000	70.009	0.000	109.127	0.002	70.010	-0.001	
	5600	13.899	109.634	72.789	109.634	0.000	72.789	0.000	109.633	0.001	72.789	-0.000	
	5800	13.900	110.122	75.569	110.122	0.000	75.569	0.000	110.121	0.001	75.569	0.000	
	6000	13.901	110.593	78.349	110.593	-0.000	78.349	-0.000	110.592	0.001	78.348	0.001	

BORON DIIODIDE

(G) B 1I 2

1264

MOL. WT.= 264.620 BLOCK= 2784 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 58.000 KEY = 567

FITS FOR NOTS RMS = 0.002482

1 5 2 53 0 0 0 0 0 0 0 BORON DIIODIDE

(G) 10J1264 567

1.3875823E+1+2.2046416E-2-5.1680058E-3+4.1424273E-4 400 6000

11J1264 567

1.6937866E-1+5.3020767E+1+8.9418350E+1+5.8000000E+1BI2 (G)

12J1264 567

FITS FOR EST RMS LOW = 0.001384 RMS HIGH = 0.004294

1 5 2 53 0 0 0 0 0 0 0 BORON DIIODIDE

(G) 10BI2

580000+5+367993+5+138763+2+112519-4-265456+6+104723+3 4003000J126411BI2

580000+5+368019+5+140197+2-159675-4-100608+7+104723+330006000J126412BI2

66
66
66

DH
KC/M
227 -0.016
746 0.005
394 0.003
093 0.001
818 -0.000
559 -0.001
309 -0.001
066 -0.001
827 -0.000
593 0.000
361 0.001
132 0.000
904 -0.000
679 -0.001
681 -0.003
453 -0.001
227 0.001
003 0.001
779 0.002
557 0.001
335 0.001
113 0.001
892 0.001
672 -0.001
451 -0.000
230 -0.001
010 -0.001
789 -0.000
569 0.000
348 0.001

-----NOTS-----
-----EST-----
T CP S H SC DS HC DH SC DS HC DH
K C/M-K C/M-K KC/M C/M-K C/M-K KC/M KC/M C/M-K C/M-K KC/M KC/M
400 12.447 77.520 1.234 77.554 -0.034 1.246 -0.012 77.550 -0.030 1.246 -0.012
600 13.155 82.722 3.805 82.717 0.005 3.799 0.006 82.718 0.004 3.801 0.004
800 13.461 86.554 6.470 86.549 0.005 6.464 0.006 86.551 0.003 6.468 0.002
1000 13.615 89.576 9.179 89.573 0.003 9.175 0.004 89.575 0.001 9.179 0.000
1200 13.702 92.067 11.912 92.065 0.002 11.909 0.003 92.066 0.001 11.912 -0.000
1400 13.756 94.183 14.658 94.182 0.001 14.657 0.001 94.183 -0.000 14.659 -0.001
1600 13.792 96.022 17.413 96.022 0.000 17.412 0.001 96.023 -0.001 17.414 -0.001
1800 13.816 97.648 20.174 97.648 -0.000 20.174 0.000 97.648 -0.000 20.174 -0.000
2000 13.834 99.105 22.939 99.105 0.000 22.939 -0.000 99.105 0.000 22.939 -0.000
2200 13.847 100.424 25.707 100.424 -0.000 25.707 -0.000 100.424 0.000 25.707 -0.000
2400 13.857 101.630 28.478 101.630 0.000 28.478 -0.000 101.629 0.001 28.477 0.001
2600 13.865 102.739 31.250 102.739 -0.000 31.250 -0.000 102.739 0.000 31.250 0.000
2800 13.871 103.767 34.024 103.767 0.000 34.024 -0.000 103.767 0.000 34.024 0.000
3000 13.876 104.724 36.799 104.724 -0.000 36.799 -0.000 104.724 0.000 36.799 -0.000
3200 13.876 104.724 36.799 104.724 -0.000 36.799 -0.000 104.724 0.000 36.802 -0.003
3400 13.881 105.620 39.574 105.620 0.000 39.575 -0.001 105.619 0.001 39.575 -0.001
3600 13.884 106.461 42.351 106.461 -0.000 42.351 -0.000 106.460 0.001 42.350 0.001
3800 13.887 107.255 45.128 107.255 -0.000 45.128 -0.000 107.253 0.002 45.126 0.002
4000 13.889 108.006 47.905 108.006 0.000 47.906 -0.001 108.004 0.002 47.904 0.001
4200 13.891 108.718 50.684 108.718 -0.000 50.684 -0.000 108.717 0.001 50.682 0.002
4400 13.893 109.396 53.462 109.396 -0.000 53.462 -0.000 109.395 0.001 53.461 0.001
4600 13.895 110.042 56.241 110.042 -0.000 56.241 -0.000 110.041 0.001 56.240 0.001
4800 13.896 110.660 59.020 110.660 -0.000 59.020 -0.000 110.659 0.001 59.020 0.000
5000 13.897 111.252 61.799 111.252 0.000 61.799 -0.000 111.251 0.001 61.800 -0.001
5200 13.898 111.819 64.579 111.819 0.000 64.579 0.000 111.818 0.001 64.580 -0.001
5400 13.899 112.364 67.359 112.364 0.000 67.358 0.001 112.363 0.001 67.360 -0.001
5600 13.900 112.889 70.139 112.889 0.000 70.138 0.001 112.888 0.001 70.139 -0.000
5800 13.901 113.394 72.919 113.394 -0.000 72.918 0.001 113.393 0.001 72.919 -0.000
6000 13.902 113.882 75.699 113.882 0.000 75.699 0.000 113.881 0.001 75.699 0.000
6200 13.902 114.353 78.479 114.353 -0.000 78.480 -0.001 114.352 0.001 78.478 0.001

CARBON UNINEGATIVE ION

(G) C 1- 1

965

MOL. WT.= 12.010

BLOCK= 2790

NO. POINT = 59

DATA FROM 298 TO 6000 K HPFORM(KCAL/(MOLE)) = 140.500 KEY = 568

FITS FOR NOTS RMS = 0.010646

1 -1 1 6 0 0 0 0 0 0 0 CARBON UNINEGATIVE ION (G) 10J 965 568
 +5.5600824E+0-4.8788583E-1+1.0922873E-1-1.9636191E-3 400 6000 11J 965 568
 -1.7272949E-1+1.3844747E+2+4.2499847E+1+1.4050000E+2C- (G) 12J 965 568

FITS FOR EST RMS LOW = 0.002042 RMS HIGH = 0.004451

1 -1 1 6 0 0 0 0 0 0 0 CARBON UNINEGATIVE ION (G) 10C-
 +140500+6+134351+5+492514+1+212098-4+170360+5+476309+2 4003000J 96511C-
 +140500+6+134342+5+226516+1+598082-3+884456+7+476309+230006000J 96512C-

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
012	400	4.968	37.616	0.506	37.759	-0.143	0.567	-0.061	37.600	0.016	0.499	0.007
004	600	4.968	39.630	1.500	39.626	0.004	1.491	0.009	39.631	-0.001	1.500	-0.000
002	800	4.968	41.059	2.493	41.038	0.021	2.474	0.019	41.062	-0.003	2.496	-0.003
000	1000	4.968	42.168	3.487	42.152	0.016	3.472	0.015	42.170	-0.002	3.489	-0.002
000	1200	4.968	43.074	4.481	43.066	0.008	4.474	0.007	43.075	-0.001	4.481	-0.000
001	1400	4.968	43.840	5.474	43.837	0.003	5.475	-0.001	43.840	0.000	5.474	0.000
001	1600	4.968	44.503	6.468	44.503	-0.000	6.473	-0.005	44.503	0.000	6.467	0.001
000	1800	4.968	45.088	7.461	45.090	-0.002	7.468	-0.007	45.088	0.000	7.460	0.001
000	2000	.969	45.612	8.455	45.613	-0.001	8.462	-0.007	45.612	0.000	8.454	0.001
000	2200	4.971	46.085	9.449	46.086	-0.001	9.454	-0.005	46.086	-0.001	9.449	0.000
000	2400	4.975	46.518	10.444	46.517	0.001	10.446	-0.002	46.519	-0.001	10.444	-0.000
001	2600	4.982	46.917	11.439	46.915	0.002	11.439	0.000	46.917	-0.000	11.440	-0.001
000	2800	4.993	47.286	12.437	47.283	0.003	12.434	0.003	47.287	-0.001	12.437	-0.000
000	3000	5.010	47.631	13.437	47.628	0.003	13.433	0.004	47.631	0.000	13.435	0.002
000	3000	5.010	47.631	13.437	47.628	0.003	13.433	0.004	47.631	0.000	13.434	0.003
003	3200	5.035	47.955	14.441	47.952	0.003	14.437	0.004	47.956	-0.001	14.442	-0.001
001	3400	5.066	48.261	15.451	48.258	0.003	15.448	0.003	48.263	-0.002	15.453	-0.002
001	3600	5.107	48.552	16.468	48.549	0.003	16.466	0.001	48.553	-0.001	16.469	-0.001
002	3800	5.155	48.829	17.494	48.827	0.002	17.494	-0.000	48.830	-0.001	17.494	0.000
001	4000	5.213	49.095	18.531	49.094	0.001	18.532	-0.001	49.096	-0.001	18.530	0.001
002	4200	5.278	49.351	19.580	49.350	0.001	19.583	-0.003	49.352	-0.001	19.579	0.001
001	4400	5.351	49.598	20.643	49.597	0.001	20.646	-0.003	49.599	-0.001	20.642	0.001
001	4600	5.431	49.838	21.721	49.837	0.001	21.724	-0.003	49.839	-0.001	21.720	0.001
000	4800	5.517	50.071	22.816	50.069	0.002	22.817	-0.001	50.072	-0.001	22.816	0.000
001	5000	5.607	50.298	23.928	50.296	0.002	23.928	-0.000	50.299	-0.001	23.929	-0.001
001	5200	5.702	50.520	25.059	50.517	0.003	25.057	0.002	50.521	-0.001	25.060	-0.001
000	5400	5.800	50.737	26.209	50.734	0.003	26.206	0.003	50.738	-0.001	26.210	-0.001
000	5600	5.899	50.949	27.379	50.947	0.002	27.376	0.003	50.950	-0.001	27.379	-0.000
000	5800	6.000	51.158	28.569	51.156	0.002	28.568	0.001	51.159	-0.001	28.568	0.001
001	6000	6.100	51.363	29.779	51.362	0.001	29.783	-0.004	51.364	-0.001	29.778	0.001

HEXAFLUOROETHANE (G) C 2F 6 0 0 0 0 669
 MOL. WT. = 138.010 BLOCK = 2796 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -321.200 KEY = 569
 FITS FOR NOTS RMS = 0.013737
 2 6 6 9 0 0 0 0 0 0 0 HEXAFLUOROETHANE (G) 10J 669 569
 +4.1882308E+1+5.2650916E-1-1.1309635E-1+7.8759938E-3 400 6000 11J 669 569
 -2.4140625E+0-3.4104589E+2+1.1852871E+2-3.2119995E+2C2F6(G) 12J 669 569

FITS FOR EST RMS LOW = 0.020726 RMS HIGH = 0.012877
 2 6 6 9 0 0 0 0 0 0 0 HEXAFLUOROETHANE (G) 10C2F6
 -321199+6+108123+6+422241+2+161914-3-248456+7+165819+3 4003000J 66911C2F6
 -321199+6+108126+6+432594+2-874314-4-596633+7+165819+330006000J 66912C2F6

LITHIUM
 MOL. WT.
 DATA FROM
 FITS FOR
 4 5 7 8
 +5.3489852J
 -2.2971649J

FITS FOR
 4 5 7 8
 -803599+6+
 -803599+6+

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	CP	S	H
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K	C/M-K	KC/M
400	30.006	87.513	2.834	87.898	-0.385	2.982	-0.148	87.948	-0.435	3.008	-0.174	400	47.231		
600	35.542	100.855	9.453	100.783	0.072	9.394	0.059	100.787	0.068	9.398	0.055	500	52.561		
800	38.315	111.504	16.869	111.455	0.049	16.827	0.042	111.457	0.047	16.831	0.038	600	57.621		
1000	39.791	120.226	24.692	120.208	0.018	24.678	0.014	120.212	0.014	24.684	0.008	700	61.951		
1200	40.652	127.562	32.742	127.558	0.004	32.743	-0.001	127.564	-0.002	32.750	-0.008	800	65.581		
1400	41.185	133.870	40.928	133.870	-0.000	40.934	-0.006	133.876	-0.006	40.941	-0.013	900	68.761		
1600	41.541	139.394	49.203	139.393	0.001	49.207	-0.004	139.398	-0.004	49.213	-0.010	1000	71.801		
1800	41.771	144.301	57.535	144.299	0.002	57.537	-0.002	144.302	-0.001	57.540	-0.005	1100	75.051		
2000	41.957	148.712	65.908	148.709	0.003	65.909	-0.001	148.710	0.002	65.908	-0.000	1200	78.191		
2200	42.080	152.717	74.312	152.713	0.004	74.311	0.001	152.713	0.004	74.308	0.004	1300	81.341		
2400	42.185	156.383	82.739	156.379	0.004	82.738	0.001	156.378	0.005	82.733	0.006	1400	84.491		
2600	42.266	159.763	91.185	159.759	0.004	91.183	0.002	159.759	0.004	91.180	0.005	1500	87.631		
2800	42.330	162.897	99.644	162.894	0.003	99.644	0.000	162.895	0.002	99.644	0.000	1600	90.781		
3000	42.384	165.820	108.116	165.817	0.003	108.117	-0.001	165.820	0.000	108.123	-0.007	1700	93.921		
3000	42.384	165.820	108.116	165.817	0.003	108.117	-0.001	165.820	0.000	108.126	-0.010	1800	97.071		
3200	42.426	168.557	116.597	168.554	0.003	116.599	-0.002	168.554	0.003	116.599	-0.002	1900	100.221		
3400	42.462	171.130	125.086	171.127	0.003	125.089	-0.003	171.126	0.004	125.084	0.002	2000	103.361		
3600	42.491	173.558	133.581	173.555	0.003	133.584	-0.003	173.553	0.005	133.577	0.004				
3800	42.515	175.856	142.082	175.853	0.003	142.085	-0.003	175.851	0.005	142.077	0.005				
4000	42.534	178.037	150.587	178.035	0.002	150.590	-0.003	178.033	0.004	150.582	0.005				
4200	42.548	180.113	159.095	180.110	0.003	159.098	-0.003	180.108	0.005	159.091	0.004				
4400	42.560	182.092	167.606	182.090	0.002	167.608	-0.002	182.088	0.004	167.604	0.002				
4600	42.569	183.984	176.119	183.981	0.003	176.120	-0.001	183.981	0.003	176.118	0.001				
4800	42.575	185.796	184.633	185.793	0.003	184.633	-0.000	185.793	0.003	184.633	-0.001				
5000	42.580	187.534	193.149	187.531	0.003	193.148	0.001	187.531	0.003	193.150	-0.001				
5200	42.582	189.204	201.665	189.201	0.003	201.664	0.001	189.201	0.003	201.667	-0.002				
5400	42.584	190.811	210.182	190.808	0.003	210.180	0.002	190.808	0.003	210.183	-0.001				
5600	42.586	192.360	218.699	192.357	0.003	218.698	0.001	192.357	0.003	218.700	-0.001				
5800	42.588	193.855	227.216	193.851	0.004	227.216	-0.000	193.851	0.004	227.215	0.001				
6000	42.590	195.298	235.734	195.296	0.002	235.736	-0.002	195.294	0.004	235.730	0.004				

LITHIUM TETRABORATE

(C) B 4LI 20 7

665

MOL. WT.= 169.110

BLOCK= 2802

NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -803.600 KEY = 570

FITS FOR NOTS RMS = 0.005605

4 5 7 8 2 71 0 0 0 0 0 LITHIUM TETRABORATE (C) 30J 665 570
+5.3489852E+1+1.2648893E+1+9.8886880E+0-1.8008689E+0 400 2000 31J 665 570
-2.2971649E+0-8.2732568E+2+8.6549713E+1-8.0359985E+2B4LI207(C) 32J 665 570

FITS FOR EST RMS LOW = 0.022613 RMS HIGH = 0.022613

4 5 7 8 2 71 0 0 0 0 0 LITHIUM TETRABORATE (C) 30B4LI207\$
-803599+6+247444+6+422207+2+306147-1-998944+6+211849+3 4002000J 66531B4LI207\$
-803599+6+247444+6+422207+2+306147-1-998944+6+211849+3 4002000J 66532B4LI207\$

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DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.174	400	47.239	50.492	4.616	50.528	-0.036	4.624	-0.008	50.246	0.245	4.518	0.098
0.055	500	52.567	61.610	9.608	61.553	0.057	9.578	0.030	61.605	0.005	9.618	-0.010
0.038	600	57.625	71.653	15.124	71.656	-0.003	15.127	-0.003	71.754	-0.101	15.191	-0.067
0.008	700	61.950	80.869	21.108	80.886	-0.017	21.120	-0.012	80.956	-0.087	21.165	-0.057
0.008	800	65.586	89.384	27.489	89.385	-0.001	27.488	0.001	89.416	-0.032	27.505	-0.016
0.013	900	68.766	97.294	34.208	97.283	0.011	34.198	0.010	97.287	0.007	34.190	0.018
0.010	1000	71.803	104.695	41.234	104.691	0.004	41.232	0.002	104.680	0.015	41.210	0.024
0.005	1100	75.052	111.691	48.578	111.694	-0.003	48.582	-0.004	111.678	0.012	48.556	0.022
0.000	1200	78.198	118.357	56.240	118.361	-0.004	56.246	-0.006	118.348	0.009	56.223	0.017
0.004	1300	81.344	124.740	64.218	124.744	-0.004	64.222	-0.004	124.737	0.003	64.208	0.010
0.006	1400	84.490	130.883	72.509	130.886	-0.003	72.512	-0.003	130.887	-0.004	72.508	0.001
0.005	1500	87.636	136.820	81.116	136.821	-0.001	81.116	0.000	136.829	-0.009	81.122	-0.006
0.000	1600	90.782	142.576	90.036	142.576	0.000	90.035	0.001	142.588	-0.012	90.047	-0.011
0.007	1700	93.928	148.174	99.272	148.173	0.001	99.270	0.002	148.187	-0.013	99.284	-0.012
0.010	1800	97.074	153.632	108.822	153.632	0.000	108.821	0.001	153.643	-0.011	108.831	-0.009
0.002	1900	100.220	158.965	118.687	158.965	-0.000	118.687	0.000	158.971	-0.006	118.688	-0.001
0.002	2000	103.366	164.185	128.866	164.186	-0.001	128.867	-0.001	164.185	0.000	128.853	0.013
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LITHIUM HEXABORATE

(C) B 6LI 20 10

365

MOL. WT. = 238.730 BLOCK = 2807 NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = 1113.740 KEY = 572

FITS FOR NOTS RMS = 0.028457

6 510 8 2 71 0 0 0 0 0 LITHIUM HEXABORATE (C) 30J 365 572
+4.1227981E+1+1.0153842E+2-6.0272232E+1+1.3412357E+1 400 2000 31J 365 572
+3.8952636E-1-1.1287416E+3+6.9339004E+1-1.1137399E+3B6LI2010 (C) 32J 365 572

FITS FOR EST RMS LOW = 0.058176 RMS HIGH = 0.058176

6 510 8 2 71 0 0 0 0 0 LITHIUM HEXABORATE (C) 30B6LI2010\$
-111373+7+278297+6+895127+2+104819-1-387099+7+262666+3 4002000J 36531B6LI2010\$
-111373+7+278297+6+895127+2+104819-1-387099+7+262666+3 4002000J 36532B6LI2010\$

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	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
585	400	75.590	66.378	7.423	66.425	-0.047	7.439	-0.016	66.936	-0.558	7.621	-0.198
599	500	80.440	83.779	15.230	83.777	0.002	15.224	0.006	83.604	0.175	15.108	0.122
237	600	84.610	98.824	23.489	98.777	0.047	23.458	0.031	98.606	0.218	23.346	0.143
520	700	88.050	112.132	32.126	112.080	0.052	32.092	0.034	112.027	0.105	32.057	0.069
208	800	90.940	124.083	41.079	124.068	0.015	41.073	0.006	124.102	-0.019	41.103	-0.024
444	900	93.390	134.921	50.283	134.988	-0.067	50.347	-0.064	135.058	-0.137	50.407	-0.124
415	1000	97.360	144.974	59.828	145.017	-0.043	59.868	-0.040	145.084	-0.110	59.924	-0.096
252	1100	98.484	154.306	69.620	154.286	0.020	69.594	0.026	154.328	-0.022	69.624	-0.004
052	1200	99.640	162.925	79.526	162.896	0.029	79.491	0.035	162.909	0.016	79.488	0.038
120	1300	100.826	170.947	89.549	170.933	0.014	89.532	0.017	170.923	0.024	89.501	0.048
216	1400	102.042	178.463	99.693	178.467	-0.004	99.699	-0.006	178.447	0.016	99.655	0.038
201	1500	103.290	185.546	109.959	185.559	-0.013	109.980	-0.021	185.544	0.002	109.942	0.017
042	1600	104.568	192.253	120.352	192.266	-0.013	120.372	-0.020	192.265	-0.012	120.356	-0.004
282	1700	105.878	198.631	130.874	198.635	-0.004	130.879	-0.005	198.653	-0.022	130.895	-0.021
	1800	107.218	204.721	141.528	204.714	0.007	141.515	0.013	204.746	-0.025	141.554	-0.026
	1900	108.588	210.554	152.318	210.544	0.010	152.299	0.019	210.572	-0.018	152.331	-0.013
	2000	109.990	216.160	163.247	216.166	-0.006	163.260	-0.013	216.160	0.000	163.225	0.022

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400	17.200	25.708	1.707	25.717	-0.009	1.709	-0.002	25.791	-0.083	1.738	-0.031	400
500	17.900	29.624	3.463	29.617	0.007	3.459	0.004	29.605	0.019	3.450	0.013	500
600	18.440	32.938	5.281	32.932	0.006	5.278	0.003	32.910	0.028	5.264	0.017	600
700	18.850	35.812	7.146	35.811	0.001	7.146	0.000	35.796	0.016	7.137	0.009	700
800	19.180	38.351	9.048	38.352	-0.001	9.050	-0.002	38.348	0.003	9.047	0.001	800
900	19.440	40.626	10.980	40.627	-0.001	10.981	-0.001	40.628	-0.002	10.984	-0.004	900
1000	19.630	42.684	12.934	42.685	-0.001	12.934	-0.000	42.688	-0.004	12.940	-0.006	1000
1100	19.769	44.562	14.904	44.562	-0.000	14.904	-0.000	44.566	-0.004	14.909	-0.005	1100
1200	19.880	46.287	16.887	46.287	-0.000	16.886	0.001	46.289	-0.002	16.890	-0.003	1200
1300	19.955	47.881	18.879	47.882	-0.001	18.879	0.000	47.882	-0.001	18.880	-0.001	1300
1400	20.020	49.363	20.877	49.363	-0.000	20.878	-0.001	49.362	0.001	20.877	0.000	1400
1500	20.072	50.746	22.882	50.747	-0.001	22.883	-0.001	50.744	0.002	22.880	0.002	1500
1600	20.120	52.043	24.892	52.044	-0.001	24.893	-0.001	52.041	0.002	24.890	0.002	1600
1700	20.164	53.264	26.906	53.264	-0.000	26.906	-0.000	53.262	0.002	26.904	0.002	1700
1800	20.200	54.418	28.924	54.417	0.001	28.923	0.001	54.416	0.002	28.923	0.001	1800
1900	20.229	55.510	30.946	55.510	0.000	30.944	0.002	55.509	0.001	30.946	0.000	1900
2000	20.250	56.549	32.970	56.549	-0.000	32.971	-0.001	56.549	0.000	32.972	-0.002	2000

LEAD DIBORATE

(C) B 20 4PB 1

365

MOL. WT. = 292.810 BLOCK = 2820 NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -372.000 KEY = 576

FITS FOR NOTS RMS = 0.010350

2 5 4 8 1 82 0 0 0 0 0 LEAD DIBORATE

(C) 30J 365 576

+1.2286697E+1+6.7408874E+1-4.0057708E+1+8.3986930E+0 400 2000

31J 365 576

-4.5558166E-1-3.7974365E+2+2.5432800E+1-3.7200000E+2B204PB (C)

32J 365 576

FITS FOR EST RMS LOW = 0.044745 RMS HIGH = 0.044745

2 5 4 8 1 82 0 0 0 0 0 LEAD DIBORATE

(C) 30B204PB\$

-372000+6+134141+6+487177+2+298065-2-407710+7+133552+3 4002000J 36531B204PB\$

-372000+6+134141+6+487177+2+298065-2-407710+7+133552+3 4002000J 36532B204PB\$

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	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.031	400	31.000	39.502	2.891	39.536	-0.034	2.902	-0.011	40.156	-0.654	3.134	-0.243
0.013	500	35.300	46.896	6.212	46.875	0.021	6.199	0.013	46.738	0.158	6.102	0.110
0.017	600	38.800	53.651	9.922	53.629	0.022	9.909	0.013	53.427	0.224	9.778	0.144
0.009	700	41.700	59.856	13.952	59.848	0.008	13.947	0.005	59.733	0.123	13.873	0.079
0.001	800	44.100	65.586	18.246	65.589	-0.003	18.249	-0.004	65.561	0.025	18.241	0.005
0.004	900	46.000	70.892	22.752	70.905	-0.013	22.765	-0.013	70.929	-0.037	22.799	-0.047
0.006	1000	47.700	75.832	27.442	75.840	-0.008	27.450	-0.008	75.882	-0.050	27.501	-0.059
0.005	1100	48.800	80.431	32.268	80.433	-0.002	32.270	-0.002	80.469	-0.038	32.315	-0.047
0.003	1200	49.800	84.723	37.202	84.718	0.005	37.195	0.007	84.737	-0.014	37.221	-0.019
0.001	1300	50.400	88.734	42.213	88.725	0.009	42.201	0.012	88.725	0.009	42.204	0.009
0.000	1400	50.800	92.482	47.272	92.481	0.001	47.270	0.002	92.468	0.014	47.254	0.018
0.002	1500	51.400	96.009	52.383	96.013	-0.004	52.390	-0.007	95.993	0.016	52.364	0.019
0.002	1600	51.800	99.338	57.542	99.344	-0.006	57.551	-0.009	99.325	0.013	57.528	0.014
0.002	1700	52.300	102.494	62.747	102.497	-0.003	62.753	-0.006	102.486	0.008	62.742	0.005
0.001	1800	52.800	105.498	68.003	105.495	0.003	67.997	0.006	105.492	0.006	68.002	0.001
0.000	1900	53.200	108.363	73.303	108.357	0.006	73.292	0.011	108.360	0.003	73.306	-0.003
0.002	2000	53.600	111.102	78.643	111.105	-0.003	78.649	-0.007	111.102	0.000	78.651	-0.008

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LEAD TETRABORATE (C) B 40 7PB 1 365
 MOL. WT. = 362.430 BLOCK = 2822 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -683.000 KEY = 577
 FITS FOR NOTS RMS = 0.008908
 5 7 8 1 82 0 0 0 0 0 LEAD TETRABORATE (C) 30J 365 577
 1.7884078E+1+1.1259133E+2-6.2889816E+1+1.2155628E+1 400 2000 31J 365 577
 1.0098876E-1-6.9508447E+2+2.6945785E+1-6.8300000E+2B407PB(C) 32J 365 577

FITS FOR EST RMS LOW = 0.114857 RMS HIGH = 0.114857
 5 7 8 1 82 0 0 0 0 0 LEAD TETRABORATE (C) 30B407PB\$
 833000+6+221672+6+837644+2+361984-2-797225+7+208276+3 4002000J 36531B407PB\$
 833000+6+221672+6+837644+2+361984-2-797225+7+208276+3 4002000J 36532B407PB\$

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T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T			
K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M	K			
400	49.400	53.038	4.576	53.014	0.024	4.565	0.011	54.558	-1.520	5.159	-0.583	400	6		
500	57.000	64.900	9.906	64.892	0.008	9.903	0.003	64.643	0.257	9.712	0.194	500	7		
600	63.400	75.873	15.935	75.894	-0.021	15.946	-0.011	75.405	0.468	15.630	0.305	600	8		
700	68.800	86.067	22.555	86.078	-0.011	22.560	-0.005	85.742	0.325	22.343	0.212	700	9		
800	73.000	95.539	29.653	95.526	0.013	29.640	0.013	95.382	0.157	29.568	0.085	800	10		
900	76.200	104.327	37.117	104.310	0.017	37.101	0.016	104.303	0.024	37.145	-0.028	900	11		
1000	78.900	112.500	44.876	112.495	0.005	44.872	0.004	112.556	-0.056	44.979	-0.103	1000	11		
1100	81.100	120.125	52.879	120.135	-0.010	52.890	-0.011	120.209	-0.084	53.011	-0.132	1100	11		
1200	83.000	127.268	61.089	127.280	-0.012	61.103	-0.014	127.334	-0.066	61.200	-0.111	1200	12		
1300	84.300	133.964	69.455	133.974	-0.010	69.467	-0.012	133.991	-0.027	69.518	-0.063	1300	12		
1400	85.400	140.254	77.945	140.256	-0.002	77.944	0.001	140.236	0.018	77.945	0.000	1400	12		
1500	86.000	146.168	86.515	146.164	0.004	86.508	0.007	146.115	0.053	86.466	0.049	1500	12		
1600	86.500	151.734	95.140	151.732	0.002	95.135	0.005	151.668	0.066	95.072	0.068	1600	12		
1700	87.000	156.993	103.816	156.993	-0.000	103.814	0.002	156.930	0.063	103.752	0.064	1700	12		
1800	87.400	161.976	112.535	161.979	-0.003	112.538	-0.003	161.931	0.045	112.502	0.033	1800	12		
1900	88.000	166.718	121.305	166.721	-0.003	121.308	-0.003	166.696	0.022	121.315	-0.010	1900	12		
2000	88.600	171.247	130.135	171.248	-0.001	130.133	0.002	171.247	0.000	130.187	-0.052	2000	12		

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LEAD HEXABORATE

(C)

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365

MOL. WT. = 432.050 BLOCK = 2824 NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = 1003.000 KEY = 578

FITS FOR NOTS RMS = 0.050451

6 510 8 1 82 0 0 0 0 0 LEAD HEXABORATE (C) 30J 365 578
 +3.5049133E+0+2.2841204E+2-1.4650382E+2+3.1366149E+1 400 2000 31J 365 578
 -1.4176177E+0-1.0168972E+3-1.4568942E+1-1.0030000E+3B6010PB(C) 32J 365 578

FITS FOR EST RMS LOW = 0.147662 RMS HIGH = 0.147662

6 510 8 1 82 0 0 0 0 0 LEAD HEXABORATE (C) 30B6010PB\$
 -100300+7+308669+6+131255+3-228729-2-136528+8+285471+3 4002000J 36531B6010PB\$
 -100300+7+308669+6+131255+3-228729-2-136528+8+285471+3 4002000J 36532B6010PB\$

-----NOTS-----

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	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/B	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
583	400	68.400	66.696	6.305	66.963	-0.267	6.397	-0.092	68.859	-2.163	7.096	-0.791
194	500	79.900	83.224	13.733	83.037	0.187	13.628	0.105	82.559	0.665	13.293	0.440
305	600	89.800	98.680	22.226	98.544	0.136	22.151	0.075	97.918	0.762	21.741	0.485
212	700	98.800	113.222	31.671	113.209	0.013	31.675	-0.004	112.891	0.331	31.468	0.203
085	800	106.000	126.903	41.924	126.958	-0.055	41.979	-0.055	126.924	-0.021	41.984	-0.060
028	900	111.600	139.724	52.815	139.796	-0.072	52.884	-0.069	139.916	-0.192	53.018	-0.203
103	1000	115.900	151.718	64.202	151.755	-0.037	64.238	-0.036	151.916	-0.198	64.410	-0.208
132	1100	118.700	162.907	75.945	162.885	0.022	75.918	0.027	163.012	-0.105	76.054	-0.109
111	1200	120.000	173.298	87.887	173.241	0.057	87.821	0.066	173.303	-0.005	87.882	0.005
063	1300	120.400	182.917	99.906	182.880	0.037	99.864	0.042	182.879	0.038	99.847	0.059
000	1400	121.000	191.862	111.976	191.864	-0.002	111.988	-0.012	191.821	0.041	111.913	0.063
049	1500	121.600	200.232	124.107	200.255	-0.023	124.150	-0.043	200.199	0.033	124.057	0.050
068	1600	122.000	208.092	136.287	208.115	-0.023	136.327	-0.040	208.074	0.018	136.259	0.028
064	1700	122.400	215.501	148.507	215.506	-0.005	148.519	-0.012	215.498	0.003	148.505	0.002
033	1800	122.800	222.508	160.767	222.491	0.017	160.740	0.027	222.516	-0.008	160.784	-0.017
010	1900	123.200	229.158	173.067	229.134	0.024	173.027	0.040	229.168	-0.010	173.088	-0.021
052	2000	123.600	235.488	185.407	235.497	-0.009	185.433	-0.026	235.488	0.000	185.408	-0.001

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AMMONIUM BROMIDE

(C)

BR 1H 4N 1

965

MOL. WT. = 97.940

BLOCK = 2828

NO. POINT = 17

DATA FROM 0 TO 1500 K HFORM(KCAL/(MOLE)) = -64.900 KEY = 580

FITS FOR NOTS RMS = 0.018390

4 1 1 7 1 35 0 0 0 0 0 AMMONIUM BROMIDE (C) 30J 965 580
 -1.0323904E+2+2.6885815E+2-1.8536320E+2+4.6460113E+1 400 1500 31J 965 580
 +8.3453521E+0-1.8338073E+1-1.2864732E+2-6.4899993E+1BRH4N(C) 32J 965 580

FITS FOR EST RMS LOW = 0.067635 RMS HIGH = 0.067635

4 1 1 7 1 35 0 0 0 0 0 AMMONIUM BROMIDE (C) 30BRH4N\$
 -648999+5+124960+6+176106+2+177528-1-831712+6+113364+3 4001500J 96531BRH4N\$
 -648999+5+124960+6+176106+2+177528-1-831712+6+113364+3 4001500J 96532BRH4N\$

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
16	400	22.160	33.381	2.224	33.576	-0.195	2.254	-0.030	34.276	-0.895	2.507	-0.283
10	500	20.840	39.597	4.942	39.416	0.181	4.861	0.081	39.045	0.552	4.651	0.291
10	600	24.480	43.728	7.213	43.794	-0.066	7.263	-0.050	43.523	0.205	7.111	0.102
57	700	27.500	47.731	9.814	47.758	-0.027	9.838	-0.024	47.707	0.024	9.828	-0.014
14	800	30.300	51.591	12.707	51.569	0.022	12.696	0.011	51.635	-0.044	12.772	-0.065
13	900	32.700	55.300	15.859	55.269	0.031	15.839	0.020	55.348	-0.048	15.927	-0.068
36	1000	34.900	58.861	19.241	58.843	0.018	19.234	0.007	58.881	-0.020	19.282	-0.041
15	1100	36.831	62.279	22.829	62.276	0.003	22.837	-0.008	62.263	0.016	22.831	-0.002
71	1200	38.600	65.561	26.602	65.561	-0.000	26.614	-0.012	65.515	0.046	26.571	0.031
95	1300	40.183	68.714	30.542	68.705	0.009	30.543	-0.001	68.658	0.056	30.498	0.044
65	1400	41.650	71.746	34.634	71.728	0.018	34.622	0.012	71.704	0.042	34.610	0.024
53	1500	43.000	74.667	38.868	74.659	0.008	38.873	-0.005	74.667	0.000	38.905	-0.037

MERCURY DIBROMIDE (C) BR 2HG 1 362
 MOL. WT.= 360.400 BLOCK= 2842 NO. POINT = 14
 ATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -40.500 KEY = 583
 FITS FOR NOTS RMS = 0.000262
 35 1 80 0 0 0 0 0 0 0 MERCURY DIBROMIDE (C) 30J 362 583
 .6108398E+1+6.5968647E+0+2.9689908E-1-7.4168920E-2 400 1500 31J 362 583
 .4763832E-2-4.5643890E+1+5.8149459E+1-4.0500000E+1BR2HG (C) 32J 362 583

FITS FOR EST RMS LOW = 0.000284 RMS HIGH = 0.000284
 35 1 80 0 0 0 0 0 0 0 MERCURY DIBROMIDE (C) 30BR2HG\$
 .5000+5+741792+5+159235+2+699403-2-268500+4+963579+2 4001500J 36231BR2HG\$
 .5000+5+741792+5+159235+2+699403-2-268500+4+963579+2 4001500J 36232BR2HG\$

DH

KC/M

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-0.003

-0.003

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-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	18.714	46.095	1.870	46.097	-0.002	1.870	0.000	46.097	-0.002	1.870	-0.000	40
500	19.414	50.347	3.776	50.346	0.001	3.776	0.000	50.347	0.000	3.776	-0.000	50
600	20.114	53.948	5.752	53.948	0.000	5.752	-0.000	53.948	0.000	5.752	-0.000	60
700	20.814	57.101	7.799	57.101	-0.000	7.799	0.000	57.101	0.000	7.799	0.000	70
800	21.514	59.926	9.915	59.926	-0.000	9.915	-0.000	59.926	0.000	9.915	0.000	80
900	22.214	62.501	12.102	62.501	0.000	12.102	0.000	62.500	0.001	12.101	0.001	90
1000	22.914	64.877	14.358	64.877	-0.000	14.358	-0.000	64.877	-0.000	14.358	0.000	100
1100	23.614	67.094	16.684	67.094	-0.000	16.684	-0.000	67.094	-0.000	16.684	-0.000	110
1200	24.314	69.179	19.081	69.179	0.000	19.081	0.000	69.179	0.000	19.081	0.000	120
1300	25.014	71.153	21.547	71.153	0.000	21.547	-0.000	71.153	0.000	21.547	-0.000	130
1400	25.714	73.032	24.084	73.032	0.000	24.084	0.000	73.032	-0.000	24.084	0.000	140
1500	26.414	74.830	26.690	74.830	0.000	26.690	-0.000	74.830	0.000	26.690	-0.000	150

MERCURY DIBROMIDE

(L)

BR 2HG 1

362

MOL. WT. = 360.400

BLOCK = 2844

NO. POINT = 14

DATA FROM 298 TO 1500 K HFORM (KCAL/(MOLE)) = -37.158 KEY = 584

FITS FOR NOTS RMS = 0.000134

2 35 1 80 0 0 0 0 0 0 0 MERCURY DIBROMIDE (L) 20J 362 584
 +2.4188140E+1+5.3118634E-1-4.7214031E-1+1.4159530E-1 400 1500 21J 362 584
 +1.1459350E-2-4.4633056E+1+7.5112045E+1-3.7157989E+1BR2HG (L) 22J 362 584

FITS FOR EST RMS LOW = 0.000109 RMS HIGH = 0.000109

2 35 1 80 0 0 0 0 0 0 0 MERCURY DIBROMIDE (L) 20BR2HG*
 -371579+5+656379+5+244087+2-570105-5-232000+4+102251+3 4001500J 36221BR2HG*
 -371579+5+656379+5+244087+2-570105-5-232000+4+102251+3 4001500J 36222BR2HG*

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
70 -0.000	400	24.400	53.091	2.205	53.091	0.000	2.205	0.000	53.093	-0.002	2.206	-0.001	
76 -0.000	500	24.400	58.536	4.645	58.536	0.000	4.645	-0.000	58.536	-0.000	4.645	0.000	
52 -0.000	600	24.400	62.984	7.085	62.984	-0.000	7.085	0.000	62.984	-0.000	7.085	0.000	
99 0.000	700	24.400	66.745	9.525	66.745	-0.000	9.525	0.000	66.746	-0.001	9.525	0.000	
15 0.000	800	24.400	70.004	11.965	70.004	0.000	11.965	-0.000	70.004	0.000	11.965	0.000	
01 0.001	900	24.400	72.878	14.405	72.878	0.000	14.405	-0.000	72.878	0.000	14.405	0.000	
58 0.000	1000	24.400	75.448	16.845	75.449	-0.001	16.845	-0.000	75.449	-0.001	16.845	0.000	
84 -0.000	1100	24.400	77.774	19.285	77.774	-0.000	19.285	-0.000	77.774	-0.000	19.285	0.000	
81 0.000	1200	24.400	79.897	21.725	79.897	-0.000	21.725	-0.000	79.897	-0.000	21.725	0.000	
47 -0.000	1300	24.400	81.850	24.165	81.850	-0.000	24.165	0.000	81.850	-0.000	24.165	0.000	
84 0.000	1400	24.400	83.658	26.605	83.658	-0.000	26.605	0.000	83.659	-0.001	26.605	0.000	
90 -0.000	1500	24.400	85.342	29.045	85.342	0.000	29.045	-0.000	85.342	0.000	29.045	0.000	

362

FITS FOR NOTS RMS = 0.000695

FITS FOR EST RMS LOW = 0.001541 RMS HIGH = 0.001541
 2 35 2 80 0 0 0 0 0 0 0 MERCURY MONOBROMIDE, DIMERIC (C) 30BR2HG2\$
 -487999+5+814173+5+277060+2+172162-2-389104+6+118926+3 4001500J 36231BR2HG2\$
 -487999+5+814173+5+277060+2+172162-2-389104+6+118926+3 4001500J 36232BR2HG2\$

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-----NOTS-----

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LEAD DIBROMIDE (G) BR 2PB 1 362
 MOL. WT. = 367.000 BLOCK = 2859 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -24.176 KEY = 589
 FITS FOR NOTS RMS = 0.002240
 35 1 82 0 0 0 0 0 0 0 LEAD DIBROMIDE (G) 10J 362 589
 1.3925031E+1-6.5603666E-3+6.8390555E-4+1.0759555E-5 400 6000 11J 362 589
 1.7313232E-2-2.8414123E+1+9.9145050E+1-2.4175994E+1BR2PB (G) 12J 362 589

ZIRCO
 MOL.
 DATA F
 FITS F
 2 35 1
 +1.92486
 +3.67889

FITS FOR EST RMS LOW = 0.000536 RMS HIGH = 0.004167
 35 1 82 0 0 0 0 0 0 0 LEAD DIBROMIDE (G) 10BR2PB
 1.41759+5+375219+5+139131+2-900152-6-226080+5+114427+3 4003000J 36211BR2PB
 1.41759+5+375255+5+140135+2-149882-4-683264+6+114427+330006000J 36212BR2PB

FITS F
 2 35 1
 -966999+
 -966999+

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T			
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/		
400	13.781	86.463	1.399	86.468	-0.005	1.400	-0.001	86.466	-0.003	1.401	-0.002	400	21.		
500	13.853	92.067	4.164	92.066	0.001	4.161	0.003	92.068	-0.001	4.164	-0.000	500	21.		
600	13.878	96.056	6.938	96.054	0.002	6.934	0.004	96.057	-0.001	6.937	0.001	600	21.		
700	13.890	99.155	9.714	99.152	0.003	9.711	0.003	99.155	0.000	9.714	-0.000	700	21.		
800	13.896	101.688	12.493	101.686	0.002	12.490	0.003	101.688	0.000	12.493	0.000	800	22.		
900	13.900	103.830	15.273	103.829	0.001	15.271	0.002	103.830	-0.000	15.273	0.000	900	22.		
1000	13.903	105.686	18.053	105.686	0.000	18.051	0.001	105.686	-0.000	18.053	0.000	1000	22.		
1100	13.904	107.324	20.834	107.324	0.000	20.833	0.001	107.324	-0.000	20.834	0.000	1100	22.		
1200	13.906	108.789	23.615	108.789	0.000	23.614	0.001	108.789	-0.000	23.615	0.000	1200	23.		
1300	13.906	110.114	26.396	110.114	-0.000	26.396	0.000	110.115	-0.001	26.396	0.000	1300	23.		
1400	13.907	111.324	29.177	111.325	-0.001	29.178	-0.001	111.325	-0.001	29.177	-0.000	1400	23.		
1500	13.908	112.437	31.959	112.438	-0.001	31.959	-0.000	112.438	-0.001	31.959	0.000	1500	24.		
1600	13.908	113.468	34.740	113.469	-0.001	34.741	-0.001	113.468	-0.000	34.740	-0.000				
1700	13.909	114.428	37.522	114.428	-0.000	37.523	-0.001	114.428	0.000	37.522	0.000				
1800	13.909	114.428	37.522	114.428	-0.000	37.523	-0.001	114.428	0.000	37.526	-0.004				
1900	13.909	115.325	40.304	115.326	-0.001	40.305	-0.001	115.325	0.000	40.305	-0.001				
2000	13.909	116.169	43.086	116.169	-0.000	43.086	-0.000	116.168	0.001	43.085	0.001				
2100	13.909	116.964	45.867	116.964	-0.000	45.868	-0.001	116.962	0.002	45.866	0.001				
2200	13.909	117.716	48.649	117.716	-0.000	48.650	-0.001	117.714	0.002	48.648	0.001				
2300	13.909	118.429	51.431	118.430	-0.001	51.432	-0.001	118.428	0.001	51.430	0.001				
2400	13.910	119.108	54.213	119.108	-0.000	54.213	-0.000	119.107	0.001	54.212	0.001				
2500	13.910	119.755	56.995	119.755	-0.000	56.995	-0.000	119.754	0.001	56.994	0.001				
2600	13.910	120.373	59.777	120.373	-0.000	59.777	0.000	120.372	0.001	59.777	0.000				
2700	13.910	120.965	62.559	120.965	-0.000	62.559	0.000	120.964	0.001	62.559	-0.000				
2800	13.910	121.533	65.341	121.533	-0.000	65.341	0.000	121.532	0.001	65.342	-0.001				
2900	13.910	122.079	68.123	122.079	0.000	68.123	0.000	122.078	0.001	68.124	-0.001				
3000	13.910	122.604	70.905	122.604	0.000	70.905	0.000	122.603	0.001	70.906	-0.001				
3100	13.910	123.109	73.687	123.110	-0.001	73.687	0.000	123.109	0.000	73.687	-0.000				
3200	13.910	123.598	76.469	123.598	0.000	76.469	0.000	123.597	0.001	76.469	0.000				
3300	13.910	124.069	79.251	124.069	-0.000	79.251	-0.000	124.068	0.001	79.250	0.001				

ZIRCONIUM DIBROMIDE

(C)

BR 22R 1 0 0 0 0

670

MOL. WT. = 251.030

BLOCK = 2865

NO. POINT = 14

DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -96.700 KEY = 590

FITS FOR NOTS RMS = 0.000190

2 35 1 40 0 0 0 0 0 0 0 ZIRCONIUM DIBROMIDE

(C) 30J 670 590

+1.9248657E+1+4.3747634E+0-1.4375486E+0+4.2815709E-1 400 1500

31J 670 590

+3.6788940E-2-1.0250456E+2+4.9937591E+1-9.6699996E+1BR22R(C)

32J 670 590

FITS FOR EST RMS LOW = 0.000301 RMS HIGH = 0.000301

2 35 1 40 0 0 0 0 0 0 0 ZIRCONIUM DIBROMIDE

(C) 30BR22R\$

-966999+5+660036+5+199102+2+274035-2-410000+3+810711+2 4001500J 67031BR22R\$

-966999+5+660036+5+199102+2+274035-2-410000+3+810711+2 4001500J 67032BR22R\$

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
.002	400	21.006	33.830	2.125	33.829	0.001	2.125	0.000	33.830	-0.000	2.125	-0.000
.000	500	21.280	38.547	4.240	38.547	-0.000	4.240	0.000	38.547	0.000	4.240	0.000
.001	600	21.554	42.451	6.381	42.451	0.000	6.381	-0.000	42.451	0.000	6.381	-0.000
.000	700	21.828	45.794	8.550	45.794	0.000	8.550	-0.000	45.794	0.000	8.550	-0.000
.000	800	22.102	48.727	10.747	48.727	0.000	10.747	0.000	48.726	0.001	10.747	0.000
.000	900	22.376	51.346	12.971	51.346	0.000	12.971	-0.000	51.345	0.001	12.971	0.000
.000	1000	22.650	53.717	15.222	53.718	-0.001	15.223	-0.001	53.717	0.000	15.222	0.000
.000	1100	22.924	55.889	17.501	55.889	-0.000	17.501	-0.000	55.889	0.000	17.501	0.000
.000	1200	23.198	57.895	19.807	57.896	-0.001	19.807	0.000	57.895	-0.000	19.807	0.000
.000	1300	23.472	59.763	22.140	59.763	0.000	22.140	0.000	59.763	0.000	22.140	-0.000
.000	1400	23.746	61.513	24.501	61.512	0.001	24.501	0.000	61.512	0.001	24.501	-0.000
.000	1500	24.020	63.160	26.890	63.161	-0.001	26.890	-0.000	63.160	0.000	26.890	0.000

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ZIRCONIUM DIBROMIDE (L) BR 2ZR 1 0 0 0 0 670
 MOL. WT. = 251.030 BLOCK = 2867 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -81.820 KEY = 591
 FITS FOR NOIS RMS = 0.000745
 35 1 40 0 0 0 0 0 0 0 ZIRCONIUM DIBROMIDE (L) 20J 670 591
 .1684371E+1+2.0558428E-1-1.8772834E-1+5.2048236E-2 400 2000 21J 670 591
 .0000000E+0-8.8292144E+1+7.0175262E+1-8.1819992E+1BR2ZR(L) 22J 670 591

FITS FOR EST RMS LOW = 0.000093 RMS HIGH = 0.000093
 35 1 40 0 0 0 0 0 0 0 ZIRCONIUM DIBROMIDE (L) 20BR2ZR*
 18199+5+587639+5+217527+2-141589-5-107200+4+941984+2 4002000J 67021BR2ZR*
 18199+5+587639+5+217527+2-141589-5-107200+4+941984+2 4002000J 67022BR2ZR*

-----NOTS-----												-----EST-----							
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	CP	S	H	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	21.750	50.375	2.215	50.374	0.001	2.214	0.001	50.376	-0.001	2.215	-0.000	400	21.750	50.375	2.215	50.374	0.001	2.214	0.001
600	21.750	55.228	4.390	55.226	0.002	4.389	0.001	55.228	-0.000	4.390	-0.000	600	21.750	55.228	4.390	55.226	0.002	4.389	0.001
800	21.750	59.193	6.565	59.192	0.001	6.564	0.001	59.194	-0.001	6.565	0.000	800	21.750	59.193	6.565	59.192	0.001	6.564	0.001
1000	21.750	62.546	8.740	62.545	0.001	8.739	0.001	62.546	-0.000	8.740	0.000	1000	21.750	62.546	8.740	62.545	0.001	8.739	0.001
1200	21.750	65.451	10.915	65.450	0.001	10.914	0.001	65.451	0.000	10.915	0.000	1200	21.750	65.451	10.915	65.450	0.001	10.914	0.001
1400	21.750	68.012	13.090	68.012	-0.000	13.090	0.000	68.012	-0.000	13.090	0.000	1400	21.750	68.012	13.090	68.012	-0.000	13.090	0.000
1600	21.750	70.304	15.265	70.304	-0.000	15.265	-0.000	70.304	0.000	15.265	0.000	1600	21.750	70.304	15.265	70.304	-0.000	15.265	-0.000
1800	21.750	72.377	17.440	72.378	-0.001	17.441	-0.001	72.377	0.000	17.440	0.000	1800	21.750	72.377	17.440	72.378	-0.001	17.441	-0.001
2000	21.750	74.269	19.615	74.270	-0.001	19.616	-0.001	74.269	-0.000	19.615	0.000	2000	21.750	74.269	19.615	74.270	-0.001	19.616	-0.001
2200	21.750	76.010	21.790	76.011	-0.001	21.791	-0.001	76.010	-0.000	21.790	0.000	2200	21.750	76.010	21.790	76.011	-0.001	21.791	-0.001
2400	21.750	77.622	23.965	77.623	-0.001	23.966	-0.001	77.622	-0.000	23.965	0.000	2400	21.750	77.622	23.965	77.623	-0.001	23.966	-0.001
2600	21.750	79.123	26.140	79.123	-0.000	26.140	-0.000	79.123	0.000	26.140	0.000	2600	21.750	79.123	26.140	79.123	-0.000	26.140	-0.000
2800	21.750	80.526	28.315	80.527	-0.001	28.315	0.000	80.527	-0.001	28.315	-0.000	2800	21.750	80.526	28.315	80.527	-0.001	28.315	0.000
3000	21.750	81.845	30.490	81.845	-0.000	30.490	0.000	81.845	-0.000	30.490	0.000	3000	21.750	81.845	30.490	81.845	-0.000	30.490	0.000
3200	21.750	83.088	32.665	83.088	-0.000	32.664	0.001	83.088	-0.000	32.665	0.000	3200	21.750	83.088	32.665	83.088	-0.000	32.664	0.001
3400	21.750	84.264	34.840	84.264	-0.000	34.840	0.000	84.264	-0.000	34.840	0.000	3400	21.750	84.264	34.840	84.264	-0.000	34.840	0.000
3600	21.750	85.380	37.015	85.380	-0.000	37.015	-0.000	85.380	0.000	37.015	0.000	3600	21.750	85.380	37.015	85.380	-0.000	37.015	-0.000
3800												3800							
4000												4000							
4200												4200							
4400												4400							
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5400												5400							
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6000												6000							

ZIRCONIUM DIBROMIDE
 MOL. WT. = 251.030
 DATA FROM 298 TO 2000 K
 FITS FOR NOIS RMS = 0.000745
 2 35 1 4
 +1.23298
 +5.65460
 FITS FOR EST
 2 35 1 4
 -416999+
 -416999+

ZIRCONIUM DIBROMIDE (G) BR 2ZR 1 0 0 0 0 670
 MOL. WT. = 251.030 BLOCK = 2869 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -41.700 KEY = 592
 FITS FOR NOTS RMS = 0.017442
 2 35 1 40 0 0 0 0 0 0 0 ZIRCONIUM DIBROMIDE (G) 10J 670 592
 +1.2329841E+1+2.1496601E+0-3.3728671E-1+1.9749164E-2 400 6000 11J 670 592
 +5.6546020E-1-4.4042282E+1+9.1853225E+1-4.1699996E+1BR2ZR (G) 12J 670 592

ZIRCON
 MOL.
 DATA PR
 FITS FO
 35 1 4
 .432917
 .404541

FITS FOR EST RMS LOW = 0.009949 RMS HIGH = 0.007594
 2 35 1 40 0 0 0 0 0 0 0 ZIRCONIUM DIBROMIDE (G) 10BR2ZR
 -416999+5+414970+5+136575+2+910991-3+243312+6+110470+3 4003000J 67011BR2ZR
 -416999+5+414994+5+168385+2+124263-3-805632+7+110470+330006000J 67012BR2ZR

FITS FO
 35 1 4
 152000+6
 152000+6

-----NOTS-----								-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	14.676	79.974	1.487	79.622	0.352	1.341	0.146	79.837	0.137	1.434	0.053
600	14.801	85.953	4.437	86.000	-0.047	4.476	-0.039	85.979	-0.026	4.459	-0.022
800	14.847	90.218	7.403	90.275	-0.057	7.447	-0.044	90.238	-0.020	7.419	-0.016
1000	14.883	93.535	10.376	93.558	-0.023	10.389	-0.013	93.537	-0.002	10.376	0.000
1200	14.941	96.253	13.357	96.253	0.000	13.346	0.011	96.246	0.007	13.348	0.009
1400	15.039	98.563	16.355	98.555	0.008	16.333	0.022	98.556	0.007	16.346	0.009
1600	15.178	100.580	19.376	100.573	0.007	19.355	0.021	100.576	0.004	19.372	0.004
1800	15.349	102.377	22.428	102.375	0.002	22.416	0.012	102.377	-0.000	22.430	-0.002
2000	15.536	104.004	25.516	104.006	-0.002	25.514	0.002	104.005	-0.001	25.521	-0.005
2200	15.726	105.494	28.642	105.499	-0.005	28.647	-0.005	105.495	-0.001	28.647	-0.005
2400	15.907	106.870	31.806	106.877	-0.007	31.814	-0.008	106.869	0.001	31.806	-0.000
2600	16.074	108.150	35.004	108.157	-0.007	35.013	-0.009	108.148	0.002	35.001	0.003
2800	16.224	109.347	38.235	109.354	-0.007	38.241	-0.006	109.344	0.002	38.231	0.004
3000	16.355	110.471	41.493	110.476	-0.005	41.497	-0.004	110.471	0.000	41.497	-0.004
3000	16.355	110.471	41.493	110.476	-0.005	41.497	-0.004	110.471	0.000	41.499	-0.006
3200	16.471	111.530	44.776	111.535	-0.005	44.776	-0.000	111.528	0.002	44.776	-0.000
3400	16.574	112.532	48.080	112.536	-0.004	48.079	0.001	112.529	0.003	48.078	0.002
3600	16.666	113.482	51.405	113.485	-0.003	51.402	0.003	113.479	0.003	51.401	0.004
3800	16.749	114.385	54.746	114.389	-0.004	54.743	0.003	114.382	0.003	54.743	0.003
4000	16.826	115.246	58.104	115.250	-0.004	58.101	0.003	115.244	0.002	58.101	0.003
4200	16.897	116.069	61.476	116.073	-0.004	61.475	0.001	116.067	0.002	61.475	0.001
4400	16.964	116.856	64.862	116.861	-0.005	64.863	-0.001	116.854	0.002	64.863	-0.001
4600	17.027	117.612	68.261	117.617	-0.005	68.263	-0.002	117.610	0.002	68.262	-0.001
4800	17.086	118.338	71.673	118.343	-0.005	71.674	-0.001	118.336	0.002	71.674	-0.001
5000	17.140	119.036	75.095	119.041	-0.005	75.097	-0.002	119.035	0.001	75.096	-0.001
5200	17.191	119.710	78.529	119.714	-0.004	78.529	-0.000	119.708	0.002	78.529	0.000
5400	17.237	120.359	81.972	120.364	-0.005	81.971	0.001	120.357	0.002	81.971	0.001
5600	17.279	120.987	85.423	120.991	-0.004	85.422	0.001	120.985	0.002	85.422	0.001
5800	17.316	121.594	88.883	121.598	-0.004	88.882	0.001	121.592	0.002	88.882	0.001
6000	17.347	122.181	92.349	122.186	-0.005	92.350	-0.001	122.180	0.001	92.350	-0.001

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 K C/M
 400 24.5
 500 24.8
 600 25.0
 700 25.1
 800 25.2
 900 25.3
 1000 25.3
 1100 25.3
 1200 25.3
 1300 25.4
 1400 25.4
 1500 25.4
 1600 25.4
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 1900 25.4
 2000 25.4

ZIRCONIUM TRIBROMIDE (C) BR 3ZR 1 664
 MOL. WT.= 330.940 BLOCK= 2875 NO. POINT = 22
 DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -152.000 KEY = 593
 FITS FOR NOTS RMS = 0.001087
 35 1 40 0 0 0 0 0 0 0 ZIRCONIUM TRIBROMIDE (C) 30J 664 593
 .4329177E+1+2.3135223E+0-1.5800170E+0+3.6149859E-1 400 2000 31J 664 593
 .4045410E-2-1.5963148E+2+6.9451644E+1-1.5200000E+2BR3ZR(C) 32J 664 593

FITS FOR EST RMS LOW = 0.001351 RMS HIGH = 0.001351
 35 1 40 0 0 0 0 0 0 0 ZIRCONIUM TRIBROMIDE (C) 30BR3ZRS
 152000+6+684134+5+255161+2+307804-6-184272+6+990894+2 4002000J 66431BR3ZRS
 152000+6+684134+5+255161+2+307804-6-184272+6+990894+2 4002000J 66432BR3ZRS

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-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
000	24.500	48.226	2.464	48.228	-0.002	2.464	0.000	48.242	-0.016	2.469	-0.005				
500	24.800	53.733	4.932	53.730	0.003	4.930	0.002	53.728	0.005	4.929	0.003				
600	25.000	58.274	7.423	58.270	0.004	7.420	0.003	58.268	0.006	7.419	0.004				
700	25.100	62.136	9.929	62.133	0.003	9.927	0.002	62.133	0.003	9.927	0.002				
800	25.200	65.495	12.444	65.495	-0.000	12.445	-0.001	65.496	-0.001	12.446	-0.002				
900	25.300	68.469	14.969	68.470	-0.001	14.970	-0.001	68.472	-0.003	14.972	-0.003				
1000	25.350	71.137	17.502	71.138	-0.001	17.502	-0.000	71.138	-0.001	17.503	-0.001				
1100	25.370	73.554	20.038	73.555	-0.001	20.038	0.000	73.554	-0.000	20.038	0.000				
1200	25.390	75.763	22.576	75.763	-0.000	22.577	-0.001	75.762	0.001	22.575	0.001				
1300	25.410	77.796	25.116	77.797	-0.001	25.117	-0.001	77.795	0.001	25.115	0.001				
1400	25.420	79.679	27.658	79.680	-0.001	27.659	-0.001	79.679	0.000	27.657	0.001				
1500	25.430	81.434	30.200	81.434	-0.000	30.201	-0.001	81.433	0.001	30.200	0.000				
1600	25.440	83.075	32.744	83.076	-0.001	32.744	-0.000	83.075	-0.000	32.744	0.000				
1700	25.450	84.618	35.288	84.618	0.000	35.288	0.000	84.618	0.000	35.288	-0.000				
1800	25.460	86.073	37.834	86.072	0.001	37.833	0.001	86.073	0.000	37.834	-0.000				
1900	25.470	87.449	40.380	87.449	-0.000	40.379	0.001	87.450	-0.001	40.380	-0.000				
2000	25.480	88.756	42.928	88.757	-0.001	42.929	-0.001	88.756	0.000	42.927	0.001				

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ZIRCONIUM TETRABROMIDE

(C) BR 4ZR 1

364

MOL. WT. = 410.850 BLOCK = 2884 NO. POINT = 17

DATA FROM 0 TO 1500 K HFORM(KCAL/(MOLE)) = -181.600 KEY = 595

FITS FOR NOTS RMS = 0.000983

4 35 1 40 0 0 0 0 0 0 0 ZIRCONIUM TETRABROMIDE (C) 30J 364 595
 +2.6159851E+1+1.5326265E+1-1.2272257E+1+3.2971477E+0 400 1500 31J 364 595
 +9.0621948E-2-1.8972380E+2+8.1669052E+1-1.8159999E+2BR4ZR (C) 32J 364 595

FITS FOR EST RMS LCW = 0.002705 RMS HIGH = 0.002705

4 35 1 40 0 0 0 0 0 0 0 ZIRCONIUM TETRABROMIDE (C) 30BR4ZR\$
 -181599+6+874968+5+332445+2-266790-3-401232+6+127724+3 4001500J 36431BR4ZR\$
 -181599+6+874968+5+332445+2-266790-3-401232+6+127724+3 4001500J 36432BR4ZR\$

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	30.900	62.638	3.100	62.635	0.003	3.099	0.001	62.665	-0.027	3.110	-0.010
500	31.600	69.615	6.228	69.622	-0.007	6.231	-0.003	69.605	0.010	6.221	0.007
600	31.900	75.409	9.406	75.404	0.005	9.403	0.003	75.394	0.015	9.397	0.009
700	32.150	80.346	12.609	80.345	0.001	12.608	0.001	80.345	0.001	12.609	0.000
800	32.400	84.655	15.836	84.657	-0.002	15.838	-0.002	84.661	-0.006	15.842	-0.006
900	32.550	88.481	19.085	88.481	-0.000	19.085	-0.000	88.484	-0.003	19.088	-0.003
1000	32.600	91.914	22.343	91.913	0.001	22.342	0.001	91.913	0.001	22.342	0.001
1100	32.620	95.022	25.604	95.022	0.000	25.604	-0.000	95.020	0.002	25.602	0.002
1200	32.640	97.861	28.867	97.862	-0.001	28.868	-0.001	97.860	0.001	28.866	0.001
1300	32.650	100.474	32.132	100.474	-0.000	32.132	0.000	100.474	0.000	32.131	0.001
1400	32.660	102.894	35.397	102.894	0.000	35.396	0.001	102.894	-0.000	35.397	-0.000
1500	32.670	105.148	38.664	105.148	-0.000	38.664	-0.000	105.148	0.000	38.664	-0.000

COPPER (C) CU 1 1265
 MOL. WT.= 63.540 BLOCK= 2885 NO. POINT = 22
 DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = 0.000 KEY = 596
 FITS FOR NOTS RMS = 0.000382
 1 29 0 0 0 0 0 0 0 0 0 COPPER (C) 30J1265 596
 +5.9536762E+0+1.0483808E+0-1.8805342E-1+5.2935421E-2 400 2000 31J1265 596
 -4.7295570E-2-1.9718389E+0+1.4568396E+1+0.0000000E+0CU (C) 32J1265 596

FITS FOR EST RMS LOW = 0.000559 RMS HIGH = 0.000559
 1 29 0 0 0 0 0 0 0 0 0 COPPER (C) 30CUS
 +000000+0+198904+5+601220+1+848058-3-446060+5+238456+2 4002000J126531CUS
 +000000+0+198904+5+601220+1+848058-3-446060+5+238456+2 4002000J126532CUS

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
400	6.077	9.665	0.608	9.666	-0.001	0.608	-0.000	9.664	0.001	0.607	0.001				
500	6.250	11.040	1.224	11.039	0.001	1.224	0.000	11.040	0.000	1.224	-0.000				
600	6.394	12.193	1.857	12.192	0.001	1.856	0.001	12.194	-0.001	1.857	-0.000				
700	6.516	13.188	2.502	13.187	0.001	2.502	0.000	13.189	-0.001	2.503	-0.001				
800	6.620	14.064	3.159	14.064	-0.000	3.159	-0.000	14.066	-0.002	3.160	-0.001				
900	6.725	14.850	3.826	14.851	-0.001	3.827	-0.001	14.851	-0.001	3.827	-0.001				
1000	6.822	15.564	4.504	15.564	-0.000	4.504	0.000	15.564	-0.000	4.504	0.000				
1100	6.910	16.218	5.190	16.218	-0.000	5.190	-0.000	16.218	-0.000	5.190	0.000				
1200	6.998	16.823	5.886	16.823	-0.000	5.886	0.000	16.823	-0.000	5.885	0.001				
1300	7.086	17.387	6.590	17.387	-0.000	6.590	-0.000	17.387	0.000	6.590	0.000				
1400	7.174	17.915	7.303	17.916	-0.001	7.303	-0.000	17.916	-0.001	7.303	0.000				
1500	7.262	18.413	8.025	18.413	-0.000	8.025	-0.000	18.414	-0.001	8.025	0.000				
1600	7.350	18.885	8.755	18.885	0.000	8.755	-0.000	18.885	-0.000	8.756	-0.001				
1700	7.438	19.333	9.495	19.333	0.000	9.495	0.000	19.334	-0.001	9.495	-0.000				
1800	7.526	19.761	10.243	19.761	0.000	10.243	0.000	19.761	-0.000	10.243	-0.000				
1900	7.614	20.170	11.000	20.170	0.000	11.000	0.000	20.170	-0.000	11.000	-0.000				
2000	7.702	20.563	11.766	20.563	0.000	11.766	-0.000	20.563	0.000	11.766	0.000				

ZIR
 NO
 DATA
 FITS
 4 35
 +2.585
 -1.379
 FITS
 4 35
 -15359
 -15359
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 400 2
 600 2
 800 2
 1000 2
 1200 2
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 6000 2

ZIRCONIUM TETRABROMIDE (G) BR 4ZR 1 364
 MOL. WT.= 410.850 BLOCK= 2888 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -153.600 KEY = 597
 FITS FOR NOTS RMS = 0.003925
 4 35 1 40 0 0 0 0 0 0 0 ZIRCONIUM TETRABROMIDE (G) 10J 364 597
 +2.5852951E+1-5.6560225E-3-5.2898610E-4+1.7753266E-4 400 6000 11J 364 597
 -1.3793945E-1-1.6175480E+2+1.2973828E+2-1.5359999E+2BR4ZR (G) 12J 364 597

FITS FOR EST RMS LOW = 0.000595 RMS HIGH = 0.007701
 4 35 1 40 0 0 0 0 0 0 0 ZIRCONIUM TETRABROMIDE (G) 10BR4ZR
 -153599+6+694218+5+258352+2-187531-6-129888+6+158129+3 4003000J 36411BR4ZR
 -153599+6+694276+5+260121+2-259455-4-127744+7+158129+330006000J 36412BR4ZR

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
0.001	400	25.066	106.464	2.528	106.478	-0.014	2.531	-0.003	106.474	-0.010	2.532	-0.004	400
0.000	600	25.482	116.722	7.591	116.720	0.002	7.586	0.005	116.723	-0.001	7.591	-0.000	600
0.000	800	25.634	124.077	12.705	124.072	0.005	12.698	0.007	124.077	0.000	12.704	0.001	800
0.001	1000	25.705	129.805	17.839	129.801	0.004	17.833	0.006	129.805	-0.000	17.839	0.000	1000
0.001	1200	25.744	134.496	22.985	134.493	0.003	22.979	0.006	134.496	0.000	22.984	0.001	1200
0.001	1400	25.768	138.466	28.136	138.464	0.002	28.132	0.004	138.466	-0.000	28.136	0.000	1400
0.000	1600	25.784	141.908	33.291	141.907	0.001	33.288	0.003	141.908	-0.000	33.291	0.000	1600
0.000	1800	25.794	144.946	38.449	144.945	0.001	38.447	0.002	144.946	0.000	38.449	0.000	1800
0.001	2000	25.802	147.664	43.609	147.663	0.000	43.608	0.001	147.664	0.000	43.609	0.000	2000
0.000	2200	25.808	150.123	48.770	150.123	-0.000	48.770	0.000	150.123	-0.000	48.770	0.000	2200
0.000	2400	25.812	152.369	53.932	152.369	-0.000	53.932	-0.000	152.369	-0.000	53.932	0.000	2400
0.000	2600	25.815	154.435	59.095	154.436	-0.001	59.096	-0.001	154.435	-0.000	59.095	0.000	2600
0.001	2800	25.818	156.348	64.258	156.349	-0.001	64.259	-0.001	156.349	-0.001	64.258	-0.000	2800
0.000	3000	25.820	158.130	69.422	158.131	-0.001	69.423	-0.001	158.130	0.000	69.422	0.000	3000
0.000	3000	25.820	158.130	69.422	158.131	-0.001	69.423	-0.001	158.130	0.000	69.428	-0.006	3000
0.000	3200	25.822	159.796	74.586	159.797	-0.001	74.588	-0.002	159.795	0.001	74.587	-0.001	3200
0.000	3400	25.823	161.362	79.750	161.362	-0.000	79.752	-0.002	161.360	0.002	79.749	0.001	3400
0.000	3600	25.824	162.838	84.915	162.838	-0.000	84.917	-0.002	162.835	0.003	84.912	0.003	3600
	3800	25.825	164.234	90.080	164.235	-0.001	90.081	-0.001	164.231	0.003	90.077	0.003	3800
	4000	25.826	165.559	95.245	165.559	-0.000	95.246	-0.001	165.556	0.003	95.242	0.003	4000
	4200	25.827	166.819	100.411	166.819	-0.000	100.411	-0.000	166.816	0.003	100.408	0.003	4200
	4400	25.828	168.020	105.576	168.021	-0.001	105.576	-0.000	168.018	0.002	105.575	0.001	4400
	4600	25.828	169.168	110.742	169.169	-0.001	110.742	0.000	169.166	0.002	110.741	0.001	4600
	4800	25.829	170.268	115.907	170.268	0.000	115.907	0.000	170.266	0.002	115.908	-0.001	4800
	5000	25.829	171.322	121.073	171.322	-0.000	121.072	0.001	171.320	0.002	121.074	-0.001	5000
	5200	25.830	172.335	126.239	172.335	-0.000	126.238	0.001	172.333	0.002	126.240	-0.001	5200
	5400	25.830	173.310	131.405	173.310	-0.000	131.404	0.001	173.308	0.002	131.406	-0.001	5400
	5600	25.830	174.249	136.571	174.249	-0.000	136.570	0.001	174.247	0.002	136.571	-0.000	5600
	5800	25.831	175.156	141.737	175.156	0.000	141.737	0.000	175.154	0.002	141.736	0.001	5800
	6000	25.831	176.031	146.903	176.032	-0.001	146.903	-0.000	176.029	0.002	146.901	0.002	6000

ZIRCONIUM CARBIDE

(L) C 12R 1

1264

MOL. WT.= 103.230 BLOCK= 2899 NO. POINT = 59

DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = -28.386 KEY = 599

FITS FOR NOTS RMS = 0.097422

1 6 1 40 0 0 0 0 0 0 0 ZIRCONIUM CARBIDE (L) 20J1264 599
+6.9742355E+0+5.4352779E+0-1.2142410E+0+8.9035332E-2 400 6000 21J1264 599
+1.0684051E+0-2.8342864E+1+2.2308471E+1-2.8385986E+1CZR(L) 22J1264 599

FITS FOR EST RMS LOW = 0.307487 RMS HIGH = 0.307487

1 6 1 40 0 0 0 0 0 0 0 ZIRCONIUM CARBIDE (L) 20CZR*
-283859+5+360518+5+149949+2+328730-4-286728+7+415429+2 4006000J126421CZR*
-283859+5+360518+5+149949+2+328730-4-286728+7+415429+2 4006000J126422CZR*

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	LS	HC	DH	SC	DS	HC	DH	
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	T
.116	400	10.419	15.684	0.998	14.658	1.026	0.571	0.427	20.045	-4.361	3.132	-2.134	K
.003	600	11.802	20.213	3.241	20.311	-0.098	3.341	-0.100	21.154	-0.941	3.745	-0.504	400
.026	800	12.445	23.710	5.675	23.892	-0.182	5.828	-0.153	23.732	-0.022	5.554	0.121	500
.029	1000	12.760	26.524	8.198	26.632	-0.108	8.284	-0.086	26.278	0.246	7.842	0.356	600
.016	1200	13.045	28.882	10.785	28.908	-0.026	10.782	0.003	28.580	0.302	10.370	0.415	700
.005	1400	13.213	30.905	13.411	30.883	0.022	13.345	0.066	30.634	0.271	13.037	0.374	800
.002	1600	13.381	32.680	16.071	32.641	0.039	15.979	0.092	32.472	0.208	15.789	0.282	900
.005	1800	13.549	34.266	18.764	34.232	0.034	18.681	0.083	34.127	0.139	18.600	0.164	1000
.006	2000	13.717	35.702	21.490	35.689	0.013	21.446	0.044	35.629	0.073	21.453	0.037	
.005	2200	13.885	37.018	24.250	37.032	-0.014	24.266	-0.016	37.003	0.015	24.335	-0.085	
.005	2400	14.053	38.233	27.044	38.279	-0.046	27.133	-0.089	38.267	-0.034	27.241	-0.197	
.004	2600	15.000	39.397	29.954	39.443	-0.046	30.040	-0.086	39.437	-0.040	30.164	-0.210	
.003	2800	15.000	40.508	32.954	40.532	-0.024	32.979	-0.025	40.525	-0.017	33.102	-0.148	
.001	3000	15.000	41.543	35.954	41.554	-0.011	35.943	0.011	41.543	0.000	36.052	-0.098	
.000	3200	15.000	42.511	38.954	42.517	-0.006	38.927	0.027	42.498	0.013	39.012	-0.058	
.001	3400	15.000	43.421	41.954	43.425	-0.004	41.924	0.030	43.398	0.023	41.979	-0.025	
.001	3600	15.000	44.278	44.954	44.284	-0.006	44.929	0.025	44.248	0.030	44.955	-0.001	
.002	3800	15.000	45.089	47.954	45.098	-0.009	47.939	0.015	45.054	0.035	47.936	0.018	
.003	4000	15.000	45.859	50.954	45.870	-0.011	50.950	0.004	45.820	0.039	50.923	0.031	
.003	4200	15.000	46.590	53.954	46.604	-0.014	53.959	-0.005	46.550	0.040	53.915	0.039	
.002	4400	15.000	47.288	56.954	47.303	-0.015	56.965	-0.011	47.247	0.041	56.911	0.043	
.000	4600	15.000	47.955	59.954	47.971	-0.016	59.967	-0.013	47.913	0.041	59.911	0.043	
.001	4800	15.000	48.593	62.954	48.609	-0.016	62.965	-0.011	48.553	0.040	62.915	0.039	
.003	5000	15.000	49.206	65.954	49.220	-0.014	65.960	-0.006	49.167	0.039	65.922	0.032	
	5200	15.000	49.794	68.954	49.807	-0.013	68.953	0.001	49.757	0.037	68.933	0.021	
	5400	15.000	50.360	71.954	50.372	-0.012	71.946	0.008	50.326	0.034	71.946	0.008	
	5600	15.000	50.906	74.954	50.917	-0.011	74.944	0.010	50.874	0.032	74.962	-0.008	
	5800	15.000	51.432	77.954	51.444	-0.012	77.949	0.005	51.404	0.028	77.981	-0.027	
	6000	15.000	51.941	80.954	51.956	-0.015	80.968	-0.014	51.916	0.025	81.002	-0.048	

IODINE CHLORIDE (C) CL 1I 1 965
 MOL. WT.= 162.350 BLOCK= 2905 NO. POINT = 12
 DATA FROM 0 TO 1000 K HFORM(KCAL/(MOLE)) = -8.466 KEY = 600
 FITS FOR NOTS RMS = 0.000149
 1 17 1 53 0 0 0 0 0 0 IODINE CHLORIDE (C) 30J 965 600
 4.8796291E+0+2.8407699E+1-2.0671203E+1+6.1118202E+0 400 1000 31J 965 600
 1.7513370E-1-1.0444835E+1+2.2631088E+1-8.4659996E+0CLI(C) 32J 965 600

FITS FOR EST RMS LOW = 0.001329 RMS HIGH = 0.001329
 1 17 1 53 0 0 0 0 0 0 IODINE CHLORIDE (C) 30CLI\$
 -846599+4+602254+5+141373+2+514967-2-323770+6+683399+2 4001000J 96531CLI\$
 -846599+4+602254+5+141373+2+514967-2-323770+6+683399+2 4001000J 96532CLI\$

-----NOTS-----								-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	14.387	27.453	1.406	27.452	0.001	1.406	0.000	27.459	-0.006	1.408	-0.002
500	15.387	30.773	2.896	30.773	-0.000	2.896	0.000	30.765	0.008	2.892	0.004
600	16.287	33.659	4.480	33.659	-0.000	4.480	-0.000	33.659	-0.000	4.481	-0.001
700	17.086	36.231	6.150	36.232	-0.001	6.150	-0.000	36.234	-0.003	6.152	-0.002
800	17.785	38.559	7.894	38.560	-0.001	7.894	-0.000	38.559	-0.000	7.894	-0.000
900	18.383	40.690	9.703	40.689	0.001	9.703	0.000	40.686	0.004	9.701	0.002
1000	18.880	42.653	11.567	42.653	0.000	11.567	-0.000	42.653	0.000	11.568	-0.001

IODINE
 MOL.
 DATA F
 FITS F
 1 17 1
 +8.94867
 -5.13305

FITS F
 1 17 1
 +418399+
 +418399+

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 3800
 4000
 4200
 4400
 4600
 4800
 5000
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 5400
 5600
 5800
 6000

LEAD MONOCHLORIDE (G) CL 1PB 1
 MOL. WT.= 242.640 BLOCK= 2914 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 3.500 KEY = 603
 FITS FOR NOTS RMS = 0.017851
 1 17 1 82 0 0 0 0 0 0 0 LEAD MONOCHLORIDE (G) 10J 662 603
 7.7723064E+0+9.1484129E-1-7.3577940E-2-7.5316894E-4 400 6000 11J 662 603
 3.2864379E-1+1.9075775E+0+7.2340118E+1+3.5000000E+0CLPB (G) 12J 662 603

662

HER
 NO
 DATA
 FITS
 2 17
 +1.776
 -1.342

FITS FOR EST RMS LOW = 0.008367 RMS HIGH = 0.004720
 1 17 1 82 0 0 0 0 0 0 0 LEAD MONOCHLORIDE (G) 10CLPB
 350000+4+250436+5+833540+1+502005-3+144640+6+832609+2 4003000J 66211CLPB
 350000+4+250524+5+109163+2-279184-4-904451+7+832609+230006000J 66212CLPB

FITS
 2 17
 -55000
 -55000

M	-----NOTS-----												T
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
	K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	K
01	400	8.805	64.839	0.890	64.551	0.288	0.767	0.123	64.717	0.122	0.839	0.051	400 1
00	600	8.929	68.436	2.666	68.449	-0.013	2.683	-0.017	68.448	-0.012	2.677	-0.011	500 1
00	800	8.991	71.014	4.458	71.057	-0.043	4.495	-0.037	71.034	-0.020	4.475	-0.017	600 1
00	1000	9.034	73.025	6.261	73.054	-0.029	6.284	-0.023	73.035	-0.010	6.268	-0.007	700 2
01	1200	9.075	74.676	8.071	74.687	-0.011	8.076	-0.005	74.678	-0.002	8.070	0.001	800 2
00	1400	9.125	76.078	9.891	76.079	-0.001	9.883	0.008	76.076	0.002	9.885	0.006	900 2
00	1600	9.188	77.301	11.722	77.297	0.004	11.707	0.015	77.298	0.003	11.715	0.007	1000 2
00	1800	9.267	78.387	13.567	78.384	0.003	13.552	0.015	78.386	0.001	13.563	0.004	1100 2
00	2000	9.358	79.368	15.430	79.367	0.001	15.418	0.012	79.369	-0.001	15.429	0.001	1200 2
00	2200	9.459	80.265	17.311	80.266	-0.001	17.306	0.005	80.267	-0.002	17.314	-0.003	1300 2
00	2400	9.565	81.093	19.214	81.096	-0.003	19.214	0.000	81.095	-0.002	19.217	-0.003	1400 2
00	2600	9.671	81.862	21.137	81.868	-0.006	21.142	-0.005	81.865	-0.003	21.140	-0.003	1500 2
00	2800	9.774	82.583	23.082	82.589	-0.006	23.089	-0.007	82.584	-0.001	23.082	0.000	
00	3000	9.871	83.261	25.047	83.267	-0.006	25.054	-0.007	83.261	0.000	25.044	0.003	
02	3200	9.871	83.261	25.047	83.267	-0.006	25.054	-0.007	83.261	0.000	25.052	-0.005	
00	3400	9.961	83.901	27.030	83.907	-0.006	27.037	-0.007	83.899	0.002	27.030	0.000	
00	3600	10.043	84.507	29.031	84.513	-0.006	29.035	-0.004	84.505	0.002	29.029	0.002	
01	3800	10.115	85.083	31.046	85.088	-0.005	31.049	-0.003	85.081	0.002	31.044	0.002	
01	4000	10.179	85.632	33.076	85.636	-0.004	33.076	0.000	85.630	0.002	33.075	0.001	
01	4200	10.235	86.155	35.118	86.159	-0.004	35.115	0.003	86.154	0.001	35.117	0.001	
01	4400	10.284	86.656	37.170	86.659	-0.003	37.166	0.004	86.654	0.002	37.170	-0.000	
00	4600	10.325	87.135	39.231	87.139	-0.004	39.227	0.004	87.134	0.001	39.231	-0.000	
00	4800	10.361	87.595	41.300	87.599	-0.004	41.296	0.004	87.594	0.001	41.300	-0.000	
00	5000	10.391	88.037	43.375	88.041	-0.004	43.373	0.002	88.035	0.002	43.375	-0.000	
00	5200	10.416	88.461	45.456	88.466	-0.005	45.455	0.001	88.460	0.001	45.456	0.000	
01	5400	10.438	88.870	47.541	88.875	-0.005	47.543	-0.002	88.869	0.001	47.541	-0.000	
01	5600	10.456	89.265	49.630	89.270	-0.005	49.633	-0.003	89.263	0.002	49.630	-0.000	
00	5800	10.471	89.645	51.723	89.650	-0.005	51.726	-0.003	89.644	0.001	51.723	-0.000	
00	6000	10.484	90.013	53.819	90.017	-0.004	53.819	-0.001	90.011	0.002	53.819	0.000	
01	6200	10.495	90.369	55.917	90.372	-0.003	55.912	0.005	90.367	0.002	55.917	-0.000	

LEAD
NO
DATA
FITS
2 17
+3.111
-1.375

FITS
2 17 1
-814879
-814879

T	K	C
400	1E	
600	24	
800	24	
1000	24	
1200	24	
1400	24	
1600	24	
1800	24	
2000	24	
2200	24	
2400	24	
2600	24	
2800	24	
3000	24	

[illegible]

LEA
MC
D ATP
FITS
17
.39
.55

FITS
17
1.609
1.2609

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400
600
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700
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900

LEAD DICHLORIDE (G) CL 2PB 1 362
 MOL. WT.= 278.090 BLCK= 2935 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -40.610 KEY = 609
 FITS FOR NOTS RMS = 0.002286
 17 1 82 0 0 0 0 0 0 LEAD DICHLORIDE (G) 10J 362 609
 .13917884E+1-7.2364574E-4-9.0424739E-4+1.5063380E-4 400 6000 11J 362 609
 .5557250E-2-4.4941055E+1+9.3179748E+1-4.0609985E+1CL2PB (G) 12J 362 609

FITS FOR EST RMS LOW = 0.000529 RMS HIGH = 0.004305
 17 1 82 0 0 0 0 0 0 LEAD DICHLORIDE (G) 10CL2PB
 .16099+5+374317+5+139152+2-176279-5-542240+5+103467+3 4003000J 36211CL2PB
 .16099+5+374348+5+140008+2-131005-4-634112+6+108467+330006000J 36212CL2PB

	-----NOTS-----								-----EST-----				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	
/M	K	C/M-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M	K
333	100	13.599	80.596	1.375	80.600	-0.004	1.375	0.000	80.601	-0.005	1.377	-0.002	400
127	100	13.769	86.148	4.115	86.147	0.001	4.112	0.003	86.149	-0.001	4.115	-0.000	600
035	100	13.830	90.119	6.876	90.117	0.002	6.872	0.004	90.119	0.000	6.875	0.001	800
003	100	13.859	93.208	9.645	93.206	0.002	9.642	0.003	93.208	-0.000	9.644	0.001	1000
015	200	13.875	95.737	12.418	95.735	0.002	12.416	0.002	95.737	0.000	12.418	-0.000	1200
016	400	13.884	97.876	15.194	97.875	0.001	15.192	0.002	97.876	-0.000	15.194	-0.000	1400
012	600	13.890	99.731	17.972	99.730	0.001	17.970	0.002	99.731	0.000	17.972	0.000	1600
005	800	13.895	101.367	20.751	101.367	0.000	20.749	0.002	101.367	-0.000	20.751	0.000	1800
001	1000	13.898	102.831	23.530	102.831	0.000	23.529	0.001	102.831	-0.000	23.530	0.000	2000
005	200	13.900	104.156	26.310	104.156	0.000	26.309	0.001	104.156	-0.000	26.310	0.000	2200
007	400	13.902	105.365	29.090	105.366	-0.001	29.090	0.000	105.366	-0.001	29.090	0.000	2400
006	600	13.903	106.478	31.870	106.478	-0.000	31.871	-0.001	106.478	-0.000	31.870	-0.000	2600
000	800	13.904	107.509	34.651	107.509	0.000	34.652	-0.001	107.509	0.000	34.651	0.000	2800
008	1000	13.905	108.468	37.432	108.468	-0.000	37.433	-0.001	108.468	0.000	37.432	0.000	3000
	000	13.905	108.468	37.432	108.468	-0.000	37.433	-0.001	108.468	0.000	37.435	-0.003	3000
	200	13.906	109.365	40.213	109.366	-0.001	40.214	-0.001	109.365	0.000	40.214	-0.001	3200
	400	13.906	110.208	42.994	110.209	-0.001	42.995	-0.001	110.207	0.001	42.994	0.000	3400
	600	13.907	111.003	45.776	111.004	-0.001	45.776	-0.000	111.002	0.001	45.774	0.002	3600
	800	13.907	111.755	48.557	111.755	-0.001	48.558	-0.001	111.754	0.001	48.555	0.002	3800
	100	13.908	112.468	51.338	112.469	-0.001	51.339	-0.001	112.467	0.001	51.337	0.001	4000
	200	13.908	113.147	54.120	113.147	-0.000	54.120	-0.000	113.146	0.001	54.119	0.001	4200
	400	13.908	113.794	56.902	113.794	-0.000	56.902	0.000	113.793	0.001	56.901	0.001	4400
	600	13.908	114.412	59.683	114.412	-0.001	59.683	-0.000	114.411	0.001	59.683	0.000	4600
	800	13.909	115.004	62.465	115.004	-0.000	62.465	0.000	115.003	0.001	62.465	-0.000	4800
	100	13.909	115.572	65.247	115.572	-0.000	65.246	0.001	115.571	0.001	65.247	-0.000	5000
	200	13.909	116.118	68.028	116.118	0.000	68.028	0.000	116.117	0.001	68.029	-0.001	5200
	400	13.909	116.642	70.810	116.643	-0.001	70.810	0.000	116.642	0.000	70.811	-0.001	5400
	600	13.909	117.148	73.592	117.148	-0.000	73.592	0.000	117.147	0.001	73.592	-0.000	5600
	800	13.909	117.636	76.374	117.637	-0.001	76.374	0.000	117.635	0.001	76.374	0.000	5800
	100	13.909	118.108	79.156	118.108	-0.000	79.156	-0.000	118.107	0.001	79.155	0.001	6000

LEAD TETRACHLORIDE (G) CL 4PB 1 662
 MOL. WT.= 349.000 BLOCK= 2942 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -75.000 KEY = 610
 FITS FOR NOTS RMS = 0.003889
 4 17 1 82 0 0 0 0 0 0 0 LEAD TETRACHLORIDE (G) 10J 662 610
 +2.5851196E+1-4.9836859E-3-6.0996855E-4+1.8291245E-4 400 6000 11J 662 610
 -1.7602539E-1-8.3279800E+1+1.2227456E+2-7.5000000E+1CL4PB (G) 12J 662 610

FITS FOR EST RMS LOW = 0.000621 RMS HIGH = 0.007830
 4 17 1 82 0 0 0 0 0 0 0 LEAD TETRACHLORIDE (G) 10CL4PB
 -750000+5+693067+5+258351+2-337557-6-168688+6+150667+3+400300J 66211CL4PB
 -750000+5+693125+5+260139+2-261016-4-133427+7+150667+330006000J 66212CL4PB

-----NOTS-----								-----EST-----					
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		
400	24.835	99.121	2.498	99.135	-0.014	2.500	-0.002	99.131	-0.010	2.502	-0.004		
600	25.374	109.313	7.529	109.311	0.002	7.523	0.006	109.314	-0.001	7.529	0.000		
800	25.572	116.644	12.626	116.639	0.005	12.620	0.006	116.643	0.001	12.625	0.001		
1000	25.665	122.361	17.751	122.357	0.004	17.745	0.006	122.361	0.000	17.750	0.001		
1200	25.717	127.046	22.890	127.043	0.003	22.884	0.006	127.045	0.001	22.889	0.001		
1400	25.748	131.012	28.036	131.010	0.002	28.032	0.004	131.012	-0.000	28.036	0.000		
1600	25.768	134.452	33.188	134.451	0.001	33.185	0.003	134.452	0.000	33.188	0.000		
1800	25.782	137.488	38.343	137.487	0.001	38.341	0.002	137.488	0.000	38.343	-0.000		
2000	25.792	140.205	43.501	140.205	0.000	43.500	0.001	140.205	0.000	43.501	0.000		
2200	25.799	142.663	48.660	142.663	-0.000	48.660	0.000	142.663	-0.000	48.660	0.000		
2400	25.805	144.908	53.820	144.909	-0.001	53.821	-0.001	144.908	-0.001	53.820	-0.000		
2600	25.809	146.974	58.982	146.975	-0.001	58.983	-0.001	146.974	-0.000	58.982	0.000		
2800	25.813	148.887	64.144	148.888	-0.001	64.145	-0.001	148.887	0.000	64.144	0.000		
3000	25.816	150.668	69.307	150.669	-0.001	69.308	-0.001	150.668	0.000	69.307	0.000		
3000	25.816	150.668	69.307	150.669	-0.001	69.308	-0.001	150.668	0.000	69.313	-0.006		
3200	25.818	152.334	74.470	152.335	-0.001	74.472	-0.002	152.333	0.001	74.471	-0.001		
3400	25.820	153.899	79.634	153.900	-0.001	79.635	-0.001	153.897	0.002	79.632	0.002		
3600	25.821	155.375	84.798	155.376	-0.001	84.799	-0.001	155.373	0.002	84.795	0.003		
3800	25.823	156.771	89.962	156.772	-0.001	89.963	-0.001	156.769	0.002	89.959	0.003		
4000	25.824	158.096	95.127	158.096	-0.000	95.128	-0.001	158.093	0.003	95.124	0.003		
4200	25.825	159.356	100.292	159.356	-0.000	100.292	-0.000	159.353	0.003	100.289	0.003		
4400	25.826	160.557	105.457	160.558	-0.001	105.457	0.000	160.555	0.002	105.455	0.002		
4600	25.826	161.705	110.622	161.706	-0.001	110.622	0.000	161.703	0.002	110.621	0.001		
4800	25.827	162.804	115.787	162.805	-0.001	115.787	0.000	162.802	0.002	115.788	-0.001		
5000	25.828	163.859	120.953	163.859	-0.000	120.952	0.001	163.857	0.002	120.954	-0.001		
5200	25.828	164.872	126.119	164.872	0.000	126.118	0.001	164.870	0.002	126.120	-0.001		
5400	25.829	165.846	131.284	165.847	-0.001	131.283	0.001	165.845	0.001	131.285	-0.001		
5600	25.829	166.786	136.450	166.786	-0.000	136.449	0.001	166.784	0.002	136.450	-0.000		
5800	25.829	167.692	141.616	167.693	-0.001	141.616	0.000	167.690	0.002	141.615	0.001		
6000	25.830	168.568	146.782	168.568	-0.000	146.782	-0.000	168.566	0.002	146.780	0.002		

IODINE FLUORIDE (G) F 1I 1 1265 N
 MOL. WT.= 145.900 BLCK= 2948 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -22.648 KEY = 611
 FITS FOR NOTS RMS = 0.001732
 1 9 1 53 0 0 0 0 0 0 IODINE FLUORIDE (G) 10J1265 611
 +8.9285888E+0+2.1257615E-1-3.2385822E-3+2.9588770E-4 400 6000 11J1265 611
 -1.1471557E-1-2.5682525E+1+6.6613510E+1-2.2647994E+1FI (G) 12J1265 611

FITS FOR EST RMS LOW = 0.000751 RMS HIGH = 0.003213
 1 9 1 53 0 0 0 0 0 0 IODINE FLUORIDE (G) 10FI
 -226479+5+247221+5+893529+1+203190-3-115344+6+770549+2 4003000J126511FI
 -226479+5+247244+5+900366+1+192235-3-518832+6+770549+230006000J126512FI

-----NOTS-----								-----EST-----				T
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	K
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
400	8.384	58.864	0.837	58.876	-0.012	0.841	-0.004	58.877	-0.013	0.842	-0.005	400
600	8.743	62.341	2.555	62.339	0.002	2.552	0.003	62.340	0.001	2.553	0.002	600
800	8.915	64.882	4.322	64.880	0.002	4.319	0.003	64.881	0.001	4.321	0.001	800
1000	9.020	66.883	6.116	66.882	0.001	6.114	0.002	66.883	-0.000	6.116	0.000	1000
1200	9.097	68.535	7.928	68.534	0.001	7.927	0.001	68.536	-0.001	7.928	-0.000	1200
1400	9.160	69.942	9.754	69.942	0.000	9.753	0.001	69.943	-0.001	9.754	-0.000	1400
1600	9.215	71.169	11.592	71.169	0.000	11.591	0.001	71.170	-0.001	11.592	-0.000	1600
1800	9.266	72.258	13.440	72.257	0.001	13.439	0.001	72.258	-0.000	13.440	-0.000	1800
2000	9.313	73.236	15.298	73.236	-0.000	15.298	0.000	73.237	-0.001	15.298	-0.000	2000
2200	9.359	74.126	17.165	74.126	-0.000	17.165	-0.000	74.127	-0.001	17.165	-0.000	2200
2400	9.403	74.942	19.042	74.942	-0.000	19.042	0.000	74.943	-0.001	19.041	0.001	2400
2600	9.447	75.697	20.927	75.697	0.000	20.927	0.000	75.697	-0.000	20.926	0.001	2600
2800	9.490	76.398	22.820	76.399	-0.001	22.821	-0.001	76.399	-0.001	22.820	-0.000	2800
3000	9.532	77.055	24.722	77.055	0.000	24.723	-0.001	77.055	0.000	24.722	-0.000	3000
3000	9.532	77.055	24.722	77.055	0.000	24.723	-0.001	77.055	0.000	24.724	-0.002	3000
3200	9.574	77.671	26.633	77.671	-0.000	26.634	-0.001	77.671	-0.000	26.634	-0.001	3200
3400	9.616	78.253	28.552	78.253	0.000	28.553	-0.001	78.252	0.001	28.552	0.000	3400
3600	9.657	78.804	30.479	78.804	0.000	30.480	-0.001	78.803	0.001	30.478	0.001	3600
3800	9.698	79.327	32.415	79.327	0.000	32.415	-0.000	79.326	0.001	32.414	0.001	3800
4000	9.739	79.825	34.359	79.825	-0.000	34.359	0.000	79.825	0.000	34.358	0.001	4000
4200	9.780	80.301	36.311	80.302	-0.001	36.311	0.000	80.301	-0.000	36.310	0.001	4200
4400	9.821	80.757	38.271	80.757	-0.000	38.271	0.000	80.757	-0.000	38.270	0.001	4400
4600	9.862	81.195	40.239	81.195	0.000	40.239	0.000	81.195	0.000	40.239	0.000	4600
4800	9.903	81.615	42.215	81.615	-0.000	42.215	-0.000	81.615	-0.000	42.216	-0.001	4800
5000	9.943	82.021	44.200	82.021	0.000	44.200	0.000	82.020	0.001	44.201	-0.001	5000
5200	9.984	82.411	46.193	82.411	-0.000	46.192	0.001	82.411	-0.000	46.193	-0.000	5200
5400	10.025	82.789	48.194	82.789	0.000	48.193	0.001	82.789	0.000	48.194	-0.000	5400
5600	10.065	83.154	50.203	83.154	-0.000	50.202	0.001	83.154	0.000	50.203	0.000	5600
5800	10.106	83.508	52.220	83.508	-0.000	52.220	0.000	83.508	0.000	52.220	0.000	5800
6000	10.146	83.851	54.245	83.851	-0.000	54.245	-0.000	83.851	0.000	54.244	0.001	6000

NITRYL FLUORIDE

(G) F 1N 10 2

1265

MOL. WT. = 65.000 BLOCK = 2954 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -26.000 KEY = 612

FITS FOR NOTS RMS = 0.013190

1 7 2 8 1 9 0 0 0 0 0 NITRYL FLUORIDE (G) 10J1265 612
 +1.8809875E+1+6.4513528E-1-1.3996034E-1+1.0307654E-2 400 6000 11J1265 612
 -1.2365112E+0-3.5222366E+1+7.9397293E+1-2.6000000E+1FNO2 (G) 12J1265 612

FITS FOR EST RMS LOW = 0.020620 RMS HIGH = 0.005936

1 7 2 8 1 9 0 0 0 0 0 NITRYL FLUORIDE (G) 10FNO2
 -260000+5+494831+5+192104+2+207897-3-131241+7+101532+3 4003000J126511FNO2
 -260000+5+494783+5+199948+2-180256-4-303897+7+101532+330006000J126512FNO2

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
.005	400	13.626	65.929	1.305	66.273	-0.344	1.442	-0.137	66.314	-0.385	1.461	-0.156
.002	600	15.876	71.921	4.275	71.869	0.052	4.231	0.044	71.866	0.055	4.230	0.045
.001	800	17.193	76.685	7.594	76.639	0.046	7.555	0.039	76.637	0.048	7.554	0.040
.000	1000	17.987	80.614	11.118	80.594	0.020	11.103	0.015	80.596	0.018	11.106	0.012
.000	1200	18.488	83.941	14.769	83.935	0.006	14.769	-0.000	83.939	0.002	14.775	-0.006
.000	1400	18.819	86.817	18.502	86.817	-0.000	18.509	-0.007	86.821	-0.004	18.515	-0.013
.000	1600	19.046	89.346	22.290	89.347	-0.001	22.298	-0.008	89.349	-0.003	22.302	-0.012
.000	1800	19.209	91.599	26.116	91.599	0.000	26.122	-0.006	91.600	-0.001	26.124	-0.008
.000	2000	19.328	93.629	29.970	93.628	0.001	29.974	-0.004	93.627	0.002	29.972	-0.002
.000	2200	19.419	95.476	33.845	95.473	0.003	33.846	-0.001	95.471	0.005	33.841	0.004
.001	2400	19.488	97.169	37.736	97.165	0.004	37.735	0.001	97.163	0.006	37.729	0.007
.001	2600	19.544	98.731	41.640	98.726	0.005	41.637	0.003	98.725	0.006	41.633	0.007
.000	2800	19.588	100.181	45.553	100.176	0.005	45.550	0.003	100.177	0.004	45.552	0.001
.000	3000	19.623	101.533	49.474	101.529	0.004	49.472	0.002	101.533	0.000	49.483	-0.009
.002	3000	19.623	101.533	49.474	101.529	0.004	49.472	0.002	101.533	0.000	49.478	-0.004
.001	3200	19.653	102.801	53.402	102.797	0.004	53.400	0.002	102.799	0.002	53.403	-0.001
.000	3400	19.678	103.993	57.335	103.989	0.004	57.334	0.001	103.991	0.002	57.334	0.001
.001	3600	19.698	105.118	61.273	105.115	0.003	61.273	-0.000	105.116	0.002	61.271	0.002
.001	3800	19.716	106.184	65.214	106.181	0.003	65.216	-0.002	106.181	0.003	65.212	0.002
.001	4000	19.731	107.196	69.159	107.193	0.003	69.161	-0.002	107.193	0.003	69.157	0.002
.001	4200	19.744	108.159	73.107	108.156	0.003	73.109	-0.002	108.156	0.003	73.105	0.002
.001	4400	19.755	109.077	77.057	109.074	0.003	77.059	-0.002	109.075	0.002	77.055	0.002
.000	4600	19.765	109.956	81.009	109.953	0.003	81.010	-0.001	109.954	0.002	81.008	0.001
.001	4800	19.774	110.797	84.963	110.794	0.003	84.963	0.000	110.795	0.002	84.963	0.000
.001	5000	19.782	111.605	88.918	111.601	0.004	88.917	0.001	111.603	0.002	88.919	-0.001
.000	5200	19.788	112.381	92.875	112.377	0.004	92.873	0.002	112.379	0.002	92.876	-0.001
.000	5400	19.794	113.127	96.833	113.124	0.003	96.831	0.002	113.126	0.001	96.834	-0.001
.000	5600	19.800	113.847	100.793	113.844	0.003	100.791	0.002	113.846	0.001	100.793	-0.000
.000	5800	19.805	114.542	104.753	114.539	0.003	104.753	0.000	114.540	0.002	104.753	0.000
.001	6000	19.809	115.214	108.715	115.211	0.003	108.718	-0.003	115.212	0.002	108.713	0.002

LEAD MONOFLUORIDE (G) F 1PB 1 662
 MOL. WT.= 226.180 BLOCK= 2960 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -9.000 KEY = 613
 FITS FOR NOTS RMS = 0.017469
 9 1 82 0 0 0 0 0 0 0 LEAD MONOFLUORIDE (G) 10J 662 613
 .7779159E+0+8.9720189E-1-7.1357011E-2-9.6836010E-4 400 6000 11J 662 613
 .7507019E-1-1.0759948E+1+6.9442459E+1-9.0000000E+0FPB(G) 12J 662 613

MERCI
 MOL.
 DATA J
 FITS J
 2 9 1
 +1.6343
 -2.7465

FITS FOR EST RMS LOW = 0.008202 RMS HIGH = 0.005224
 9 1 82 0 0 0 0 0 0 0 LEAD MONOFLUORIDE (G) 10FPB
 00000+4+248468+5+833257+1+491740-3+939840+5+803269+2 4003000J 66211FPB
 00000+4+248563+5+109331+2-412460-4-920392+7+803269+230006000J 66212FPB

FITS J
 2 9 1
 -101000
 -101000

-----NOTS-----														-----EST-----	
/M	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T		
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C	
156	000	8.517	62.089	0.854	61.809	0.280	0.734	0.120	61.971	0.118	0.805	0.049	400	18.	
045	000	8.781	65.601	2.588	65.613	-0.012	2.605	-0.017	65.611	-0.010	2.599	-0.011	500	18.	
040	000	8.899	68.145	4.357	68.187	-0.042	4.393	-0.036	68.163	-0.018	4.374	-0.017	600	19.	
012	000	8.968	70.138	6.144	70.166	-0.028	6.167	-0.023	70.147	-0.009	6.152	-0.008	700	19	
006	000	9.024	71.778	7.944	71.790	-0.012	7.949	-0.005	71.779	-0.001	7.942	0.002	800	20	
013	000	9.081	73.174	9.754	73.175	-0.001	9.746	0.008	73.171	0.003	9.748	0.006	900	20	
012	000	9.149	74.391	11.577	74.387	0.004	11.562	0.015	74.387	0.004	11.570	0.007	1000	21	
008	000	9.230	75.473	13.415	75.469	0.004	13.400	0.015	75.471	0.002	13.411	0.004	1100	21	
002	000	9.323	76.450	15.270	76.448	0.002	15.259	0.011	76.450	-0.000	15.269	0.001	1200	22	
004	000	9.424	77.343	17.144	77.344	-0.001	17.139	0.005	77.345	-0.002	17.147	-0.003	1300	22	
007	000	9.529	78.168	19.040	78.171	-0.003	19.039	0.001	78.170	-0.002	19.043	-0.003	1400	23	
007	000	9.635	78.935	20.956	78.940	-0.005	20.960	-0.004	78.936	-0.001	20.958	-0.002	1500	23	
001	000	9.737	79.652	22.893	79.659	-0.007	22.900	-0.007	79.653	-0.001	22.893	0.000	1600	24	
009	000	9.833	80.327	24.850	80.334	-0.007	24.858	-0.008	80.327	0.000	24.847	0.003	1700	24	
004	000	9.833	80.327	24.850	80.334	-0.007	24.858	-0.008	80.327	0.000	24.856	-0.006	1800	25	
001	000	9.921	80.965	26.826	80.971	-0.006	26.832	-0.006	80.962	0.003	26.826	0.000	1900	25	
001	000	10.001	81.569	28.818	81.574	-0.005	28.823	-0.005	81.566	0.003	28.816	0.002	2000	26	
002	000	10.072	82.142	30.826	82.147	-0.005	30.828	-0.002	82.139	0.003	30.823	0.003			
002	000	10.134	82.689	32.846	82.693	-0.004	32.846	0.000	82.686	0.003	32.845	0.001			
002	000	10.189	83.210	34.879	83.214	-0.004	34.876	0.003	83.207	0.003	34.878	0.001			
002	000	10.235	83.708	36.921	83.712	-0.004	36.918	0.003	83.706	0.002	36.921	-0.000			
001	000	10.275	84.185	38.972	84.189	-0.004	38.968	0.004	84.183	0.002	38.973	-0.001			
000	000	10.308	84.643	41.031	84.646	-0.003	41.027	0.004	84.640	0.003	41.031	-0.000			
001	000	10.337	85.082	43.095	85.086	-0.004	43.093	0.002	85.080	0.002	43.096	-0.001			
001	000	10.360	85.505	45.165	85.509	-0.004	45.165	-0.000	85.502	0.003	45.165	-0.000			
001	000	10.379	85.911	47.239	85.916	-0.005	47.241	-0.002	85.909	0.002	47.239	-0.000			
001	000	10.396	86.303	49.317	86.308	-0.005	49.320	-0.003	86.301	0.002	49.317	0.000			
000	000	10.409	86.682	51.397	86.686	-0.004	51.400	-0.003	86.679	0.003	51.397	0.000			
000	000	10.420	87.047	53.480	87.051	-0.004	53.481	-0.001	87.045	0.002	53.480	0.000			
002	000	10.429	87.401	55.565	87.404	-0.003	55.560	0.005	87.398	0.003	55.565	0.000			

362

DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -101.000 KEY = 614

(C) 30J 362 614

31J 362 614

32J 362 614

(C) 30F2HGS

-101000+6+665871+5+164023+2+499880-2-960000+3+791722+2 4002000J 36232F2HG S

[illegible]

MERCU
MOL.
DATA F
FITS F

$$\begin{array}{r} 292 \\ +2.22613 \\ -1.26708 \\ \hline \end{array}$$

FITS P
2 9 2
-116000+
+000000+

T K	C/
400	25.
500	25.
600	26.
700	27.
800	27.
900	28.
1000	28.
1100	29.
1200	29.
1300	29.
1400	30.
1500	30.

LE

M

DAT

FIT

1.19

.80

FIT

9

1617

1617

EST

3

K

470

500

•,00

700

400

900

90

100

200

390

400

500

500

790

800

990

• 7 00

LE
M
DAT
FIT
2 9
+2.38
+5.96

FIT
2 9
-1587
-1587

-----EST-----

[illegible]

LEAD DIFLUORIDE (L) F 2PB 1 0 0 0 0 669
 MOL. WT.= 245.180 BLOCK= 2974 NO. POINT = 24
 DATA FROM 298 TO 2500 K HFORM(KCAL/(MOLE)) = -158.722 KEY = 618
 FITS FOR NOTS RMS = 0.001332
 2 9 1 82 0 0 0 0 0 0 0 LEAD DIFLUORIDE (L) 20J 669 618
 +2.3896957E+1+2.2380256E-1-1.5446358E-1+3.3384189E-2 400 2500 21J 669 618
 +5.9661865E-3-1.6583830E+2+5.7536071E+1-1.5872198E+2F2PB(L) 22J 669 618

FITS FOR EST RMS LOW = 0.000214 RMS HIGH = 0.000214
 2 9 1 82 0 0 0 0 0 0 0 LEAD DIFLUORIDE (L) 20F2PB*
 -158721+6+648435+5+240038+2-160826-5-211200+4+840575+2 4002500J 66921F2PB*
 -158721+6+648435+5+240038+2-160826-5-211200+4+840575+2 4002500J 66922F2PB*

-----				-----NOTS-----				-----EST-----					
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M	
0.623	400	24.000	35.700	2.444	35.699	0.001	2.442	0.002	35.703	-0.003	2.445	-0.001	
-0.134	500	24.000	41.056	4.844	41.054	0.002	4.842	0.002	41.057	-0.001	4.845	-0.001	
-0.625	600	24.000	45.431	7.244	45.429	0.002	7.242	0.002	45.432	-0.001	7.244	-0.000	
-0.283	700	24.000	49.131	9.644	49.129	0.002	9.642	0.002	49.131	0.000	9.644	0.000	
0.248	800	24.000	52.336	12.044	52.334	0.002	12.042	0.002	52.335	0.001	12.044	0.000	
0.163	900	24.000	55.163	14.444	55.162	0.001	14.443	0.001	55.162	0.001	14.444	0.000	
0.099	1000	24.000	57.691	16.844	57.691	0.000	16.843	0.001	57.691	0.000	16.844	0.000	
0.052	1100	24.000	59.979	19.244	59.979	0.000	19.244	0.000	59.978	0.001	19.244	0.000	
0.017	1200	24.000	62.067	21.644	62.067	-0.001	21.645	-0.001	62.067	0.000	21.644	0.000	
-0.007	1300	24.000	63.988	24.044	63.989	-0.001	24.045	-0.001	63.988	0.000	24.044	0.000	
-0.022	1400	24.000	65.766	26.444	65.768	-0.002	26.445	-0.001	65.766	-0.000	26.444	0.000	
-0.029	1500	24.000	67.422	28.844	67.424	-0.002	28.845	-0.001	67.422	-0.000	28.844	0.000	
-0.029	1600	24.000	68.971	31.244	68.972	-0.001	31.245	-0.001	68.971	-0.000	31.244	-0.000	
-0.024	1700	24.000	70.426	33.644	70.427	-0.001	33.645	-0.001	70.426	-0.000	33.644	-0.000	
-0.012	1800	24.000	71.798	36.044	71.799	-0.001	36.045	-0.001	71.798	0.000	36.044	-0.000	
0.005	1900	24.000	73.096	38.444	73.096	-0.000	38.444	-0.000	73.096	0.000	38.444	-0.000	
0.027	2000	24.000	74.327	40.844	74.327	-0.000	40.844	0.000	74.327	0.000	40.844	-0.000	
	2100	24.000	75.498	43.244	75.498	0.000	43.243	0.001	75.498	0.000	43.244	-0.000	
	2200	24.000	76.614	45.644	76.614	-0.000	45.643	0.001	76.614	0.000	45.644	-0.000	
	2300	24.000	77.681	48.044	77.681	-0.000	48.043	0.001	77.681	0.000	48.044	-0.000	
	2400	24.000	78.702	50.444	78.703	-0.001	50.444	0.000	78.702	-0.000	50.444	-0.000	
	2500	24.000	79.682	52.844	79.683	-0.001	52.845	-0.001	79.682	0.000	52.844	0.000	

LEAD DIFLUORIDE (G) F 2PB 1 0 0 0 0 669
 MOL. WT.= 245.180 BLOCK= 2977 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -103.300 KEY = 619
 FITS FOR NOTS RMS = 0.002341
 9 1 82 0 0 0 0 0 0 0 LEAD DIFLUORIDE (G) 10J 669 619
 .3907558E+1+5.1140189E-3-2.1342595E-3+2.3671024E-4 400 6000 11J 669 619
 .3839721E-1-1.0789485E+2+8.7129440E+1-1.0329998E+2F2PB (G) 12J 669 619

IODI
 MOL
 DATA
 FITS
 5 9 1
 +3.1705
 -8.1127

FITS FOR EST RMS LOW = 0.000577 RMS HIGH = 0.004316
 9 1 82 0 0 0 0 0 0 0 LEAD DIFLUORIDE (G) 10F2PB
 103299+6+371817+5+139053+2+150025-5-136304+6+102423+3 4003000J 66911F2PB
 103299+6+371849+5+140044+2-137676-4-752384+6+102423+330006000J 66912F2PB

FITS
 5 9 1
 -200839
 -200839

-----NOTS-----														-----EST-----		T	C
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C				
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C				
101	13.115	74.811	1.313	74.820	-0.009	1.315	-0.002	74.821	-0.010	1.317	-0.004	400	27				
101	13.532	80.222	3.985	80.220	0.002	3.981	0.004	80.222	-0.000	3.984	0.001	600	29				
100	13.692	84.140	6.709	84.138	0.002	6.705	0.004	84.140	-0.000	6.709	0.000	800	30				
100	13.769	87.205	9.456	87.203	0.002	9.453	0.003	87.205	0.000	9.456	0.000	1000	30				
100	13.812	89.719	12.215	89.718	0.001	12.212	0.003	89.720	-0.001	12.215	0.000	1200	31				
100	13.838	91.851	14.980	91.850	0.001	14.978	0.002	91.851	0.000	14.980	0.000	1400	31				
100	13.854	93.700	17.749	93.699	0.001	17.748	0.001	93.700	0.000	17.749	-0.000	1600	31				
100	13.866	95.332	20.521	95.332	0.000	20.520	0.001	95.332	-0.000	20.521	-0.000	1800	31				
100	13.874	96.793	23.256	96.793	-0.000	23.295	0.001	96.794	-0.001	23.295	0.001	2000	31				
100	13.881	98.116	26.071	98.116	-0.000	26.071	0.000	98.116	-0.000	26.071	0.000	2200	31				
100	13.885	99.324	28.848	99.324	-0.000	28.848	0.000	99.324	-0.000	28.847	0.001	2400	31				
100	13.889	100.436	31.625	100.436	0.000	31.625	-0.000	100.436	-0.000	31.625	0.000	2600	31				
100	13.892	101.465	34.403	101.465	-0.000	34.404	-0.001	101.465	-0.000	34.403	-0.000	2800	31				
100	13.894	102.424	37.182	102.424	0.000	37.183	-0.001	102.424	0.000	37.182	0.000	3000	31				
100	13.894	102.424	37.182	102.424	0.000	37.183	-0.001	102.424	0.000	37.185	-0.003	3000	31				
100	13.896	103.320	39.961	103.321	-0.001	39.962	-0.001	103.320	0.000	39.962	-0.001	3200	31				
100	13.898	104.163	42.740	104.163	-0.000	42.741	-0.001	104.162	0.001	42.740	0.000	3400	31				
100	13.899	104.957	45.520	104.958	-0.001	45.521	-0.001	104.956	0.001	45.519	0.001	3600	31				
100	13.900	105.709	48.300	105.709	-0.000	48.300	-0.000	105.708	0.001	48.298	0.002	3800	31				
100	13.901	106.422	51.080	106.422	-0.000	51.080	-0.000	106.421	0.001	51.079	0.001	4000	31				
100	13.902	107.100	53.860	107.100	-0.000	53.861	-0.001	107.099	0.001	53.859	0.001	4200	31				
100	13.903	107.747	56.641	107.747	-0.000	56.641	0.000	107.746	0.001	56.640	0.001	4400	31				
100	13.903	108.365	59.421	108.365	-0.000	59.421	-0.000	108.364	0.001	59.421	-0.000	4600	31				
100	13.904	108.957	62.202	108.957	0.000	62.202	0.000	108.956	0.001	62.202	-0.000	4800	31				
100	13.904	109.524	64.983	109.524	-0.000	64.983	0.000	109.524	0.000	64.983	-0.001	5000	31				
100	13.905	110.069	67.764	110.070	-0.001	67.763	0.001	110.069	0.000	67.765	-0.001	5200	31				
100	13.905	110.594	70.545	110.594	-0.000	70.544	0.001	110.594	0.000	70.545	-0.000	5400	31				
100	13.906	111.100	73.326	111.100	-0.000	73.326	0.000	111.099	0.001	73.326	-0.000	5600	31				
100	13.906	111.588	76.107	111.588	-0.000	76.107	0.000	111.587	0.001	76.107	0.000	5800	31				
100	13.906	112.059	78.888	112.060	-0.001	78.889	-0.001	112.059	0.000	78.887	0.001	6000	31				

IODINE PENTAFLUORIDE (G) P 5I 1 0 0 0 0 1269
 MOL. WT.= 221.890 BLOCK= 2983 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -200.840 KEY = 620
 FITS FOR NOTS RMS = 0.005121
 5 9 1 53 0 0 0 0 0 0 IODINE PENTAFLUORIDE (G) 10J1269 620
 +3.1705307E+1+6.0193635E-2-1.4785889E-2+1.2212097E-3 400 6000 11J1269 620
 -8.1127929E-1-2.1288069E+2+1.1414971E+2-2.0083999E+2P5I (G) 12J1269 620

FITS FOR EST RMS LOW = 0.003069 RMS HIGH = 0.009574
 5 9 1 53 0 0 0 0 0 0 IODINE PENTAFLUORIDE (G) 10P5I
 -200839+6+835079+5+317244+2+226538-4-809392+6+149150+3 4003000J126911P5I
 -200839+6+835140+5+320273+2-340642-4-239436+7+149150+330006000J126912P5I

-----NOTS-----													-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
-0.004	400	27.188	87.586	2.650	87.657	-0.071	2.674	-0.024	87.655	-0.069	2.678	-0.028				
0.001	600	29.512	99.127	8.358	99.114	0.013	8.344	0.014	99.117	0.010	8.351	0.007				
0.000	800	30.457	107.764	14.367	107.752	0.012	14.355	0.012	107.757	0.007	14.361	0.005				
0.000	1000	30.922	114.615	20.510	114.609	0.006	20.501	0.009	114.613	0.002	20.508	0.002				
0.000	1200	31.182	120.278	26.723	120.274	0.004	26.717	0.006	120.277	0.001	26.723	-0.000				
0.000	1400	31.342	125.098	32.976	125.096	0.002	32.973	0.003	125.098	0.000	32.977	-0.001				
-0.000	1600	31.446	129.290	39.256	129.289	0.001	39.254	0.002	129.290	-0.000	39.257	-0.001				
-0.000	1800	31.519	132.999	45.553	132.998	0.001	45.551	0.002	132.998	0.001	45.553	-0.000				
0.001	2000	31.571	136.322	51.862	136.322	0.000	51.861	0.001	136.321	0.001	51.862	0.000				
0.000	2200	31.609	139.333	58.180	139.333	0.000	58.180	-0.000	139.332	0.001	58.179	0.001				
0.001	2400	31.639	142.085	64.505	142.085	0.000	64.505	-0.000	142.084	0.001	64.504	0.001				
0.000	2600	31.662	144.618	70.835	144.618	-0.000	70.836	-0.001	144.617	0.001	70.834	0.001				
-0.000	2800	31.680	146.965	77.169	146.965	-0.000	77.170	-0.001	146.964	0.001	77.169	-0.000				
0.000	3000	31.695	149.151	83.507	149.152	-0.001	83.508	-0.001	149.151	0.000	83.508	-0.001				
-0.003	3000	31.695	149.151	83.507	149.152	-0.001	83.508	-0.001	149.151	0.000	83.514	-0.007				
-0.001	3200	31.707	151.197	89.847	151.198	-0.001	89.848	-0.001	151.195	0.002	89.848	-0.002				
0.000	3400	31.717	153.120	96.189	153.120	-0.000	96.191	-0.002	153.117	0.003	96.188	0.001				
0.001	3600	31.725	154.933	102.533	154.933	-0.000	102.535	-0.002	154.929	0.004	102.530	0.003				
0.002	3800	31.732	156.648	108.879	156.649	-0.001	108.881	-0.002	156.645	0.003	108.875	0.004				
0.001	4000	31.738	158.276	115.226	158.276	-0.000	115.228	-0.002	158.272	0.004	115.223	0.003				
0.001	4200	31.744	159.825	121.574	159.825	-0.000	121.575	-0.001	159.821	0.004	121.572	0.002				
0.001	4400	31.748	161.302	127.924	161.302	0.000	127.924	-0.000	161.298	0.004	127.922	0.002				
-0.000	4600	31.752	162.713	134.274	162.713	0.000	134.274	0.000	162.710	0.003	134.273	0.001				
-0.000	4800	31.755	164.064	140.624	164.064	-0.000	140.624	-0.000	164.062	0.002	140.625	-0.001				
-0.001	5000	31.759	165.361	146.976	165.361	0.000	146.975	0.001	165.358	0.003	146.977	-0.001				
-0.001	5200	31.761	166.607	153.328	166.606	0.001	153.327	0.001	166.604	0.003	153.329	-0.001				
-0.000	5400	31.764	167.805	159.680	167.805	0.000	159.679	0.001	167.802	0.003	159.682	-0.002				
-0.000	5600	31.766	168.960	166.033	168.960	-0.000	166.032	0.001	168.958	0.002	166.034	-0.001				
0.000	5800	31.768	170.075	172.387	170.075	-0.000	172.386	0.001	170.072	0.003	172.386	0.001				
0.001	6000	31.770	171.152	178.740	171.152	-0.000	178.741	-0.001	171.149	0.003	178.737	0.003				

IODINE HEPTAFLUORIDE (G) F 7I 1 0 0 0 0 1269
 MOL. WT.= 259.890 BLOCK= 2989 NO. POINT = 62
 ATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -229.700 KEY = 621
 ITS FOR NOTS RMS = 0.007217
 9 1 53 0 0 0 0 0 0 0 IODINE HEPTAFLUORIDE (G) 10J1269 621
 .3552719E+1+1.1180353E-1-2.7315717E-2+2.2379877E-3 400 6000 11J1269 621
 .2956542E+0-2.4682255E+2+1.2909950E+2-2.2969999E+2P7I(G) 12J1269 621

POTASSI
 MOL. W
 DATA FRC
 FITS FOR
 1 1 1 6
 +1.2161767
 -2.0542907

FITS FOR EST RMS LOW = 0.004980 RMS HIGH = 0.013341
 9 1 53 0 0 0 0 0 0 0 IODINE HEPTAFLUORIDE (G) 10P7I
 .9699+6+114269+6+436033+2+366811-4-129881+7+177250+3 4003000J126911F7I
 .9699+6+114278+6+440292+2-454189-4-346854+7+177250+330006000J126912F7I

FITS FOR
 1 1 1 6
 -555999+54
 -555999+54

-----NOTS-----												-----EST-----											
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH												
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M												
00	36.323	93.175	3.508	93.284	-0.109	3.546	-0.038	93.286	-0.111	3.553	-0.045												
00	40.052	108.733	11.207	108.714	0.019	11.187	0.020	108.718	0.015	11.195	0.012												
00	41.569	120.491	19.388	120.474	0.017	19.370	0.017	120.480	0.011	19.379	0.009												
00	42.315	129.856	27.785	129.846	0.010	27.773	0.012	129.852	0.004	27.782	0.003												
00	42.733	137.611	36.293	137.606	0.005	36.286	0.007	137.610	0.001	36.294	-0.001												
00	42.990	144.219	44.867	144.216	0.003	44.863	0.004	144.220	-0.001	44.870	-0.003												
00	43.158	149.971	53.483	149.969	0.002	53.481	0.002	149.972	-0.001	53.485	-0.002												
00	43.274	155.062	62.127	155.060	0.002	62.126	0.001	155.062	0.000	62.128	-0.001												
00	43.358	159.626	70.791	159.625	0.001	70.790	0.001	159.625	0.001	70.791	0.000												
00	43.420	163.761	79.469	163.761	0.000	79.469	-0.000	163.760	0.001	79.468	0.001												
00	43.467	167.541	88.157	167.541	0.000	88.158	-0.001	167.540	0.001	88.156	0.001												
00	43.504	171.022	96.855	171.022	0.000	96.856	-0.001	171.021	0.001	96.853	0.002												
00	43.533	174.247	105.558	174.247	-0.000	105.560	-0.002	174.246	0.001	105.558	-0.000												
00	43.557	177.251	114.268	177.252	-0.001	114.270	-0.002	177.251	0.000	114.269	-0.001												
00	43.557	177.251	114.268	177.252	-0.001	114.270	-0.002	177.251	0.000	114.278	-0.010												
00	43.576	180.063	122.981	180.063	-0.000	122.984	-0.003	180.060	0.003	122.984	-0.003												
00	43.592	182.705	131.698	182.706	-0.001	131.701	-0.003	182.701	0.004	131.696	0.002												
00	43.606	185.197	140.418	185.198	-0.001	140.421	-0.003	185.192	0.005	140.413	0.005												
00	43.617	187.555	149.140	187.556	-0.001	149.143	-0.003	187.550	0.005	149.135	0.005												
00	43.627	189.793	157.864	189.793	-0.000	157.867	-0.003	189.788	0.005	157.860	0.004												
00	43.635	191.922	166.591	191.922	0.000	166.593	-0.002	191.917	0.005	166.587	0.004												
00	43.643	193.952	175.319	193.952	0.000	175.320	-0.001	193.947	0.005	175.316	0.003												
00	43.649	195.892	184.048	195.892	0.000	184.049	-0.001	195.888	0.004	184.047	0.001												
00	43.655	197.750	192.778	197.750	0.000	192.778	-0.000	197.746	0.004	192.779	-0.001												
00	43.660	199.532	201.510	199.532	0.000	201.509	0.001	199.528	0.004	201.511	-0.001												
00	43.664	201.244	210.242	201.244	0.000	210.241	0.001	201.241	0.003	210.244	-0.002												
00	43.668	202.892	218.975	202.892	0.000	218.974	0.001	202.889	0.003	218.977	-0.002												
00	43.671	204.481	227.709	204.480	0.001	227.708	0.001	204.477	0.004	227.710	-0.001												
00	43.674	206.013	236.444	206.013	0.000	236.444	0.000	206.009	0.004	236.443	0.001												
00	43.677	207.494	245.179	207.494	0.000	245.180	-0.001	207.489	0.005	245.175	0.004												

T C
 K C/M-
 400 12.13
 600 12.57
 800 12.83
 1000 13.08
 1200 13.32
 1400 13.55
 1600 13.74
 1800 13.91
 2000 14.04
 2200 14.11
 2400 14.21
 2600 14.31
 2800 14.40
 3000 14.48
 3000 14.48
 3200 14.50
 3400 14.51
 3600 14.51
 3800 14.61
 4000 14.61
 4200 14.61
 4400 14.61
 4600 14.61
 4800 14.71
 5000 14.71
 5200 14.71
 5400 14.71
 5600 14.71
 5800 14.71
 6000 14.71

LEAD MONOHYDRIDE (G) H 1PB 1 662 AMM
 MOL. WT.= 208.190 BLOCK= 3002 NO. POINT = 62 MO
 ATA FROM 0 TO 6000 K BFORM(KCAL/(MOLE)) = 56.450 KEY = 623 DATA
 FITS FOR NOTS RMS = 0.012781 FITS
 1 1 82 0 0 0 0 0 0 0 LEAD MONOHYDRIDE (G) 10J 662 623 4 1
 .1805324E+0+1.3784961E+0-1.6911399E-1+6.3212364E-3 400 6000 11J 662 623 +8.187
 .0650878E-3+5.4147979E+1+6.0743164E+1+5.6449996E+1HPB(G) 12J 662 623 +8.509

 FITS FOR EST RMS LOW = 0.002509 RMS HIGH = 0.004294 FITS
 1 1 82 0 0 0 0 0 0 0 LEAD MONOHYDRIDE (G) 10HPB 4 1
 64499+5+240419+5+803754+1+659105-3-236512+6+720579+2 4003000J 66211HPB -48299
 64499+5+240452+5+109758+2+753670-5-964161+7+720579+230006000J 66212HPB -48299

/M	-----NOTS-----												T
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
122	100	7.244	54.833	0.727	54.677	0.156	0.657	0.070	54.875	-0.042	0.744	-0.017	400 2
021	100	7.755	57.867	2.227	57.861	0.006	2.229	-0.002	57.856	0.011	2.220	0.007	500 2
041	100	8.170	60.158	3.822	60.184	-0.026	3.845	-0.023	60.156	0.002	3.821	0.001	600 2
023	100	8.461	62.014	5.487	62.035	-0.021	5.505	-0.018	62.015	-0.001	5.488	-0.001	700 2
002	100	8.672	63.576	7.201	63.586	-0.010	7.206	-0.005	63.576	0.000	7.201	-0.000	800 2
012	100	8.843	64.926	8.953	64.927	-0.001	8.947	0.006	64.925	0.001	8.952	0.001	900 2
016	100	8.997	66.117	10.737	66.114	0.003	10.726	0.011	66.116	0.001	10.736	0.001	1000 2
013	100	9.146	67.185	12.551	67.182	0.003	12.540	0.011	67.185	0.000	12.551	-0.000	1100 3
005	100	9.294	68.157	14.395	68.155	0.002	14.386	0.009	68.156	0.001	14.396	-0.001	1200 3
004	100	9.441	69.049	16.269	69.050	-0.001	16.264	0.005	69.049	-0.000	16.270	-0.001	1300 3
009	100	9.583	69.877	18.171	69.879	-0.002	18.171	-0.000	69.876	0.001	18.171	-0.000	1400 3
010	100	9.720	70.650	20.102	70.653	-0.003	20.105	-0.003	70.648	0.001	20.101	0.001	1500 3
003	100	9.848	71.375	22.059	71.379	-0.004	22.064	-0.005	71.374	0.001	22.058	0.001	1600 3
014	100	9.966	72.058	24.040	72.063	-0.005	24.046	-0.006	72.058	0.000	24.042	-0.002	1700 3
003	100	9.966	72.058	24.040	72.063	-0.005	24.046	-0.006	72.058	0.000	24.045	-0.005	1800 3
001	100	10.074	72.705	26.044	72.709	-0.004	26.050	-0.006	72.703	0.002	26.044	-0.000	1900 3
001	100	10.171	73.319	28.069	73.322	-0.003	28.073	-0.004	73.316	0.003	28.067	0.002	2000 3
002	100	10.257	73.902	30.112	73.906	-0.004	30.114	-0.002	73.900	0.002	30.110	0.002	
002	100	10.333	74.459	32.171	74.462	-0.003	32.171	0.000	74.457	0.002	32.170	0.001	
001	100	10.400	74.991	34.245	74.993	-0.002	34.243	0.002	74.989	0.002	34.244	0.001	
000	100	10.459	75.500	36.331	75.502	-0.002	36.328	0.003	75.498	0.002	36.331	0.000	
001	100	10.510	75.987	38.428	75.989	-0.002	38.425	0.003	75.986	0.001	38.428	0.000	
000	100	10.555	76.456	40.534	76.458	-0.002	40.532	0.002	76.454	0.002	40.535	-0.001	
001	100	10.594	76.906	42.649	76.908	-0.002	42.648	0.001	76.904	0.002	42.650	-0.001	
001	100	10.629	77.339	44.772	77.342	-0.003	44.771	0.000	77.337	0.002	44.772	0.000	
000	100	10.659	77.756	46.900	77.759	-0.003	46.902	-0.002	77.754	0.002	46.900	-0.001	
000	100	10.687	78.159	49.035	78.162	-0.003	49.037	-0.002	78.157	0.002	49.035	0.000	
001	100	10.711	78.548	51.175	78.551	-0.003	51.177	-0.002	78.546	0.002	51.175	0.000	
001	100	10.734	78.924	53.319	78.927	-0.003	53.320	-0.001	78.923	0.001	53.319	-0.000	
001	100	10.754	79.289	55.468	79.291	-0.002	55.465	0.003	79.287	0.002	55.468	0.000	

AMMONIUM IODIDE (C) H 4I 1N 1

MOL. WT. = 144.940 BLOCK = 3008 NO. POINT = 19

DATA FROM 298 TO 2000 K HFCRM(KCAL/(MOLE)) = -48.300 KEY = 624

FITS FOR NOTS RMS = 0.013411

4 1 1 7 1 53 0 0 0 0 0 AMMONIUM IODIDE (C) 30J 362 624
+8.1878356E+0+2.0278579E+1+8.3353872E+0-5.8852348E+0 400 2000 31J 362 624
+8.5093688E-1-4.9162567E+1+3.4407058E+1-4.8299987E+1H4IN(C) 32J 362 624

FITS FOR EST RMS LOW = 0.230466 RMS HIGH = 0.230466

4 1 1 7 1 53 0 0 0 0 0 AMMONIUM IODIDE (C) 30H4INS\$
-482999+5+949138+5+354975+2+227011-2-476891+7+978429+2 4002000J 36231H4INS\$
-482999+5+949138+5+354975+2+227011-2-476891+7+978429+2 4002000J 36232H4INS\$

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
7	400	21.271	32.980	2.077	32.898	0.082	2.048	0.029	35.054	-2.074	2.919	-0.842
7	500	22.980	37.910	4.290	37.966	-0.056	4.320	-0.030	37.837	0.073	4.186	0.104
1	600	24.680	42.251	6.673	42.286	-0.035	6.692	-0.019	41.622	0.629	6.271	0.402
1	700	26.400	46.184	9.227	46.183	0.001	9.221	0.006	45.564	0.620	8.833	0.394
0	800	28.130	49.822	11.953	49.801	0.021	11.933	0.020	49.390	0.432	11.702	0.251
1	900	29.870	53.236	14.853	53.216	0.020	14.834	0.019	53.016	0.220	14.782	0.071
1	1000	31.570	56.472	17.926	56.466	0.006	17.921	0.005	56.424	0.048	18.018	-0.092
0	1100	33.300	59.562	21.169	59.574	-0.012	21.183	-0.014	59.621	-0.059	21.372	-0.203
1	1200	35.000	62.533	24.585	62.550	-0.017	24.605	-0.020	62.622	-0.089	24.822	-0.237
1	1300	36.336	65.389	28.154	65.399	-0.010	28.164	-0.010	65.445	-0.056	28.349	-0.195
0	1400	37.308	68.120	31.840	68.121	-0.001	31.837	0.003	68.108	0.012	31.944	-0.104
1	1500	37.917	70.717	35.604	70.712	0.005	35.594	0.010	70.628	0.089	35.596	0.008
1	1600	38.161	73.174	39.411	73.169	0.005	39.401	0.010	73.017	0.157	39.298	0.113
2	1700	38.042	75.485	43.224	75.485	0.000	43.221	0.003	75.290	0.195	43.047	0.177
5	1800	37.558	77.648	47.007	77.652	-0.004	47.013	-0.006	77.457	0.191	46.839	0.168
0	1900	36.711	79.657	50.724	79.664	-0.007	50.732	-0.008	79.528	0.129	50.669	0.055
2	2000	35.500	81.511	54.337	81.510	0.001	54.332	0.005	81.511	0.000	54.536	-0.199

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MERCURY DIIODIDE (C) HG 1I 2 362
 MOL. WT.= 454.390 BLOCK= 3010 NO. POINT = 14
 DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -25.200 KEY = 625
 FITS FOR NOTS RMS = 0.013372
 2 53 1 80 0 0 0 0 0 0 0 MERCURY DIIODIDE (C) 30J 362 625
 -5.4071411E+1+1.5371249E+2-1.1564671E+2+3.0048538E+1 400 1500 31J 362 625
 +6.1869192E+0+3.8399505E+0-3.3974517E+1-2.5199996E+1HGI2 (C) 32J 362 625

FITS FOR EST RMS LOW = 0.034022 RMS HIGH = 0.034022
 2 53 1 80 0 0 0 0 0 0 0 MERCURY DIIODIDE (C) 30HGI2\$
 -251999+5+572157+5+168601+2+204663-2+103559+7+919340+2 4001500J 36231HGI2\$
 -251999+5+572157+5+168601+2+204663-2+103559+7+919340+2 4001500J 36232HGI2\$

-----NOTS-----												-----EST-----											
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	CP	S	H	SC	DS	HC	DH	T	CP	S	H
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K	C/M-K	KC/M
400	19.600	48.941	1.944	49.111	-0.170	1.966	-0.022	49.463	-0.522	2.089	-0.145	400	19.600	48.941	1.944	49.111	-0.170	1.966	-0.022	400	19.600	48.941	1.944
500	20.105	54.917	4.554	54.783	0.133	4.495	0.059	54.594	0.323	4.385	0.169	500	20.105	54.917	4.554	54.783	0.133	4.495	0.059	500	20.105	54.917	4.554
600	20.105	58.583	6.564	58.628	-0.045	6.601	-0.037	58.506	0.077	6.529	0.035	600	20.105	58.583	6.564	58.628	-0.045	6.601	-0.037	600	20.105	58.583	6.564
700	20.105	61.682	8.575	61.699	-0.017	8.592	-0.017	61.691	-0.009	8.595	-0.020	700	20.105	61.682	8.575	61.699	-0.017	8.592	-0.017	700	20.105	61.682	8.575
800	20.105	64.367	10.585	64.349	0.018	10.577	0.008	64.395	-0.028	10.619	-0.034	800	20.105	64.367	10.585	64.349	0.018	10.577	0.008	800	20.105	64.367	10.585
900	20.105	66.735	12.596	66.710	0.025	12.581	0.015	66.755	-0.020	12.623	-0.027	900	20.105	66.735	12.596	66.710	0.025	12.581	0.015	900	20.105	66.735	12.596
1000	20.105	68.853	14.606	68.837	0.016	14.601	0.005	68.858	-0.005	14.619	-0.013	1000	20.105	68.853	14.606	68.837	0.016	14.601	0.005	1000	20.105	68.853	14.606
1100	20.105	70.769	16.617	70.764	0.005	16.623	-0.006	70.759	0.010	16.614	0.003	1100	20.105	70.769	16.617	70.764	0.005	16.623	-0.006	1100	20.105	70.769	16.617
1200	20.105	72.518	18.627	72.516	0.002	18.636	-0.009	72.499	0.019	18.613	0.014	1200	20.105	72.518	18.627	72.516	0.002	18.636	-0.009	1200	20.105	72.518	18.627
1300	20.105	74.128	20.638	74.119	0.009	20.638	-0.000	74.107	0.021	20.622	0.016	1300	20.105	74.128	20.638	74.119	0.009	20.638	-0.000	1300	20.105	74.128	20.638
1400	20.105	75.618	22.648	75.602	0.016	22.639	0.009	75.603	0.015	22.641	0.007	1400	20.105	75.618	22.648	75.602	0.016	22.639	0.009	1400	20.105	75.618	22.648
1500	20.105	77.005	24.659	76.997	0.008	24.662	-0.003	77.005	0.000	24.673	-0.014	1500	20.105	77.005	24.659	76.997	0.008	24.662	-0.003	1500	20.105	77.005	24.659

MERCURY DIIODIDE

(L) HG 1I 2

362

MOL. WT. = 454.390 BLOCK = 3012 NO. POINT = 14

DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -20.862 KEY = 626

FITS FOR HOTS RMS = 0.000146

2 53 1 80 0 0 0 0 0 0 0 MERCURY DIIODIDE (L) 20J 362 626
+2.4177444E+1+5.5744206E-1-4.9502116E-1+1.4833790E-1 400 1500 21J 362 626
+1.2054443E-2-2.8356948E+1+7.9781112E+1-2.0861999E+1HGI2(L) 22J 362 626

FITS FOR EST RMS LOW = 0.000111 RMS HIGH = 0.000111

2 53 1 80 0 0 0 0 0 0 0 MERCURY DIIODIDE (L) 20HGI2*
-208619+5+656141+5+244084+2-551565-5-224000+4+106937+3 4001500J 36221HGI2*
-208619+5+656141+5+244084+2-551565-5-224000+4+106937+3 4001500J 36222HGI2*

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
.145	400	24.400	57.777	2.181	57.776	0.001	2.181	0.000	57.779	-0.002	2.181	-0.000
.169	500	24.400	63.221	4.621	63.222	-0.001	4.621	-0.000	63.222	-0.001	4.621	0.000
.035	600	24.400	67.670	7.061	67.670	0.000	7.061	0.000	67.670	-0.000	7.061	0.000
.020	700	24.400	71.431	9.501	71.431	-0.000	9.501	0.000	71.432	-0.001	9.501	0.000
.034	800	24.400	74.690	11.941	74.690	0.000	11.941	-0.000	74.690	0.000	11.941	0.000
.027	900	24.400	77.563	14.381	77.564	-0.001	14.381	-0.000	77.564	-0.001	14.381	0.000
.013	1000	24.400	80.134	16.821	80.134	-0.000	16.821	-0.000	80.135	-0.001	16.821	0.000
.003	1100	24.400	82.460	19.261	82.460	0.000	19.261	-0.000	82.460	-0.000	19.261	0.000
.014	1200	24.400	84.583	21.701	84.583	0.000	21.701	-0.000	84.583	-0.000	21.701	0.000
.016	1300	24.400	86.536	24.141	86.536	0.000	24.141	0.000	86.536	-0.000	24.141	0.000
.007	1400	24.400	88.344	26.581	88.344	-0.000	26.581	0.000	88.345	-0.001	26.581	0.000
.014	1500	24.400	90.028	29.021	90.028	0.000	29.021	-0.000	90.028	0.000	29.021	0.000

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MERCURY DIIODIDE

(G) HG 1I 2

362

MOL. WT. = 454.390 BLOCK = 3013 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = -3.855 KEY = 627

FITS FOR NOTS RMS = 0.002523

53 1 80 0 0 0 0 0 0 0 MERCURY DIIODIDE

(G) 10J 362 627

.4913552E+1-1.8049743E-3-7.0943520E-4+1.3987423E-4 400 6000

11J 362 627

.2684326E-2-8.4065284E+0+9.8213226E+1-3.8549995E+0HGI2 (G)

12J 362 627

FITS FOR EST RMS LOW = 0.000522 RMS HIGH = 0.004660

53 1 80 0 0 0 0 0 0 0 MERCURY DIIODIDE

(G) 10HGI2

+5499+4+401875+5+149042+2+187531-6-279040+5+114590+3 4003000J 36211HGI2

+5499+4+401910+5+150110+2-154850-4-719104+6+114590+330006000J 36212HGI2

DH

KC/H

81 -0.000
 21 0.000
 61 0.000
 01 0.000
 141 0.000
 181 0.000
 121 0.000
 161 0.000
 101 0.000
 141 0.000
 181 0.000
 121 0.000

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H
100	14.736	84.644	1.495	84.649	-0.005	1.495	-0.000	84.646	-0.002	1.496	-0.001
200	14.828	90.640	4.454	90.639	0.001	4.451	0.003	90.640	-0.000	4.454	0.000
300	14.861	94.911	7.423	94.909	0.002	7.419	0.004	94.911	-0.000	7.423	0.000
400	14.877	98.229	10.397	98.227	0.002	10.394	0.003	98.229	-0.000	10.397	0.000
500	14.885	100.943	13.373	100.941	0.002	13.370	0.003	100.942	0.001	13.373	-0.000
600	14.890	103.238	16.351	103.236	0.002	16.348	0.003	103.237	0.001	16.351	0.000
700	14.894	105.226	19.329	105.225	0.001	19.327	0.002	105.226	0.000	19.329	-0.000
800	14.896	106.981	22.308	106.980	0.001	22.307	0.001	106.980	0.001	22.308	-0.000
900	14.898	108.550	25.288	108.550	0.000	25.287	0.001	108.550	0.000	25.287	0.001
1000	14.899	109.970	28.267	109.970	-0.000	28.267	-0.000	109.970	0.000	28.267	-0.000
1100	14.900	111.266	31.247	111.267	-0.001	31.247	-0.000	111.266	0.000	31.247	0.000
1200	14.900	112.459	34.227	112.459	-0.000	34.228	-0.001	112.459	0.000	34.227	-0.000
1300	14.901	113.563	37.207	113.564	-0.001	37.208	-0.001	113.563	0.000	37.207	-0.000
1400	14.902	114.591	40.188	114.592	-0.001	40.188	-0.000	114.591	0.000	40.188	0.000
1500	14.902	114.591	40.188	114.592	-0.001	40.188	-0.000	114.591	0.000	40.191	-0.003
1600	14.902	115.553	43.168	115.554	-0.001	43.169	-0.001	115.552	0.001	43.169	-0.001
1700	14.902	116.457	46.148	116.457	-0.000	46.149	-0.001	116.455	0.002	46.147	0.001
1800	14.902	117.308	49.129	117.309	-0.001	49.129	-0.000	117.306	0.002	49.127	0.002
1900	14.903	118.114	52.109	118.115	-0.001	52.110	-0.001	118.112	0.002	52.107	0.002
2000	14.903	118.879	55.090	118.879	0.000	55.090	-0.000	118.876	0.003	55.088	0.002
2100	14.903	119.606	58.070	119.606	0.000	58.071	-0.001	119.604	0.002	58.069	0.001
2200	14.903	120.299	61.051	120.299	-0.000	61.051	0.000	120.297	0.002	61.050	0.001
2300	14.903	120.961	64.031	120.962	-0.001	64.031	-0.000	120.960	0.001	64.031	-0.000
2400	14.903	121.596	67.012	121.596	0.000	67.012	0.000	121.594	0.002	67.012	-0.000
2500	14.903	122.204	69.993	122.204	-0.000	69.992	0.001	122.202	0.002	69.993	-0.000
2600	14.904	122.789	72.974	122.789	0.000	72.973	0.001	122.787	0.002	72.974	-0.000
2700	14.904	123.351	75.954	123.351	-0.000	75.954	0.000	123.349	0.002	75.955	-0.001
2800	14.904	123.893	78.935	123.893	-0.000	78.935	0.000	123.891	0.002	78.935	-0.000
2900	14.904	124.416	81.916	124.416	-0.000	81.916	0.000	124.414	0.002	81.915	0.000
3000	14.904	124.921	84.857	124.922	-0.001	84.897	0.000	124.919	0.002	84.895	0.002

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MERCURY MONOIODIDE, DIMERIC (L) HG 2I 2 362
 MOL. WT.= 654.980 BLOCK= 3021 NO. POINT = 14
 DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -23.021 KEY = 629
 FITS FOR NOTS RMS = 0.000230
 53 2 80 0 0 0 0 0 0 0 MERCURY MONOIODIDE, DIMERIC (L) 20J 362 629
 3.2622512E+1-1.1754274E-2-3.4683689E-2+2.3599207E-2 400 1500 21J 362 629
 2.5177001E-3-3.3280914E+1+1.0476325E+2-2.3020996E+1HG2I2 (L) 22J 362 629

FITS FOR EST RMS LOW = 0.000233 RMS HIGH = 0.000233
 2 53 2 80 0 0 0 0 0 0 0 MERCURY MONOIODIDE, DIMERIC (L) 20HG2I2*
 230209+5+875561+5+325961+2+268830-5-640000+2+140558+3 4001500J 36221HG2I2*
 230209+5+875561+5+325961+2+268830-5-640000+2+140558+3 4001500J 36222HG2I2*

H	-----NOTS-----								-----EST-----								T
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	K			
	K	C/M-K	C/H-K	KC/M	C/M-K	C/H-K	KC/M	KC/M	C/M-K	C/H-K	KC/M	KC/M		K			K
05	400	32.600	74.872	2.794	74.872	-0.000	2.794	0.000	74.874	-0.002	2.794	-0.000		400	1		400
04	500	32.600	82.147	6.054	82.147	0.000	6.054	0.000	82.148	-0.001	6.054	-0.000		600	1		600
02	600	32.600	88.090	9.314	88.091	-0.001	9.314	0.000	88.091	-0.001	9.314	0.000		800	1		800
00	700	32.600	93.116	12.574	93.116	-0.000	12.574	-0.000	93.116	-0.000	12.574	0.000		1000	1		1000
01	800	32.600	97.469	15.834	97.469	-0.000	15.834	0.000	97.469	0.000	15.833	0.000		1200	1		1200
01	900	32.600	101.309	19.094	101.309	0.000	19.094	0.000	101.308	0.001	19.093	0.001		1400	1		1400
01	1000	32.600	104.743	22.353	104.743	-0.000	22.354	-0.001	104.743	-0.000	22.353	-0.000		1600	1		1600
01	1100	32.600	107.850	25.613	107.850	-0.000	25.613	-0.000	107.850	-0.000	25.613	-0.000		1800	1		1800
02	1200	32.600	110.687	28.873	110.686	0.001	28.873	0.000	110.687	0.000	28.873	-0.000		2000	1		2000
00	1300	32.600	113.296	32.133	113.296	0.000	32.133	0.000	113.296	0.000	32.133	0.000		2200	1		2200
02	1400	32.600	115.712	35.393	115.712	0.000	35.393	0.000	115.712	0.000	35.393	0.000		2400	1		2400
01	1500	32.600	117.961	38.653	117.961	0.000	38.653	-0.000	117.961	0.000	38.653	0.000		2600	1		2600
														2800	1		2800
														3000	1		3000
														3000	1		3000
														3200	1		3200
														3400	1		3400
														3600	1		3600
														3800	1		3800
														4000	1		4000
														4200	1		4200
														4400	1		4400
														4600	1		4600
														4800	1		4800
														5000	1		5000
														5200	1		5200
														5400	1		5400
														5600	1		5600
														5800	1		5800
														6000	1		6000

NITROSYL IODIDE (G) I 1N 10 1 0 0 0 1266
 MCL. WT.= 156.910 BLOCK= 3023 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 26.800 KEY = 630
 FITS FOR NOTS RMS = 0.007805
 1 7 1 8 1 53 0 0 0 0 0 NITROSYL IODIDE (G) 10J1266 630
 +1.3243917E+1+4.0157139E-1-8.6789250E-2+6.3804164E-3 400 6000 11J1266 630
 -4.7872924E-1+2.1513763E+1+8.1608642E+1+2.6799987E+1INO(G) 12J1266 630

FITS FOR EST RMS LOW = 0.011882 RMS HIGH = 0.004258
 1 7 1 8 1 53 0 0 0 0 0 NITROSYL IODIDE (G) 10INO
 +267999+5+357671+5+134906+2+130859-3-524720+6+970589+2 4003000J126611INO
 +267999+5+357649+5+140017+2-134411-4-172816+7+970589+230006000J126612INO

/H	-----NOTS-----												-----EST-----												T
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	ES C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M													
000	400	11.607	70.932	1.162	71.123	-0.191	1.238	-0.076	71.147	-0.215	1.250	-0.088													K
000	600	12.232	75.762	3.549	75.734	0.028	3.524	0.025	75.732	0.030	3.524	0.025													400
000	800	12.702	79.349	6.045	79.322	0.027	6.022	0.023	79.321	0.028	6.022	0.023													600
000	1000	13.026	82.220	8.620	82.208	0.012	8.610	0.010	82.209	0.011	8.612	0.008													800
000	1200	13.246	84.616	11.249	84.613	0.003	11.248	0.001	84.615	0.001	11.252	-0.003													1000
001	1400	13.397	86.670	13.914	86.670	0.000	13.917	-0.003	86.673	-0.003	13.921	-0.007													1200
000	1600	13.504	88.466	16.605	88.467	-0.001	16.609	-0.004	88.469	-0.003	16.612	-0.007													1400
000	1800	13.582	90.062	19.314	90.062	0.000	19.317	-0.003	90.062	-0.000	19.318	-0.004													1600
000	2000	13.640	91.496	22.036	91.495	0.001	22.038	-0.002	91.495	0.001	22.037	-0.001													1800
000	2200	13.684	92.798	24.768	92.796	0.002	24.769	-0.001	92.795	0.003	24.766	0.002													2000
000	2400	13.718	93.990	27.509	93.988	0.002	27.508	0.001	93.986	0.003	27.505	0.004													2200
000	2600	13.745	95.089	30.255	95.087	0.002	30.254	0.001	95.086	0.003	30.251	0.004													2400
	2800	13.767	96.109	33.006	96.106	0.003	33.005	0.001	96.106	0.003	33.006	0.000													2600
	3000	13.785	97.059	35.762	97.057	0.002	35.760	0.002	97.059	0.000	35.767	-0.005													2800
	3000	13.785	97.059	35.762	97.057	0.002	35.760	0.002	97.059	0.000	35.765	-0.003													3000
	3200	13.800	97.949	38.520	97.947	0.002	38.519	0.001	97.948	0.001	38.521	-0.001													3200
	3400	13.812	98.786	41.281	98.784	0.002	41.281	-0.000	98.785	0.001	41.281	0.000													3400
	3600	13.822	99.576	44.045	99.574	0.002	44.045	-0.000	99.574	0.002	44.043	0.002													3600
	3800	13.831	100.324	46.810	100.322	0.002	46.811	-0.001	100.322	0.002	46.808	0.002													3800
	4000	13.839	101.033	49.577	101.032	0.001	49.579	-0.002	101.032	0.001	49.576	0.001													4000
	4200	13.845	101.709	52.346	101.707	0.002	52.347	-0.001	101.707	0.002	52.344	0.002													4200
	4400	13.851	102.353	55.115	102.351	0.002	55.117	-0.002	102.351	0.002	55.114	0.001													4400
	4600	13.856	102.969	57.886	102.967	0.002	57.887	-0.001	102.967	0.002	57.886	0.000													4600
	4800	13.860	103.558	60.657	103.557	0.001	60.658	-0.001	103.557	0.001	60.658	-0.001													4800
	5000	13.864	104.124	63.430	104.122	0.002	63.429	0.001	104.123	0.001	63.430	-0.000													5000
	5200	13.868	104.668	66.203	104.666	0.002	66.202	0.001	104.667	0.001	66.204	-0.001													5200
	5400	13.871	105.192	68.977	105.189	0.003	68.975	0.002	105.190	0.002	68.977	-0.001													5400
	5600	13.873	105.696	71.751	105.694	0.002	71.750	0.001	105.695	0.001	71.752	-0.001													5600
	5800	13.876	106.183	74.526	106.181	0.002	74.526	0.000	106.182	0.001	74.526	0.000													5800
	6000	13.878	106.653	77.302	106.652	0.001	77.304	-0.002	106.652	0.001	77.301	0.001													6000

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LEAD MONOIODIDE

(G) I 1PB 1

662

MOL. WT. = 334.090 BLOCK = 3029 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = 25.700 KEY = 631

FITS FOR NOTS RMS = 0.017635

1 53 1 82 0 0 0 0 0 0 0 LEAD MONOIODIDE (G) 10J 662 631
 1.6319570E+0+1.0183610E+0-1.1130845E-1+2.1357713E-3 400 6000 11J 662 631
 1.7640380E-1+2.4288101E+1+7.6942489E+1+2.5699996E+1IPB(G) 12J 662 631

FITS FOR EST RMS LOW = 0.007787 RMS HIGH = 0.004230

1 53 1 82 0 0 0 0 0 0 0 LEAD MONOIODIDE (G) 10IPB
 56999+5+249730+5+831762+1+481820-3+166208+6+878729+2 4003000J 66211IPB
 56999+5+249803+5+109729+2-812857-4-883329+7+878729+230006000J 66212IPB

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M	
-0.088	400	8.920	69.470	0.906	69.172	0.298	0.779	0.127	69.351	0.119	0.857	0.049	
0.025	600	8.966	73.096	2.696	73.112	-0.016	2.715	-0.019	73.108	-0.012	2.708	-0.012	
0.023	800	8.993	75.680	4.492	75.725	-0.045	4.530	-0.038	75.698	-0.018	4.508	-0.016	
0.008	1000	9.017	77.689	6.293	77.718	-0.029	6.316	-0.023	77.698	-0.009	6.300	-0.007	
-0.003	1200	9.045	79.335	8.099	79.346	-0.011	8.103	-0.004	79.336	-0.001	8.097	0.002	
-0.007	1400	9.086	80.733	9.912	80.733	0.000	9.902	0.010	80.730	0.003	9.906	0.006	
-0.007	1600	9.145	81.949	11.734	81.946	0.003	11.719	0.015	81.947	0.002	11.728	0.006	1
-0.004	1800	9.219	83.031	13.571	83.027	0.004	13.555	0.016	83.030	0.001	13.567	0.004	1
-0.001	2000	9.308	84.007	15.423	84.005	0.002	15.412	0.011	84.007	-0.000	15.423	-0.000	1
0.002	2200	9.405	84.898	17.294	84.900	-0.002	17.289	0.005	84.900	-0.002	17.297	-0.003	1
0.004	2400	9.505	85.721	19.185	85.725	-0.004	19.186	-0.001	85.723	-0.002	19.188	-0.003	1
0.000	2600	9.604	86.485	21.096	86.491	-0.006	21.101	-0.005	86.487	-0.002	21.098	-0.002	1
-0.005	2800	9.699	87.201	23.027	87.207	-0.006	23.033	-0.006	87.201	-0.000	23.026	0.001	1
-0.003	3000	9.787	87.873	24.975	87.880	-0.007	24.983	-0.008	87.873	0.000	24.973	0.002	1
-0.001	3200	9.787	87.873	24.975	87.880	-0.007	24.983	-0.008	87.873	0.000	24.980	-0.005	1
0.000	3400	9.866	88.507	26.941	88.513	-0.006	26.947	-0.006	88.505	0.002	26.940	0.001	1
0.002	3600	9.936	89.107	28.921	89.113	-0.006	28.925	-0.004	89.105	0.002	28.919	0.002	2
0.002	3800	9.997	89.677	30.914	89.682	-0.005	30.916	-0.002	89.675	0.002	30.912	0.002	2
0.001	4000	10.049	90.219	32.919	90.223	-0.004	32.918	0.001	90.217	0.002	32.918	0.001	2
0.002	4200	10.093	90.736	34.933	90.739	-0.003	34.931	0.002	90.734	0.002	34.933	0.000	2
0.001	4400	10.129	91.229	36.956	91.232	-0.003	36.952	0.004	91.227	0.002	36.955	0.001	2
0.000	4600	10.158	91.701	38.984	91.704	-0.003	38.980	0.004	91.699	0.002	38.985	-0.001	2
-0.001	4800	10.182	92.153	41.018	92.156	-0.003	41.015	0.003	92.151	0.002	41.019	-0.001	
-0.000	5000	10.200	92.587	43.057	92.590	-0.004	43.055	0.002	92.585	0.002	43.057	0.000	
-0.001	5200	10.214	93.003	45.098	93.008	-0.005	45.098	0.000	93.002	0.001	45.098	-0.000	
-0.001	5400	10.224	93.404	47.142	93.409	-0.005	47.144	-0.002	93.402	0.002	47.142	0.000	
-0.001	5600	10.231	93.790	49.187	93.795	-0.005	49.190	-0.003	93.788	0.002	49.187	-0.000	
0.000	5800	10.236	94.162	51.234	94.167	-0.005	51.237	-0.003	94.161	0.001	51.234	-0.000	
0.001	6000	10.239	94.522	53.282	94.526	-0.004	53.282	-0.000	94.520	0.002	53.282	0.000	
	6200	10.240	94.869	55.330	94.872	-0.003	55.325	0.005	94.867	0.002	55.330	0.000	

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LEAD DIIODIDE

(G) I 2PB 1

362

MOL. WT. = 460.990 BLOCK = 3041 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -0.156 KEY = 634

FITS FOR NOTS RMS = 0.002168

2 53 1 82 0 0 0 0 0 0 0 LEAD DIIODIDE (G) 10J 362 634
 +1.3914985E+1+1.8248590E-3-1.5274663E-3+1.9367202E-4 400 6000 11J 362 634
 -1.6174316E-2-4.3569269E+0+1.0266973E+2-1.5599995E-1I2PB (G) 12J 362 634

FITS FOR EST RMS LOW = 0.000488 RMS HIGH = 0.004160

2 53 1 82 0 0 0 0 0 0 0 LEAD DIIODIDE (G) 10I2PB
 -155999+3+375468+5+139116+2-187531-6-137280+5+117957+3 4003000J 36211I2PB
 -155999+3+375501+5+140059+2-140089-4-618496+6+117957+330006000J 36212I2PB

-----NOTS-----										-----EST-----					
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	HC	DH	HC
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	KC/M	KC/M	KC/M
0.367	400	13.832	89.967	1.406	89.971	-0.004	1.406	0.000	89.970	-0.003	1.407	-0.001			
-0.107	600	13.876	95.586	4.178	95.585	0.001	4.175	0.003	95.587	-0.001	4.178	-0.000			
-0.028	800	13.891	99.580	6.955	99.578	0.002	6.952	0.003	99.581	-0.001	6.955	0.000			
0.004	1000	13.898	102.681	9.734	102.679	0.002	9.731	0.003	102.681	0.000	9.734	0.000			
0.015	1200	13.902	105.215	12.514	105.214	0.001	12.511	0.003	105.215	-0.000	12.514	0.000			
0.015	1400	13.904	107.358	15.294	107.357	0.001	15.292	0.002	107.358	-0.000	15.294	-0.000			
0.011	1600	13.906	109.215	18.075	109.214	0.001	18.074	0.001	109.215	-0.000	18.075	-0.000			
0.005	1800	13.907	110.853	20.857	110.852	0.001	20.855	0.002	110.853	-0.000	20.857	0.000			
-0.001	2000	13.908	112.318	23.638	112.318	0.000	23.637	0.001	112.318	-0.000	23.638	-0.000			
-0.005	2200	13.908	113.644	26.420	113.644	0.000	26.419	0.001	113.644	-0.000	26.420	0.000			
-0.006	2400	13.909	114.854	29.201	114.854	-0.000	29.202	-0.001	114.854	-0.000	29.201	-0.000			
-0.005	2600	13.909	115.967	31.983	115.968	-0.001	31.984	-0.001	115.968	-0.001	31.983	-0.000			
-0.000	2800	13.909	116.998	34.765	116.998	-0.000	34.766	-0.001	116.998	-0.000	34.765	0.000			
0.008	3000	13.909	117.958	37.547	117.958	-0.000	37.548	-0.001	117.958	0.000	37.547	0.000			
	3000	13.909	117.958	37.547	117.958	-0.000	37.548	-0.001	117.958	0.000	37.550	-0.003			
	3200	13.910	118.855	40.329	118.856	-0.001	40.330	-0.001	118.855	0.000	40.330	-0.001			
	3400	13.910	119.698	43.111	119.699	-0.001	43.112	-0.001	119.698	0.000	43.110	0.001			
	3600	13.910	120.494	45.893	120.494	-0.000	45.894	-0.001	120.493	0.001	45.892	0.001			
	3800	13.910	121.246	48.675	121.246	-0.000	48.676	-0.001	121.245	0.001	48.673	0.002			
	4000	13.910	121.959	51.457	121.960	-0.001	51.457	-0.000	121.958	0.001	51.456	0.001			
	4200	13.910	122.638	54.239	122.638	-0.000	54.239	-0.000	122.637	0.001	54.238	0.001			
	4400	13.910	123.285	57.021	123.285	-0.000	57.021	-0.000	123.284	0.001	57.020	0.001			
	4600	13.910	123.903	59.803	123.904	-0.001	59.803	0.000	123.903	0.000	59.803	0.000			
	4800	13.910	124.495	62.585	124.496	-0.001	62.585	0.000	124.495	0.000	62.585	-0.000			
	5000	13.910	125.063	65.367	125.063	-0.000	65.367	0.000	125.063	0.000	65.368	-0.001			
	5200	13.910	125.609	68.149	125.609	0.000	68.149	0.000	125.608	0.001	68.150	-0.001			
	5400	13.910	126.134	70.931	126.134	0.000	70.931	0.000	126.133	0.001	70.932	-0.001			
	5600	13.910	126.640	73.713	126.640	0.000	73.713	0.000	126.639	0.001	73.713	-0.000			
	5800	13.911	127.128	76.495	127.128	0.000	76.495	0.000	127.127	0.001	76.495	0.000			
	6000	13.911	127.599	79.277	127.600	-0.001	79.277	-0.000	127.598	0.001	79.276	0.001			

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FITS FOR EST      RMS LOW =      C.000834 RMS HIGH =      0.000834
  40 4 53 0 0 0 0 0 0 0 0 ZIRCONIUM TETRAIODIDE (C) 30I4ZR$
115899+6+840611+5+316026+2-140069-3-246144+6+132756+3 4 001500J 66431I4ZR$
115899+6+840611+5+316026+2-140069-3-246144+6+132756+3 4 001500J 66432I4ZR$

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[illegible]

COPPER (L) CU 1 1265
 MOL. WT. = 63.540 BLOCK = 3049 NO. POINT = 39
 DATA FROM 298 TO 4000 K HFORM (KCAL/(MOLE)) = 2.224 KEY = 636
 FITS FOR NOTS RMS = 0.001329
 1 29 0 0 0 0 0 0 0 0 0 COPFER (L) 20J1265 636
 +7.4995307E+0+1.3289190E-2-9.3070492E-3+1.5919916E-3 400 4000 21J1265 636
 -2.8991699E-3-1.9820213E-2+1.7727569E+1+2.2239999E+0CU (L) 22J1265 636

FITS FOR EST RMS LOW = 0.000320 RMS HIGH = 0.000320
 1 29 0 0 0 0 0 0 0 0 0 COPFER (L) 20CU*
 +222399+4+202640+5+750171+1-458699-6-206400+4+259789+2 4004000J126521CU*
 +222399+4+202640+5+750171+1-458699-6-206400+4+259789+2 4004000J126522CU*

-----NOTS-----													
-----EST-----													
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
04	400	7.500	10.867	0.764	10.869	-0.002	0.764	-0.000	10.871	-0.004	0.766	-0.002	
03	600	7.500	13.908	2.264	13.907	0.001	2.263	0.001	13.909	-0.001	2.265	-0.001	
02	800	7.500	16.066	3.764	16.064	0.002	3.762	0.002	16.066	-0.000	3.764	-0.000	
00	1000	7.500	17.739	5.264	17.738	0.001	5.263	0.001	17.739	-0.000	5.264	0.000	
01	1200	7.500	19.107	6.764	19.106	0.001	6.763	0.001	19.107	0.000	6.764	0.000	
01	1400	7.500	20.263	8.264	20.263	0.000	8.264	0.000	20.263	0.000	8.264	0.000	
00	1600	7.500	21.264	9.764	21.264	-0.000	9.764	-0.000	21.264	-0.000	9.764	0.000	
00	1800	7.500	22.148	11.264	22.148	-0.000	11.265	-0.001	22.148	0.000	11.264	0.000	
01	2000	7.500	22.938	12.764	22.938	-0.000	12.765	-0.001	22.938	0.000	12.764	0.000	
00	2200	7.500	23.653	14.264	23.653	-0.000	14.265	-0.001	23.653	0.000	14.264	0.000	
00	2400	7.500	24.305	15.764	24.306	-0.001	15.765	-0.001	24.305	-0.000	15.764	0.000	
00	2600	7.500	24.906	17.264	24.906	-0.000	17.265	-0.001	24.906	0.000	17.264	0.000	
	2800	7.500	25.461	18.764	25.462	-0.001	18.764	-0.000	25.462	-0.001	18.764	-0.000	
	3000	7.500	25.979	20.264	25.979	-0.000	20.264	0.000	25.979	0.000	20.264	-0.000	
	3200	7.500	26.463	21.764	26.463	-0.000	21.764	0.000	26.463	-0.000	21.764	-0.000	
	3400	7.500	26.918	23.264	26.918	0.000	23.263	0.001	26.918	0.000	23.264	-0.000	
	3600	7.500	27.346	24.764	27.346	-0.000	24.763	0.001	27.346	-0.000	24.764	-0.000	
	3800	7.500	27.752	26.264	27.752	0.000	26.264	0.000	27.752	0.000	26.264	-0.000	
	4000	7.500	28.136	27.764	28.137	-0.001	27.765	-0.001	28.137	-0.001	27.764	0.000	

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 1 40 1
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LEAD OXIDE, RED (C) O 1PB 1 362
MOL. WT.= 223.180 BLOCK= 3059 NO. POINT = 27
DATA FROM 0 TO 2500 K HFORM(KCAL/(MOLE)) = -52.407 KEY = 638
FITS FOR NOIS RMS = 0.001105
1 8 1 82 0 0 0 0 0 0 0 LEAD OXIDE, RED (C) 30J 362 638
+1.1153316E+1+3.2902755E+0+3.2054615E-1-4.8898607E-2 400 2500 31J 362 638
-1.0557556E-1-5.6248489E+1+2.7466613E+1-5.2406997E+10PB(C) 32J 362 638

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PITS FOR EST RMS LOW = 0.001871 RMS HIGH = 0.001871
1 8 1 82 0 0 0 0 0 0 0 LEAD OXIDE, RED (C) 300PB\$
-524069+5+463525+5+106444+2+398193-2-313440+5+505978+2 4002500J 362310PB\$
-524069+5+463525+5+106444+2+398193-2-313440+5+505978+2 4002500J 362320PB\$

[illegible]

LEAD OXIDE, YELLOW (C) 0 1PB 1 362
 MOL. WT.= 223.180 BLOCK= 3062 NO. POINT = 32
 DATA FROM 0 TO 3000 K HFORM(KCAL/(MOLE)) = -52.066 KEY = 639
 FITS FOR NOTS RMS = 0.000784
 1 8 1 82 0 0 0 0 0 0 0 LEAD OXIDE, YELLOW (C) 30J 362 639
 +1.1000560E+1+2.8269309E+0-5.6058872E-2+8.9407190E-3 400 3000 31J 362 639
 -7.5851440E-2-5.5730621E+1+2.8146026E+1-5.2065994E+10PB(C) 32J 362 639

FITS FOR EST RMS LOW = 0.000565 RMS HIGH = 0.000565
 1 8 1 82 0 0 0 0 0 0 0 LEAD OXIDE, YELLOW (C) 300PB\$
 -520659+5+417600+5+110839+2+271084-2-900960+5+485439+2 4003000J 362310PB\$
 -520659+5+417600+5+110839+2+271084-2-900960+5+485439+2 4003000J 362320PB\$

-----NOTS-----								-----EST-----				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
400	11.631	19.433	1.152	19.430	0.003	1.150	0.002	19.439	-0.006	1.155	-0.003	40
600	12.469	24.319	3.568	24.319	0.000	3.567	0.001	24.319	-0.000	3.568	0.000	60
800	13.115	27.997	6.128	27.996	0.001	6.127	0.001	27.995	0.002	6.127	0.001	80
1000	13.706	30.986	8.809	30.986	0.000	8.809	0.000	30.985	0.001	8.809	0.000	100
1200	14.275	33.535	11.607	33.535	-0.000	11.607	0.000	33.535	0.000	11.607	0.000	120
1400	14.833	35.778	14.518	35.778	0.000	14.518	-0.000	35.777	0.001	14.518	0.000	140
1600	15.386	37.794	17.540	37.795	-0.001	17.540	-0.000	37.794	0.000	17.540	0.000	160
1800	15.935	39.638	20.672	39.639	-0.001	20.673	-0.001	39.638	0.000	20.672	-0.000	180
2000	16.483	41.346	23.914	41.346	-0.000	23.915	-0.001	41.345	0.001	23.914	0.000	200
2200	17.029	42.942	27.265	42.943	-0.001	27.266	-0.001	42.942	0.000	27.265	-0.000	220
2400	17.575	44.447	30.726	44.448	-0.001	30.726	0.000	44.447	0.000	30.726	0.000	240
2600	18.119	45.876	34.295	45.876	0.000	34.295	0.000	45.875	0.001	34.295	0.000	260
2800	18.663	47.238	37.973	47.238	-0.000	37.973	0.000	47.238	0.000	37.973	-0.000	280
3000	19.208	48.544	41.760	48.545	-0.001	41.760	-0.000	48.544	0.000	41.760	-0.000	300

LEAD OXIDE

(L) O 1PB 1

362

MOL. WT.= 223.180 BLOCK= 3065 NO. POINT = 29

DATA FROM 298 TO 3000 K RFORM(KCAL/(MOLE)) = -46.712 KEY = 640

PITS FOR NOTS RMS = 0.025526

1 8 1 82 0 0 0 0 0 0 0 LEAD OXIDE (L) 20J 362 640
 +2.0213638E+1-4.4224185E+0+1.5010271E+0-1.7434406E-1 400 3000 21J 362 640
 -1.7903594E+0-5.7672454E+1+3.8797454E+1-4.6711990E+10PB(L) 22J 362 640

PITS FOR EST RMS LOW = 0.041469 RMS HIGH = 0.041469

1 8 1 82 0 0 0 0 0 0 0 LEAD OXIDE (L) 200PB*
 -467119+5+403377+5+164692+2-311940-3-100824+7+530249+2 4003000J 362210PB* ITS
 -467119+5+403377+5+164692+2-311940-3-100824+7+530249+2 4003000J 362220PB* 8 1
 14769
 14769

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
.003	400	11.629	23.866	1.152	24.218	-0.352	1.278	-0.126	23.747	0.119	1.081	0.071
.000	600	12.469	28.752	3.568	28.563	0.189	3.458	0.110	28.612	0.140	3.503	0.065
.001	800	15.535	32.492	6.177	32.598	-0.106	6.272	-0.095	32.675	-0.183	6.334	-0.157
.000	1000	15.535	35.958	9.284	35.963	-0.005	9.289	-0.005	36.004	-0.046	9.319	-0.035
.000	1200	15.535	38.791	12.391	38.778	0.013	12.378	0.013	38.790	0.001	12.376	0.015
.000	1400	15.535	41.185	15.498	41.176	0.009	15.489	0.009	41.173	0.012	15.469	0.029
.000	1600	15.535	43.260	18.605	43.255	0.005	18.603	0.002	43.250	0.010	18.579	0.026
.000	1800	15.535	45.090	21.712	45.087	0.003	21.715	-0.003	45.086	0.004	21.697	0.015
.000	2000	15.535	46.726	24.819	46.725	0.001	24.822	-0.003	46.729	-0.003	24.816	0.003
.000	2200	15.535	48.207	27.926	48.204	0.003	27.928	-0.002	48.215	-0.008	27.933	-0.007
.000	2400	15.535	49.559	31.033	49.555	0.004	31.032	0.001	49.569	-0.010	31.046	-0.013
.000	2600	15.535	50.802	34.140	50.798	0.004	34.138	0.002	50.812	-0.010	34.151	-0.011
.000	2800	15.535	51.953	37.247	51.949	0.003	37.246	0.001	51.959	-0.006	37.249	-0.002
.000	3000	15.535	53.025	40.354	53.022	0.003	40.355	-0.001	53.025	0.000	40.338	0.016

LEAD OXIDE (G) 0 1PB 1 362 I
 MOL. WT. = 223.180 BLOCK = 3068 NO. POINT = 62
 ATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = 11.477 KEY = 641
 ITS FOR NOTS RMS = 0.001764
 8 1 82 0 0 0 0 0 0 0 LEAD OXIDE (G) 10J 362 641
 9148492E+0+9.6017360E-2-4.8774927E-3+4.1424273E-4 400 6000 11J 362 641
 5054321E-1+8.3456211E+0+6.7366485E+1+1.1476999E+10PB(G) 12J 362 641

ITS FOR EST RMS LOW = 0.000840 RMS HIGH = 0.003063
 8 1 82 0 0 0 0 0 0 0 LEAD OXIDE (G) 100PB
 14769+5+240602+5+891905+1+846939-4-148864+6+774379+2 4003000J 362110PB
 14769+5+240617+5+900396+1+678445-4-578384+6+774379+230006000J 362120PB

DH	-----NOTS-----								-----EST-----				T
KC/M	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	K	
0.071	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		
0.065	8.155	59.687	0.812	59.706	-0.019	0.818	-0.006	59.704	-0.017	0.819	-0.007	400	
-0.157	8.560	63.082	2.489	63.078	0.004	2.485	0.004	63.079	0.003	2.487	0.002	500	
-0.035	8.748	65.573	4.222	65.570	0.003	4.219	0.003	65.571	0.002	4.221	0.001	600	
0.015	8.850	67.537	5.983	67.535	0.002	5.980	0.003	67.536	0.001	5.983	0.000	700	
0.029	8.915	69.157	7.760	69.156	0.001	7.758	0.002	69.156	0.001	7.760	-0.000	800	
0.026	8.962	70.535	9.548	70.535	0.000	9.547	0.001	70.535	0.000	9.548	-0.000	900	
0.015	8.997	71.734	11.344	71.734	0.000	11.343	0.001	71.734	0.000	11.344	-0.000	1000	
0.003	9.027	72.796	13.147	72.795	0.001	13.146	0.001	72.795	0.001	13.147	0.000	1100	
-0.007	9.052	73.748	14.954	73.748	0.000	14.954	-0.000	73.747	0.001	14.954	-0.000	1200	
-0.013	9.075	74.612	16.767	74.612	0.000	16.767	-0.000	74.611	0.001	16.767	0.000	1300	
-0.011	9.096	75.402	18.584	75.403	-0.001	18.584	-0.000	75.402	0.000	18.584	-0.000	1400	
-0.002	9.116	76.131	20.406	76.131	-0.000	20.406	0.000	76.130	0.001	20.405	0.001	1500	
0.016	9.135	76.808	22.231	76.808	0.000	22.231	0.000	76.807	0.001	22.231	0.000	1600	
	9.153	77.438	24.060	77.439	-0.001	24.060	0.000	77.438	0.000	24.060	-0.000	1700	
	9.153	77.438	24.060	77.439	-0.001	24.060	0.000	77.438	0.000	24.062	-0.002	1800	
	9.171	78.030	25.892	78.030	0.000	25.892	-0.000	78.029	0.001	25.893	-0.001	1900	
	9.188	78.586	27.728	78.586	-0.000	27.728	-0.000	78.585	0.001	27.727	0.001	2000	
	9.205	79.112	29.567	79.112	-0.000	29.568	-0.001	79.110	0.002	29.566	0.001		
	9.222	79.610	31.410	79.610	-0.000	31.410	-0.000	79.609	0.001	31.409	0.001		
	9.238	80.084	33.256	80.084	0.000	33.256	-0.000	80.082	0.002	33.255	0.001		
	9.255	80.535	35.105	80.535	0.000	35.105	-0.000	80.533	0.002	35.104	0.001		
	9.271	80.966	36.958	80.966	0.000	36.958	0.000	80.964	0.002	36.957	0.001		
	9.287	81.378	38.814	81.378	-0.000	38.814	0.000	81.377	0.001	38.813	0.001		
	9.303	81.774	40.673	81.774	0.000	40.673	0.000	81.772	0.002	40.673	0.000		
	9.319	82.154	42.535	82.154	0.000	42.535	0.000	82.153	0.001	42.535	-0.000		
	9.335	82.520	44.400	82.520	0.000	44.400	-0.000	82.518	0.002	44.401	-0.001		
	9.351	82.872	46.269	82.872	-0.000	46.269	0.000	82.871	0.001	46.269	-0.000		
	9.367	83.213	48.141	83.213	0.000	48.140	0.001	83.211	0.002	48.141	-0.000		
	9.382	83.542	50.016	83.542	0.000	50.016	0.000	83.540	0.002	50.016	0.000		
	9.398	83.860	51.894	83.860	0.000	51.894	-0.000	83.858	0.002	51.893	0.001		

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LEAD ORTHOPLUMBATE

(C)

O 4PB 3

362

MOL. WT. = 685.560

BLOCK = 3077

NO. POINT = 22

DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -175.311 KEY = 643

FITS FOR NOTS RMS = 0.001352

8 3 82 0 0 0 0 0 0 0 LEAD ORTHOPLUMBATE

(C) 30J 362 643

1.2690841E+1+8.1518783E+0-3.2541936E-1+9.0847790E-2 400 2000

31J 362 643

4.7302246E-4-1.8541767E+2+8.7543411E+1-1.7531098E+2+04PB3(C)

32J 362 643

FITS FOR EST RMS LOW = 0.000167 RMS HIGH = 0.000167

8 3 82 0 0 0 0 0 0 0 LEAD ORTHOPLUMBATE

(C) 3004PB3\$

175310+6+123372+6+328047+2+779760-2-198400+4+147195+3 4002000J 3623104PB3\$

175310+6+123372+6+328047+2+779760-2-198400+4+147195+3 4002000J 3623204PB3\$

-----		-----NOTS-----								-----EST-----			
DH		T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M		K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
68	-0.000	400	35.920	60.829	3.618	60.827	0.002	3.617	0.001	60.830	-0.001	3.619	-0.001
89	-0.000	500	36.697	68.927	7.249	68.924	0.003	7.247	0.002	68.927	-0.000	7.249	-0.000
88	0.000	600	37.480	75.687	10.958	75.684	0.003	10.955	0.003	75.687	0.000	10.958	0.000
65	0.000	700	38.260	81.523	14.745	81.521	0.002	14.743	0.002	81.523	0.000	14.745	0.000
20	0.000	800	39.040	86.683	18.610	86.682	0.001	18.609	0.001	86.683	0.000	18.610	0.000
53	0.000	900	39.820	91.326	22.553	91.326	-0.000	22.553	0.000	91.326	0.000	22.553	0.000
64	0.000	1000	40.600	95.562	26.574	95.563	-0.001	26.575	-0.001	95.562	0.000	26.574	0.000
53	0.000	1100	41.380	99.468	30.673	99.470	-0.002	30.674	-0.001	99.468	0.000	30.673	0.000
20	0.000	1200	42.160	103.102	34.850	103.104	-0.002	34.852	-0.002	103.102	0.000	34.850	0.000
65	0.000	1300	42.940	106.508	39.105	106.509	-0.001	39.107	-0.002	106.507	0.001	39.105	0.000
88	0.000	1400	43.720	109.718	43.438	109.720	-0.002	43.439	-0.001	109.718	-0.000	43.438	0.000
89	0.000	1500	44.500	112.761	47.849	112.762	-0.001	47.850	-0.001	112.761	-0.000	47.849	0.000
68	0.000	1600	45.280	115.658	52.338	115.659	-0.001	52.338	0.000	115.658	0.000	52.338	0.000
25	0.000	1700	46.060	118.427	56.905	118.427	0.000	56.904	0.001	118.426	0.001	56.905	0.000
60	0.000	1800	46.840	121.082	61.550	121.081	0.001	61.549	0.001	121.081	0.001	61.550	0.000
73	0.000	1900	47.620	123.635	66.273	123.635	-0.000	66.272	0.001	123.635	0.000	66.273	0.000
64	0.000	2000	48.400	126.097	71.074	126.098	-0.001	71.075	-0.001	126.097	0.000	71.074	0.000

362

(L) 20J 362 646
21J 362 646
22J 362 646

FITS I
1 82 0
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+467469+

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400	4.
600	4.
800	4.
1000	4.
1200	5.
1400	5.
1600	5.
1800	5.
2000	5.
2200	6.
2400	6.
2600	7.
2800	7.
3000	7.
3200	8.
3400	8.
3600	8.
3800	8.
4000	8.
4200	8.
4400	8.
4600	8.
4800	8.
5000	8.
5200	8.
5400	8.
5600	8.
5800	8.
6000	8.

LEAD

(G)

PB 1

362

MOL. WT. = 207.190

BLOCK = 3090

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 46.747 KEY = 647

FITS FOR NOTS RMS = 0.132841

1 82 0 0 0 0 0 0 0 0 0 LEAD

(G) 10J 362 647

-4.0902748E+0+6.7545051E+0-1.1073389E+0+5.2124664E-2 400 6000

11J 362 647

+2.6920623E+0+5.4187835E+1+4.3252410E+1+4.6746994E+1PB (G)

12J 362 647

FITS FOR EST RMS LOW = 0.046225 RMS HIGH = 0.032848

1 82 0 0 0 0 0 0 0 0 0 LEAD

(G) 10PB

+467469+5+156857+5+174306+1+200906-2+946130+6+543109+2 4003000J 36211PB

+467469+5+156884+5+147929+2-961660-3-352344+8+543109+230006000J 36212PB

-----NOTS-----

-----EST-----

	DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
50	0.114	400	4.968	43.350	0.506	41.202	2.148	-0.408	0.914	42.671	0.679	0.224	0.282
80	-0.037	600	4.968	45.365	1.500	45.460	-0.095	1.638	-0.138	45.422	-0.057	1.562	-0.062
29	-0.037	800	4.969	46.794	2.493	47.120	-0.326	2.781	-0.288	46.901	-0.107	2.586	-0.093
19	-0.007	1000	4.978	47.903	3.488	48.125	-0.222	3.680	-0.192	47.957	-0.054	3.533	-0.045
90	0.013	1200	5.017	48.814	4.487	48.910	-0.096	4.542	-0.055	48.822	-0.008	4.481	0.006
60	0.013	1400	5.113	49.594	5.499	49.608	-0.014	5.448	0.051	49.579	0.015	5.465	0.034
37	0.007	1600	5.290	50.287	6.537	50.265	0.022	6.433	0.104	50.270	0.017	6.500	0.037
26	0.001	1800	5.554	50.924	7.620	50.898	0.026	7.509	0.111	50.916	0.008	7.598	0.022
31	-0.003	2000	5.899	51.527	8.764	51.514	0.013	8.679	0.085	51.529	-0.002	8.762	0.002
52	-0.004	2200	6.301	52.108	9.984	52.114	-0.006	9.939	0.045	52.118	-0.010	9.998	-0.014
91	-0.003	2400	6.734	52.674	11.287	52.700	-0.026	11.285	0.002	52.687	-0.013	11.306	-0.019
50	-0.001	2600	7.165	53.230	12.677	53.269	-0.039	12.709	-0.032	53.240	-0.010	12.690	-0.013
28	0.001	2800	7.569	53.776	14.151	53.823	-0.047	14.202	-0.051	53.781	-0.005	14.149	0.002
26	0.003	3000	7.926	54.311	15.702	54.359	-0.048	15.757	-0.055	54.311	0.000	15.686	0.016
		3000	7.926	54.311	15.702	54.359	-0.048	15.757	-0.055	54.311	0.000	15.688	0.014
		3200	8.221	54.832	17.317	54.878	-0.046	17.365	-0.048	54.836	-0.004	17.317	0.000
		3400	8.451	55.338	18.986	55.378	-0.040	19.017	-0.031	55.344	-0.006	18.993	-0.007
		3600	8.616	55.826	20.693	55.860	-0.034	20.705	-0.012	55.833	-0.007	20.703	-0.010
		3800	8.720	56.295	22.428	56.324	-0.029	22.420	0.008	56.301	-0.006	22.435	-0.007
		4000	8.772	56.744	24.178	56.769	-0.025	24.156	0.022	56.749	-0.005	24.179	-0.001
		4200	8.780	57.172	25.934	57.196	-0.024	25.903	0.031	57.176	-0.004	25.930	0.004
		4400	8.753	57.580	27.688	57.604	-0.024	27.657	0.031	57.583	-0.003	27.680	0.008
		4600	8.701	57.968	29.434	57.993	-0.025	29.410	0.024	57.971	-0.003	29.425	0.009
		4800	8.630	58.337	31.167	58.365	-0.028	31.155	0.012	58.340	-0.003	31.161	0.006
		5000	8.549	58.688	32.885	58.718	-0.030	32.888	-0.003	58.692	-0.004	32.883	0.002
		5200	8.462	59.021	34.586	59.054	-0.033	34.602	-0.016	59.026	-0.005	34.590	-0.004
		5400	8.377	59.339	36.270	59.374	-0.035	36.294	-0.024	59.345	-0.006	36.278	-0.008
		5600	8.296	59.642	37.937	59.676	-0.034	37.959	-0.022	59.648	-0.006	37.946	-0.009
		5800	8.223	59.932	39.589	59.963	-0.031	39.592	-0.003	59.937	-0.005	39.591	-0.002
		6000	8.163	60.210	41.227	60.234	-0.024	41.192	0.035	60.212	-0.002	41.213	0.014

LEAD, DIATOMIC (G) PB 2 963
 MOL. WT. = 414.380 BLCCK = 3097 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 79.500 KEY = 648
 PITS FOR NOTS RMS = 0.001711
 82 0 0 0 0 0 0 0 0 0 LEAD, DIATOMIC (G) 10J 963 648
 .9509735E+0+3.8545799E-1-1.3223630E-5+5.3797775E-5 400 6000 11J 963 648
 .6382446E-2+7.6729934E+1+7.7799911E+1+7.9500000E+1PB2(G) 12J 963 648

PITS FOR EST RMS LOW = 0.000665 RMS HIGH = 0.003337
 82 0 0 0 0 0 0 0 0 0 LEAD, DIATOMIC (G) 10PB2
 .95000+5+258266+5+894349+1+388216-3-229600+5+887919+2 4003000J 96311PB2
 .95000+5+258292+5+901636+1+377672-3-498528+6+887919+230006000J 96312PB2

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DH		-----NOTS-----												-----EST-----		T
KC/M	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T			
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K			
0.282	00	8.964	69.830	0.907	69.835	-0.005	0.907	-0.000	69.833	-0.003	0.907	-0.000	400			
0.062	000	9.115	73.496	2.716	73.495	0.001	2.714	0.002	73.497	-0.001	2.716	0.000	500			
0.093	000	9.219	76.133	4.549	76.132	0.001	4.547	0.002	76.133	-0.000	4.549	-0.000	600			
0.045	00	9.309	78.200	6.402	78.199	0.001	6.400	0.002	78.200	-0.000	6.402	-0.000	700			
0.006	000	9.393	79.905	8.273	79.904	0.001	8.271	0.002	79.905	-0.000	8.272	0.001	800			
0.034	000	9.475	81.359	10.159	81.358	0.001	10.158	0.001	81.359	-0.000	10.159	-0.000	900			
0.037	000	9.555	82.629	12.063	82.629	0.000	12.061	0.002	82.630	-0.001	12.062	0.001	1000			
0.022	000	9.635	83.759	13.982	83.759	-0.000	13.981	0.001	83.760	-0.001	13.981	0.001	1100			
0.002	000	9.714	84.779	15.916	84.779	0.000	15.916	-0.000	84.779	-0.000	15.916	-0.000	1200			
0.014	000	9.793	85.708	17.867	85.708	-0.000	17.867	-0.000	85.709	-0.001	17.867	-0.000	1300			
0.019	000	9.871	86.564	19.834	86.564	0.000	19.834	0.000	86.564	-0.000	19.834	0.000	1400			
0.013	000	9.949	87.357	21.816	87.357	-0.000	21.816	0.000	87.357	-0.000	21.816	0.000	1500			
0.002	000	10.027	88.097	23.813	88.097	-0.000	23.814	-0.001	88.097	-0.000	23.813	-0.000	1600			
0.016	000	10.105	88.792	25.827	88.792	0.000	25.827	-0.000	88.792	0.000	25.827	0.000	1700			
0.014	000	10.105	88.792	25.827	88.792	0.000	25.827	-0.000	88.792	0.000	25.829	-0.002	1800			
0.000	000	10.183	89.446	27.855	89.447	-0.001	27.856	-0.001	89.446	-0.000	27.856	-0.001	1900			
0.007	000	10.261	90.066	29.900	90.066	-0.000	29.901	-0.001	90.065	0.001	29.900	0.000	2000			
0.010	000	10.339	90.655	31.960	90.655	0.000	31.961	-0.001	90.654	0.001	31.959	0.001				
0.007	000	10.417	91.216	34.036	91.216	0.000	34.036	-0.000	91.215	0.001	34.035	0.001				
0.001	000	10.495	91.752	36.127	91.752	-0.000	36.127	-0.000	91.751	0.001	36.126	0.001				
0.004	000	10.573	92.266	38.234	92.266	-0.000	38.234	0.000	92.265	0.001	38.233	0.001				
0.008	000	10.651	92.760	40.356	92.760	0.000	40.356	-0.000	92.759	0.001	40.356	0.000				
0.009	000	10.728	93.235	42.494	93.235	0.000	42.494	0.000	93.234	0.001	42.494	0.000				
0.006	000	10.806	93.693	44.647	93.693	-0.000	44.647	-0.000	93.693	0.000	44.648	-0.001				
0.002	000	10.884	94.136	46.816	94.136	0.000	46.816	-0.000	94.135	0.001	46.817	-0.001				
0.004	000	10.962	94.564	49.001	94.564	-0.000	49.001	0.000	94.564	0.000	49.002	-0.001				
0.008	000	11.039	94.979	51.201	94.979	-0.000	51.201	0.000	94.979	0.000	51.202	-0.001				
0.009	000	11.117	95.382	53.417	95.382	-0.000	53.416	0.001	95.382	0.000	53.417	-0.000				
0.002	000	11.195	95.774	55.648	95.774	0.000	55.648	0.000	95.773	0.001	55.648	0.000				
0.014	000	11.273	96.154	57.895	96.155	-0.001	57.895	0.000	96.154	0.000	57.894	0.001				

POTASSIUM TETRACHLOROALUMINATE (C) AL 1CL 4K 1 663
 MOL. WT. = 207.890 BLCK = 3103 NO. POINT = 19
 DATA FROM 298 TO 2000 K HPCRM(KCAL/(MOLE)) = -286.000 KEY = 649
 FITS FOR NOTS RMS = 0.013124
 1 13 4 17 1 19 0 0 0 0 0 POTASSIUM TETRACHLOROALUMINATE (C) 30J 663 649
 +4.1977432E+1+1.8187774E+1-1.3741556E+1+3.2809314E+0 400 2000 31J 663 649
 -1.5939178E+0-3.0400268E+2+8.5641204E+1-2.8600000E+2ALCL4K(C) 32J 663 649

FITS FOR EST RMS LOW = 0.021329 RMS HIGH = 0.021329
 1 13 4 17 1 19 0 0 0 0 0 POTASSIUM TETRACHLOROALUMINATE (C) 30ALCL4KS
 -286000+6+128123+6+511114+2-880874-3-222646+7+152265+3 4002000J 66331ALCL4KS
 -286000+6+128123+6+511114+2-880874-3-222646+7+152265+3 4002000J 66332ALCL4KS

H C/M	-----NOTS-----												-----EST-----			
	T K	CP C/H-K	S C/H-K	H KC/H	SC C/H-K	DS C/H-K	HC KC/H	DH KC/H	SC C/H-K	DS C/H-K	HC KC/H	DH KC/H				
.000	400	39.550	58.294	3.920	58.404	-0.110	3.956	-0.036	58.405	-0.111	3.952	-0.032				
.000	500	41.660	67.346	7.980	67.245	0.101	7.926	0.054	67.217	0.129	7.910	0.070				
.000	600	43.780	75.128	12.252	75.087	0.041	12.231	0.021	75.087	0.041	12.230	0.022				
.000	700	45.600	82.019	16.724	82.035	-0.016	16.740	-0.016	82.058	-0.039	16.754	-0.030				
.001	800	47.000	88.204	21.358	88.232	-0.028	21.382	-0.024	88.262	-0.058	21.402	-0.044				
.000	900	47.800	93.789	26.100	93.803	-0.014	26.113	-0.013	93.829	-0.040	26.129	-0.029				
.001	1000	48.300	98.854	30.908	98.849	0.005	30.902	0.006	98.865	-0.011	30.909	-0.001				
.001	1100	48.407	103.462	35.743	103.449	0.013	35.729	0.014	103.455	0.007	35.725	0.018				
.000	1200	48.500	107.678	40.589	107.669	0.009	40.579	0.010	107.667	0.011	40.566	0.023				
.000	1300	48.580	111.564	45.443	111.561	0.003	45.442	0.001	111.556	0.008	45.424	0.018				
.000	1400	48.647	115.166	50.304	115.169	-0.003	50.310	-0.006	115.165	0.001	50.294	0.010				
.000	1500	48.700	118.525	55.172	118.529	-0.004	55.180	-0.008	118.530	-0.005	55.172	0.000				
.000	1600	48.763	121.670	60.045	121.673	-0.003	60.051	-0.006	121.681	-0.011	60.054	-0.009				
.000	1700	48.825	124.628	64.924	124.627	0.001	64.924	-0.000	124.642	-0.014	64.938	-0.014				
.002	1800	48.885	127.420	69.810	127.416	0.004	69.803	0.007	127.433	-0.013	69.822	-0.012				
.001	1900	48.943	130.065	74.701	130.060	0.005	74.694	0.007	130.073	-0.008	74.705	-0.004				
.000	2000	49.000	132.577	79.599	132.575	-0.002	79.604	-0.005	132.577	0.000	79.586	0.013				
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TRIPOTASSIUM HEXACHLOROALUMINATE (C) AL 1CL 6K 3 963
 MOL. WT.= 357.000 BLOCK= 3105 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -500.000 KEY = 650
 FITS FOR NOTS RMS = 0.002917
 13 6 17 3 19 0 0 0 0 0 TRIPOTASSIUM HEXACHLOROALUMINATE (C) 30J 963 650
 .9424850E+1+3.6937713E+1-1.4648614E+1+2.1680450E+0 400 2000 31J 963 650
 .0637207E-3-5.1622583E+2+1.3955335E+2-5.0000000E+2+2ALCL6K3(C) 32J 963 650

FITS FOR EST RMS LOW = 0.063882 RMS HIGH = 0.063882
 13 6 17 3 19 0 0 0 0 0 TRIPOTASSIUM HEXACHLOROALUMINATE (C) 30ALCL6K3\$
 00000+6+212367+6+703745+2+651578-2-273291+7+259031+3 4002000J 96331ALCL6K3\$
 00000+6+212367+6+703745+2+651578-2-273291+7+259031+3 4002000J 96332ALCL6K3\$

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-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
400	61.940	107.949	6.227	107.944	0.005	6.223	0.004	108.681	-0.732	6.515	-0.288				
500	64.450	122.043	12.548	122.041	0.002	12.545	0.003	121.961	0.082	12.479	0.069				
600	66.800	134.004	19.112	134.000	0.004	19.108	0.004	133.774	0.230	18.964	0.148				
700	68.800	144.453	25.893	144.449	0.004	25.890	0.003	144.267	0.186	25.774	0.118				
800	70.700	153.765	32.868	153.764	0.001	32.867	0.001	153.662	0.103	32.813	0.055				
900	72.390	162.193	40.025	162.190	0.003	40.022	0.003	162.154	0.039	40.024	0.001				
1000	73.800	169.895	47.337	169.894	0.001	47.336	0.001	169.900	-0.005	47.377	-0.040				
1100	75.175	176.995	54.787	176.999	-0.004	54.791	-0.004	177.022	-0.027	54.850	-0.063				
1200	76.400	183.589	62.367	183.595	-0.006	62.373	-0.006	183.616	-0.027	62.430	-0.063				
1300	77.475	189.748	70.062	189.752	-0.004	70.066	-0.004	189.761	-0.013	70.107	-0.045				
1400	78.400	195.524	77.857	195.526	-0.002	77.858	-0.001	195.516	0.008	77.874	-0.017				
1500	79.188	200.961	85.737	200.961	-0.000	85.737	0.000	200.933	0.028	85.726	0.011				
1600	79.900	206.094	93.692	206.095	-0.001	93.692	0.000	206.053	0.041	93.659	0.033				
1700	80.538	210.958	101.715	210.958	-0.001	101.714	0.001	210.910	0.048	101.671	0.044				
1800	81.100	215.577	109.797	215.578	-0.001	109.796	0.001	215.533	0.044	109.760	0.037				
1900	81.588	219.976	117.932	219.976	0.000	117.931	0.001	219.946	0.030	117.923	0.009				
2000	82.000	224.171	126.112	224.173	-0.002	126.113	-0.001	224.171	0.000	126.159	-0.047				

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 6 9
 +3.900
 -1.277
 FITS
 6 9
 -79500
 -79500

TRIPOTASSIUM HEXAFLUORALUMINATE (C) AL 1P 6K 3 1263
 MOL. WT.= 258.270 BLOCK= 3107 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -795.000 KEY = 651
 FITS FOR NOTS RMS = 0.006683
 6 9 1 13 3 19 0 0 0 0 0 TRIPOTASSIUM HEXAFLUORALUMINATE (C) 30J1263 651
 +3.9007156E+1+5.7979580E+1-2.9047729E+1+5.1830558E+0 400 2000 31J1263 651
 -1.2776184E-1-8.0925781E+2+9.8829742E+1-7.9500000E+2ALF6K3 (C) 32J1263 651

FITS FOR EST RMS LOW = 0.076548 RMS HIGH = 0.076548
 6 9 1 13 3 19 0 0 0 0 0 TRIPOTASSIUM HEXAFLUORALUMINATE (C) 30ALF6K3\$
 -795000+6+206412+6+730817+2+436983-2-415638+7+231280+3 4002000J126331ALF6K3\$
 -795000+6+206412+6+730817+2+436983-2-415638+7+231280+3 4002000J126332ALF6K3\$

--		-----NOTS-----								-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.288	400	57.620	84.425	5.704	84.466	-0.041	5.716	-0.012	85.424	-0.999	6.091	-0.387	T
0.069	500	61.020	97.657	11.640	97.623	0.034	11.619	0.021	97.493	0.164	11.517	0.123	K
0.148	600	63.910	109.046	17.891	109.014	0.032	17.872	0.019	108.714	0.332	17.680	0.211	400
0.118	700	66.660	119.105	24.420	119.109	-0.004	24.425	-0.005	118.885	0.220	24.283	0.137	500
0.055	800	69.330	128.182	31.220	128.199	-0.017	31.234	-0.014	128.087	0.095	31.177	0.043	600
0.001	900	71.400	136.472	38.261	136.476	-0.004	38.264	-0.003	136.450	0.022	38.279	-0.018	700
0.040	1000	73.000	144.081	45.484	144.077	0.004	45.480	0.004	144.099	-0.018	45.540	-0.056	800
0.063	1100	74.400	151.106	52.856	151.104	0.002	52.854	0.002	151.141	-0.035	52.930	-0.074	900
0.063	1200	75.600	157.633	60.358	157.633	0.000	60.358	-0.000	157.663	-0.030	60.425	-0.067	1000
0.045	1300	76.600	163.725	67.969	163.726	-0.001	67.971	-0.002	163.736	-0.011	68.013	-0.044	1100
0.017	1400	77.400	169.432	75.671	169.433	-0.001	75.673	-0.002	169.419	0.013	75.683	-0.012	1200
0.011	1500	78.038	174.794	83.444	174.796	-0.002	83.447	-0.003	174.762	0.032	83.427	0.017	1300
0.033	1600	78.600	179.849	91.276	179.852	-0.003	91.280	-0.004	179.804	0.045	91.239	0.037	1400
0.044	1700	79.088	184.629	99.161	184.630	-0.001	99.162	-0.001	184.578	0.051	99.116	0.045	1500
0.037	1800	79.500	189.161	107.091	189.160	0.001	107.087	0.004	189.115	0.046	107.053	0.038	
0.009	1900	79.800	193.468	115.057	193.465	0.003	115.051	0.006	193.438	0.030	115.048	0.009	
0.047	2000	80.000	197.567	123.048	197.569	-0.002	123.052	-0.004	197.567	0.000	123.099	-0.051	

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 -154E

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LITHIUM METABORATE (G) B 1LI 10 2 0 0 0 671

MOL. WT.= 49.740 BLOCK= 3111 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -154.600 KEY = 653

FITS FOR NOTS RMS = 0.012008

1 5 2 8 1 71 0 0 0 0 0 LITHIUM METABORATE (G) 10J 671 653
+1.8819885E+1+6.3052678E-1-1.3555973E-1+9.9149309E-3 400 6000 11J 671 653
-9.5257568E-1-1.6297349E+2+8.4176010E+1-1.5459999E+2BLIO2 (G) 12J 671 653

FITS FOR EST RMS LOW = 0.018746 RMS HIGH = 0.005970

1 5 2 8 1 71 0 0 0 0 0 LITHIUM METABORATE (G) 10BLIO2
-154599+6+502325+5+192105+2+205272-3-102715+7+106278+3 4003000J 67111BLIO2
-154599+6+502284+5+199976+2-186501-4-280729+7+106278+330006000J 67112BLIO2

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DH KC/M	-----NOTS-----												-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M				
0.182	400	15.013	69.852	1.465	70.150	-0.298	1.584	-0.119	70.191	-0.339	1.603	-0.138				
0.096	600	16.668	76.283	4.649	76.240	0.043	4.610	0.039	76.238	0.045	4.610	0.039				
0.137	800	17.657	81.225	8.089	81.183	0.042	8.053	0.036	81.181	0.044	8.053	0.036				
0.069	1000	18.279	85.237	11.687	85.218	0.019	11.672	0.015	85.220	0.017	11.675	0.012				
0.030	1200	18.685	88.608	15.386	88.603	0.005	15.385	0.001	88.607	0.001	15.391	-0.005				
0.087	1400	18.959	91.510	19.153	91.510	-0.000	19.158	-0.005	91.514	-0.004	19.164	-0.011				
0.078	1600	19.151	94.055	22.965	94.056	-0.001	22.972	-0.007	94.059	-0.004	22.976	-0.011				
0.029	1800	19.290	96.320	26.810	96.320	0.000	26.815	-0.005	96.321	-0.001	26.817	-0.007				
0.030	2000	19.393	98.358	30.678	98.356	0.002	30.682	-0.004	98.356	0.002	30.680	-0.002				
0.067	2200	19.471	100.210	34.565	100.207	0.003	34.566	-0.001	100.206	0.004	34.562	0.003				
0.049	2400	19.532	101.907	38.466	101.903	0.004	38.465	0.001	101.901	0.006	38.459	0.007				
0.057	2600	19.580	103.472	42.377	103.468	0.004	42.375	0.002	103.467	0.005	42.371	0.006				
	2800	19.619	104.925	46.297	104.921	0.004	46.294	0.003	104.921	0.004	46.296	0.001				
	3000	19.651	106.279	50.224	106.275	0.004	50.222	0.002	106.279	0.000	50.233	-0.009				
	3000	19.651	106.279	50.224	106.275	0.004	50.222	0.002	106.279	0.000	50.228	-0.004				
	3200	19.677	107.548	54.157	107.545	0.003	54.155	0.002	107.547	0.001	54.158	-0.001				
	3400	19.698	108.742	58.095	108.739	0.003	58.094	0.001	108.740	0.002	58.094	0.001				
	3600	19.717	109.868	62.036	109.865	0.003	62.037	-0.001	109.866	0.002	62.034	0.002				
	3800	19.732	110.935	65.981	110.932	0.003	65.982	-0.001	110.933	0.002	65.979	0.002				
	4000	19.746	111.947	69.929	111.945	0.002	69.931	-0.002	111.945	0.002	69.927	0.002				
	4200	19.757	112.911	73.879	112.909	0.002	73.882	-0.003	112.909	0.002	73.878	0.001				
	4400	19.767	113.830	77.832	113.828	0.002	77.834	-0.002	113.828	0.002	77.831	0.001				
	4600	19.776	114.709	81.786	114.707	0.002	81.788	-0.002	114.707	0.002	81.786	0.000				
	4800	19.784	115.551	85.742	115.548	0.003	85.743	-0.001	115.549	0.002	85.742	-0.000				
	5000	19.790	116.359	89.699	116.356	0.003	89.699	0.000	116.357	0.002	89.700	-0.001				
	5200	19.796	117.135	93.658	117.132	0.003	93.657	0.001	117.133	0.001	93.659	-0.001				
	5400	19.802	117.882	97.618	117.879	0.003	97.616	0.002	117.881	0.001	97.619	-0.001				
	5600	19.807	118.603	101.579	118.599	0.004	101.577	0.002	118.601	0.002	101.579	-0.000				
	5800	19.811	119.298	105.541	119.295	0.003	105.540	0.001	119.296	0.002	105.540	0.001				
	6000	19.815	119.969	109.503	119.967	0.002	109.506	-0.003	119.967	0.002	109.502	0.001				

BROMINE TRIFLUORIDE

(G)

BR 1F 3

965

MOL. WT. = 136.900

BLOCK = 3123

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -61.087 KEY = 655

FITS FOR NOTS RMS = 0.003198

3 9 1 35 0 0 0 0 0 0 0 BROMINE TRIFLUORIDE (G) 10J 965 655
+1.9824874E+1+3.3782415E-2-8.6707472E-3+7.4240937E-4 400 6000 11J 965 655
-4.4262695E-1-6.8414062E+1+9.1568054E+1-6.1086990E+1BRF3(G) 12J 965 655

FITS FOR EST RMS LOW = 0.001786 RMS HIGH = 0.005934

3 9 1 35 0 0 0 0 0 0 0 BROMINE TRIFLUORIDE (G) 10BRF3
-610869+5+523838+5+198371+2+114019-4-442096+6+113440+3 4003000J 96511BRF3
-610869+5+523875+5+200055+2-193740-4-134656+7+113440+330006000J 96512BRF3

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
19 -0.006	400	17.345	74.763	1.700	74.799	-0.036	1.712	-0.012	74.798	-0.035	1.715	-0.015
16 0.002	600	18.627	82.081	5.319	82.075	0.006	5.311	0.008	82.076	0.005	5.315	0.004
15 0.001	800	19.145	87.521	9.103	87.514	0.007	9.096	0.007	87.517	0.004	9.100	0.003
10 0.001	1000	19.398	91.823	12.960	91.819	0.004	12.955	0.005	91.821	0.002	12.959	0.001
33 0.000	1200	19.540	95.373	16.855	95.371	0.002	16.851	0.004	95.373	0.000	16.855	-0.000
37 -0.001	1400	19.627	98.392	20.772	98.391	0.001	20.770	0.002	98.392	-0.000	20.773	-0.001
50 0.000	1600	19.684	101.017	24.704	101.016	0.001	24.702	0.002	101.017	-0.000	24.704	-0.000
71 0.000	1800	19.723	103.338	28.644	103.337	0.001	28.643	0.001	103.338	0.000	28.645	-0.001
99 -0.000	2000	19.751	105.417	32.592	105.417	-0.000	32.591	0.001	105.417	-0.000	32.592	0.000
34 0.001	2200	19.772	107.301	36.544	107.301	0.000	36.544	-0.000	107.300	0.001	36.544	-0.000
76 0.000	2400	19.788	109.022	40.500	109.022	-0.000	40.501	-0.001	109.021	0.001	40.500	0.000
23 -0.000	2600	19.800	110.606	44.459	110.607	-0.001	44.460	-0.001	110.606	0.000	44.459	0.000
77 0.000	2800	19.810	112.074	48.420	112.074	-0.000	48.421	-0.001	112.074	0.000	48.420	-0.000
36 0.000	3000	19.818	113.441	52.383	113.441	-0.000	52.384	-0.001	113.441	0.000	52.384	-0.001
38 -0.002	3000	19.818	113.441	52.383	113.441	-0.000	52.384	-0.001	113.441	0.000	52.388	-0.005
01 -0.001	3200	19.825	114.721	56.348	114.721	0.000	56.349	-0.001	114.719	0.002	56.349	-0.001
70 0.000	3400	19.830	115.923	60.313	115.923	0.000	60.314	-0.001	115.921	0.002	60.312	0.001
44 0.001	3600	19.835	117.056	64.280	117.056	-0.000	64.281	-0.001	117.054	0.002	64.278	0.002
25 0.001	3800	19.839	118.129	68.247	118.129	0.000	68.248	-0.001	118.126	0.003	68.245	0.002
11 0.001	4000	19.842	119.146	72.215	119.147	-0.001	72.216	-0.001	119.144	0.002	72.213	0.002
03 0.001	4200	19.845	120.115	76.184	120.115	0.000	76.184	-0.000	120.112	0.003	76.182	0.002
00 0.000	4400	19.847	121.038	80.153	121.038	0.000	80.153	-0.000	121.036	0.002	80.152	0.001
02 -0.000	4600	19.849	121.920	84.123	121.920	-0.000	84.123	0.000	121.918	0.002	84.122	0.001
09 -0.001	4800	19.851	122.765	88.093	122.765	0.000	88.093	0.000	122.763	0.002	88.093	-0.000
22 -0.000	5000	19.853	123.575	92.063	123.575	-0.000	92.063	0.000	123.574	0.001	92.064	-0.001
40 -0.001	5200	19.854	124.354	96.034	124.354	0.000	96.033	0.001	124.352	0.002	96.035	-0.001
62 -0.000	5400	19.856	125.103	100.005	125.103	-0.000	100.004	0.001	125.102	0.001	100.006	-0.001
90 -0.000	5600	19.857	125.825	103.976	125.825	-0.000	103.976	0.000	125.824	0.001	103.977	-0.001
23 0.000	5800	19.858	126.522	107.948	126.522	-0.000	107.948	0.000	126.520	0.002	107.948	0.000
161 0.000	6000	19.859	127.195	111.920	127.196	-0.001	111.920	-0.000	127.194	0.001	111.918	0.002

LEAD TETRABROMIDE (G) BR 4PB 1 662
 MOL. WT.= 526.820 BLOCK= 3129 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -44.000 KEY = 656
 FITS FOR NOTS RMS = 0.004005
 35 1 82 0 0 0 0 0 0 0 LEAD TETRABROMIDE (G) 10J 662 656
 2.5849914E+1-3.0757035E-3-1.1592758E-3+2.2595067E-4 400 6000 11J 662 656
 4.6181640E-2-5.1985717E+1+1.3258532E+2-4.4000000E+1BR4PB(G) 12J 662 656

FITS FOR EST RMS LOW = 0.000683 RMS HIGH = 0.007925
 35 1 82 0 0 0 0 0 0 0 LEAD TETRABROMIDE (G) 10BR4PB
 40000+5+695711+5+258381+2-127521-5-798560+5+160975+3 4003000J 66211BR4PB
 40000+5+695768+5+260099+2-256191-4-120550+7+160975+330006000J 66212BR4PB

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DH KC/M	-----NOTS-----												T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
0.015	400	25.365	109.156	2.568	109.167	-0.011	2.569	-0.001	109.163	-0.007	2.571	-0.003	400
0.004	600	25.622	119.500	7.671	119.498	0.002	7.667	0.004	119.501	-0.001	7.672	-0.001	500
0.003	800	25.714	126.885	12.806	126.882	0.003	12.801	0.005	126.885	-0.000	12.806	0.000	600
0.001	1000	25.757	132.628	17.954	132.625	0.003	17.948	0.006	132.628	0.000	17.953	0.001	700
-0.000	1200	25.781	137.327	23.108	137.324	0.003	23.103	0.005	137.326	0.001	23.107	0.001	800
-0.001	1400	25.795	141.302	28.266	141.300	0.002	28.262	0.004	141.302	0.000	28.265	0.001	900
-0.000	1600	25.804	144.747	33.426	144.746	0.001	33.423	0.003	144.747	0.000	33.425	0.001	1000
-0.001	1800	25.811	147.787	38.587	147.786	0.001	38.585	0.002	147.787	0.000	38.587	0.000	1100
0.000	2000	25.815	150.506	43.750	150.506	0.000	43.749	0.001	150.506	-0.000	43.750	0.000	1200
-0.000	2200	25.818	152.967	48.913	152.967	0.000	48.913	0.000	152.967	0.000	48.913	-0.000	1300
0.000	2400	25.821	155.214	54.077	155.214	0.000	54.078	-0.001	155.214	0.000	54.077	-0.000	1400
-0.000	2600	25.823	157.280	59.242	157.281	-0.001	59.243	-0.001	157.281	-0.001	59.241	0.001	1500
-0.001	2800	25.825	159.194	64.406	159.195	-0.001	64.408	-0.002	159.194	-0.000	64.406	-0.000	1600
-0.005	3000	25.826	160.976	69.571	160.977	-0.001	69.573	-0.002	160.976	0.000	69.571	-0.000	1700
-0.001	3200	25.826	160.976	69.571	160.977	-0.001	69.573	-0.002	160.976	0.000	69.577	-0.006	1800
0.001	3400	25.827	162.643	74.737	162.644	-0.001	74.738	-0.001	162.641	0.002	74.738	-0.001	1900
0.002	3600	25.828	164.209	79.902	164.209	-0.000	79.904	-0.002	164.206	0.003	79.901	0.001	2000
0.002	3800	25.829	165.685	85.068	165.686	-0.001	85.069	-0.001	165.682	0.003	85.065	0.003	
0.002	4000	25.829	167.081	90.234	167.082	-0.001	90.235	-0.001	167.079	0.002	90.230	0.003	
0.002	4200	25.830	168.406	95.400	168.407	-0.001	95.401	-0.001	168.404	0.002	95.397	0.003	
0.001	4400	25.830	169.666	100.565	169.667	-0.001	100.566	-0.001	169.664	0.002	100.563	0.002	
0.001	4600	25.831	170.868	105.732	170.868	-0.001	105.732	0.000	170.866	0.002	105.730	0.002	
-0.000	4800	25.831	172.016	110.898	172.017	-0.001	110.898	0.000	172.014	0.002	110.897	0.001	
-0.001	5000	25.831	173.116	116.064	173.116	0.000	116.064	0.000	173.114	0.002	116.064	-0.000	
-0.001	5200	25.831	174.170	121.230	174.170	-0.000	121.230	0.000	174.168	0.002	121.231	-0.001	
-0.001	5400	25.832	175.183	126.397	175.183	-0.000	126.396	0.001	175.182	0.001	126.398	-0.001	
-0.001	5600	25.832	176.158	131.563	176.158	-0.000	131.562	0.001	176.156	0.002	131.564	-0.001	
0.000	5800	25.832	177.098	136.729	177.098	0.000	136.729	0.000	177.096	0.002	136.730	-0.001	
0.002	6000	25.832	178.004	141.896	178.004	-0.000	141.895	0.001	178.002	0.002	141.895	0.001	
	6200	25.832	178.880	147.062	178.880	-0.000	147.062	-0.000	178.878	0.002	147.060	0.002	

POTASSIUM CYANIDE

(C)

C 1K 1N 1 0 0 0

366

MOL. WT. = 65.120

BLOCK = 3136

NO. POINT = 22

DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -27.120 KEY = 657

FITS FOR NOTS RMS = 0.000621

1 6 1 7 1 19 0 0 0 0 0 POTASSIUM CYANIDE (C) 30J 366 657
 +1.5672295E+1+4.1838788E-1-2.5231540E-1+6.3404202E-2 400 2000 31J 366 657
 +7.9345703E-3-3.1784027E+1+4.9433914E+1-2.7119995E+1CKN(C) 32J 366 657

FITS FOR EST RMS LOW = 0.000329 RMS HIGH = 0.000329

1 6 1 7 1 19 0 0 0 0 0 POTASSIUM CYANIDE (C) 30CKNS
 -271199+5+431385+5+158162+2+914794-4-124800+4+673013+2 4002000J 36631CKNS
 -271199+5+431385+5+158162+2+914794-4-124800+4+673013+2 4002000J 36632CKNS

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.003	400	15.850	35.198	1.614	35.197	0.001	1.614	0.000	35.199	-0.001	1.615	-0.001
-0.001	500	15.859	38.736	3.200	38.735	0.001	3.199	0.001	38.736	-0.000	3.200	0.000
0.000	600	15.868	41.628	4.786	41.627	0.001	4.785	0.001	41.628	-0.000	4.786	-0.000
0.001	700	15.878	44.075	6.373	44.074	0.001	6.373	0.000	44.075	0.000	6.373	-0.000
0.001	800	15.887	46.196	7.962	46.195	0.001	7.961	0.001	46.196	0.000	7.962	0.000
0.001	900	15.897	48.068	9.551	48.068	0.000	9.551	0.000	48.068	0.000	9.551	0.000
0.001	1000	15.906	49.743	11.141	49.743	-0.000	11.141	-0.000	49.743	0.000	11.141	0.000
0.000	1100	15.915	51.259	12.732	51.260	-0.001	12.733	-0.001	51.259	-0.000	12.732	-0.000
0.000	1200	15.925	52.645	14.324	52.645	-0.000	14.325	-0.001	52.645	0.000	14.324	-0.000
-0.000	1300	15.934	53.920	15.917	53.921	-0.001	15.918	-0.001	53.920	0.000	15.917	-0.000
-0.000	1400	15.944	55.101	17.511	55.102	-0.001	17.512	-0.001	55.101	0.000	17.511	-0.000
0.001	1500	15.953	56.201	19.106	56.202	-0.001	19.106	-0.000	56.201	-0.000	19.106	0.000
-0.000	1600	15.962	57.231	20.702	57.231	-0.000	20.702	0.000	57.231	-0.000	20.702	0.000
-0.000	1700	15.972	58.199	22.298	58.199	-0.000	22.298	0.000	58.199	-0.000	22.298	-0.000
-0.006	1800	15.981	59.112	23.896	59.112	-0.000	23.895	0.001	59.112	-0.000	23.896	0.000
-0.001	1900	15.991	59.977	25.494	59.977	0.000	25.494	0.000	59.977	0.000	25.494	-0.000
0.001	2000	16.000	60.797	27.094	60.797	-0.000	27.094	-0.000	60.797	0.000	27.094	0.000
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POTASSIUM CYANIDE (L) C 1K 1N 1 0 0 0 366
 MOL. WT.= 65.120 BLOCK= 3138 NO. POINT = 29
 DATA FROM 298 TO 3000 K HFORM(KCAL/(MOLE)) = -24.891 KEY = 658
 FITS FOR NOTS RMS = 0.000814

1 6 1 7 1 19 0 0 0 0 0 POTASSIUM CYANIDE (L) 20J 366 658
 1.7961425E+1+6.9609761E-2-3.9840001E-2+7.1194618E-3 400 3000 21J 366 658
 3.6163330E-3-3.0239807E+1+5.3836105E+1-2.4890991E+1CKN(L) 22J 366 658

FITS FOR EST RMS LOW = 0.000269 RMS HIGH = 0.000269
 1 6 1 7 1 19 0 0 0 0 0 POTASSIUM CYANIDE (L) 20CKN*
 -248909+5+486329+5+180029+2-105017-5-212800+4+736619+2 4003000J 36621CKN*
 -248909+5+486329+5+180029+2-105017-5-212800+4+736619+2 4003000J 36622CKN*

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DH

KC/M

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-----NOTS-----

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T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	18.000	37.394	1.833	37.392	0.002	1.831	0.002	37.397	-0.003	1.834	-0.001	40
600	18.000	44.692	5.433	44.691	0.001	5.432	0.001	44.693	-0.001	5.433	-0.000	60
800	18.000	49.870	9.033	49.869	0.001	9.032	0.001	49.870	-0.000	9.033	0.000	80
1000	18.000	53.887	12.633	53.886	0.001	12.632	0.001	53.887	0.000	12.633	0.000	100
1200	18.000	57.169	16.233	57.169	0.000	16.233	0.000	57.169	0.000	16.233	0.000	120
1400	18.000	59.943	19.833	59.944	-0.001	19.833	-0.000	59.943	-0.000	19.833	0.000	140
1600	18.000	62.347	23.433	62.347	-0.000	23.434	-0.001	62.347	0.000	23.433	0.000	160
1800	18.000	64.467	27.033	64.468	-0.001	27.034	-0.001	64.467	-0.000	27.033	0.000	180
2000	18.000	66.364	30.633	66.364	-0.000	30.634	-0.001	66.364	0.000	30.633	0.000	200
2200	18.000	68.079	34.233	68.080	-0.001	34.233	-0.000	68.079	-0.000	34.233	0.000	220
2400	18.000	69.645	37.833	69.646	-0.001	37.833	-0.000	69.645	-0.000	37.833	-0.000	240
2600	18.000	71.086	41.433	71.086	-0.000	41.433	0.000	71.086	-0.000	41.433	0.000	260
2800	18.000	72.420	45.033	72.420	-0.000	45.033	0.000	72.420	-0.000	45.033	0.000	280
3000	18.000	73.662	48.633	73.662	-0.000	48.633	-0.000	73.662	0.000	48.633	0.000	300

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POTASSIUM CYANIDE

(G)

C 1K 1N 1 0 0 0

366

MOL. WT.= 65.120 BLOCK= 3141 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 19.000 KEY = 659

FITS FOR NOTS RMS = 0.010728

1 6 1 7 1 19 0 0 0 0 0 POTASSIUM CYANIDE (G) 10J 366 659
+1.3830576E+1+6.3200640E-1-1.3415545E-1+9.7212567E-3 400 6000 11J 366 659
-4.7392272E-1+1.3591033E+1+7.5296997E+1+1.9000000E+1CKN(G) 12J 366 659

POTA
MOL
DATA
FITS
6 2
.9654
.4018

FITS FOR EST RMS LOW = 0.016819 RMS HIGH = 0.004604

1 6 1 7 1 19 0 0 0 0 0 POTASSIUM CYANIDE (G) 10CKN
+190000+5+380850+5+142214+2+209097-3-549104+6+919009+2 4003000J 36611CKN
+190000+5+380800+5+149979+2-140231-4-221081+7+919009+230006000J 36612CKN

FITS
6 2
200000
200000

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
01	400	12.520	64.104	1.258	64.347	-0.243	1.356	-0.098	64.388	-0.284	1.375	-0.117
00	600	13.015	69.277	3.813	69.246	0.031	3.784	0.029	69.243	0.034	3.782	0.031
00	800	13.443	73.082	6.460	73.045	0.037	6.428	0.032	73.042	0.040	6.427	0.033
00	1000	13.782	76.120	9.184	76.102	0.018	9.169	0.015	76.103	0.017	9.172	0.012
00	1200	14.034	78.656	11.967	78.651	0.005	11.965	0.002	78.654	0.002	11.971	-0.004
00	1400	14.218	80.834	14.793	80.834	0.000	14.798	-0.005	80.837	-0.003	14.804	-0.011
00	1600	14.352	82.742	17.651	82.743	-0.001	17.658	-0.007	82.745	-0.003	17.662	-0.011
00	1800	14.453	84.438	20.532	84.439	-0.001	20.538	-0.006	84.440	-0.002	20.539	-0.007
00	2000	14.529	85.965	23.431	85.964	0.001	23.434	-0.003	85.964	0.001	23.432	-0.001
00	2200	14.589	87.353	26.343	87.351	0.002	26.344	-0.001	87.349	0.004	26.340	0.003
00	2400	14.635	88.624	29.265	88.622	0.002	29.264	0.001	88.619	0.005	29.259	0.006
00	2600	14.672	89.797	32.196	89.794	0.003	32.194	0.002	89.792	0.005	32.190	0.006
00	2800	14.702	90.886	35.134	90.882	0.004	35.131	0.003	90.882	0.004	35.133	0.001
00	3000	14.727	91.901	38.077	91.898	0.003	38.074	0.003	91.901	0.000	38.085	-0.008
00	3000	14.727	91.901	38.077	91.898	0.003	38.074	0.003	91.901	0.000	38.080	-0.003
00	3200	14.747	92.852	41.024	92.849	0.003	41.022	0.002	92.851	0.001	41.025	-0.001
00	3400	14.765	93.747	43.975	93.744	0.003	43.975	0.000	93.745	0.002	43.975	0.000
00	3600	14.779	94.591	46.930	94.588	0.003	46.930	0.000	94.589	0.002	46.928	0.002
00	3800	14.791	95.390	49.887	95.388	0.002	49.888	-0.001	95.389	0.001	49.885	0.002
00	4000	14.802	96.149	52.846	96.147	0.002	52.848	-0.002	96.148	0.001	52.845	0.001
00	4200	14.811	96.872	55.808	96.870	0.002	55.810	-0.002	96.870	0.002	55.806	0.002
00	4400	14.819	97.561	58.771	97.559	0.002	58.773	-0.002	97.560	0.001	58.770	0.001
00	4600	14.826	98.220	61.735	98.218	0.002	61.737	-0.002	98.219	0.001	61.735	-0.000
00	4800	14.833	98.851	64.701	98.849	0.002	64.702	-0.001	98.850	0.001	64.702	-0.001
00	5000	14.838	99.457	67.668	99.454	0.003	67.668	0.000	99.456	0.001	67.669	-0.001
00	5200	14.843	100.039	70.637	100.036	0.003	70.635	0.002	100.038	0.001	70.637	-0.000
00	5400	14.847	100.599	73.606	100.596	0.003	73.603	0.003	100.598	0.001	73.606	-0.000
00	5600	14.851	101.139	76.575	101.136	0.003	76.574	0.001	101.138	0.001	76.576	-0.001
00	5800	14.855	101.660	79.546	101.658	0.002	79.546	0.000	101.659	0.001	79.546	0.000
00	6000	14.858	102.164	82.517	102.162	0.002	82.520	-0.003	102.163	0.001	82.516	0.001

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POTASSIUM CYANIDE, DIMERIC (G) C 2K 2N 2 0 0 0 366
 MOL. WT. = 130.240 BLOCK = 3147 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -2.000 KEY = 660
 FITS FOR NOTS RMS = 0.021254
 6 2 7 2 19 0 0 0 0 0 POTASSIUM CYANIDE, DIMERIC (G) 10J 366 660
 .9654037E+1+1.2615976E+0-2.6798558E-1+1.9426375E-2 400 6000 11J 366 660
 .4018554E-1-1.3384262E+1+1.2125015E+2-2.0000000E+0C2K2N2 (G) 12J 366 660

FITS FOR EST RMS LOW = 0.033789 RMS HIGH = 0.009596
 6 2 7 2 19 0 0 0 0 0 POTASSIUM CYANIDE, DIMERIC (G) 10C2K2N2
 200000+4+815703+5+304392+2+414707-3-109128+7+156640+3 4003000J 36611C2K2N2
 200000+4+815616+5+320000+2-306577-4-450969+7+156640+330006000J 36612C2K2N2

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DH KC/M	-----NOTS-----												T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
0.117	400	27.081	97.009	2.725	97.500	-0.491	2.923	-0.198	97.580	-0.571	2.960	-0.235	400
0.031	600	28.050	108.179	8.241	108.118	0.061	8.184	0.057	108.111	0.068	8.180	0.061	500
0.033	800	28.893	116.367	13.937	116.294	0.073	13.874	0.063	116.287	0.080	13.871	0.066	600
0.012	1000	29.565	122.890	19.786	122.854	0.036	19.756	0.030	122.856	0.034	19.761	0.025	700
0.004	1200	30.064	128.327	25.752	128.315	0.012	25.748	0.004	128.322	0.005	25.758	-0.006	800
0.011	1400	30.429	132.990	31.803	132.989	0.001	31.813	-0.010	132.996	-0.006	31.824	-0.021	900
0.011	1600	30.697	137.072	37.917	137.073	-0.001	37.931	-0.014	137.079	-0.007	37.938	-0.021	1000
0.007	1800	30.897	140.699	44.077	140.700	-0.001	44.089	-0.012	140.702	-0.003	44.092	-0.015	1100
0.001	2000	31.050	143.963	50.273	143.961	0.002	50.280	-0.007	143.960	0.003	50.276	-0.003	1200
0.003	2200	31.167	146.928	56.495	146.924	0.004	56.498	-0.003	146.920	0.008	56.489	0.006	1300
0.006	2400	31.260	149.644	62.738	149.638	0.006	62.737	0.001	149.634	0.010	62.726	0.012	1400
0.006	2600	31.334	152.149	68.998	152.143	0.006	68.994	0.004	152.139	0.010	68.986	0.012	1500
0.001	2800	31.394	154.474	75.271	154.467	0.007	75.266	0.005	154.467	0.007	75.268	0.003	1600
-0.008	3000	31.443	156.641	81.554	156.634	0.007	81.550	0.004	156.641	0.000	81.570	-0.016	1700
-0.003	3200	31.443	156.641	81.554	156.634	0.007	81.550	0.004	156.641	0.000	81.562	-0.008	1800
-0.001	3400	31.483	158.672	87.847	158.665	0.007	87.844	0.003	158.670	0.002	87.849	-0.002	1900
0.000	3600	31.518	160.582	94.147	160.576	0.006	94.146	0.001	160.578	0.004	94.146	0.001	2000
0.002	3800	31.547	162.384	100.454	162.379	0.005	100.455	-0.001	162.380	0.004	100.450	0.004	
0.002	4000	31.571	164.090	106.766	164.085	0.005	106.768	-0.002	164.087	0.003	106.762	0.004	
0.001	4200	31.592	165.710	113.082	165.706	0.004	113.086	-0.004	165.707	0.003	113.079	0.003	
0.001	4400	31.611	167.252	119.402	167.248	0.004	119.407	-0.005	167.249	0.003	119.400	0.002	
-0.000	4600	31.627	168.723	125.726	168.718	0.005	125.730	-0.004	168.720	0.003	125.725	0.001	
-0.001	4800	31.641	170.129	132.053	170.124	0.005	132.056	-0.003	170.126	0.003	132.052	0.001	
-0.001	5000	31.653	171.476	138.382	171.471	0.005	138.384	-0.002	171.473	0.003	138.383	-0.001	
-0.000	5200	31.664	172.768	144.714	172.763	0.005	144.713	0.001	172.766	0.002	144.715	-0.001	
-0.000	5400	31.674	174.010	151.048	174.005	0.005	151.045	0.003	174.008	0.002	151.049	-0.001	
-0.001	5600	31.682	175.206	157.383	175.200	0.006	157.379	0.004	175.203	0.003	157.385	-0.002	
0.000	5800	31.690	176.358	163.720	176.352	0.006	163.717	0.003	176.356	0.002	163.721	-0.001	
0.001	6000	31.697	177.470	170.059	177.465	0.005	170.058	0.001	177.467	0.003	170.058	0.001	
0.001	6200	31.703	178.545	176.399	178.541	0.004	176.405	-0.006	178.542	0.003	176.396	0.003	

671

NO. POINT = 22

KEY = 661

0.079400

32J 671 661

0.148532

(C) 30 F2HK\$

67131F2BK\$

67132F2HK\$

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POTASSIUM BIFLUORIDE (L) F 2H 1K 1 0 0 0 671 T
 MOL. WT.= 78.100 BLOCK= 3156 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -219.066 KEY = 662
 FITS FOR NOTS RMS = 0.000845
 1 2 9 1 19 0 0 0 0 0 POTASSIUM BIFLUORIDE (L) 20J 671 662
 2.4933990E+1+2.1741271E-1-2.0263302E-1+5.6779891E-2 400 2000 21J 671 662
 7.4768066E-4-2.2661155E+2+6.1516799E+1-2.1906599E+2F2HK (L) 22J 671 662

FITS FOR EST RMS LOW = 0.000110 RMS HIGH = 0.000110
 1 1 2 9 1 19 0 0 0 0 0 POTASSIUM BIFLUORIDE (L) 20F2HK*
 219065+6+674428+5+250028+2-147746-5-115200+4+891162+2 4002000J 67121F2HK*
 219065+6+674428+5+250028+2-147746-5-115200+4+891162+2 4002000J 67122F2HK*

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DH
 KC/M
 0.939
 0.751
 0.313
 0.077
 0.042
 0.091
 0.099
 0.082
 0.054
 0.022
 0.007
 0.030
 0.043
 0.044
 0.030
 0.000
 0.047

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	25.000	38.744	2.444	38.744	-0.000	2.443	0.001	38.745	-0.001	2.444	-0.000	400
500	25.000	44.323	4.944	44.321	0.002	4.943	0.001	44.323	0.000	4.944	-0.000	600
600	25.000	48.881	7.444	48.879	0.002	7.442	0.002	48.881	0.000	7.444	0.000	800
700	25.000	52.735	9.944	52.733	0.002	9.943	0.001	52.734	0.001	9.944	0.000	1000
800	25.000	56.073	12.444	56.072	0.001	12.443	0.001	56.073	0.000	12.444	0.000	1200
900	25.000	59.018	14.944	59.018	0.000	14.944	0.000	59.017	0.001	14.944	0.000	1400
1000	25.000	61.652	17.444	61.652	-0.000	17.445	-0.001	61.651	0.001	17.444	0.000	1600
1100	25.000	64.034	19.944	64.035	-0.001	19.945	-0.001	64.034	0.000	19.944	0.000	1800
1200	25.000	66.210	22.444	66.211	-0.001	22.445	-0.001	66.209	0.001	22.444	0.000	2000
1300	25.000	68.211	24.944	68.212	-0.001	24.945	-0.001	68.210	0.001	24.944	0.000	2200
1400	25.000	70.063	27.444	70.064	-0.001	27.445	-0.001	70.063	-0.000	27.444	0.000	2400
1500	25.000	71.788	29.944	71.789	-0.001	29.944	-0.000	71.788	0.000	29.944	0.000	2600
1600	25.000	73.402	32.444	73.402	-0.000	32.444	0.000	73.401	0.001	32.444	0.000	2800
1700	25.000	74.917	34.944	74.917	-0.000	34.943	0.001	74.917	0.000	34.944	0.000	3000
1800	25.000	76.346	37.444	76.346	-0.000	37.443	0.001	76.346	0.000	37.444	0.000	3000
1900	25.000	77.698	39.944	77.698	0.000	39.943	0.000	77.698	0.000	39.944	0.000	3200
2000	25.000	78.980	42.444	78.981	-0.001	42.444	-0.000	78.980	0.000	42.444	0.000	3400

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TUNGSTEN OXYTETRAFLUORIDE (G) P 40 1W 1 0 0 0 367

MOL. WT.= 275.840 BLOCK= 3160 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -338.400 KEY = 665

FITS FOR NOTS RMS = 0.008082

1 8 4 9 1 74 0 0 0 0 0 TUNGSTEN OXYTETRAFLUORIDE (G) 10J 367 665
+3.1368789E+1+2.6982676E-1-6.1013527E-2+4.6642646E-3 400 6000 11J 367 665
-1.3171386E+0-3.5179760E+2+1.1203613E+2-3.3839990E+2F40W(G) 12J 367 665

FITS FOR EST RMS LOW = 0.010421 RMS HIGH = 0.009679

1 8 4 9 1 74 0 0 0 0 0 TUNGSTEN OXYTETRAFLUORIDE (G) 10F40W
-338399+6+819108+5+315253+2+863020-4-134230+7+147149+3 4003000J 36711F40W
-338399+6+819141+5+320122+2-317932-4-310067+7+147149+330006000J 36712F40W

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
°/K	K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H
.000	400	24.749	87.309	2.385	87.512	-0.203	7.463	-0.078	87.525	-0.216	2.472	-0.087
.000	600	27.919	98.026	7.693	97.993	0.033	7.663	0.030	97.995	0.031	7.667	0.026
.000	800	29.422	106.289	13.444	106.263	0.026	13.420	0.024	106.265	0.024	13.425	0.019
.000	1000	30.212	112.948	19.415	112.936	0.012	19.404	0.011	112.940	0.008	19.410	0.005
.000	1200	30.670	118.500	25.507	118.495	0.005	25.504	0.003	118.500	0.000	25.510	-0.003
.000	1400	30.957	123.251	31.672	123.249	0.002	31.672	-0.000	123.253	-0.002	31.678	-0.006
.000	1600	31.147	127.398	37.884	127.397	0.001	37.885	-0.001	127.400	-0.002	37.889	-0.005
.000	1800	31.280	131.074	44.127	131.073	0.001	44.129	-0.002	131.075	-0.001	44.130	-0.003
.000	2000	31.376	134.375	50.393	134.374	0.001	50.394	-0.001	134.374	0.001	50.394	-0.001
.000	2200	31.447	137.369	56.676	137.368	0.001	56.676	-0.000	137.367	0.002	56.674	0.002
.000	2400	31.502	140.108	62.971	140.106	0.002	62.971	0.000	140.105	0.003	62.968	0.003
.000	2600	31.545	142.631	69.276	142.629	0.002	69.276	0.000	142.629	0.002	69.273	0.003
.000	2800	31.579	144.970	75.588	144.968	0.002	75.588	-0.000	144.969	0.001	75.588	0.000
.000	3000	31.606	147.150	81.907	147.148	0.002	81.907	-0.000	147.150	0.000	81.911	-0.004
.000	3000	31.606	147.150	81.907	147.148	0.002	81.907	-0.000	147.150	0.000	81.914	-0.007
.000	3200	31.629	149.191	88.231	149.189	0.002	88.231	-0.000	149.189	0.002	88.232	-0.001
.000	3400	31.648	151.109	94.558	151.107	0.002	94.560	-0.002	151.106	0.003	94.557	0.001
.000	3600	31.664	152.918	100.890	152.917	0.001	100.891	-0.001	152.915	0.003	100.886	0.004
.000	3800	31.677	154.630	107.224	154.629	0.001	107.226	-0.002	154.627	0.003	107.220	0.004
.000	4000	31.688	156.256	113.560	156.254	0.002	113.562	-0.002	156.252	0.004	113.557	0.003
.000	4200	31.698	157.802	119.899	157.801	0.001	119.901	-0.002	157.799	0.003	119.896	0.003
.000	4400	31.707	159.277	126.239	159.275	0.002	126.241	-0.002	159.274	0.003	126.238	0.001
.000	4600	31.714	160.686	132.582	160.685	0.001	132.582	-0.000	160.684	0.002	132.581	0.001
.000	4800	31.721	162.036	138.925	162.034	0.002	138.925	-0.000	162.034	0.002	138.925	-0.000
.000	5000	31.727	163.331	145.270	163.329	0.002	145.269	0.001	163.329	0.002	145.271	-0.001
.000	5200	31.732	164.576	151.616	164.574	0.002	151.614	0.002	164.573	0.003	151.617	-0.001
.000	5400	31.736	165.773	157.962	165.771	0.002	157.961	0.001	165.771	0.002	157.964	-0.002
.000	5600	31.740	166.927	164.310	166.926	0.001	164.309	0.001	166.925	0.002	164.311	-0.001
.000	5800	31.744	168.041	170.659	168.040	0.001	170.658	0.001	168.039	0.002	170.658	0.001
.000	6000	31.747	169.118	177.008	169.116	0.002	177.010	-0.002	169.115	0.003	177.005	0.003

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5800
6000

MERCURIC OXIDE (C) HG 10 1 662
 MOL. WT.= 216.580 BLOCK= 3179 NO. POINT = 12
 DATA FROM 0 TO 1000 K HPCORR(KCAL/(MOLE)) = -21.699 KEY = 668
 FITS FOR NOTS RMS = 0.000135
 1 8 1 80 0 0 0 0 0 0 MERCURIC OXIDE (C) 30J 662 668
 4.4148035E+0+2.3818893E+1-2.0544021E+1+6.4377822E+0 400 1000 31J 662 668
 4.3856582E-2-2.3637741E+1+1.6322143E+1-2.1698989E+1HGO(C) 32J 662 668

FITS FOR EST RMS LOW = 0.001053 RMS HIGH = 0.001053
 1 8 1 80 0 0 0 0 0 0 MERCURIC OXIDE (C) 30HGO\$
 -216989+5+412875+5+129991+2+161667-2-361749+6+493265+2 4001000J 66231HGO\$
 -216989+5+412875+5+129991+2+161667-2-361749+6+493265+2 4001000J 66232HGO\$

ZIRCON
 MOL.
 DATA FROM
 FITS FOR
 1 40 2 5
 +1.964440
 +1.444244

FITS FOR
 1 40 2 5
 -620000+5
 -620000+5

-----NOTS-----								-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H
400	11.550	20.037	1.126	20.036	0.001	1.126	0.000	20.042	-0.005	1.128	-0.002
500	12.340	22.703	2.323	22.704	-0.001	2.323	0.000	22.697	0.006	2.320	0.003
600	12.935	25.008	3.587	25.007	0.001	3.587	-0.000	25.008	0.000	3.588	-0.001
700	13.400	27.038	4.905	27.038	0.000	4.905	-0.000	27.040	-0.002	4.907	-0.002
800	13.745	28.851	6.263	28.851	-0.000	6.263	-0.000	28.851	0.000	6.263	-0.000
900	14.012	30.486	7.652	30.486	-0.000	7.652	0.000	30.484	0.002	7.650	0.002
1000	14.200	31.973	9.063	31.973	-0.000	9.063	-0.000	31.973	0.000	9.064	-0.001

T	C
K	C/H
400	22.7
500	22.9
600	23.0
700	23.2
800	23.4
900	23.8
1000	23.8
1100	24.0
1200	24.2
1300	24.4
1400	24.6
1500	24.8
1600	24.9
1700	25.1
1800	25.3
1900	25.5
2000	26.4

ZIRCONIUM DIIODIDE

(C) I 2ZR 1

662

MOL. WT.= 345.020 BLOCK= 3180 NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -62.000 KEY = 669

FITS FOR NOTS RMS = 0.005598

1 40 2 53 0 0 0 0 0 0 0 ZIRCONIUM DIIODIDE (C) 30J 662 669
 +1.9644409E+1+7.1100025E+0-3.9955244E+0+1.0059499E+0 400 2000 31J 662 669
 +1.4442443E-1-6.7643692E+1+5.6566116E+1-6.2000000E+1I2ZR(C) 32J 662 669

FITS FOR EST RMS LOW = 0.008980 RMS HIGH = 0.008980

1 40 2 53 0 0 0 0 0 0 0 ZIRCONIUM DIIODIDE (C) 30I2ZR\$
 -620000+5+679234+5+218640+2+195960-2+388320+5+919043+2 4002000J 66231I2ZR\$
 -620000+5+679234+5+218640+2+195960-2+388320+5+919043+2 4002000J 66232I2ZR\$

-----NOTS-----

-----EST-----

M	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
02	400	22.710	42.668	2.346	42.661	0.007	2.343	0.003	42.636	0.032	2.331	0.015
03	500	22.910	47.757	4.627	47.758	-0.001	4.628	-0.001	47.755	0.002	4.625	0.002
01	600	23.090	51.951	6.928	51.950	0.001	6.927	0.001	51.961	-0.010	6.933	-0.005
02	700	23.290	55.525	9.247	55.525	-0.000	9.247	0.000	55.541	-0.016	9.256	-0.009
00	800	23.460	58.647	11.585	58.651	-0.004	11.588	-0.003	58.666	-0.019	11.596	-0.011
02	900	23.810	61.433	13.951	61.432	0.001	13.949	0.002	61.444	-0.011	13.954	-0.003
01	1000	23.860	63.947	16.337	63.941	0.006	16.331	0.006	63.948	-0.001	16.331	0.006
	1100	24.040	66.229	18.731	66.229	0.000	18.731	0.000	66.231	-0.002	18.727	0.004
	1200	24.240	68.329	21.145	68.332	-0.003	21.148	-0.003	68.332	-0.003	21.142	0.003
	1300	24.430	70.277	23.579	70.281	-0.004	23.583	-0.004	70.280	-0.003	23.575	0.004
	1400	24.620	72.095	26.031	72.098	-0.003	26.035	-0.004	72.098	-0.003	26.028	0.003
	1500	24.810	73.800	28.503	73.801	-0.001	28.504	-0.001	73.803	-0.003	28.501	0.002
	1600	24.990	75.467	30.993	75.406	0.001	30.991	0.002	75.412	-0.005	30.993	0.000
	1700	25.190	76.928	33.502	76.926	0.002	33.498	0.004	76.934	-0.006	33.504	-0.002
	1800	25.380	78.373	36.031	78.371	0.002	36.027	0.004	78.380	-0.007	36.034	-0.003
	1900	25.560	79.747	38.572	79.752	-0.005	38.580	-0.008	79.759	-0.012	38.584	-0.012
	2000	26.420	81.077	41.165	81.076	0.001	41.162	0.003	81.077	0.000	41.154	0.011

ZIRCONIUM DIIODIDE (L) I 2ZR 1 662 ZIRCONIUM DIIODIDE

MOL. WT. = 345.020 BLOCK = 3182 NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -55.985 KEY = 670

FITS FOR NOTS RMS = 0.008720

1 40 2 53 0 0 0 0 0 0 0 ZIRCONIUM DIIODIDE (L) 20J 662 670

-9.3034515E+0+4.8566040E+1-1.5552243E+1+3.0178518E+0 400 2000 21J 662 670

+2.7440338E+0-4.6647354E+1+3.3010604E+1-5.5984985E+1I2ZR(L) 22J 662 670

FITS FOR EST RMS LOW = 0.029258 RMS HIGH = 0.029258

1 40 2 53 0 0 0 0 0 0 0 ZIRCONIUM DIIODIDE (L) 20I2ZR*

-559849+5+118421+6+689263+1+217063-1+961568+6+124859+3 4002000J 66221I2ZR*

-559849+5+118421+6+689263+1+217063-1+961568+6+124859+3 4002000J 66222I2ZR*

-----NOTS-----								-----EST-----				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	22.710	51.262	2.346	51.207	0.055	2.329	0.017	51.584	-0.322	2.475	-0.129	400
500	22.910	56.351	4.627	56.436	-0.085	4.668	-0.041	56.374	-0.023	4.622	0.005	600
600	23.090	60.545	6.928	60.509	0.036	6.902	0.026	60.389	0.156	6.825	0.103	800
700	23.290	64.095	9.231	64.060	0.035	9.207	0.024	63.977	0.118	9.155	0.076	1000
800	25.370	67.320	11.648	67.334	-0.014	11.661	-0.013	67.298	0.022	11.643	0.005	1200
900	27.460	70.429	14.290	70.441	-0.012	14.301	-0.011	70.438	-0.009	14.311	-0.021	1400
1000	29.540	73.429	17.140	73.434	-0.005	17.144	-0.004	73.447	-0.018	17.170	-0.030	1600
1100	31.620	76.342	20.198	76.342	-0.000	20.196	0.002	76.358	-0.016	20.225	-0.027	1800
1200	33.700	79.183	23.464	79.181	0.002	23.461	0.003	79.192	-0.009	23.484	-0.020	2000
1300	35.780	81.962	26.938	81.962	-0.000	26.936	0.002	81.964	-0.002	26.948	-0.010	2200
1400	37.870	84.690	30.620	84.692	-0.002	30.621	-0.001	84.685	0.005	30.620	-0.000	2400
1500	39.950	87.374	34.511	87.376	-0.002	34.513	-0.002	87.362	0.012	34.503	0.008	2600
1600	42.030	90.019	38.610	90.021	-0.002	38.612	-0.002	90.004	0.015	38.597	0.013	2800
1700	44.110	92.629	42.917	92.631	-0.002	42.917	-0.000	92.614	0.015	42.903	0.014	3000
1800	46.190	95.209	47.432	95.210	-0.001	47.430	0.002	95.196	0.013	47.422	0.010	3000
1900	48.280	97.763	52.156	97.763	0.000	52.153	0.003	97.755	0.008	52.155	0.001	3200
2000	50.360	100.292	57.088	100.294	-0.002	57.090	-0.002	100.292	0.000	57.103	-0.015	3400

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4800 1
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5800 1
6000 1

ZIRCONIUM DIIODIDE

(G) I 2ZR 1

662

MOL. WT. = 345.020

BLOCK = 3184

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -15.928 KEY = 671

FITS FOR NOTS RMS = 0.002399

1 40 2 53 0 0 0 0 0 0 0 ZIRCONIUM DIIODIDE (G) 10J 662 671
+1.3923055E+1-4.5975595E-3+1.0403199E-4+6.4557301E-5 400 6000 11J 662 671
-2.7099609E-2-2.0165176E+1+9.9096221E+1-1.5927999E+1I2ZR (G) 12J 662 671

FITS FOR EST RMS LOW = 0.000541 RMS HIGH = 0.004425

1 40 2 53 0 0 0 0 0 0 0 ZIRCONIUM DIIODIDE (G) 10I2ZR
-159279+5+375217+5+139129+2-637607-6-228640+5+114380+3 4003000J 66211I2ZR
-159279+5+375248+5+140070+2-140231-4-640256+6+114380+33C006000J 66212I2ZR

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.129	400	13.781	86.416	1.399	86.422	-0.006	1.399	-0.000	86.420	-0.004	1.400	-0.001
0.005	600	13.852	92.020	4.164	92.019	0.001	4.161	0.003	92.021	-0.001	4.164	0.000
0.103	800	13.878	96.009	6.937	96.007	0.002	6.934	0.003	96.009	-0.001	6.937	0.000
0.076	1000	13.890	99.107	9.714	99.105	0.002	9.711	0.003	99.107	-0.001	9.714	0.000
0.005	1200	13.896	101.640	12.493	101.639	0.001	12.490	0.003	101.641	-0.001	12.492	0.001
0.021	1400	13.900	103.783	15.272	103.782	0.001	15.270	0.002	103.783	0.000	15.272	-0.000
0.030	1600	13.903	105.639	18.053	105.638	0.001	18.051	0.002	105.639	-0.000	18.052	0.001
0.027	1800	13.904	107.277	20.833	107.276	0.001	20.832	0.001	107.277	0.000	20.833	-0.000
0.020	2000	13.906	108.742	23.614	108.742	0.000	23.614	0.000	108.742	0.000	23.614	-0.000
0.010	2200	13.906	110.067	26.396	110.067	-0.000	26.395	0.001	110.067	-0.000	26.396	0.000
0.000	2400	13.907	111.277	29.177	111.277	-0.000	29.177	-0.000	111.277	-0.001	29.177	0.000
0.008	2600	13.908	112.390	31.958	112.391	-0.001	31.959	-0.001	112.391	-0.001	31.958	-0.000
0.013	2800	13.908	113.421	34.740	113.421	-0.000	34.741	-0.001	113.421	-0.000	34.740	-0.000
0.014	3000	13.908	114.381	37.522	114.381	-0.000	37.523	-0.001	114.381	0.000	37.522	0.000
0.010	3000	13.908	114.381	37.522	114.381	-0.000	37.523	-0.001	114.381	0.000	37.525	-0.003
0.001	3200	13.909	115.278	40.303	115.279	-0.001	40.304	-0.001	115.278	0.000	40.304	-0.001
0.015	3400	13.909	116.121	43.085	116.122	-0.001	43.086	-0.001	116.121	0.000	43.085	0.000
	3600	13.909	116.916	45.867	116.917	-0.001	45.868	-0.001	116.915	0.001	45.866	0.001
	3800	13.909	117.669	48.649	117.669	0.000	48.650	-0.001	117.667	0.002	48.647	0.002
	4000	13.910	118.382	51.431	118.382	-0.000	51.431	-0.000	118.381	0.001	51.429	0.002
	4200	13.910	119.061	54.213	119.061	0.000	54.213	-0.000	119.060	0.001	54.212	0.001
	4400	13.910	119.708	56.995	119.708	0.000	56.995	0.000	119.707	0.001	56.994	0.001
	4600	13.910	120.326	59.776	120.326	-0.000	59.777	-0.001	120.325	0.001	59.777	-0.001
	4800	13.910	120.918	62.558	120.918	-0.000	62.559	-0.001	120.917	0.001	62.559	-0.001
	5000	13.910	121.486	65.341	121.486	-0.000	65.340	0.001	121.485	0.001	65.341	-0.000
	5200	13.910	122.031	68.123	122.032	-0.001	68.122	0.001	122.031	0.000	68.123	-0.001
	5400	13.910	122.556	70.905	122.557	-0.001	70.904	0.001	122.556	0.000	70.905	-0.000
	5600	13.910	123.062	73.687	123.062	-0.000	73.687	0.000	123.062	0.000	73.687	-0.000
	5800	13.910	123.550	76.469	123.551	-0.001	76.469	0.000	123.550	0.000	76.469	0.000
	6000	13.910	124.022	79.251	124.022	-0.000	79.251	-0.000	124.021	0.001	79.250	0.001

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MOL. W
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+2.6119995

FITS FOR
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[illegible]

LEAD TETRAIODIDE (G) I 4PB 1 662
 MOL. WT. = 714.800 BLOCK = 3199 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = -0.400 KEY = 674
 FITS FOR NOTS RMS = 0.003960
 53 1 82 0 0 0 0 0 0 0 LEAD TETRAIODIDE (G) 10J 662 674
 5849563E+1-2.4119811E-3-1.4398593E-3+2.5822920E-4 400 6000 11J 662 674
 7851562E-2-8.2594203E+0+1.4245936E+2-3.9999997E-114PB (G) 12J 662 674

FITS FOR EST RMS LOW = 0.000618 RMS HIGH = 0.007892
 53 1 82 0 0 0 0 0 0 0 LEAD TETRAIODIDE (G) 10I4PB
 99999+3+696849+5+258376+2-101267-5-415360+5+170848+3 4003000J 66211I4PB
 99999+3+696905+5+260056+2-249662-4-114329+7+170848+330006000J 66212I4PB

DH KC/M	-----NOTS-----								-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
0.164	400	25.596	118.913	2.599	118.922	-0.009	2.600	-0.001	118.919	-0.006	2.602	-0.003
-0.023	600	25.727	129.321	7.734	129.320	0.001	7.730	0.004	129.323	-0.002	7.734	-0.000
-0.053	800	25.774	136.730	12.885	136.726	0.004	12.879	0.006	136.730	-0.000	12.885	0.000
-0.036	1000	25.796	142.484	18.042	142.480	0.004	18.036	0.006	142.484	0.000	18.041	0.001
-0.008	1200	25.808	147.188	23.202	147.185	0.003	23.197	0.005	147.188	-0.000	23.202	0.000
0.013	1400	25.815	151.167	28.365	151.165	0.002	28.361	0.004	151.167	-0.000	28.364	0.001
0.024	1600	25.819	154.614	33.528	154.613	0.001	33.525	0.003	154.614	-0.000	33.528	0.000
0.023	1800	25.823	157.655	38.692	157.655	0.000	38.690	0.002	157.656	-0.001	38.692	0.000
0.012	2000	25.825	160.376	43.857	160.376	0.000	43.856	0.001	160.377	-0.001	43.857	0.000
-0.003	2200	25.827	162.838	49.022	162.838	0.000	49.022	0.000	162.838	-0.000	49.022	0.000
-0.015	2400	25.828	165.085	54.187	165.085	-0.000	54.188	-0.001	165.085	-0.000	54.187	-0.000
-0.018	2600	25.829	167.152	59.353	167.153	-0.001	59.354	-0.001	167.153	-0.001	59.353	-0.000
-0.006	2800	25.830	169.066	64.519	169.067	-0.001	64.520	-0.001	169.067	-0.001	64.519	0.000
0.024	3000	25.830	170.849	69.685	170.849	-0.000	69.687	-0.002	170.849	0.000	69.685	0.000
-0.026	3200	25.830	170.849	69.685	170.849	-0.000	69.687	-0.002	170.849	0.000	69.691	-0.006
0.005	3400	25.831	172.515	74.851	172.516	-0.001	74.853	-0.002	172.515	0.000	74.852	-0.001
0.013	3600	25.831	174.081	80.017	174.082	-0.001	80.019	-0.002	174.080	0.001	80.016	0.001
0.010	3800	25.832	175.558	85.184	175.559	-0.001	85.185	-0.001	175.556	0.002	85.181	0.003
0.004	4000	25.832	176.955	90.350	176.955	-0.000	90.351	-0.001	176.953	0.002	90.347	0.003
-0.003	4200	25.832	178.280	95.516	178.280	-0.000	95.517	-0.001	178.278	0.002	95.513	0.003
-0.006	4400	25.832	179.540	100.683	179.541	-0.001	100.683	-0.000	179.538	0.002	100.680	0.003
-0.007	4600	25.833	180.742	105.849	180.742	-0.000	105.849	-0.000	180.740	0.002	105.848	0.001
-0.005	4800	25.833	181.890	111.016	181.890	-0.000	111.016	0.000	181.888	0.002	111.015	0.001
-0.002	5000	25.833	182.989	116.182	182.990	-0.001	116.182	0.000	182.988	0.001	116.182	-0.000
0.001	5200	25.833	184.044	121.348	184.044	-0.000	121.348	-0.000	184.043	0.001	121.350	-0.002
0.004	5400	25.833	185.057	126.515	185.057	-0.000	126.515	0.000	185.056	0.001	126.516	-0.001
0.005	5600	25.833	186.032	131.682	186.032	-0.000	131.681	0.001	186.031	0.001	131.683	-0.001
0.003	5800	25.833	186.971	136.849	186.972	-0.001	136.848	0.001	186.970	0.001	136.849	-0.000
-0.001	6000	25.833	187.878	142.015	187.879	-0.000	142.015	-0.000	187.877	0.001	142.015	0.000
-0.005	6200	25.834	188.754	147.182	188.754	-0.000	147.182	-0.000	188.752	0.002	147.180	0.002

POTASSIUM SUPEROXIDE

(C) K 10 2

671

MOL. WT. = 71.100 BLOCK = 3205 NO. POINT = 17

DATA FROM 0 TO 1500 K HFORM(KCAL/(MOLE)) = -68.000 KEY = 675

FITS FOR NOTS RMS = 0.000209

2 8 1 19 0 0 0 0 0 0 0 POTASSIUM SUPEROXIDE (C) 30J 671 675
 +1.8551635E+1+9.1366596E+0-6.2845630E+0+1.4766359E+0 400 1500 31J 671 675
 -1.9780731E-1-7.4552642E+1+4.8144989E+1-6.8000000E+1(KO2C) 32J 671 675

FITS FOR EST RMS LOW = 0.003220 RMS HIGH = 0.003220

2 8 1 19 0 0 0 0 0 0 0 POTASSIUM SUPEROXIDE (C) 30K02\$
 -680000+5+614258+5+230720+2+154021-3-564765+6+801362+2 4001500J 67131K02\$
 -680000+5+614258+5+230720+2+154021-3-564765+6+801362+2 4001500J 67132K02\$

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DH KC/M	-----NOTS-----												-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
0.003	400	20.050	34.949	1.969	34.948	0.001	1.969	0.000	34.981	-0.032	1.981	-0.012				
0.000	500	20.950	39.525	4.022	39.526	-0.001	4.022	-0.000	39.510	0.015	4.013	0.009				
0.000	600	21.550	43.401	6.148	43.400	0.001	6.148	0.000	43.386	0.015	6.140	0.008				
0.001	700	21.970	46.755	8.325	46.755	0.000	8.325	0.000	46.750	0.005	8.323	0.002				
0.000	800	22.280	49.710	10.538	49.710	-0.000	10.538	-0.000	49.712	-0.002	10.541	-0.003				
0.001	900	22.520	52.349	12.779	52.349	-0.000	12.779	-0.000	52.352	-0.003	12.783	-0.004				
0.000	1000	22.680	54.730	15.039	54.730	-0.000	15.039	-0.000	54.732	-0.002	15.042	-0.003				
0.000	1100	22.800	56.898	17.314	56.898	-0.000	17.314	0.000	56.897	0.001	17.314	-0.000				
0.000	1200	22.880	58.885	19.598	58.886	-0.001	19.598	-0.000	58.883	0.002	19.596	0.002				
0.000	1300	22.940	60.719	21.889	60.719	-0.000	21.889	-0.000	60.716	0.003	21.887	0.002				
0.000	1400	22.980	62.421	24.185	62.421	0.000	24.185	0.000	62.418	0.003	24.183	0.002				
0.000	1500	23.000	64.007	26.484	64.007	-0.000	26.484	-0.000	64.007	0.000	26.486	-0.002				
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TUNGSTEN MONOXIDE (G) 0 1W 1 0 0 0 0 966
 MOL. WT.= 199.840 BLOCK= 3207 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 101.600 KEY = 676
 FITS FOR NOTS RMS = 0.014558
 1 8 1 74 0 0 0 0 0 0 0 TUNGSTEN MONOXIDE (G) 10J 966 676
 1.8039064E+0-7.8692245E-1+2.3003607E-1-1.2986782E-2 400 6000 11J 966 676
 5.1998901E-1+9.7303070E+1+6.8823425E+1+1.0159999E+20W (G) 12J 966 676

FITS FOR EST RMS LOW = 0.002795 RMS HIGH = 0.008172
 1 8 1 74 0 0 0 0 0 0 0 TUNGSTEN MONOXIDE (G) 100W
 101599+6+235568+5+876447+1+112966-3-230800+6+781849+2 4003000J 966110W
 101599+6+235649+5+677675+1+605831-3+436470+7+781849+230006000J 966120W

DH		-----NOTS-----												-----EST-----			
KC/M		T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
		K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M				
-0.012		400	7.646	60.914	0.761	61.169	-0.255	0.866	-0.105	60.940	-0.026	0.770	-0.009				
0.009		600	8.176	64.124	2.348	64.106	0.018	2.327	0.021	64.116	0.008	2.342	0.006				
0.008		800	8.472	66.521	4.015	66.484	0.037	3.982	0.033	66.519	0.002	4.014	0.001				
0.002		1000	8.640	68.431	5.728	68.407	0.024	5.707	0.021	68.433	-0.002	5.730	-0.002				
-0.003		1200	8.744	70.016	7.467	70.005	0.011	7.460	0.007	70.018	-0.002	7.469	-0.002				
-0.004		1400	8.813	71.369	9.223	71.367	0.002	9.227	-0.004	71.371	-0.002	9.224	-0.001				
-0.003		1600	8.862	72.549	10.991	72.550	-0.001	11.000	-0.009	72.550	-0.001	10.990	0.001				
-0.000		1800	8.899	73.595	12.767	73.597	-0.002	12.777	-0.010	73.595	-0.000	12.765	0.002				
0.002		2000	8.930	74.535	14.550	74.536	-0.001	14.559	-0.009	74.534	0.001	14.548	0.002				
0.002		2200	8.959	75.387	16.339	75.386	0.001	16.344	-0.005	75.387	-0.000	16.338	0.001				
-0.002		2400	8.989	76.168	18.134	76.166	0.002	18.135	-0.001	76.169	-0.001	18.134	-0.000				
		2600	9.022	76.889	19.935	76.885	0.004	19.933	0.002	76.890	-0.001	19.936	-0.001				
		2800	9.061	77.559	21.743	77.554	0.005	21.739	0.004	77.560	-0.001	21.744	-0.001				
		3000	9.106	78.185	23.559	78.181	0.004	23.554	0.005	78.185	0.000	23.557	0.002				
		3200	9.106	78.185	23.559	78.181	0.004	23.554	0.005	78.185	0.000	23.565	-0.006				
		3400	9.161	78.775	25.386	78.770	0.005	25.381	0.005	78.773	0.002	25.387	-0.001				
		3600	9.224	79.332	27.224	79.328	0.004	27.221	0.003	79.329	0.003	27.222	0.002				
		3800	9.296	79.861	29.076	79.857	0.004	29.074	0.001	79.858	0.003	29.073	0.003				
		4000	9.377	80.366	30.943	80.363	0.003	30.944	-0.001	80.363	0.003	30.940	0.003				
		4200	9.466	80.849	32.827	80.846	0.003	32.830	-0.003	80.846	0.003	32.826	0.001				
		4400	9.561	81.313	34.730	81.311	0.002	34.733	-0.003	81.311	0.002	34.730	0.000				
		4600	9.663	81.760	36.652	81.758	0.002	36.656	-0.004	81.758	0.002	36.653	-0.001				
		4800	9.768	82.192	38.595	82.190	0.002	38.598	-0.003	82.190	0.002	38.597	-0.002				
		5000	9.876	82.610	40.560	82.607	0.003	40.561	-0.001	82.608	0.002	40.562	-0.002				
		5200	9.985	83.016	42.546	83.012	0.004	42.546	0.000	83.014	0.002	42.547	-0.001				
		5400	10.095	83.409	44.554	83.406	0.003	44.552	0.002	83.407	0.002	44.554	0.000				
		5600	10.203	83.792	46.584	83.789	0.003	46.581	0.003	83.790	0.002	46.583	0.001				
		5800	10.309	84.165	48.635	84.162	0.003	48.632	0.003	84.163	0.002	48.633	0.002				
		6000	10.411	84.529	50.707	84.525	0.004	50.706	0.001	84.526	0.003	50.706	0.001				
		6200	10.509	84.883	52.799	84.881	0.002	52.803	-0.004	84.882	0.001	52.801	-0.002				

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FITS FOR EST      RMS LOW =      0.089885 RMS HIGH =      0.089885
 2  8  1  74  0   0  0   0  0   0  0  0 TUNGSTEN DIOXIDE (C) 3002W$
-140939+6+581699+5+136972+2+474263-2+225440+5+564059+2 4003000J 9663102W$
-140939+6+581699+5+136972+2+474263-2+225440+5+564059+2 4003000J 9663202W$

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TUNGSTEN DIOXIDE (G) 0 2W 1 0 0 0 0 966
 MOL. WT. = 215.840 BLOCK = 3217 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = 18.300 KEY = 678
 FITS FOR NOTS RMS = 0.006081
 2 8 1 74 0 0 0 0 0 0 TUNGSTEN DIOXIDE (G) 10J 966 678
 1.3725989E+1+1.7088055E-1-6.9215476E-2+1.0442148E-2 400 6000 11J 966 678
 5.0808715E-1+1.2685348E+1+8.2454040E+1+1.8299987E+102W(G) 12J 966 678

FITS FOR EST RMS LOW = 0.004426 RMS HIGH = 0.011783
 2 8 1 74 0 0 0 0 0 0 TUNGSTEN DIOXIDE (G) 1002W
 182999+5+360924+5+137866+2+403193-4-498880+6+978579+2 4003000J 9661102W
 182999+5+360859+5+119227+2+386557-3+732840+7+978579+230006000J 9661202W

DH		-----NOTS-----												-----EST-----			
KC/M		T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
		K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M				
46	-0.089	400	11.355	71.415	1.113	71.528	-0.113	1.158	-0.045	71.506	-0.091	1.150	-0.037				
78	-0.076	600	12.454	76.252	3.507	76.239	0.013	3.494	0.013	76.238	0.014	3.496	0.011				
91	0.027	800	13.006	79.919	6.059	79.904	0.015	6.045	0.014	79.909	0.010	6.051	0.008				
90	0.105	1000	13.303	82.856	8.693	82.848	0.008	8.684	0.009	82.853	0.003	8.690	0.003				
77	0.099	1200	13.477	85.299	11.372	85.294	0.005	11.369	0.003	85.298	0.001	11.374	-0.002				
52	0.004	1400	13.587	87.385	14.079	87.383	0.002	14.079	0.000	87.386	-0.001	14.082	-0.003				
16	-0.080	1600	13.660	89.204	16.805	89.204	0.000	16.806	-0.001	89.205	-0.001	16.807	-0.002				
70	-0.084	1800	13.711	90.816	19.542	90.816	-0.000	19.544	-0.002	90.816	-0.000	19.543	-0.001				
12	-0.032	2000	13.748	92.263	22.288	92.263	0.000	22.290	-0.002	92.262	0.001	22.288	-0.000				
45	0.015	2200	13.776	93.575	25.041	93.574	0.001	25.042	-0.001	93.574	0.001	25.040	0.001				
67	0.040	2400	13.797	94.774	27.798	94.774	0.000	27.799	-0.001	94.773	0.001	27.797	0.001				
78	0.041	2600	13.815	95.879	30.559	95.878	0.001	30.560	-0.001	95.878	0.001	30.558	0.001				
79	0.012	2800	13.829	96.904	33.324	96.903	0.001	33.323	0.001	96.903	0.001	33.324	0.000				
70	-0.053	3000	13.843	97.858	36.091	97.857	0.001	36.090	0.001	97.858	0.000	36.092	-0.001				
		3000	13.843	97.858	36.091	97.857	0.001	36.090	0.001	97.858	0.000	36.086	0.005				
		3200	13.857	98.752	38.861	98.751	0.001	38.860	0.001	98.754	-0.002	38.863	-0.002				
		3400	13.872	99.593	41.634	99.591	0.002	41.633	0.001	99.595	-0.002	41.637	-0.003				
		3600	13.890	100.386	44.410	100.385	0.001	44.409	0.001	100.388	-0.002	44.412	-0.002				
		3800	13.910	101.138	47.190	101.136	0.002	47.190	0.000	101.139	-0.001	47.190	0.000				
		4000	13.935	101.852	49.974	101.851	0.001	49.975	-0.001	101.853	-0.001	49.972	0.002				
		4200	13.965	102.532	52.764	102.531	0.001	52.766	-0.002	102.533	-0.001	52.761	0.003				
		4400	14.000	103.183	55.561	103.182	0.001	55.562	-0.001	103.183	-0.000	55.557	0.004				
		4600	14.041	103.806	58.365	103.805	0.001	58.366	-0.001	103.807	-0.001	58.362	0.003				
		4800	14.088	104.405	61.178	104.404	0.001	61.179	-0.001	104.406	-0.001	61.177	0.001				
		5000	14.140	104.981	64.000	104.980	0.001	64.001	-0.001	104.982	-0.001	64.001	-0.001				
		5200	14.198	105.536	66.834	105.535	0.001	66.833	0.001	105.538	-0.002	66.836	-0.002				
		5400	14.260	106.073	69.680	106.072	0.001	69.678	0.002	106.075	-0.002	69.683	-0.003				
		5600	14.328	106.593	72.539	106.592	0.001	72.537	0.002	106.595	-0.002	72.541	-0.002				
		5800	14.400	107.097	75.411	107.096	0.001	75.411	0.000	107.099	-0.002	75.411	-0.000				
		6000	14.475	107.587	78.299	107.586	0.001	78.302	-0.003	107.587	-0.000	78.294	0.005				

TUNGSTEN TRIOXIDE (C) 0 3W 1 0 0 0 0 966
 MOL. WT.= 231.840 BLOCK= 3223 NO. POINT = 32
 DATA FROM 0 TO 3000 K HFORM(KCAL/(MOLE)) = -201.460 KEY = 679
 FITS FOR NOTS RMS = 0.058463
 3 8 1 74 0 0 0 0 0 0 0 TUNGSTEN TRIOXIDE (C) 30J 966 679
 +3.6412033E+1-1.7914825E+1+9.5215358E+0-1.3768711E+0 400 3000 31J 966 679
 -2.1941223E+0-2.1832336E+2+5.6699615E+1-2.0145999E+203W(C) 32J 966 679

FITS FOR EST RMS LOW = 0.101995 RMS HIGH = 0.101995
 3 8 1 74 0 0 0 0 0 0 0 TUNGSTEN TRIOXIDE (C) 3003W\$
 -201459+6+702935+5+191088+2+397270-2+777376+6+735389+2 4003000J 9663103W\$
 -201459+6+702935+5+191088+2+397270-2+777376+6+735389+2 4003000J 9663203W\$

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T	NOTS				EST							
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
37	400	19.649	23.599	1.896	23.759	-0.160	1.948	-0.052	22.321	1.278	1.367	0.529
11	600	22.255	32.122	6.118	32.013	0.109	6.057	0.061	32.213	-0.091	6.234	-0.116
08	800	23.480	38.713	10.706	38.769	-0.056	10.760	-0.054	38.978	-0.265	10.936	-0.230
03	1000	24.300	44.040	15.483	44.184	-0.144	15.615	-0.132	44.255	-0.215	15.667	-0.184
02	1200	24.044	48.738	20.620	48.665	0.073	20.531	0.089	48.652	0.086	20.492	0.128
03	1400	24.827	52.503	25.507	52.502	0.001	25.511	-0.004	52.464	0.039	25.439	0.068
02	1600	25.609	55.870	30.551	55.886	-0.016	30.580	-0.029	55.857	0.013	30.522	0.029
01	1800	26.400	58.931	35.751	58.942	-0.011	35.772	-0.021	58.934	-0.003	35.749	0.002
00	2000	27.200	61.754	41.111	61.755	-0.001	41.111	-0.000	61.764	-0.010	41.123	-0.012
01	2200	28.000	64.384	46.631	64.378	0.006	46.618	0.013	64.397	-0.013	46.649	-0.018
01	2400	28.800	66.855	52.311	66.849	0.006	52.300	0.011	66.867	-0.012	52.328	-0.017
01	2600	29.600	69.192	58.151	69.192	0.000	58.153	-0.002	69.201	-0.009	58.161	-0.010
00	2800	30.400	71.414	64.151	71.418	-0.004	64.162	-0.012	71.420	-0.006	64.149	0.002
01	3000	31.200	73.539	70.311	73.535	0.004	70.300	0.011	73.539	0.000	70.293	0.018

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[illegible]

TUNGSTEN TRIOXIDE

(G) 0 3W 1 0 0 0 0

966

MOL. WT. = 231.840 BLOCK = 3229 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -70.000 KEY = 681

FITS FOR NOTS RMS = 0.005077

3 8 1 74 0 0 0 0 0 0 0 TUNGSTEN TRIOXIDE (G) 10J 966 681
+1.9615921E+1+1.6018879E-1-3.5932190E-2+2.7329269E-3 400 6000 11J 966 681
-7.1937561E-1-7.8044921E+1+8.8726852E+1-7.0000000E+103W(G) 12J 966 681

FITS FOR EST RMS LOW = 0.006483 RMS HIGH = 0.005882

3 8 1 74 0 0 0 0 0 0 0 TUNGSTEN TRIOXIDE (G) 1003W
-700000+5+514977+5+197078+2+520962-4-734496+6+110661+3 4003000J 9661103W
-700000+5+514997+5+200028+2-191327-4-180249+7+110661+330006000J 9661203W

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
931	400	16.071	72.941	1.566	73.062	-0.121	1.612	-0.046	73.072	-0.131	1.618	-0.052
532	600	17.746	79.816	4.968	79.796	0.020	4.950	0.018	79.798	0.018	4.953	0.015
323	800	18.557	85.045	8.608	85.029	0.016	8.592	0.016	85.031	0.014	8.596	0.012
484	1000	18.990	89.237	12.367	89.230	0.007	12.359	0.008	89.233	0.004	12.363	0.004
139	1200	19.244	92.724	16.192	92.721	0.003	16.190	0.002	92.724	-0.000	16.194	-0.002
013	1400	19.403	95.703	20.058	95.702	0.001	20.058	0.000	95.705	-0.002	20.062	-0.004
063	1600	19.509	98.301	23.950	98.301	0.000	23.951	-0.001	98.303	-0.002	23.953	-0.003
060	1800	19.583	100.604	27.859	100.603	0.001	27.860	-0.001	100.605	-0.001	27.862	-0.003
033	2000	19.637	102.670	31.782	102.669	0.001	31.782	-0.000	102.670	-0.000	31.782	-0.000
001	2200	19.677	104.543	35.713	104.543	0.000	35.713	-0.000	104.543	0.000	35.712	0.001
022	2400	19.707	106.257	39.652	106.256	0.001	39.651	0.001	106.256	0.001	39.650	0.002
028	2600	19.731	107.835	43.596	107.834	0.001	43.595	0.001	107.834	0.001	43.594	0.002
012	2800	19.750	109.298	47.544	109.297	0.001	47.544	0.000	109.298	0.000	47.543	0.001
032	3000	19.766	110.662	51.495	110.661	0.001	51.495	-0.000	110.662	0.000	51.498	-0.003
	3000	19.766	110.662	51.495	110.661	0.001	51.495	-0.000	110.662	0.000	51.500	-0.005
	3200	19.779	111.938	55.450	111.937	0.001	55.450	-0.000	111.937	0.001	55.451	-0.001
	3400	19.789	113.137	59.407	113.136	0.001	59.407	-0.000	113.136	0.001	59.406	0.001
	3600	19.798	114.268	63.365	114.268	0.000	63.366	-0.001	114.267	0.001	63.363	0.002
	3800	19.805	115.339	67.326	115.338	0.001	67.327	-0.001	115.337	0.002	67.323	0.003
	4000	19.812	116.355	71.288	116.354	0.001	71.288	-0.000	116.353	0.002	71.285	0.003
	4200	19.817	117.322	75.250	117.321	0.001	75.251	-0.001	117.320	0.002	75.249	0.001
	4400	19.822	118.244	79.214	118.243	0.001	79.215	-0.001	118.243	0.001	79.213	0.001
	4600	19.826	119.125	83.179	119.124	0.001	83.180	-0.001	119.124	0.001	83.179	0.000
	4800	19.830	119.969	87.145	119.968	0.001	87.145	0.000	119.968	0.001	87.145	-0.000
	5000	19.833	120.778	91.111	120.777	0.001	91.111	0.000	120.778	0.000	91.112	-0.001
	5200	19.836	121.556	95.078	121.555	0.001	95.077	0.001	121.556	0.000	95.079	-0.001
	5400	19.839	122.305	99.046	122.304	0.001	99.045	0.001	122.304	0.001	99.047	-0.001
	5600	19.841	123.027	103.014	123.026	0.001	103.013	0.001	123.026	0.001	103.014	-0.000
	5800	19.843	123.723	106.982	123.722	0.001	106.982	-0.000	123.722	0.001	106.982	0.000
	6000	19.845	124.396	110.951	124.395	0.001	110.952	-0.001	124.394	0.002	110.950	0.001

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TUNGSTEN TRIOXIDE, TRIMERIC (G) 0 9W 3 0 0 0 0 966

MOL. WT.= 695.540 BLOCK= 3236 NO. POINT = 62

DATA FROM 0 TO 6000 K HPFORM(KCAL/(MOLE)) = -483.600 KEY = 682

FITS FOR NOTS RMS = 0.011387

81 8 3 74 0 0 0 0 0 0 0 TUNGSTEN TRIOXIDE, TRIMERIC (G) 10J 966 682
 81 6.7283554E+1+1.8748879E-1-4.5322179E-2+3.6851484E-3 400 6000 11J 966 682
 81 1.6716308E+0-5.0894189E+2+1.9354771E+2-4.8359985E+209W3 (G) 12J 966 682

FITS FOR EST RMS LOW = 0.008034 RMS HIGH = 0.020371

8 3 74 0 0 0 0 0 0 0 TUNGSTEN TRIOXIDE, TRIMERIC (G) 1009W3
 -483599+6+177575+6+673673+2+629731-4-167609+7+267949+3 4003000J 9661109W3
 -483599+6+177589+6+680379+2-690367-4-501427+7+267949+330006000J 9661209W3

DH		-----NOTS-----												-----EST-----			
KC/M		T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
		K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
18	-0.052	400	58.219	137.015	5.702	137.192	-0.177	5.764	-0.062	137.192	-0.177	5.774	-0.072				
53	0.015	600	62.806	161.634	17.876	161.604	0.030	17.845	0.031	161.610	0.024	17.857	0.019				
96	0.012	800	64.742	180.003	30.656	179.976	0.027	30.627	0.029	179.985	0.018	30.641	0.015				
63	0.004	1000	65.711	194.565	43.711	194.550	0.015	43.693	0.018	194.558	0.007	43.706	0.005				
94	-0.002	1200	66.259	206.598	56.913	206.590	0.008	56.902	0.011	206.597	0.001	56.914	-0.001				
62	-0.004	1400	66.597	216.839	70.201	216.835	0.004	70.195	0.006	216.840	-0.001	70.205	-0.004				
53	-0.003	1600	66.819	225.747	83.544	225.745	0.002	83.540	0.004	225.748	-0.001	83.547	-0.003				
62	-0.003	1800	66.973	233.627	96.924	233.625	0.002	96.922	0.002	233.627	0.000	96.926	-0.002				
82	-0.000	2000	67.084	240.689	110.330	240.688	0.001	110.330	0.000	240.688	0.001	110.330	-0.000				
12	0.001	2200	67.166	247.087	123.755	247.086	0.001	123.756	-0.001	247.085	0.002	123.754	0.001				
50	0.002	2400	67.229	252.934	137.195	252.934	0.000	137.197	-0.002	252.932	0.002	137.193	0.002				
94	0.002	2600	67.278	258.317	150.646	258.317	-0.000	150.648	-0.002	258.315	0.002	150.644	0.002				
43	0.001	2800	67.317	263.305	164.106	263.305	0.000	164.109	-0.003	263.303	0.002	164.105	0.000				
98	-0.003	3000	67.349	267.950	177.573	267.951	-0.001	177.576	-0.003	267.950	0.000	177.576	-0.003				
00	-0.005	3200	67.375	272.298	191.045	272.298	-0.000	191.049	-0.004	272.293	0.005	191.050	-0.005				
51	-0.001	3400	67.396	276.383	204.522	276.384	-0.001	204.527	-0.005	276.376	0.007	204.519	0.003				
06	0.001	3600	67.414	280.236	218.003	280.236	-0.000	218.008	-0.005	280.228	0.008	217.997	0.006				
63	0.002	3800	67.430	283.881	231.488	283.882	-0.001	231.492	-0.004	283.873	0.008	231.480	0.008				
23	0.003	4000	67.443	287.340	244.975	287.341	-0.001	244.979	-0.004	287.332	0.008	244.968	0.007				
85	0.003	4200	67.454	290.631	258.465	290.631	-0.000	258.468	-0.003	290.623	0.008	258.459	0.006				
49	0.001	4400	67.464	293.769	271.956	293.769	-0.000	271.958	-0.002	293.762	0.007	271.953	0.003				
13	0.001	4600	67.472	296.768	285.450	296.768	-0.000	285.450	-0.000	296.761	0.006	285.449	0.001				
79	0.000	4800	67.480	299.640	298.945	299.639	0.000	298.945	0.000	299.634	0.006	298.946	-0.001				
45	-0.000	5000	67.486	302.395	312.442	302.394	0.000	312.441	0.001	302.389	0.006	312.444	-0.002				
12	-0.001	5200	67.492	305.042	325.940	305.041	0.001	325.938	0.002	305.036	0.006	325.943	-0.003				
79	-0.001	5400	67.497	307.589	339.439	307.588	0.001	339.436	0.003	307.583	0.006	339.441	-0.002				
47	-0.001	5600	67.502	310.044	352.938	310.043	0.001	352.937	0.001	310.038	0.006	352.940	-0.002				
14	-0.000	5800	67.506	312.413	366.439	312.412	0.001	366.438	0.000	312.406	0.007	366.438	0.001				
82	0.000	6000	67.510	314.701	379.941	314.701	-0.000	379.943	-0.002	314.694	0.007	379.935	0.006				
50	0.001																

COPPER UNIPOSITIVE ION

(G) CU 1 1

1265

MOL. WT. = 63.530 BLOCK = 3242 NO. POINT = 59

DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 260.668 KEY = 683

FITS FOR NOTS RMS = 0.051594

1 -1 1 29 0 0 0 0 0 0 COPPER UNIPOSITIVE ION (G) 10J1265 683
 +6.6953926E+0-1.2258367E+0+1.8527197E-1+1.4641739E-2 400 6000 11J1265 683
 -5.8058166E-1+2.5736938E+2+4.5156188E+1+2.6066796E+2CU+(G) 12J1265 683

FITS FOR EST RMS LOW = 0.003616 RMS HIGH = 0.022917

1 -1 1 29 0 0 0 0 0 0 COPPER UNIPOSITIVE ION (G) 10CU+
 +260667+6+134406+5+490038+1+328977-4+276120+5+498449+2 4003000J126511CU+
 +260667+6+134237+5-680412+1+242842-2+430133+8+498449+23C006000J126512CU+

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
2	400	4.968	39.827	0.506	40.360	-0.533	0.737	-0.231	39.801	0.026	0.494	0.012
9	600	4.968	41.841	1.500	41.841	-0.000	1.479	0.021	41.842	-0.001	1.501	-0.001
5	800	4.968	43.270	2.493	43.197	0.073	2.424	0.069	43.275	-0.005	2.497	-0.004
5	1000	4.968	44.379	3.487	44.318	0.061	3.430	0.057	44.383	-0.004	3.490	-0.003
1	1200	4.968	45.285	4.481	45.249	0.036	4.451	0.030	45.288	-0.003	4.482	-0.001
4	1400	4.968	46.050	5.474	46.036	0.014	5.472	0.002	46.052	-0.002	5.474	0.000
3	1600	4.968	46.714	6.468	46.712	0.002	6.485	-0.017	46.715	-0.001	6.466	0.002
2	1800	4.968	47.299	7.461	47.303	-0.004	7.488	-0.027	47.300	-0.001	7.459	0.002
0	2000	4.969	47.823	8.455	47.828	-0.005	8.483	-0.028	47.823	-0.000	8.453	0.002
1	2200	4.971	48.296	9.449	48.299	-0.003	9.472	-0.023	48.297	-0.001	9.449	0.000
2	2400	4.976	48.729	10.444	48.727	0.002	10.457	-0.013	48.731	-0.002	10.445	-0.001
2	2600	4.987	49.128	11.440	49.121	0.007	11.442	-0.002	49.130	-0.002	11.442	-0.002
0	2800	5.008	49.498	12.439	49.488	0.010	12.431	0.008	49.500	-0.002	12.441	-0.002
3	3000	5.044	49.845	13.444	49.832	0.013	13.429	0.015	49.845	0.000	13.441	0.003
6	3000	5.044	49.845	13.444	49.832	0.013	13.429	0.015	49.845	0.000	13.424	0.020
5	3200	5.099	50.172	14.458	50.158	0.014	14.439	0.019	50.181	-0.009	14.465	-0.007
3	3400	5.180	50.483	15.486	50.470	0.013	15.468	0.018	50.494	-0.011	15.497	-0.011
6	3600	5.291	50.782	16.532	50.770	0.012	16.519	0.013	50.792	-0.010	16.539	-0.007
8	3800	5.436	51.072	17.604	51.062	0.010	17.598	0.006	51.080	-0.008	17.604	-0.000
7	4000	5.617	51.355	18.709	51.347	0.008	18.711	-0.002	51.361	-0.006	18.704	0.005
6	4200	5.835	51.634	19.853	51.628	0.006	19.863	-0.010	51.640	-0.006	19.846	0.007
3	4400	6.090	51.912	21.045	51.907	0.005	21.060	-0.015	51.918	-0.006	21.039	0.006
1	4600	6.380	52.189	22.292	52.184	0.005	22.307	-0.015	52.195	-0.006	22.289	0.003
1	4800	6.702	52.467	23.600	52.461	0.006	23.612	-0.012	52.474	-0.007	23.600	-0.000
2	5000	7.049	52.747	24.974	52.740	0.007	24.979	-0.005	52.755	-0.008	24.978	-0.004
3	5200	7.416	53.031	26.421	53.022	0.009	26.416	0.005	53.039	-0.008	26.425	-0.004
2	5400	7.796	53.318	27.942	53.307	0.010	27.928	0.014	53.326	-0.008	27.945	-0.003
2	5600	8.182	53.608	29.539	53.598	0.010	29.524	0.015	53.616	-0.008	29.540	-0.001
1	5800	8.567	53.902	31.214	53.893	0.009	31.208	0.006	53.909	-0.007	31.212	0.002
6	6000	8.942	54.199	32.965	54.195	0.004	32.989	-0.024	54.206	-0.007	32.964	0.001

BORON BROMODICHLORIDE (G) B 1BR 1CL 2 1264
 MOL. WT.= 161.620 BLOCK= 3254 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -80.500 KEY = 685
 FITS FOR NOTS RMS = 0.004145
 1 5 2 17 1 35 0 0 0 0 0 BORON BROMODICHLORIDE (G) 10J1264 685
 +1.9715194E+1+9.9473416E-2-2.2593006E-2+1.7376681E-3 400 6000 11J1264 685
 -5.8345031E-1-8.8178359E+1+9.5179641E+1-8.0500000E+1BBRCL2 (G) 12J1264 685

FITS FOR EST RMS LOW = 0.004289 RMS HIGH = 0.005989
 1 5 2 17 1 35 0 0 0 0 0 BORON BROMODICHLORIDE (G) 10BBRCL2
 -805000+5+519426+5+197645+2+347308-4-588848+6+117083+3 4003000J126411BBRCL2
 -805000+5+519452+5+200166+2-211198-4-165376+7+117083+330006000J126412BBRCL2

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.041	400	16.743	78.889	1.641	78.976	-0.087	1.674	-0.033	78.977	-0.088	1.677	-0.036	
0.011	600	18.179	85.989	5.153	85.975	0.014	5.140	0.013	85.976	0.013	5.143	0.010	
0.009	800	18.842	91.321	8.863	91.309	0.012	8.851	0.012	91.311	0.010	8.855	0.008	
0.002	1000	19.188	95.566	12.669	95.560	0.006	12.663	0.006	95.563	0.003	12.667	0.002	
-0.001	1200	19.387	99.084	16.528	99.081	0.003	16.526	0.002	99.083	0.001	16.530	-0.002	
-0.002	1400	19.511	102.082	20.419	102.081	0.001	20.418	0.001	102.083	-0.001	20.421	-0.002	
-0.002	1600	19.593	104.693	24.330	104.692	0.001	24.330	0.000	104.693	-0.000	24.332	-0.002	
-0.001	1800	19.651	107.004	28.255	107.004	0.000	28.255	0.000	107.004	-0.000	28.256	-0.001	
-0.001	2000	19.692	109.077	32.189	109.076	0.001	32.189	-0.000	109.076	0.001	32.189	-0.000	
0.001	2200	19.723	110.955	36.131	110.955	0.000	36.131	0.000	110.954	0.001	36.130	0.001	
0.001	2400	19.746	112.673	40.078	112.672	0.001	40.078	0.000	112.671	0.002	40.077	0.001	
0.002	2600	19.765	114.254	44.029	114.253	0.001	44.029	-0.000	114.253	0.001	44.028	0.001	
-0.000	2800	19.780	115.719	47.984	115.719	0.000	47.984	0.000	115.718	0.001	47.984	0.000	
-0.002	3000	19.792	117.084	51.941	117.084	0.000	51.941	-0.000	117.084	0.000	51.943	-0.002	
-0.007	3000	19.792	117.084	51.941	117.084	0.000	51.941	-0.000	117.084	0.000	51.945	-0.004	
-0.002	3200	19.801	118.362	55.900	118.361	0.001	55.901	-0.001	118.360	0.002	55.901	-0.001	
0.001	3400	19.809	119.563	59.861	119.562	0.001	59.862	-0.001	119.561	0.002	59.860	0.001	
0.003	3600	19.816	120.695	63.824	120.695	0.000	63.825	-0.001	120.693	0.002	63.821	0.003	
0.003	3800	19.822	121.767	67.788	121.766	0.001	67.788	-0.000	121.764	0.003	67.785	0.003	
0.003	4000	19.827	122.783	71.752	122.783	-0.000	71.753	-0.001	122.781	0.002	71.750	0.002	
0.003	4200	19.831	123.751	75.718	123.751	0.000	75.719	-0.001	123.749	0.002	75.716	0.002	
0.001	4400	19.835	124.674	79.685	124.673	0.001	79.685	-0.000	124.671	0.003	79.684	0.001	
0.001	4600	19.838	125.555	83.652	125.555	0.000	83.652	-0.000	125.553	0.002	83.652	0.000	
-0.000	4800	19.841	126.400	87.620	126.399	0.001	87.620	0.000	126.398	0.002	87.620	-0.000	
-0.001	5000	19.843	127.210	91.588	127.209	0.001	91.588	0.000	127.208	0.002	91.589	-0.001	
-0.001	5200	19.845	127.988	95.557	127.987	0.001	95.556	0.001	127.986	0.002	95.558	-0.001	
-0.001	5400	19.847	128.737	99.527	128.736	0.001	99.526	0.001	128.735	0.002	99.527	-0.000	
-0.001	5600	19.849	129.459	103.496	129.458	0.001	103.495	0.001	129.457	0.002	103.496	-0.000	
0.001	5800	19.851	130.155	107.466	130.155	0.000	107.466	0.000	130.153	0.002	107.465	0.001	
0.003	6000	19.852	130.828	111.436	130.828	0.000	111.437	-0.001	130.826	0.002	111.434	0.002	

BORON BROMODIFLUORIDE (G) B 1BR 1F 2 1264
 MOL. WT.= 128.710 BLOCK= 3261 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -196.000 KEY = 686
 FITS FOR NOTS RMS = 0.008651
 5 2 9 1 35 0 0 0 0 0 BORON BROMODIFLUORIDE (G) 10J1264 686
 .9276596E+1+3.6749112E-1-8.0891907E-2+6.0361102E-3 400 6000 11J1264 686
 .6044921E-1-2.0459501E+2+8.7359756E+1-1.9600000E+2BBRF2 (G) 12J1264 686

FITS FOR EST RMS LOW = 0.012800 RMS HIGH = 0.005907
 1 5 2 9 1 35 0 0 0 0 0 BORON BROMODIFLUORIDE (G) 10BBRF2
 196000+6+506093+5+194986+2+118707-3-100011+7+109385+3 4003000J126411BBRF2
 196000+6+506083+5+200021+2-189340-4-235238+7+109385+330006000J126412BBRF2

-----NOTS-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.036	100	14.997	72.611	1.455	72.839	-0.228	1.544	-0.089	72.859	-0.248	1.555	-0.100	40
0.010	200	16.896	79.089	4.663	79.053	0.036	4.632	0.031	79.053	0.036	4.633	0.030	60
0.008	300	17.944	84.108	8.157	84.078	0.030	8.131	0.026	84.078	0.030	8.133	0.024	80
0.002	400	18.545	88.182	11.811	88.169	0.013	11.800	0.011	88.172	0.010	11.804	0.007	100
-0.002	500	18.911	91.598	15.560	91.594	0.004	15.558	0.002	91.598	0.000	15.563	-0.003	120
-0.002	600	19.148	94.532	19.367	94.532	0.000	19.370	-0.003	94.535	-0.003	19.375	-0.008	140
-0.001	700	19.308	97.100	23.214	97.100	-0.000	23.218	-0.004	97.103	-0.003	23.221	-0.007	160
-0.000	800	19.421	99.381	27.087	99.381	0.000	27.090	-0.003	99.382	-0.001	27.091	-0.004	180
0.001	900	19.504	101.432	30.980	101.431	0.001	30.982	-0.002	101.431	0.001	30.981	-0.001	200
0.001	1000	19.566	103.294	34.887	103.292	0.002	34.888	-0.001	103.291	0.003	34.885	0.002	220
0.001	1100	19.613	104.998	38.805	104.996	0.002	38.805	0.000	104.995	0.003	38.801	0.004	240
0.000	1200	19.651	106.570	42.732	106.567	0.003	42.731	0.001	106.567	0.003	42.728	0.004	260
-0.002	1300	19.681	108.027	46.665	108.025	0.002	46.664	0.001	108.025	0.002	46.665	0.000	280
-0.004	1400	19.705	109.386	50.604	109.383	0.003	50.603	0.001	109.386	0.000	50.609	-0.005	300
-0.001	1500	19.705	109.386	50.604	109.383	0.003	50.603	0.001	109.386	0.000	50.608	-0.004	320
0.001	1600	19.725	110.658	54.547	110.656	0.002	54.546	0.001	110.657	0.001	54.548	-0.001	340
0.003	1700	19.742	111.855	58.494	111.852	0.003	58.494	0.000	111.853	0.002	58.493	0.001	360
0.003	1800	19.756	112.984	62.443	112.981	0.003	62.444	-0.001	112.982	0.002	62.442	0.001	380
0.002	1900	19.768	114.052	66.396	114.050	0.002	66.397	-0.001	114.050	0.002	66.393	0.003	400
0.002	2000	19.778	115.066	70.350	115.064	0.002	70.352	-0.002	115.064	0.002	70.348	0.002	420
0.001	2100	19.786	116.031	74.307	116.030	0.001	74.308	-0.001	116.029	0.002	74.305	0.002	440
0.000	2200	19.794	116.952	78.265	116.950	0.002	78.266	-0.001	116.950	0.002	78.264	0.001	460
-0.000	2300	19.801	117.832	82.224	117.830	0.002	82.225	-0.001	117.830	0.002	82.224	0.000	480
-0.001	2400	19.807	118.675	86.185	118.673	0.002	86.185	-0.000	118.673	0.002	86.185	-0.000	500
-0.001	2500	19.812	119.484	90.147	119.481	0.003	90.146	0.001	119.482	0.002	90.148	-0.001	520
-0.000	2600	19.816	120.261	94.110	120.258	0.003	94.108	0.002	120.259	0.002	94.111	-0.001	540
-0.000	2700	19.820	121.009	98.073	121.006	0.003	98.072	0.001	121.007	0.002	98.074	-0.001	560
0.001	2800	19.824	121.729	102.038	121.727	0.002	102.036	0.002	121.728	0.001	102.038	-0.000	580
0.002	2900	19.827	122.425	106.003	122.423	0.002	106.003	0.000	122.424	0.001	106.003	0.000	600
	3000	19.830	123.097	109.969	123.096	0.001	109.971	-0.002	123.096	0.001	109.967	0.002	620

BORON DIBROMOCHLORIDE

(G)

B 1BR 2CL 1

1264

MOL. WT. = 206.080 BLOCK = 3267 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -65.000 KEY = 687

FITS FOR NOTS RMS = 0.003685

1 5 1 17 2 35 0 0 0 0 0 BORON DIBROMOCHLORIDE (G) 10J1264 687
+1.9726470E+1+9.6553206E-2-2.2806968E-2+1.8129851E-3 400 6000 11J1264 687
-5.2090454E-1-7.2498291E+1+9.8217422E+1-6.5000000E+1BBR2CL(G) 12J1264 687

FITS FOR EST RMS LOW = 0.003613 RMS HIGH = 0.005961

1 5 1 17 2 35 0 0 0 0 0 BORON DIBROMOCHLORIDE (G) 10BBR2CL
-650000+5+521213+5+197819+2+290298-4-529152+6+120121+3 4003000J126411BBR2CL
-650000+5+521241+5+199922+2-174437-4-142336+7+120121+330006000J126412BBR2CL

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
10	400	17.038	81.736	1.676	81.807	-0.071	1.702	-0.026	81.812	-0.076	1.707	-0.031
30	600	18.354	88.930	5.234	88.918	0.012	5.222	0.012	88.920	0.010	5.225	0.009
24	800	18.953	94.303	8.971	94.293	0.010	8.961	0.010	94.295	0.008	8.965	0.006
17	1000	19.262	98.569	12.796	98.564	0.005	12.790	0.006	98.566	0.003	12.794	0.002
13	1200	19.440	102.098	16.668	102.095	0.003	16.665	0.003	102.098	-0.000	16.669	-0.001
18	1400	19.551	105.103	20.568	105.102	0.001	20.566	0.002	105.104	-0.001	20.570	-0.002
17	1600	19.624	107.719	24.486	107.718	0.001	24.485	0.001	107.720	-0.001	24.488	-0.002
14	1800	19.675	110.034	28.416	110.033	0.001	28.416	0.000	110.034	-0.000	28.417	-0.001
11	2000	19.712	112.109	32.355	112.108	0.001	32.355	0.000	112.109	0.000	32.355	-0.000
12	2200	19.740	113.989	36.300	113.988	0.001	36.300	-0.000	113.989	0.000	36.300	0.000
14	2400	19.761	115.707	40.250	115.707	0.000	40.250	-0.000	115.707	0.000	40.249	0.001
14	2600	19.777	117.290	44.204	117.289	0.001	44.204	-0.000	117.289	0.001	44.203	0.001
10	2800	19.790	118.756	48.161	118.756	0.000	48.161	-0.000	118.756	0.000	48.161	0.000
15	3000	19.801	120.122	52.120	120.121	0.001	52.121	-0.001	120.122	0.000	52.121	-0.001
14	3000	19.801	120.122	52.120	120.121	0.001	52.121	-0.001	120.122	0.000	52.124	-0.004
11	3200	19.809	121.400	56.081	121.400	0.000	56.082	-0.001	121.399	0.001	56.082	-0.001
11	3400	19.817	122.601	60.044	122.601	0.000	60.045	-0.001	122.600	0.001	60.043	0.001
11	3600	19.823	123.734	64.008	123.734	0.000	64.009	-0.001	123.732	0.002	64.006	0.002
13	3800	19.828	124.806	67.973	124.806	0.000	67.974	-0.001	124.804	0.002	67.971	0.002
12	4000	19.832	125.823	71.939	125.823	0.000	71.940	-0.001	125.821	0.002	71.937	0.002
12	4200	19.836	126.791	75.905	126.790	0.001	75.906	-0.001	126.789	0.002	75.904	0.001
11	4400	19.839	127.713	79.873	127.713	-0.000	79.873	-0.000	127.712	0.001	79.872	0.001
0	4600	19.842	128.595	83.841	128.595	-0.000	83.841	-0.000	128.594	0.001	83.841	0.000
0	4800	19.844	129.440	87.810	129.439	0.000	87.809	0.001	129.439	0.001	87.810	0.000
1	5000	19.847	130.250	91.779	130.250	0.000	91.778	0.001	130.249	0.001	91.779	-0.000
1	5200	19.849	131.028	95.748	131.028	0.000	95.747	0.001	131.028	0.000	95.749	-0.001
1	5400	19.850	131.778	99.718	131.777	0.001	99.717	0.001	131.777	0.001	99.719	-0.001
0	5600	19.852	132.499	103.688	132.499	-0.000	103.688	0.000	132.498	0.001	103.689	-0.001
0	5800	19.853	133.196	107.659	133.196	0.000	107.659	0.000	133.195	0.001	107.658	0.001
2	6000	19.855	133.869	111.630	133.869	-0.000	111.631	-0.001	133.868	0.001	111.628	0.002

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BORON DIBROMOFLUORIDE (G) B 1BR 2F 1 1264
 MOL. WT.= 189.620 BLOCK= 3273 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -123.000 KEY = 688
 FITS FOR NOTS RMS = 0.005765
 1 5 1 9 2 35 0 0 0 0 0 BORON DIBROMOFLUORIDE (G) 10J1264 688
 1.9531127E+1+2.1266818E-1-4.7326471E-2+3.5667931E-3 400 6000 11J1264 688
 7.0443725E-1-1.3094700E+2+9.4394515E+1-1.2300000E+2BBR2F(G) 12J1264 688

FITS FOR EST RMS LOW = 0.007622 RMS HIGH = 0.006078
 1 5 1 9 2 35 0 0 0 0 0 BORON DIBROMOFLUORIDE (G) 10BBR2F
 -123000+6+514878+5+196544+2+694992-4-724752+6+116348+3 4003000J126411BBR2F
 123000+6+514893+5+200121+2-204385-4-191795+7+116348+330006000J126412BBR2F

DH KC/M	-----NOTS-----						-----EST-----					
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
-0.031	400	16.213	78.640	1.588	78.781	-0.141	1.643	-0.055	78.791	-0.151	1.649	-0.061
0.009	600	17.742	85.538	5.001	85.515	0.023	4.981	0.020	85.516	0.022	4.983	0.018
0.006	800	18.524	90.761	8.636	90.742	0.019	8.619	0.017	90.744	0.017	8.622	0.014
-0.001	1000	18.956	94.946	12.388	94.937	0.009	12.380	0.008	94.939	0.007	12.384	0.004
-0.002	1200	19.214	98.426	16.207	98.423	0.003	16.205	0.002	98.426	-0.000	16.210	-0.003
-0.001	1400	19.378	101.401	20.068	101.400	0.000	20.068	-0.000	101.403	-0.002	20.072	-0.004
-0.000	1600	19.489	103.997	23.955	103.996	0.001	23.956	-0.001	103.998	-0.001	23.959	-0.004
0.000	1800	19.566	106.297	27.861	106.296	0.001	27.862	-0.001	106.297	-0.000	27.863	-0.002
0.001	2000	19.623	108.362	31.780	108.361	0.001	31.781	-0.001	108.361	0.001	31.780	-0.000
0.001	2200	19.665	110.234	35.709	110.233	0.001	35.709	-0.000	110.232	0.002	35.708	0.001
0.000	2400	19.697	111.946	39.645	111.945	0.001	39.645	-0.000	111.944	0.002	39.643	0.002
-0.001	2600	19.723	113.524	43.588	113.523	0.001	43.587	0.001	113.522	0.002	43.585	0.003
-0.004	2800	19.743	114.986	47.534	114.985	0.001	47.534	0.000	114.985	0.001	47.534	0.000
-0.001	3000	19.760	116.349	51.485	116.348	0.001	51.484	0.001	116.349	0.000	51.488	-0.003
0.001	3200	19.760	116.349	51.485	116.348	0.001	51.484	0.001	116.349	0.000	51.489	-0.004
0.002	3400	19.773	117.625	55.438	117.624	0.001	55.438	-0.000	117.624	0.001	55.439	-0.001
0.002	3600	19.784	118.824	59.394	118.823	0.001	59.394	-0.000	118.822	0.002	59.393	0.001
0.001	3800	19.794	119.955	63.352	119.954	0.001	63.353	-0.001	119.953	0.002	63.350	0.002
0.001	4000	19.802	121.026	67.311	121.025	0.001	67.312	-0.001	121.023	0.003	67.309	0.002
0.000	4200	19.809	122.041	71.272	122.041	0.000	71.274	-0.002	122.039	0.002	71.270	0.002
0.000	4400	19.815	123.008	75.235	123.007	0.001	75.236	-0.001	123.006	0.002	75.233	0.002
-0.000	4600	19.820	123.930	79.198	123.929	0.001	79.199	-0.001	123.928	0.002	79.197	0.001
-0.001	4800	19.824	124.811	83.162	124.810	0.001	83.163	-0.001	124.809	0.002	83.162	-0.000
-0.001	5000	19.828	125.655	87.128	125.654	0.001	87.128	0.000	125.653	0.002	87.128	0.000
-0.001	5200	19.832	126.464	91.094	126.463	0.001	91.093	0.001	126.463	0.001	91.094	-0.000
-0.001	5400	19.835	127.242	95.060	127.241	0.001	95.059	0.001	127.241	0.001	95.061	-0.001
0.001	5600	19.837	127.991	99.028	127.989	0.002	99.026	0.002	127.989	0.002	99.028	-0.000
0.002	5800	19.840	128.712	102.995	128.711	0.001	102.994	0.001	128.711	0.001	102.996	-0.001
	6000	19.842	129.409	106.963	129.407	0.002	106.963	-0.000	129.407	0.002	106.963	0.000
	6000	19.844	130.081	110.932	130.080	0.001	110.933	-0.001	130.079	0.002	110.930	0.002

POTASSIUM TETRAFLUOROBORATE (C) B 1F 4K 1 0 0 0 1269

MOL. WT.= 125.900 BLOCK= 3279 NO. POINT = 14

DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -451.000 KEY = 689

FITS FOR NOTS RMS = 0.255067

1 5 4 9 1 19 0 0 0 0 0 POTASSIUM TETRAFLUOROBORATE (C) 30J1269 689
+3.8228271E+2-8.4038964E+2+7.1039526E+2-1.9939990E+2 400 1500 31J1269 689
-1.6283782E+1-5.8868945E+2+6.2234716E+2-4.5100000E+2BP4K(C) 32J1269 689

FITS FOR EST RMS LOW = 0.282379 RMS HIGH = 0.282379

1 5 4 9 1 19 0 0 0 0 0 POTASSIUM TETRAFLUOROBORATE (C) 30BP4K\$
-451000+6+136536+6+890878+1+215334-1+733312+7+134946+3 4001500J126931BP4K\$
-451000+6+136536+6+890878+1+215334-1+733312+7+134946+3 4001500J126932BP4K\$

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-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.061	400	31.266	40.585	2.985	39.375	1.210	2.581	0.404	38.501	2.084	2.308	0.677
0.018	500	35.125	47.977	6.305	50.233	-2.256	7.455	-1.150	50.892	-2.915	7.834	-1.529
0.014	600	33.962	60.430	13.176	58.965	1.465	12.238	0.938	59.151	1.279	12.354	0.822
0.004	700	35.019	65.745	16.626	65.589	0.156	16.528	0.098	65.379	0.366	16.390	0.236
0.003	800	36.075	70.490	20.180	70.749	-0.259	20.389	-0.209	70.476	0.014	20.206	-0.026
0.004	900	37.131	74.800	23.841	75.027	-0.227	24.020	-0.179	74.881	-0.081	23.945	-0.104
0.004	1000	38.188	78.767	27.606	78.831	-0.064	27.631	-0.025	78.833	-0.066	27.697	-0.091
0.002	1100	39.244	82.456	31.478	82.405	0.051	31.383	0.095	82.472	-0.016	31.515	-0.037
0.000	1200	40.301	85.916	35.455	85.863	0.053	35.358	0.097	85.884	0.032	35.438	0.017
0.001	1300	41.357	89.183	39.538	89.213	-0.030	39.544	-0.006	89.127	0.056	39.491	0.047
0.002	1400	42.413	92.287	43.727	92.386	-0.099	43.827	-0.100	92.240	0.047	43.692	0.035
0.003	1500	43.470	95.249	48.021	95.253	-0.004	47.981	0.040	95.249	0.000	48.054	-0.033
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POTASSIUM TETRAFLUOROBORATE (G) B 1F 4K 1 0 0 0 1269

MOL. WT. = 125.900 BLOCK = 3281 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -371.000 KEY = 690

FITS FOR NOTS RMS = 0.012802

1 5 4 9 1 19 0 0 0 0 0 POTASSIUM TETRAFLUOROBORATE (G) 10J1269 690

1.0927581E+1+5.3500974E-1-1.1778980E-1+8.7851770E-3 400 6000 11J1269 690

1.5297851E+0-3.8479418E+2+1.0568363E+2-3.7100000E+2BF4K(G) 12J1269 690

FITS FOR EST RMS LOW = 0.018803 RMS HIGH = 0.009525

1 5 4 9 1 19 0 0 0 0 0 POTASSIUM TETRAFLUOROBORATE (G) 10BF4K

171000+6+810325+5+312502+2+172791-3-158752+7+140903+3 4003000J126911BF4K

171000+6+810318+5+320126+2-320203-4-372992+7+140903+33C006000J126912BF4K

-----NOTS-----												
-----EST-----												
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.677	400	23.922	81.993	2.309	82.330	-0.337	2.442	-0.133	82.361	-0.368	2.458	-0.149
-1.529	600	27.097	92.363	7.446	92.310	0.053	7.400	0.046	92.311	0.052	7.402	0.044
0.822	800	28.780	100.413	13.050	100.369	0.044	13.012	0.038	100.371	0.042	13.015	0.035
0.236	1000	29.730	106.947	18.910	106.928	0.019	18.894	0.016	106.932	0.015	18.899	0.011
-0.026	1200	30.304	112.422	24.917	112.416	0.006	24.916	0.001	112.422	0.000	24.923	-0.006
-0.104	1400	30.672	117.123	31.018	117.122	0.001	31.022	-0.004	117.127	-0.004	31.029	-0.011
-0.091	1600	30.921	121.236	37.178	121.236	0.000	37.184	-0.006	121.240	-0.004	37.189	-0.011
-0.037	1800	31.097	124.889	43.381	124.888	0.001	43.386	-0.005	124.890	-0.001	43.387	-0.006
0.017	2000	31.225	128.172	49.614	128.170	0.002	49.617	-0.003	128.171	0.001	49.615	-0.001
0.047	2200	31.321	131.153	55.869	131.150	0.003	55.870	-0.001	131.149	0.004	55.865	0.004
0.035	2400	31.395	133.881	62.141	133.878	0.003	62.140	0.001	133.877	0.004	62.135	0.006
-0.033	2600	31.453	136.397	68.426	136.393	0.004	68.424	0.002	136.392	0.005	68.420	0.006
	2800	31.499	138.729	74.721	138.725	0.004	74.720	0.001	138.726	0.003	74.720	0.001
	3000	31.536	140.904	81.025	140.900	0.004	81.024	0.001	140.904	0.000	81.033	-0.008
	3200	31.536	140.904	81.025	140.900	0.004	81.024	0.001	140.904	0.000	81.032	-0.007
	3400	31.567	142.940	87.335	142.937	0.003	87.335	-0.000	142.939	0.001	87.337	-0.002
	3600	31.593	144.855	93.651	144.851	0.004	93.652	-0.001	144.852	0.003	93.650	0.001
	3800	31.614	146.661	99.972	146.658	0.003	99.974	-0.002	146.658	0.003	99.969	0.003
	4000	31.633	148.371	106.297	148.368	0.003	106.299	-0.002	148.368	0.003	106.293	0.004
	4200	31.648	149.994	112.625	149.991	0.003	112.628	-0.003	149.991	0.003	112.622	0.003
	4400	31.662	151.538	118.956	151.536	0.002	118.959	-0.003	151.535	0.003	118.953	0.003
	4600	31.674	153.011	125.290	153.009	0.002	125.292	-0.002	153.009	0.002	125.288	0.002
	4800	31.684	154.420	131.625	154.417	0.003	131.627	-0.002	154.417	0.003	131.625	0.000
	5000	31.693	155.768	137.963	155.765	0.003	137.964	-0.001	155.766	0.002	137.963	-0.000
	5200	31.701	157.062	144.303	157.059	0.003	144.302	0.001	157.060	0.002	144.304	-0.001
	5400	31.708	158.306	150.643	158.302	0.004	150.642	0.001	158.304	0.002	150.645	-0.002
	5600	31.714	159.502	156.986	159.499	0.003	156.983	0.003	159.500	0.002	156.987	-0.001
	5800	31.720	160.656	163.329	160.652	0.004	163.327	0.002	160.654	0.002	163.329	-0.000
	6000	31.725	161.769	169.673	161.766	0.003	169.673	-0.000	161.767	0.002	169.672	0.001
	6200	31.729	162.845	176.019	162.842	0.003	176.022	-0.003	162.842	0.003	176.016	0.003

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TITANIUM DIBORIDE (L) B 2TI 1 665
 MOL. WT. = 69.520 BLOCK = 3292 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = -44.993 KEY = 692
 FITS FOR NOTS RMS = 0.314412
 5 1 22 0 0 0 0 0 0 0 TITANIUM DIBORIDE (L) 20J 665 692
 .7830963E+0+1.4394989E+1-3.4726781E+0+2.7105474E-1 400 6000 21J 665 692
 .8125000E-3-4.7104339E+1+1.8625457E+1-4.4992996E+1B2TI (L) 22J 665 692

ZIRCO
 MOL.
 DATA F
 FITS P
 2 5 1
 +1.57628
 -3.77471

FITS FOR EST RMS LOW = 0.684935 RMS HIGH = 0.684935
 5 1 22 0 0 0 0 0 0 0 TITANIUM DIBORIDE (L) 20B2TI*
 .49929+5+574511+5+271299+2-140611-3-904017+7+561449+2 4006000J 66521B2TI*
 .49929+5+574511+5+271299+2-140611-3-904017+7+561449+2 4006000J 66522B2TI*

FITS F
 2 5 1
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	NOTS								EST					
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T		
'M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/
181	100	13.119	16.957	1.220	17.921	-0.964	1.701	-0.481	29.595	-12.638	7.122	-5.902	400	13.
184	200	15.814	22.855	4.147	23.203	-0.348	4.321	-0.174	24.872	-2.017	5.000	-0.853	600	15.
186	300	17.225	27.613	7.462	27.569	0.044	7.366	0.096	27.156	0.457	6.640	0.822	800	16.
171	400	18.377	31.583	11.024	31.378	0.205	10.787	0.237	30.639	0.944	9.780	1.244	1000	17.
177	500	19.427	35.027	14.806	34.795	0.232	14.540	0.266	34.176	0.851	13.669	1.137	1200	17.
106	600	20.375	38.095	18.788	37.907	0.188	18.582	0.206	37.497	0.598	17.982	0.806	1400	18.
157	700	21.219	40.872	22.949	40.772	0.100	22.875	0.074	40.551	0.321	22.559	0.390	1600	18.
172	800	21.959	43.415	27.269	43.426	-0.011	27.383	-0.114	43.348	0.067	27.309	-0.040	1800	19.
160	900	22.595	45.762	31.726	45.896	-0.134	32.072	-0.346	45.913	-0.151	32.179	-0.453	2000	19.
133	1000	26.000	48.081	36.600	48.202	-0.121	36.913	-0.313	48.275	-0.194	37.135	-0.535	2200	20.
107	1100	26.000	50.343	41.800	50.360	-0.017	41.875	-0.075	50.458	-0.115	42.154	-0.354	2400	20.
111	1200	26.000	52.424	47.000	52.385	0.039	46.934	0.066	52.485	-0.061	47.220	-0.220	2600	21.
119	1300	26.000	54.351	52.200	54.286	0.065	52.067	0.133	54.376	-0.025	52.322	-0.122	2800	21.
121	1400	26.000	56.145	57.400	56.075	0.070	57.253	0.147	56.145	0.000	57.451	-0.051	3000	22.
119	1500	26.000	57.823	62.600	57.760	0.063	62.474	0.126	57.807	0.016	62.602	-0.002	3200	22.
112	1600	26.000	59.399	67.800	59.349	0.050	67.715	0.085	59.373	0.026	67.769	0.031	3400	23.
103	1700	26.000	60.885	73.000	60.849	0.036	72.964	0.036	60.854	0.031	72.948	0.052	3600	23.
108	1800	26.000	62.291	78.200	62.267	0.024	78.210	-0.010	62.256	0.035	78.138	0.062	3800	24.
120	1900	26.000	63.625	83.400	63.610	0.015	83.447	-0.047	63.589	0.036	83.336	0.064	4000	24.
	2000	26.000	64.893	88.600	64.884	0.009	88.668	-0.068	64.859	0.034	88.539	0.061		
	2100	26.000	66.103	93.800	66.094	0.009	93.872	-0.072	66.070	0.033	93.746	0.054		
	2200	26.000	67.258	99.000	67.248	0.010	99.060	-0.060	67.228	0.030	98.956	0.044		
	2300	26.000	68.365	104.200	68.349	0.016	104.234	-0.034	68.337	0.028	104.168	0.032		
	2400	26.000	69.426	109.400	69.403	0.023	109.400	-0.000	69.401	0.025	109.381	0.019		
	2500	26.000	70.446	114.600	70.416	0.030	114.567	0.033	70.423	0.023	114.594	0.006		
	2600	26.000	71.427	119.800	71.393	0.034	119.744	0.056	71.407	0.020	119.806	-0.006		
	2700	26.000	72.373	125.000	72.339	0.034	124.945	0.055	72.355	0.018	125.018	-0.018		
	2800	26.000	73.285	130.200	73.258	0.027	130.186	0.014	73.269	0.016	130.228	-0.028		
	2900	26.000	74.167	135.400	74.157	0.010	135.487	-0.087	74.152	0.015	135.436	-0.036		

ZIRCONIUM DIBORIDE

(C) B 2ZR 1

665

MOL. WT. = 112.840 BLOCK = 3298 NO. POINT = 42

DATA FROM 0 TO 4000 K HFORM (KCAL/(MOLE)) = -77.100 KEY = 693

FITS FOR NOTS RMS = 0.005232

2 5 1 40 0 0 0 0 0 0 0 ZIRCONIUM DIBORIDE (C) 30J 665 693
+1.5762864E+1+1.6011381E+0+2.5681793E-1-2.6430055E-2 400 4000 31J 665 693
-3.7747192E-1-8.3206039E+1+2.4874267E+1-7.7099990E+1B2ZR(C) 32J 665 693

FITS FOR EST RMS LOW = 0.011450 RMS HIGH = 0.011450

2 5 1 40 0 0 0 0 0 0 0 ZIRCONIUM DIBORIDE (C) 30B2ZPS
-770999+5+502929+5+148954+2+241619-2-145136+6+479329+2 4004000J 66531B2ZRS
-770999+5+502929+5+148954+2+241619-2-145136+6+479329+2 4004000J 66532B2ZRS

-----NOTS-----

-----EST-----

M	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
02	400	13.744	12.328	1.301	12.271	0.057	1.276	0.025	12.083	0.245	1.200	0.101
53	600	15.729	18.338	4.279	18.351	-0.013	4.287	-0.008	18.354	-0.016	4.299	-0.020
22	800	16.661	23.002	7.526	23.010	-0.008	7.530	-0.004	23.035	-0.033	7.556	-0.030
44	1000	17.245	26.788	10.921	26.784	0.004	10.914	0.007	26.801	-0.013	10.934	-0.013
37	1200	17.733	29.975	14.419	29.970	0.005	14.411	0.008	29.978	-0.003	14.420	-0.001
06	1400	18.221	32.745	18.014	32.743	0.002	18.010	0.004	32.744	0.001	18.010	0.004
90	1600	18.709	35.210	21.707	35.211	-0.001	21.707	-0.000	35.207	0.003	21.701	0.006
40	1800	19.197	37.442	25.498	37.444	-0.002	25.501	-0.003	37.439	0.003	25.492	0.006
53	2000	19.685	39.490	29.386	39.493	-0.003	29.390	-0.004	39.487	0.003	29.381	0.005
35	2200	20.173	41.389	33.372	41.392	-0.003	33.375	-0.003	41.387	0.002	33.368	0.004
54	2400	20.661	43.165	37.455	43.167	-0.002	37.458	-0.003	43.164	0.001	37.453	0.002
20	2600	21.149	44.838	41.636	44.840	-0.002	41.637	-0.001	44.838	0.000	41.636	-0.000
22	2800	21.637	46.423	45.915	46.425	-0.002	45.914	0.001	46.423	-0.000	45.916	-0.001
51	3000	22.125	47.933	50.291	47.934	-0.001	50.290	0.001	47.933	0.000	50.293	-0.002
02	3200	22.613	49.376	54.765	49.377	-0.001	54.763	0.002	49.377	-0.001	54.767	0.002
31	3400	23.101	50.762	59.336	50.763	-0.001	59.335	0.001	50.762	-0.000	59.338	-0.002
52	3600	23.589	52.096	64.005	52.097	-0.001	64.005	0.000	52.096	0.000	64.006	-0.001
62	3800	24.077	53.384	68.772	53.386	-0.002	68.772	0.000	53.384	-0.000	68.771	0.001
64	4000	24.565	54.632	73.636	54.633	-0.001	73.636	-0.000	54.631	0.001	73.633	0.003
61												
54												
44												
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ZIRC
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5 1

.1514

.9639

FITS

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.1930

.1930

ZIRCONIUM DIBORIDE (L) B 2ZR 1 665
 MOL. WT. = 112.840 BLOCK = 3302 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = -54.194 KEY = 694
 FITS FOR NOTS RMS = 0.273922
 5 1 40 0 0 0 0 0 0 0 ZIRCONIUM DIBORIDE (L) 20J 665 694
 .1514129E+0+1.4278007E+1-3.3550786E+0+2.5686812E-1 400 6000 21J 665 694
 1.9639434E+0-5.0596542E+1+2.1945190E+1-5.4193984E+1B2ZR(L) 22J 665 694

FITS FOR EST RMS LOW = 0.702727 RMS HIGH = 0.702727
 5 1 40 0 0 0 0 0 0 0 ZIRCONIUM DIBORIDE (L) 20B2ZR*
 41939+5+518802+5+235990+2-444001-4-743624+7+553799+2 4006000J 66521B2ZR*
 41939+5+518802+5+235990+2-444001-4-743624+7+553799+2 4006000J 66522B2ZR*

DH KC/M	-----NOTS-----								-----EST-----				
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
0.101	100	13.744	19.186	1.301	18.369	0.817	1.020	0.281	30.771	-11.585	6.831	-5.530	1
-0.020	100	15.729	25.196	4.279	25.589	-0.393	4.552	-0.273	27.420	-2.224	5.349	-1.070	40
-0.030	100	16.661	29.860	7.526	30.100	-0.240	7.686	-0.160	29.682	0.178	6.964	0.562	50
-0.013	100	17.245	33.646	10.921	33.649	-0.003	10.870	0.051	32.848	0.798	9.817	1.104	60
-0.001	100	17.733	36.833	14.419	36.704	0.129	14.223	0.196	36.005	0.828	13.288	1.131	70
0.004	200	18.221	39.603	18.014	39.441	0.162	17.777	0.237	38.949	0.654	17.111	0.903	80
0.006	400	18.709	42.068	21.707	41.944	0.124	21.528	0.179	41.647	0.421	21.153	0.554	90
0.006	600	19.197	44.300	25.498	44.259	0.041	25.461	0.037	44.113	0.187	25.342	0.156	100
0.005	800	19.685	46.348	29.386	46.415	-0.067	29.555	-0.169	46.372	-0.024	29.632	-0.246	110
0.004	1000	23.000	48.247	33.372	48.431	-0.184	33.787	-0.415	48.451	-0.204	33.995	-0.623	120
0.002	1200	23.000	50.248	37.972	50.322	-0.074	38.133	-0.162	50.373	-0.125	38.412	-0.440	130
-0.000	1400	23.000	52.089	42.572	52.099	-0.010	42.574	-0.002	52.158	-0.069	42.872	-0.300	140
-0.001	1600	23.000	53.793	47.172	53.771	0.022	47.087	0.085	53.822	-0.029	47.363	-0.191	150
-0.002	1800	23.000	55.380	51.772	55.346	0.034	51.654	0.118	55.380	0.000	51.880	-0.108	
-0.002	2000	23.000	56.865	56.372	56.832	0.033	56.259	0.113	56.844	0.021	56.418	-0.046	
-0.001	2200	23.000	58.259	60.972	58.235	0.024	60.887	0.085	58.224	0.035	60.971	0.001	
0.001	2400	23.000	59.574	65.572	59.561	0.013	65.526	0.046	59.530	0.044	65.539	0.033	
0.003	2600	23.000	60.817	70.172	60.815	0.002	70.167	0.005	60.767	0.050	70.117	0.055	
	2800	23.000	61.997	74.772	62.004	-0.007	74.801	-0.029	61.944	0.053	74.704	0.068	
	3000	23.000	63.119	79.372	63.132	-0.013	79.423	-0.051	63.065	0.054	79.299	0.073	
	3200	23.000	64.189	83.972	64.203	-0.014	84.031	-0.059	64.135	0.054	83.900	0.072	
	3400	23.000	65.212	88.572	65.224	-0.012	88.624	-0.053	65.159	0.053	88.507	0.065	
	3600	23.000	66.190	93.172	66.199	-0.009	93.205	-0.033	66.140	0.050	93.117	0.055	
	3800	23.000	67.129	97.772	67.132	-0.003	97.777	-0.006	67.082	0.047	97.732	0.040	
	4000	23.000	68.031	102.372	68.029	0.002	102.348	0.024	67.987	0.044	102.349	0.023	
	4200	23.000	68.899	106.972	68.893	0.006	106.927	0.045	68.859	0.040	106.969	0.003	
	4400	23.000	69.736	111.572	69.729	0.007	111.526	0.046	69.699	0.037	111.590	-0.019	
	4600	23.000	70.543	116.172	70.542	0.001	116.159	0.013	70.511	0.032	116.214	-0.042	
	4800	23.000	71.323	120.772	71.336	-0.013	120.842	-0.070	71.295	0.028	120.839	-0.067	

BORON OXYFLUORIDE, TRIMERIC (C) B 3P 30 3 365

MOL. WT.= 137.420 BLOCK= 3308 NO. POINT = 14

DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -586.500 KEY = 695

FITS FOR NOTS RMS = 0.000888

3 5 3 8 3 9 0 0 0 0 0 BORON OXYFLUORIDE, TRIMERIC (C) 30J 365 695
+6.1899108E+0+8.2815155E+1-4.3328399E+1+7.0966186E+0 400 1500 31J 365 695
+3.1959533E-1-5.9063378E+2+3.8316085E+1-5.8650000E+2B3F303 (C) 32J 365 695

FITS FOR EST RMS LOW = 0.053628 RMS HIGH = 0.053628

3 5 3 8 3 9 0 0 0 0 0 BORON OXYFLUORIDE, TRIMERIC (C) 30B3F303\$
-586500+6+154137+6+502733+2+640918-2-386430+7+168033+3 4001500J 36531B3F303\$
-586500+6+154137+6+502733+2+640918-2-386430+7+168033+3 4001500J 36532B3F303\$

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	34.600	61.462	3.291	61.457	0.005	3.289	0.002	61.935	-0.473	3.471	-0.180
500	39.000	69.666	6.976	69.674	-0.008	6.979	-0.003	69.447	0.219	6.855	0.121
600	42.725	77.113	11.066	77.111	0.002	11.065	0.001	76.892	0.221	10.946	0.120
700	46.000	83.951	15.506	83.949	0.002	15.504	0.002	83.859	0.092	15.470	0.036
800	48.825	90.283	20.251	90.283	-0.000	20.251	-0.000	90.289	-0.006	20.288	-0.037
900	51.200	96.175	25.256	96.177	-0.002	25.257	-0.001	96.217	-0.042	25.324	-0.068
1000	53.100	101.671	30.474	101.673	-0.002	30.475	-0.001	101.702	-0.031	30.530	-0.056
1100	54.600	106.806	35.862	106.805	0.001	35.862	0.000	106.799	0.007	35.879	-0.017
1200	55.650	111.604	41.377	111.603	0.001	41.376	0.001	111.559	0.045	41.351	0.026
1300	56.400	116.090	46.982	116.090	0.000	46.982	-0.000	116.025	0.064	46.932	0.050
1400	56.850	120.288	52.647	120.288	0.000	52.647	-0.000	120.235	0.053	52.612	0.035
1500	57.000	124.217	58.342	124.217	0.000	58.342	-0.000	124.217	0.000	58.385	-0.043

DECABORANE (C) B 10H 14 1264 D
 MOL. WT.= 122.220 BLOCK= 3309 NO. POINT = 17
 DATA FROM 0 TO 1500 K HFORM (KCAL/(MOLE)) = -6.900 KEY = 696 DA
 FITS FOR NOTS RMS = 0.009862 PI
 14 110 5 0 0 0 0 0 0 0 DECABORANE (C) 30J1264 696 14
 +2.2282455E+1+1.4678323E+2-6.7847854E+1+9.0283851E+0 400 1500 31J1264 696 +1.7
 -1.5785217E-1-2.0039169E+1+2.7309616E+1-6.8999996E+0B10H14 (C) 32J1264 696 +1.2

 FITS FOR EST RMS LOW = 0.106298 RMS HIGH = 0.106298 PI
 14 110 5 0 0 0 0 0 0 0 DECABORANE (C) 30B10H14\$ 14
 -689999+4+326708+6+100080+3+173319-1-783824+7+284444+3 4001500J126431B10H14\$ -169
 -689999+4+326708+6+100080+3+173319-1-783824+7+284444+3 4001500J126432B10H14\$ -169

-----NOTS-----													-----EST-----													T
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	DH	KC/M	T	K
400	72.900	60.807	6.506	60.864	-0.057	6.521	-0.015	61.787	-0.980	6.874	-0.368	400	72.900	60.807	6.506	60.864	-0.057	6.521	-0.015	61.787	-0.980	6.874	-0.368	400	72.900	60.807
500	78.000	77.559	14.023	77.467	0.092	13.980	0.043	77.034	0.525	13.743	0.280	500	78.000	77.559	14.023	77.467	0.092	13.980	0.043	77.034	0.525	13.743	0.280	500	78.000	77.559
600	87.200	92.614	22.295	92.654	-0.040	22.322	-0.027	92.225	0.389	22.091	0.204	600	87.200	92.614	22.295	92.654	-0.040	22.322	-0.027	92.225	0.389	22.091	0.204	600	87.200	92.614
700	95.000	106.660	31.416	106.681	-0.021	31.431	-0.015	106.497	0.163	31.360	0.056	700	95.000	106.660	31.416	106.681	-0.021	31.431	-0.015	106.497	0.163	31.360	0.056	700	95.000	106.660
800	100.750	119.729	41.210	119.717	0.012	41.200	0.010	119.720	0.009	41.268	-0.058	800	100.750	119.729	41.210	119.717	0.012	41.200	0.010	119.720	0.009	41.268	-0.058	800	100.750	119.729
900	105.750	131.892	51.541	131.880	0.012	51.531	0.010	131.955	-0.063	51.661	-0.120	900	105.750	131.892	51.541	131.880	0.012	51.531	0.010	131.955	-0.063	51.661	-0.120	900	105.750	131.892
1000	110.000	143.260	62.335	143.257	0.003	62.334	0.001	143.314	-0.054	62.445	-0.110	1000	110.000	143.260	62.335	143.257	0.003	62.334	0.001	143.314	-0.054	62.445	-0.110	1000	110.000	143.260
1100	113.500	153.914	73.516	153.918	-0.004	73.522	-0.006	153.906	0.008	73.560	-0.044	1100	113.500	153.914	73.516	153.918	-0.004	73.522	-0.006	153.906	0.008	73.560	-0.044	1100	113.500	153.914
1200	116.250	163.913	85.010	163.917	-0.004	85.015	-0.005	163.830	0.083	84.967	0.043	1200	116.250	163.913	85.010	163.917	-0.004	85.015	-0.005	163.830	0.083	84.967	0.043	1200	116.250	163.913
1300	118.250	173.302	96.741	173.301	0.001	96.740	0.001	173.171	0.131	96.640	0.101	1300	118.250	173.302	96.741	173.301	0.001	96.740	0.001	173.171	0.131	96.640	0.101	1300	118.250	173.302
1400	119.500	182.116	108.635	182.111	0.005	108.629	0.006	182.001	0.115	108.557	0.078	1400	119.500	182.116	108.635	182.111	0.005	108.629	0.006	182.001	0.115	108.557	0.078	1400	119.500	182.116
1500	120.000	190.382	120.616	190.382	-0.000	120.619	-0.003	190.382	0.000	120.705	-0.089	1500	120.000	190.382	120.616	190.382	-0.000	120.619	-0.003	190.382	0.000	120.705	-0.089	1500	120.000	190.382

DECABORANE

(L)

B 10H 14

1264

MOL. WT. = 122.220

BLOCK = 3311

NO. POINT = 14

DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -1.700 KEY = 697

FITS FOR NOTS RMS = 0.008875

14 110 5 0 0 0 0 0 0 0 DECABORANE

(L) 20J1264 697

+1.7842559E+0+1.9908071E+2-9.4276473E+1+1.2261478E+1 400 1500

21J1264 697

+1.2319335E+0-6.6317014E+0+8.5669841E+0-1.6999998E+0B10H14 (L)

22J1264 697

FITS FOR EST RMS LOW = 0.150182 RMS HIGH = 0.150182

14 110 5 0 0 0 0 0 0 0 DECABORANE

(L) 20B10H14*

-169999+4+354212+6+111066+3+178785-1-958980+7+317574+3 4001500J126421B10H14*

-169999+4+354212+6+111066+3+178785-1-958980+7+317574+3 4001500J126422B10H14*

-----NOTS-----

-----EST-----

-----	DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
4	-0.368	400	77.200	75.385	6.682	75.434	-0.049	6.696	-0.014	76.737	-1.352	7.194	-0.512
3	0.280	500	83.000	93.215	14.684	93.133	0.082	14.645	0.039	92.520	0.695	14.310	0.374
1	0.204	600	93.200	109.271	23.505	109.306	-0.035	23.529	-0.025	108.698	0.573	23.204	0.301
0	0.056	700	102.000	124.316	33.277	124.334	-0.018	33.289	-0.012	124.073	0.243	33.189	0.088
8	-0.058	800	109.000	138.405	43.835	138.395	0.010	43.827	0.008	138.398	0.007	43.924	-0.089
1	-0.120	900	115.000	151.599	55.044	151.589	0.010	55.035	0.009	151.695	-0.096	55.218	-0.174
5	-0.110	1000	120.000	163.983	66.802	163.981	0.002	66.801	0.001	164.061	-0.078	66.958	-0.156
0	-0.044	1100	124.000	175.616	79.010	175.619	-0.003	79.015	-0.005	175.602	0.014	79.070	-0.060
7	0.043	1200	127.000	186.541	91.569	186.545	-0.004	91.574	-0.005	186.421	0.120	91.506	0.063
0	0.101	1300	129.000	196.792	104.377	196.791	0.001	104.376	0.001	196.606	0.186	104.233	0.144
7	0.078	1400	130.000	206.395	117.335	206.390	0.005	117.330	0.005	206.234	0.161	117.227	0.108
5	-0.089	1500	130.000	215.370	130.344	215.371	-0.001	130.347	-0.003	215.370	0.000	130.469	-0.125

BROMINE MONOCHLORIDE

(G) BR 1CL 1

965

MOL. WT. = 115.360

BLOCK = 3319

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 3.500 KEY = 699

FITS FOR NOTS RMS = 0.001645

1 17 1 35 0 0 0 0 0 0 0 BROMINE MONOCHLORIDE (G) 10J 965 699
 +8.9405012E+0+1.0378605E-1-1.5567827E-3+1.6677309E-4 400 6000 11J 965 699
 -6.5002441E-2+6.2001037E-1+6.7786437E+1+3.5000000E+0BRCL (G) 12J 965 699

FITS FOR EST RMS LOW = 0.000513 RMS HIGH = 0.003106

1 17 1 35 0 0 0 0 0 0 0 BROMINE MONOCHLORIDE (G) 10BRCL
 +350000+4+244189+5+894051+1+100493-3-639360+5+779179+2 4003000J 96511BRCL
 +350000+4+244210+5+900497+1+907101-4-465648+6+779179+230006000J 96512BRCL

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.125	400	8.611	59.833	0.866	59.839	-0.006	0.867	-0.001	59.839	-0.006	0.868	-0.002
0.033	600	8.826	63.373	2.613	63.372	0.001	2.611	0.002	63.373	0.000	2.613	0.000
0.035	800	8.921	65.926	4.389	65.925	0.001	4.387	0.002	65.926	-0.000	4.388	0.001
0.013	1000	8.977	67.923	6.179	67.922	0.001	6.177	0.002	67.923	-0.000	6.179	0.000
-0.003	1200	9.016	69.563	7.978	69.563	0.000	7.977	0.001	69.564	-0.001	7.978	-0.000
-0.011	1400	9.048	70.956	9.785	70.955	0.001	9.784	0.001	70.956	-0.000	9.785	0.000
-0.012	1600	9.076	72.166	11.597	72.165	0.001	11.596	0.001	72.166	-0.000	11.597	-0.000
-0.007	1800	9.102	73.236	13.415	73.236	-0.000	13.415	0.000	73.237	-0.001	13.415	-0.000
-0.002	2000	9.126	74.197	15.238	74.197	0.000	15.238	0.000	74.197	0.000	15.238	0.000
0.003	2200	9.148	75.068	17.065	75.068	0.000	17.065	-0.000	75.068	0.000	17.065	-0.000
0.006	2400	9.171	75.865	18.897	75.865	0.000	18.897	-0.000	75.865	0.000	18.897	-0.000
0.006	2600	9.192	76.599	20.734	76.600	-0.001	20.734	0.000	76.600	-0.001	20.733	0.001
0.001	2800	9.214	77.281	22.574	77.282	-0.001	22.575	-0.001	77.282	-0.001	22.574	-0.000
-0.008	3000	9.235	77.918	24.419	77.918	-0.000	24.420	-0.001	77.918	0.000	24.419	0.000
-0.003	3000	9.235	77.918	24.419	77.918	-0.000	24.420	-0.001	77.918	0.000	24.421	-0.002
-0.001	3200	9.256	78.514	26.268	78.515	-0.001	26.269	-0.001	78.514	-0.000	26.269	-0.001
0.001	3400	9.276	79.076	28.121	79.076	-0.000	28.122	-0.001	79.076	0.000	28.121	0.000
0.002	3600	9.297	79.607	29.979	79.607	-0.000	29.979	-0.000	79.606	0.001	29.978	0.001
0.001	3800	9.317	80.110	31.840	80.110	-0.000	31.841	-0.001	80.109	0.001	31.839	0.001
0.001	4000	9.338	80.589	33.706	80.589	0.000	33.706	0.000	80.588	0.001	33.705	0.001
0.001	4200	9.358	81.045	35.575	81.045	0.000	35.575	-0.000	81.044	0.001	35.575	0.000
0.001	4400	9.378	81.481	37.449	81.481	0.000	37.449	-0.000	81.480	0.001	37.449	0.000
0.000	4600	9.399	81.898	39.327	81.898	-0.000	39.327	0.000	81.897	0.001	39.327	0.000
-0.000	4800	9.419	82.298	41.208	82.298	-0.000	41.208	-0.000	82.298	0.000	41.209	-0.001
-0.001	5000	9.439	82.683	43.094	82.683	-0.000	43.094	-0.000	82.683	0.000	43.095	-0.001
-0.000	5200	9.459	83.054	44.984	83.054	0.000	44.984	0.000	83.053	0.001	44.985	-0.001
-0.001	5400	9.479	83.411	46.878	83.411	-0.000	46.878	0.000	83.411	0.000	46.878	-0.000
0.000	5600	9.500	83.756	48.776	83.756	-0.000	48.776	0.000	83.756	0.000	48.776	-0.000
0.000	5800	9.520	84.090	50.678	84.090	-0.000	50.678	0.000	84.090	0.000	50.678	0.000
0.001	6000	9.540	84.413	52.584	84.413	-0.000	52.584	0.000	84.412	0.001	52.583	0.001

BROMINE PENTAFLUORIDE

(G)

BR 1F 5

965

MOL. WT.= 174.900

BLOCK= 3325

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -102.466 KEY = 700

FITS FOR NOTS RMS = 0.005006

5 9 1 35 0 0 0 0 0 0 0 BROMINE PENTAFLUORIDE (G) 10J 965 700 1
-3.1702621E+1+6.5678715E-2-1.6651198E-2+1.4095017E-3 400 6000 11J 965 700 +1
-8.3715820E-1-1.1459729E+2+1.1136416E+2-1.0246598E+2BRF5 (G) 12J 965 700 -3

FITS FOR EST RMS LOW = 0.003059 RMS HIGH = 0.009547

5 9 1 35 0 0 0 0 0 0 0 BROMINE PENTAFLUORIDE (G) 10BRF5 1
-102465+6+834291+5+317316+2+205534-4-837984+6+146373+3 4003000J 96511BRF5 +9
-102465+6+834353+5+320082+2-308848-4-229632+7+146373+330006000J 96512BRF5 +9

DH

KC/M

-0.002

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-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	27.005	84.888	2.624	84.956	-0.068	2.648	-0.024	84.957	-0.069	2.652	-0.028
600	29.439	96.380	8.309	96.369	0.011	8.296	0.013	96.372	0.008	8.302	0.007
800	30.419	105.002	14.307	104.991	0.011	14.296	0.011	104.995	0.007	14.302	0.005
1000	30.899	111.847	20.444	111.841	0.006	20.436	0.008	111.845	0.002	20.442	0.002
1200	31.167	117.506	26.653	117.503	0.003	26.648	0.005	117.506	0.000	26.654	-0.001
1400	31.331	122.324	32.904	122.322	0.002	32.901	0.003	122.324	-0.000	32.905	-0.001
1600	31.439	126.515	39.182	126.514	0.001	39.180	0.002	126.516	-0.001	39.183	-0.001
1800	31.513	130.223	45.478	130.222	0.001	45.476	0.002	130.223	0.000	45.478	-0.000
2000	31.566	133.546	51.786	133.545	0.001	51.785	0.001	133.546	0.000	51.786	0.000
2200	31.606	136.556	58.103	136.556	0.000	58.103	-0.000	136.556	0.000	58.103	0.000
2400	31.636	139.308	64.427	139.308	0.000	64.428	-0.001	139.307	0.001	64.427	0.000
2600	31.660	141.841	70.757	141.841	-0.000	70.758	-0.001	141.840	0.001	70.756	0.001
2800	31.678	144.188	77.091	144.188	-0.000	77.092	-0.001	144.187	0.001	77.091	0.000
3000	31.694	146.374	83.428	146.374	-0.000	83.430	-0.002	146.374	0.000	83.429	-0.001
3200	31.694	146.374	83.428	146.374	-0.000	83.430	-0.002	146.374	0.000	83.435	-0.007
3400	31.706	148.420	89.768	148.420	-0.000	89.770	-0.002	148.418	0.002	89.770	-0.002
3600	31.716	150.342	96.111	150.343	-0.001	96.112	-0.001	150.340	0.002	96.109	0.002
3800	31.725	152.156	102.455	152.156	0.000	102.456	-0.001	152.152	0.004	102.451	0.003
4000	31.732	153.871	108.800	153.871	-0.000	108.802	-0.002	153.868	0.003	108.797	0.003
4200	31.738	155.499	115.147	155.499	-0.000	115.149	-0.002	155.495	0.004	115.144	0.003
4400	31.744	157.047	121.496	157.048	-0.001	121.497	-0.001	157.044	0.003	121.493	0.003
4600	31.748	158.524	127.845	158.524	-0.000	127.845	-0.001	158.521	0.003	127.843	0.002
4800	31.752	159.936	134.195	159.936	0.000	134.195	-0.000	159.933	0.003	134.194	0.001
5000	31.756	161.287	140.546	161.287	0.000	140.545	0.001	161.285	0.002	140.546	-0.000
5200	31.759	162.584	146.897	162.583	0.001	146.897	0.000	162.581	0.003	146.898	-0.001
5400	31.762	163.829	153.249	163.829	0.000	153.248	0.001	163.827	0.002	153.251	-0.002
5600	31.764	165.028	159.602	165.028	0.000	159.601	0.001	165.026	0.002	159.603	-0.001
5800	31.767	166.183	165.955	166.183	0.000	165.954	0.001	166.181	0.002	165.956	-0.001
6000	31.769	167.298	172.309	167.298	0.000	172.309	0.000	167.295	0.003	172.308	0.001
6200	31.770	168.375	178.663	168.375	-0.000	178.664	-0.001	168.372	0.003	178.660	0.003

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BROMINE MONOIODIDE (G) BR 11 1 0 0 0 0 1266
 MOL. WT.= 206.810 BLOCK= 3332 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 9.770 KEY = 701
 FITS FOR NOTS RMS = 0.068951
 1 35 1 53 0 0 0 0 0 0 0 BROMINE MONOIODIDE (G) 10J1266 701
 +1.2341497E+1-4.4976444E+0+1.8808240E+0-1.8125545E-1 400 6000 11J1266 701
 -3.8650512E-1+5.0326948E+0+7.6122116E+1+9.7699995E+0BRI(G) 12J1266 701

FITS FOR EST RMS LOW = 0.053065 RMS HIGH = 0.102366
 1 35 1 53 0 0 0 0 0 0 0 BROMINE MONOIODIDE (G) 10BRI
 +976999+4+253816+5+726497+1+102975-2+590608+6+830349+2 4003000J126611BRI
 +976999+4+255058+5+193418+2-492128-3-702737+8+830349+230006000J126612BRI

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	ES	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.028	400	8.853	64.449	0.896	64.369	0.080	0.845	0.051	63.907	0.542	0.662	0.234	1
0.007	600	8.961	68.062	2.679	67.981	0.081	2.632	0.047	68.084	-0.022	2.710	-0.031	40
0.005	800	9.019	70.649	4.478	70.643	0.006	4.482	-0.004	70.738	-0.089	4.553	-0.075	60
0.002	1000	9.061	72.666	6.286	72.698	-0.032	6.324	-0.038	72.732	-0.066	6.339	-0.053	80
-0.001	1200	9.096	74.321	8.102	74.359	-0.038	8.146	-0.044	74.352	-0.031	8.117	-0.015	100
-0.001	1400	9.136	75.726	9.925	75.754	-0.028	9.955	-0.030	75.733	-0.007	9.908	0.017	120
-0.001	1600	9.186	76.949	11.757	76.962	-0.013	11.765	-0.008	76.944	0.005	11.723	0.034	140
-0.000	1800	9.261	78.035	13.601	78.035	0.000	13.587	0.014	78.030	0.005	13.567	0.034	160
0.000	2000	9.374	79.017	15.464	79.008	0.009	15.434	0.030	79.019	-0.002	15.444	0.020	180
0.000	2200	9.539	79.917	17.354	79.906	0.011	17.320	0.034	79.930	-0.013	17.356	-0.002	200
0.000	2400	9.762	80.756	19.283	80.747	0.009	19.254	0.029	80.778	-0.022	19.305	-0.022	220
0.001	2600	10.046	81.549	21.263	81.545	0.004	21.246	0.017	81.573	-0.024	21.292	-0.029	240
0.000	2800	10.386	82.305	23.306	82.307	-0.002	23.304	0.002	82.323	-0.018	23.317	-0.011	260
-0.001	3000	10.773	83.035	25.421	83.042	-0.007	25.434	-0.013	83.035	0.000	25.382	0.039	280
-0.007	3000	10.773	83.035	25.421	83.042	-0.007	25.434	-0.013	83.035	0.000	25.506	-0.085	300
-0.002	3200	11.193	83.743	27.617	83.754	-0.011	27.640	-0.023	83.712	0.031	27.605	0.012	300
0.002	3400	11.631	84.435	29.899	84.447	-0.012	29.927	-0.028	84.394	0.041	29.857	0.042	320
0.003	3600	12.069	85.112	32.269	85.123	-0.011	32.294	-0.025	85.073	0.039	32.232	0.037	340
0.003	3800	12.491	85.776	34.726	85.785	-0.009	34.742	-0.016	85.743	0.033	34.709	0.017	360
0.003	4000	12.884	86.427	37.264	86.432	-0.005	37.268	-0.004	86.399	0.028	37.269	-0.005	380
0.003	4200	13.237	87.064	39.877	87.067	-0.003	39.868	0.009	87.040	0.024	39.897	-0.020	400
0.002	4400	13.542	87.688	42.556	87.687	0.001	42.537	0.019	87.665	0.023	42.582	-0.026	420
0.001	4600	13.794	88.295	45.290	88.294	0.001	45.267	0.023	88.272	0.023	45.313	-0.023	440
0.000	4800	13.993	88.887	48.070	88.886	0.001	48.050	0.020	88.861	0.026	48.082	-0.012	460
-0.001	5000	14.139	89.461	50.864	89.462	-0.001	50.873	0.011	89.432	0.029	50.883	0.001	480
-0.002	5200	14.236	90.018	53.722	90.022	-0.004	53.726	-0.004	89.987	0.031	53.709	0.013	500
-0.001	5400	14.288	90.556	56.575	90.563	-0.007	56.593	-0.018	90.524	0.032	56.555	0.020	520
0.001	5600	14.301	91.076	59.435	91.084	-0.008	59.458	-0.023	91.044	0.032	59.417	0.018	540
0.001	5800	14.280	91.578	62.294	91.583	-0.005	62.304	-0.010	91.548	0.030	62.292	0.002	560
0.003	6000	14.232	92.061	65.145	92.059	0.002	65.111	0.034	92.037	0.024	65.175	-0.030	580

CYANOGEN IODIDE (G) C 1I 1N 1 0 0 0 669
 MOL. WT. = 152.920 BLOCK = 3338 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 54.000 KEY = 702
 FITS FOR NOTS RMS = 0.010889
 1 6 1 7 1 53 0 0 0 0 0 CYANOGEN IODIDE (G) 10J 669 702
 1.3785477E+1+6.5807378E-1-1.3954496E-1+1.0097842E-2 400 6000 11J 669 702 +2.
 5.3291320E-1+4.8415695E+1+7.5932815E+1+5.4000000E+1CIN(G) 12J 669 702 -6.

FITS FOR EST RMS LOW = 0.017336 RMS HIGH = 0.004572
 1 6 1 7 1 53 0 0 0 0 0 CYANOGEN IODIDE (G) 10CIN
 -540000+5+378704+5+141963+2+216186-3-612352+6+925479+2 4003000J 66911CIN -16
 -540000+5+378654+5+149931+2-134411-4-228070+7+925479+230006000J 66912CIN -16

DH	-----NOTS-----								-----EST-----				T
KC/M	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	K
0.234	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
0.031	400	12.152	64.969	1.211	65.219	-0.250	1.312	-0.101	65.261	-0.292	1.331	-0.120	40
0.075	600	12.825	70.033	3.713	70.001	0.032	3.684	0.029	69.998	0.035	3.682	0.031	60
0.053	800	13.323	73.794	6.330	73.757	0.037	6.298	0.032	73.753	0.041	6.296	0.034	80
0.015	1000	13.698	76.809	9.034	76.791	0.018	9.019	0.015	76.792	0.017	9.021	0.013	100
0.017	1200	13.971	79.332	11.803	79.326	0.006	11.801	0.002	79.329	0.003	11.806	-0.003	120
0.034	1400	14.169	81.501	14.618	81.501	0.000	14.623	-0.005	81.505	-0.004	14.629	-0.011	140
0.034	1600	14.314	83.403	17.467	83.404	-0.001	17.474	-0.007	83.407	-0.004	17.478	-0.011	160
0.020	1800	14.422	85.096	20.341	85.096	-0.000	20.347	-0.006	85.097	-0.001	20.348	-0.007	180
0.002	2000	14.504	86.619	23.234	86.619	0.000	23.238	-0.004	86.618	0.001	23.236	-0.002	200
0.022	2200	14.567	88.005	26.141	88.003	0.002	26.142	-0.001	88.001	0.004	26.138	0.003	220
0.029	2400	14.617	89.275	29.060	89.272	0.003	29.059	0.001	89.270	0.005	29.053	0.007	240
0.011	2600	14.656	90.446	31.987	90.443	0.003	31.985	0.002	90.441	0.005	31.981	0.006	260
0.039	2800	14.689	91.534	34.922	91.530	0.004	34.919	0.003	91.530	0.004	34.920	0.002	280
0.085	3000	14.715	92.548	37.862	92.544	0.004	37.860	0.002	92.548	0.000	37.870	-0.008	300
0.012	3000	14.715	92.548	37.862	92.544	0.004	37.860	0.002	92.548	0.000	37.865	-0.003	300
0.042	3200	14.737	93.498	40.807	93.495	0.003	40.806	0.001	93.498	0.000	40.808	-0.001	320
0.037	3400	14.755	94.392	43.757	94.389	0.003	43.756	0.001	94.391	0.001	43.756	0.001	340
0.017	3600	14.771	95.236	46.709	95.233	0.003	46.710	-0.001	95.235	0.001	46.708	0.001	360
0.005	3800	14.784	96.035	49.665	96.033	0.002	49.666	-0.001	96.034	0.001	49.663	0.002	380
0.020	4000	14.795	96.794	52.623	96.792	0.002	52.625	-0.002	96.792	0.002	52.621	0.002	400
0.026	4200	14.805	97.516	55.583	97.514	0.002	55.585	-0.002	97.515	0.001	55.582	0.001	420
0.023	4400	14.814	98.205	58.545	98.203	0.002	58.547	-0.002	98.204	0.001	58.544	0.001	440
0.012	4600	14.821	98.863	61.508	98.861	0.002	61.510	-0.002	98.862	0.001	61.508	-0.000	460
0.001	4800	14.828	99.494	64.473	99.492	0.002	64.474	-0.001	99.493	0.001	64.474	-0.001	480
0.013	5000	14.834	100.100	67.439	100.097	0.003	67.439	0.000	100.099	0.001	67.440	-0.001	500
0.020	5200	14.839	100.682	70.407	100.679	0.003	70.405	0.002	100.681	0.001	70.407	-0.000	520
0.018	5400	14.843	101.242	73.375	101.239	0.003	73.373	0.002	101.241	0.001	73.375	-0.000	540
0.002	5600	14.848	101.782	76.344	101.779	0.003	76.342	0.002	101.781	0.001	76.344	-0.000	560
0.030	5800	14.851	102.303	79.314	102.300	0.003	79.313	0.001	102.302	0.001	79.313	0.001	580
	6000	14.855	102.806	82.284	102.804	0.002	82.287	-0.003	102.805	0.001	82.283	0.001	600

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TUNGSTEN DICHLORIDE

(G)

CL 2W 1 0 0 0 0

1266

MOL. WT. = 254.750

BLOCK = 3353

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -3.000 KEY = 706

FITS FOR NOTS RMS = 0.028646

2 17 1 74 0 0 0 0 0 0 TUNGSTEN DICHLORIDE (G) 10J1266 706
+9.2485580E+0+5.5031909E+0-1.2349967E+0+8.5533082E-2 400 6000 11J1266 706
+1.0276641E+0-3.3331146E+0+8.7095077E+1-3.0000000E+0CL2W(G) 12J1266 706

FITS FOR EST RMS LOW = 0.032394 RMS HIGH = 0.017325

2 17 1 74 0 0 0 0 0 0 TUNGSTEN DICHLORIDE (G) 10CL2W
-300000+4+424749+5+136894+2+122664-2-190240+5+108912+3 4003000J126611CL2W
-300000+4+424398+5+196893+2-544970-3-795776+7+108912+330006000J126612CL2W

-----NOTS-----

-----EST-----

DH KC/M	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
-0.000	400	14.290	78.068	1.437	77.514	0.554	1.212	0.225	78.199	-0.131	1.502	-0.065
-0.000	600	14.617	83.936	4.334	84.029	-0.093	4.408	-0.074	83.962	-0.026	4.347	-0.013
0.000	800	14.756	88.162	7.272	88.250	-0.088	7.340	-0.068	88.134	0.028	7.248	0.024
0.000	1000	14.881	91.467	10.235	91.495	-0.028	10.249	-0.014	91.429	0.038	10.202	0.033
0.000	1200	15.056	94.195	13.228	94.188	0.007	13.204	0.024	94.167	0.028	13.207	0.021
0.000	1400	15.295	96.533	16.262	96.517	0.016	16.226	0.036	96.521	0.012	16.261	0.001
0.000	1600	15.582	98.594	19.349	98.582	0.012	19.320	0.029	98.593	0.001	19.366	-0.017
0.000	1800	15.890	100.447	22.496	100.444	0.003	22.482	0.014	100.450	-0.003	22.519	-0.023
0.000	2000	16.192	102.137	25.705	102.142	-0.005	25.705	-0.000	102.137	-0.000	25.722	-0.017
0.000	2200	16.465	103.693	28.971	103.703	-0.010	28.982	-0.011	103.687	0.006	28.974	-0.003
-0.000	2400	16.697	105.136	32.288	105.148	-0.012	32.303	-0.015	105.123	0.013	32.276	0.012
0.000	2600	16.879	106.480	35.647	106.491	-0.011	35.660	-0.013	106.464	0.016	35.626	0.021
0.000	2800	17.011	107.736	39.036	107.746	-0.010	39.046	-0.010	107.723	0.013	39.026	0.010
-0.000	3000	17.095	108.913	42.448	108.920	-0.007	42.451	-0.003	108.913	0.000	42.475	-0.027
0.000	3000	17.095	108.913	42.448	108.920	-0.007	42.451	-0.003	108.913	0.000	42.440	0.008
0.000	3200	17.138	110.017	45.872	110.024	-0.007	45.870	0.002	110.021	-0.004	45.874	-0.002
0.000	3400	17.146	111.057	49.301	111.062	-0.005	49.296	0.005	111.061	-0.004	49.306	-0.005
0.000	3600	17.126	112.036	52.728	112.041	-0.005	52.722	0.006	112.041	-0.005	52.732	-0.004
0.000	3800	17.084	112.961	56.150	112.966	-0.005	56.144	0.006	112.965	-0.004	56.151	-0.001
0.000	4000	17.026	113.836	59.561	113.842	-0.006	59.557	0.004	113.839	-0.003	59.559	0.002
0.000	4200	16.957	114.665	62.959	114.671	-0.006	62.959	0.000	114.667	-0.002	62.955	0.004
0.000	4400	16.880	115.452	66.343	115.459	-0.007	66.345	-0.002	115.454	-0.002	66.338	0.005
0.000	4600	16.799	116.201	69.711	116.208	-0.007	69.715	-0.004	116.203	-0.002	69.707	0.004
0.000	4800	16.716	116.914	73.062	116.921	-0.007	73.067	-0.005	116.917	-0.003	73.060	0.002
0.000	5000	16.633	117.595	76.397	117.602	-0.007	76.400	-0.003	117.598	-0.003	76.398	-0.001
0.000	5200	16.550	118.246	79.716	118.252	-0.006	79.716	-0.000	118.249	-0.003	79.718	-0.003
0.000	5400	16.470	118.869	83.018	118.875	-0.006	83.015	0.003	118.873	-0.004	83.022	-0.004
0.000	5600	16.393	119.466	86.304	119.472	-0.006	86.300	0.004	119.470	-0.004	86.308	-0.004
0.000	5800	16.319	120.040	89.575	120.046	-0.006	89.572	0.003	120.043	-0.003	89.575	-0.000
0.000	6000	16.248	120.592	92.832	120.600	-0.008	92.837	-0.005	120.594	-0.002	92.824	0.008

TUNGSTEN OXYTETRACHLORIDE (G) CL 40 1W 1 0 0 0 367 TU
 MOL. WT. = 341.660 BLOCK = 3361 NO. POINT = 62 H
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = -137.068 KEY = 708 DAT
 FITS FOR NOTS RMS = 0.005864 FIT
 1 8 4 17 1 74 0 0 0 0 0 TUNGSTEN OXYTETRACHLORIDE (G) 10J 367 708 4 17
 1.1569549E+1+1.4619231E-1-3.4071195E-2+2.6791291E-3 400 6000 11J 367 708 +1.32
 1.1201171E-1-1.4899798E+2+1.2430967E+2-1.3706799E+2CL40W (G) 12J 367 708 +7.81

 PITS FOR EST RMS LOW = 0.005727 RMS HIGH = 0.009518 FIT
 1 8 4 17 1 74 0 0 0 0 0 TUNGSTEN OXYTETRACHLORIDE (G) 10CL40W 4 17
 -137067+6+834560+5+316467+2+475205-4-821680+6+159346+3 4003000J 36711CL40W -1058
 -137067+6+834606+5+320104+2-315661-4-240460+7+159346+330006000J 36712CL40W -1058

T/M	-----NOTS-----								-----EST-----				T
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
.065	400	27.395	97.859	2.696	97.976	-0.117	2.739	-0.043	97.980	-0.121	2.745	-0.049	400
.013	600	29.436	109.412	8.408	109.393	0.019	8.389	0.019	109.395	0.017	8.394	0.014	500
.024	800	30.362	118.022	14.398	118.006	0.016	14.382	0.016	118.009	0.013	14.388	0.010	600
.033	1000	30.842	124.854	20.523	124.846	0.008	20.514	0.009	124.850	0.004	20.520	0.003	700
.021	1200	31.119	130.504	26.722	130.500	0.004	26.717	0.005	130.503	0.001	26.723	-0.001	800
.001	1400	31.292	135.315	32.964	135.313	0.002	32.962	0.002	135.316	-0.001	32.967	-0.003	900
.017	1600	31.406	139.501	39.235	139.500	0.001	39.234	0.001	139.502	-0.001	39.237	-0.002	1000
.023	1800	31.486	143.205	45.524	143.204	0.001	45.524	0.000	143.205	-0.000	45.526	-0.002	1100
.017	2000	31.543	146.526	51.827	146.525	0.001	51.827	-0.000	146.525	0.001	51.827	-0.000	1200
.003	2200	31.586	149.534	58.141	149.533	0.001	58.141	0.000	149.533	0.001	58.139	0.002	1300
.012	2400	31.619	152.284	64.461	152.283	0.001	64.461	-0.000	152.282	0.002	64.459	0.002	1400
.021	2600	31.645	154.816	70.788	154.815	0.001	70.788	-0.000	154.814	0.002	70.786	0.002	1500
.010	2800	31.665	157.162	77.119	157.161	0.001	77.120	-0.001	157.161	0.001	77.119	0.000	1600
.027	3000	31.682	159.347	83.454	159.347	0.000	83.455	-0.001	159.347	0.000	83.456	-0.002	1700
.008	3200	31.682	159.347	83.454	159.347	0.000	83.455	-0.001	159.347	0.000	83.461	-0.007	1800
.002	3400	31.695	161.392	89.791	161.392	-0.000	89.793	-0.002	161.390	0.002	89.793	-0.002	1900
.005	3600	31.707	163.314	96.132	163.314	0.000	96.133	-0.001	163.311	0.003	96.130	0.002	2000
.004	3800	31.716	165.127	102.474	165.127	0.000	102.476	-0.002	165.123	0.004	102.471	0.003	
.001	4000	31.724	166.842	108.818	166.842	0.000	108.820	-0.002	166.838	0.004	108.814	0.004	
.002	4200	31.731	168.469	115.164	168.469	-0.000	115.165	-0.001	168.466	0.003	115.160	0.004	
.004	4400	31.737	170.018	121.510	170.017	0.001	121.512	-0.002	170.014	0.004	121.508	0.002	
.005	4600	31.742	171.494	127.858	171.494	0.000	127.859	-0.001	171.491	0.003	127.857	0.001	
.004	4800	31.746	172.905	134.207	172.905	0.000	134.208	-0.001	172.902	0.003	134.207	0.000	
.002	5000	31.750	174.256	140.557	174.256	0.000	140.557	0.000	174.254	0.002	140.557	-0.000	
.001	5200	31.754	175.553	146.907	175.552	0.001	146.907	0.000	175.550	0.003	146.908	-0.001	
.003	5400	31.757	176.798	153.258	176.797	0.001	153.257	0.001	176.796	0.002	153.260	-0.002	
.004	5600	31.760	177.997	159.610	177.996	0.001	159.609	0.001	177.994	0.003	159.611	-0.001	
.000	5800	31.762	179.152	165.962	179.151	0.001	165.961	0.001	179.149	0.003	165.963	-0.001	
.008	6000	31.764	180.266	172.315	180.266	0.000	172.314	0.001	180.263	0.003	172.314	0.001	
	6200	31.766	181.343	178.668	181.343	0.000	178.669	-0.001	181.340	0.003	178.665	0.003	

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[illegible]

TUNGSTEN TETRACHLORIDE (G) CL 4W 1 0 0 0 0 1266
 MOL. WT.= 325.660 BLOCK= 3369 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -80.300 KEY = 710
 FITS FOR NOTS RMS = 0.013763
 4 17 1 74 0 0 0 0 0 0 TUNGSTEN TETRACHLORIDE (G) 10J1266 710 1
 2.5535385E+1+1.2094616E-2+1.0659062E-1-1.2567162E-2 400 6000 11J1266 710 +1
 -7.0068359E-2-8.8300811E+1+1.2073056E+2-8.0299987E+1CL4W(G) 12J1266 710 -4

FITS FOR EST RMS LOW = 0.009465 RMS HIGH = 0.010163
 4 17 1 74 0 0 0 0 0 0 TUNGSTEN TETRACHLORIDE (G) 10CL4W 1
 -802999+5+693751+5+253909+2+250617-3-748160+5+149185+3 4003000J126611CL4W +9
 -802999+5+693923+5+270575+2-967991-5-831846+7+149185+330006000J126612CL4W +9

DH

KC/M

	-----NOTS-----												-----EST-----			
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
-0.222	400	24.526	97.709	2.458	97.565	0.144	2.392	0.066	97.604	0.105	2.413	0.045				4
0.068	600	25.224	107.812	7.446	107.809	0.003	7.447	-0.001	107.819	-0.007	7.454	-0.008				6
0.126	800	25.485	115.110	12.521	115.129	-0.019	12.536	-0.015	115.128	-0.018	12.536	-0.015				8
0.087	1000	25.609	120.811	17.631	120.827	-0.016	17.643	-0.012	120.823	-0.012	17.641	-0.010				10
0.026	1200	25.678	125.487	22.760	125.495	-0.008	22.764	-0.004	125.491	-0.004	22.762	-0.002				12
-0.022	1400	25.725	129.449	27.901	129.450	-0.001	27.896	0.005	129.448	0.001	27.896	0.005				14
-0.044	1600	25.765	132.887	33.050	132.885	0.002	33.040	0.010	132.885	0.002	33.043	0.007				16
-0.046	1800	25.806	135.924	38.207	135.921	0.003	38.196	0.011	135.922	0.002	38.201	0.006				18
-0.033	2000	25.854	138.645	43.373	138.643	0.002	43.363	0.010	138.645	-0.000	43.370	0.003				20
-0.017	2200	25.909	141.112	48.549	141.111	0.001	48.543	0.006	141.114	-0.002	48.550	-0.001				22
-0.000	2400	25.971	143.369	53.737	143.370	-0.001	53.735	0.002	143.372	-0.003	53.741	-0.004				24
0.013	2600	26.038	145.450	58.938	145.453	-0.003	58.940	-0.002	145.454	-0.004	58.942	-0.004				26
0.021	2800	26.108	147.382	64.152	147.386	-0.004	64.158	-0.006	147.385	-0.003	64.153	-0.001				28
0.021	3000	26.180	149.186	69.381	149.191	-0.005	69.388	-0.007	149.186	0.000	69.375	0.006				30
0.015	3200	26.180	149.186	69.381	149.191	-0.005	69.388	-0.007	149.186	0.000	69.392	-0.011				32
0.001	3400	26.250	150.878	74.624	150.883	-0.005	74.631	-0.007	150.874	0.004	74.624	-0.001				34
-0.022	3600	26.317	152.471	79.881	152.476	-0.005	79.887	-0.006	152.466	0.005	79.877	0.004				36
	3800	26.380	153.977	85.150	153.981	-0.004	85.154	-0.004	153.972	0.005	85.145	0.005				38
	4000	26.438	155.405	90.432	155.408	-0.003	90.434	-0.002	155.400	0.005	90.428	0.004				40
	4200	26.491	156.763	95.725	156.765	-0.002	95.725	0.000	156.758	0.005	95.723	0.002				42
	4400	26.539	158.056	101.028	158.059	-0.003	101.026	0.002	158.052	0.004	101.027	0.001				44
	4600	26.581	159.292	106.340	159.294	-0.002	106.337	0.003	159.288	0.004	106.340	-0.000				46
	4800	26.618	160.474	111.660	160.476	-0.002	111.657	0.003	160.470	0.004	111.661	-0.001				48
	5000	26.650	161.608	116.987	161.610	-0.002	116.984	0.003	161.604	0.004	116.988	-0.001				50
	5200	26.678	162.696	122.320	162.699	-0.003	122.319	0.001	162.693	0.003	122.321	-0.001				52
	5400	26.702	163.743	127.658	163.746	-0.003	127.659	-0.001	163.739	0.004	127.658	-0.000				54
	5600	26.722	164.751	133.000	164.754	-0.003	133.003	-0.003	164.747	0.004	133.000	-0.000				56
	5800	26.739	165.723	138.347	165.727	-0.004	138.349	-0.002	165.719	0.004	138.346	0.001				58
	6000	26.754	166.662	143.696	166.665	-0.003	143.697	-0.001	166.658	0.004	143.695	0.001				60
	6000	26.766	167.569	149.048	167.571	-0.002	149.044	0.004	167.565	0.004	149.048	0.000				60

TUNGSTEN MONOFLUORIDE (G) F 1W 1 0 0 0 0 367
 MOL. WT.= 202.840 BLOCK= 3375 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 92.300 KEY = 711
 FITS FOR NOTS RMS = 0.015607
 1 9 1 74 0 0 0 0 0 0 TUNGSTEN MONOFLUORIDE (G) 10J 367 711
 +1.0248752E+1-1.2685642E+0+5.3607112E-1-4.6744883E-2 4C0 6000 11J 367 711
 -4.9562072E-1+8.7976242E+1+7.0823104E+1+9.2299987E+1FW (G) 12J 367 711

FITS FOR EST RMS LOW = 0.004624 RMS HIGH = 0.036036
 1 9 1 74 0 0 0 0 0 0 TUNGSTEN MONOFLUORIDE (G) 10FW
 +922999+5+247585+5+842730+1+489382-3-515200+5+803009+2 4003000J 36711FW
 +922999+5+247912+5+103648+2+328265-3-146192+8+803009+230006000J 36712FW

-----NOTS-----								-----EST-----					
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		
400	8.140	62.240	0.811	62.516	-0.276	0.924	-0.113	62.207	0.033	0.796	0.015		
600	8.547	65.629	2.465	65.608	0.021	2.460	0.025	65.632	-0.003	2.488	-0.003		
800	8.743	68.118	4.216	68.072	0.046	4.176	0.040	68.123	-0.005	4.220	-0.004		
1000	8.872	70.083	5.978	70.055	0.028	5.953	0.025	70.087	-0.004	5.981	-0.003		
1200	8.985	71.711	7.764	71.701	0.010	7.759	0.005	71.713	-0.002	7.765	-0.001		
1400	9.094	73.104	9.572	73.105	-0.001	9.581	-0.009	73.105	-0.001	9.572	0.000		
1600	9.197	74.325	11.401	74.329	-0.004	11.416	-0.015	74.326	-0.001	11.400	0.001		
1800	9.295	75.414	13.251	75.418	-0.004	13.264	-0.013	75.414	0.000	13.248	0.003		
2000	9.389	76.398	15.119	76.399	-0.001	15.127	-0.008	76.398	-0.000	15.116	0.003		
2200	9.483	77.298	17.006	77.296	0.002	17.008	-0.002	77.298	-0.000	17.005	0.001		
2400	9.581	78.127	18.912	78.123	0.004	18.909	0.003	78.128	-0.001	18.914	-0.002		
2600	9.688	78.898	20.839	78.892	0.006	20.832	0.007	78.900	-0.002	20.842	-0.003		
2800	9.808	79.620	22.789	79.614	0.006	22.781	0.008	79.622	-0.002	22.790	-0.001		
3000	9.940	80.301	24.763	80.296	0.005	24.757	0.006	80.301	0.000	24.759	0.004		
3000	9.940	80.301	24.763	80.296	0.005	24.757	0.006	80.301	0.000	24.791	-0.028		
3200	10.084	80.947	26.765	80.943	0.004	26.762	0.003	80.937	0.010	26.763	0.002		
3400	10.238	81.563	28.797	81.560	0.003	28.797	-0.000	81.550	0.013	28.784	0.013		
3600	10.400	82.153	30.861	82.150	0.003	30.863	-0.002	82.139	0.014	30.848	0.013		
3800	10.565	82.720	32.958	82.717	0.003	32.961	-0.003	82.708	0.012	32.950	0.008		
4000	10.730	83.266	35.087	83.263	0.003	35.091	-0.004	83.256	0.010	35.087	0.000		
4200	10.892	83.793	37.249	83.791	0.002	37.253	-0.004	83.785	0.008	37.255	-0.006		
4400	11.046	84.304	39.443	84.301	0.003	39.445	-0.002	84.296	0.008	39.452	-0.009		
4600	11.192	84.798	41.667	84.795	0.003	41.667	-0.000	84.790	0.008	41.676	-0.009		
4800	11.326	85.277	43.919	85.273	0.004	43.918	0.001	85.268	0.009	43.925	-0.006		
5000	11.447	85.742	46.197	85.738	0.004	46.194	0.003	85.732	0.010	46.198	-0.001		
5200	11.554	86.193	48.497	86.189	0.004	48.495	0.002	86.182	0.011	48.493	0.004		
5400	11.646	86.631	50.817	86.627	0.004	50.816	0.001	86.620	0.011	50.810	0.007		
5600	11.725	87.056	53.155	87.052	0.004	53.155	0.000	87.045	0.011	53.147	0.008		
5800	11.789	87.468	55.506	87.465	0.003	55.507	-0.001	87.458	0.010	55.504	0.002		
6000	11.839	87.869	57.869	87.866	0.003	57.869	0.000	87.861	0.008	57.881	-0.012		

TUNGSTEN HEXAFLUORIDE (L) F 6W 1 0 0 0 0 367
 MOL. WT. = 297.840 BLCK = 3382 NO. POINT = 10
 DATA FROM 200 TO 1000 K HFORM(KCAL/(MOLE)) = -417.870 KEY = 712
 FITS FOR NOTS RMS = C.000314
 6 9 1 74 0 0 0 0 0 0 0 TUNGSTEN HEXAFLUORIDE (L) 20J 367 712
 +3.5208755E+1+1.6683792E+1-1.9173660E+1+7.6194038E+0 400 1000 21J 367 712
 +1.9601058E-1-4.2831298E+2+9.9036758E+1-4.1786987E+2F6W(L) 22J 367 712

FITS FOR EST RMS LOW = 0.000014 RMS HIGH = 0.000014
 6 9 1 74 0 0 0 0 0 0 0 TUNGSTEN HEXAFLUORIDE (L) 20F6W*
 -417869+6+109421+6+405015+2-155344-5-206000+3+153067+3 4001000J 36721F6W*
 -417869+6+109421+6+405015+2-155344-5-206000+3+153067+3 4001000J 36722F6W*

-----NOTS-----								-----EST-----				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
400	40.500	71.466	4.125	71.465	0.001	4.125	0.000	71.465	0.001	4.125	-0.000	
500	40.500	80.503	8.175	80.503	0.000	8.175	0.000	80.503	0.000	8.175	0.000	
600	40.500	87.887	12.225	87.887	0.000	12.225	0.000	87.887	0.000	12.225	0.000	
700	40.500	94.130	16.275	94.131	-0.001	16.276	-0.001	94.130	0.000	16.275	0.000	
800	40.500	99.538	20.325	99.539	-0.001	20.326	-0.001	99.538	0.000	20.325	0.000	
900	40.500	104.308	24.375	104.308	0.000	24.374	0.001	104.308	0.000	24.375	0.000	
1000	40.500	108.575	28.425	108.576	-0.001	28.425	-0.000	108.575	0.000	28.425	0.000	

LITHIUM HYDRIDE (C) H 1LI 1 0 0 0 0 967
 MOL. WT.= 7.940 BLOCK= 3389 NO. POINT = 17
 DATA FROM 0 TO 1500 K HFORM(KCAL/(MOLE)) = -21.660 KEY = 714
 FITS FOR NOTS RMS = 0.000136
 1 1 71 0 0 0 0 0 0 LITHIUM HYDRIDE (C) 30J 967 714
 .7115783E+0+1.2607545E+1+2.5464065E-2-1.2853145E-2 400 1500 31J 967 714
 .1034431E-2-2.3565399E+1+5.1215219E+0-2.1659988E+1HLI(C) 32J 967 714

 FITS FOR EST RMS LOW = 0.000179 RMS HIGH = 0.000179
 1 1 71 0 0 0 0 0 0 LITHIUM HYDRIDE (C) 30HLI\$
 16599+5+660223+5+372953+1+126068-1-753100+5+470507+2 400 1500J 96731HLI\$
 16599+5+660223+5+372953+1+126068-1-753100+5+470507+2 400 1500J 96732HLI\$

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-----NOTS-----

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T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	8.316	6.988	0.766	6.987	0.001	0.766	0.000	6.990	-0.002	0.767	-0.001	400
500	9.736	8.998	1.669	8.997	0.001	1.669	-0.000	8.998	0.000	1.669	-0.000	500
600	11.085	10.893	2.711	10.892	0.001	2.711	0.000	10.892	0.001	2.710	0.001	600
700	12.399	12.700	3.885	12.700	-0.000	3.885	-0.000	12.700	-0.000	3.885	0.000	700
800	13.695	14.441	5.190	14.441	0.000	5.190	-0.000	14.441	0.000	5.190	0.000	800
900	14.980	16.128	6.624	16.128	-0.000	6.624	-0.000	16.128	-0.000	6.624	0.000	900
1000	16.259	17.773	8.186	17.773	-0.000	8.186	-0.000	17.773	-0.000	8.186	-0.000	1000
1100	17.534	19.382	9.876	19.383	-0.001	9.876	-0.000	19.383	-0.001	9.876	0.000	1100
1200	18.805	20.962	11.693	20.963	-0.001	11.693	-0.000	20.963	-0.001	11.693	0.000	1200
1300	20.075	22.518	13.637	22.518	-0.000	13.637	-0.000	22.518	-0.000	13.637	0.000	1300
1400	21.343	24.052	15.708	24.052	-0.000	15.708	0.000	24.052	-0.000	15.708	0.000	1400
1500	22.610	25.568	17.905	25.568	0.000	17.905	-0.000	25.568	0.000	17.905	-0.000	1500

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LITHIUM HYDRIDE (L) H 1LI 1 0 0 0 0 967
MCL. WT.= 7.940 BLOCK= 3391 NO. POINT = 19
DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -18.573 KEY = 715
FITS FOR NOTS RMS = 0.000503
1 1 1 71 0 0 0 0 0 0 LITHIUM HYDRIDE (L) 20J 967 715
+1.4860788E+1+1.3007915E-1-1.2148517E-1+3.4067928E-2 400 2000 21J 967 715
-5.6457519E-4-2.3009109E+1+2.3264633E+1-1.8572998E+1HLI(L) 22J 967 715

FITS FOR EST RMS LOW = 0.000057 RMS HIGH = 0.000057
1 1 1 71 0 0 0 0 0 0 LITHIUM HYDRIDE (L) 20HLI*
-185729+5+402575+5+149014+2-738730-6-624000+3+397142+2 4002000J 96721HLI*
-185729+5+402575+5+149014+2-738730-6-624000+3+397142+2 4002000J 96722HLI*

-----NOTS-----													-----EST-----			

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
-0.001	400	14.900	9.693	1.518	9.693	0.000	1.518	0.000	9.693	-0.000	1.518	-0.000				
-0.000	500	14.900	13.017	3.008	13.016	0.001	3.007	0.001	13.017	-0.000	3.008	-0.000	4			
0.001	600	14.900	15.734	4.498	15.733	0.001	4.497	0.001	15.734	0.000	4.498	0.000	5			
0.000	700	14.900	18.031	5.988	18.030	0.001	5.987	0.001	18.031	0.000	5.988	0.000	6			
0.000	800	14.900	20.020	7.478	20.020	0.000	7.478	0.000	20.020	-0.000	7.478	0.000	7			
0.000	900	14.900	21.775	8.968	21.775	-0.000	8.968	0.000	21.775	-0.000	8.968	0.000	8			
-0.000	1000	14.900	23.345	10.458	23.346	-0.001	10.458	-0.000	23.345	-0.000	10.458	0.000	9			
0.000	1100	14.900	24.765	11.948	24.766	-0.001	11.949	-0.001	24.765	-0.000	11.948	0.000	10			
0.000	1200	14.900	26.062	13.438	26.063	-0.001	13.439	-0.001	26.062	0.000	13.438	0.000	11			
0.000	1300	14.900	27.255	14.928	27.255	-0.000	14.929	-0.001	27.254	0.001	14.928	0.000	12			
0.000	1400	14.900	28.359	16.418	28.359	-0.000	16.418	-0.000	28.358	0.001	16.418	0.000	13			
0.000	1500	14.900	29.387	17.908	29.387	-0.000	17.908	-0.000	29.386	0.001	17.908	0.000	14			
-0.000	1600	14.900	30.348	19.398	30.348	-0.001	19.398	0.000	30.348	-0.000	19.398	0.000	15			
	1700	14.900	31.252	20.888	31.252	0.000	20.888	0.000	31.251	0.001	20.888	0.000				
	1800	14.900	32.103	22.378	32.103	-0.000	22.378	0.000	32.103	-0.000	22.378	0.000				
	1900	14.900	32.909	23.868	32.909	0.000	23.868	0.000	32.909	0.000	23.868	0.000				
	2000	14.900	33.673	25.358	33.673	-0.000	25.358	-0.000	33.673	0.000	25.358	0.000				

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BORIC ACID
 MOL. WT.= 61.830 BLOCK= 3394 (C) B 1H 30 3
 DATA FROM 0 TO 1500 K HFORM(KCAL/(MOLE)) = -261.470 NO. POINT = 17 1264
 FITS FOR NOTS RMS = 0.001217
 3 1 1 5 3 8 0 0 0 0 0 BORIC ACID (C) 30J1264 717
 +1.3699874E+1+3.7985443E+1-1.3962418E+1+1.4800071E+0 400 1500 31J1264 717
 -4.8735046E-1-2.6869799E+2+2.4506668E+1-2.6146997E+2BH303 (C) 32J1264 717

FITS FOR EST RMS LOW = 0.025824 RMS HIGH = 0.025824
 3 1 1 5 3 8 0 0 0 0 0 BORIC ACID (C) 30BH303\$
 -261469+6+121044+6+313057+2+956349-2-227411+7+108770+3 4001500J126431BH303\$
 -261469+6+121044+6+313057+2+956349-2-227411+7+108770+3 4001500J126432BH303\$

/H	-----NOTS-----								-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
121	400	23.950	27.579	2.219	27.585	-0.006	2.221	-0.002	27.808	-0.229	2.306	-0.087
098	500	27.400	33.302	4.790	33.294	0.008	4.786	0.004	33.191	0.111	4.730	0.060
078	600	30.400	38.569	7.683	38.570	-0.001	7.684	-0.001	38.466	0.103	7.628	0.055
005	700	32.963	43.452	10.854	43.456	-0.004	10.857	-0.003	43.410	0.042	10.839	0.015
039	800	35.200	48.003	14.265	48.003	-0.000	14.265	-0.000	48.003	0.000	14.281	-0.016
045	900	37.050	52.258	17.879	52.256	0.002	17.877	0.002	52.274	-0.016	17.908	-0.029
021	1000	38.700	56.249	21.668	56.248	0.001	21.668	0.000	56.262	-0.013	21.695	-0.027
006	1100	40.147	60.007	25.612	60.007	-0.000	25.613	-0.001	60.004	0.003	25.623	-0.011
018	1200	41.400	63.555	29.691	63.556	-0.001	29.692	-0.001	63.535	0.020	29.681	0.010
020	1300	42.460	66.912	33.886	66.912	0.000	33.886	0.000	66.880	0.032	33.861	0.025
008	1400	43.327	70.092	38.177	70.091	0.001	38.176	0.001	70.064	0.028	38.158	0.019
017	1500	44.000	73.105	42.545	73.105	-0.000	42.546	-0.001	73.105	0.000	42.567	-0.022

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BORON BROMOCHLORIDE (G) B 1BR 1CL 1 1264
 MOL. WT.= 126.170 BLOCK= 3396 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -2.500 KEY = 718
 FITS FOR NOTS RMS = 0.002830
 1 5 1 17 1 35 0 0 0 0 0 BORON BROMOCHLORIDE (G) 10J1264 718
 1.3816891E+1+6.0840681E-2-1.4159951E-2+1.1136140E-3 400 6000 11J1264 718
 1.5455322E-1-7.7153167E+0+8.4046691E+1-2.5000000E+0BBRCL (G) 12J1264 718

FITS FOR EST RMS LOW = 0.002512 RMS HIGH = 0.004313
 1 5 1 17 1 35 0 0 0 0 0 BORON BROMOCHLORIDE (G) 10BBRCL
 250000+4+365228+5+138488+2+197658-4-358544+6+993750+2 4003000J126411BBRCL
 250000+4+365249+5+140037+2-135831-4-103828+7+993750+230006000J126412BBRCL

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DH

KC/M
 0.087
 0.060
 0.055
 0.015
 0.016
 0.029
 0.027
 0.011
 0.010
 0.025
 0.019
 0.022

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	12.003	72.467	1.184	72.518	-0.051	1.202	-0.018	72.520	-0.053	1.205	-0.021	400
500	12.882	77.524	3.684	77.515	0.009	3.676	0.008	77.517	0.007	3.678	0.006	600
600	13.287	81.292	6.306	81.285	0.007	6.299	0.007	81.287	0.005	6.301	0.005	800
1000	13.496	84.282	8.986	84.278	0.004	8.982	0.004	84.280	0.002	8.985	0.001	1000
1200	13.617	86.754	11.699	86.752	0.002	11.697	0.002	86.754	-0.000	11.699	-0.000	1200
1400	13.692	88.859	14.430	88.858	0.001	14.429	0.001	88.860	-0.001	14.432	-0.002	1400
1600	13.742	90.691	17.174	90.691	0.000	17.174	0.000	90.692	-0.001	17.175	-0.001	1600
1800	13.777	92.312	19.926	92.312	0.000	19.926	0.000	92.312	-0.000	19.927	-0.001	1800
2000	13.802	93.765	22.684	93.764	0.001	22.684	-0.000	93.765	0.000	22.684	-0.000	2000
2200	13.821	95.081	25.447	95.081	0.000	25.446	0.001	95.081	0.000	25.446	0.001	2200
2400	13.835	96.284	28.212	96.284	-0.000	28.212	-0.000	96.284	-0.000	28.211	0.001	2400
2600	13.846	97.392	30.980	97.392	0.000	30.980	-0.000	97.392	0.000	30.980	0.000	2600
2800	13.855	98.419	33.750	98.418	0.001	33.751	-0.001	98.419	0.000	33.750	-0.000	2800
3000	13.862	99.375	36.522	99.375	0.000	36.522	-0.000	99.375	0.000	36.523	-0.001	3000
3000	13.862	99.375	36.522	99.375	0.000	36.522	-0.000	99.375	0.000	36.525	-0.003	3000
3200	13.868	100.270	39.295	100.269	0.001	39.296	-0.001	100.269	0.001	39.296	-0.001	3200
3400	13.873	101.110	42.069	101.110	-0.000	42.070	-0.001	101.110	0.000	42.068	0.001	3400
3600	13.877	101.904	44.844	101.903	0.001	44.845	-0.001	101.902	0.002	44.843	0.001	3600
3800	13.880	102.654	47.620	102.654	0.000	47.620	-0.000	102.653	0.001	47.618	0.002	3800
4000	13.883	103.366	50.396	103.366	0.000	50.397	-0.001	103.365	0.001	50.395	0.001	4000
4200	13.886	104.043	53.173	104.043	-0.000	53.174	-0.001	104.042	0.001	53.172	0.001	4200
4400	13.888	104.689	55.950	104.689	-0.000	55.951	-0.001	104.688	0.001	55.950	0.000	4400
4600	13.890	105.307	58.728	105.307	0.000	58.728	-0.000	105.306	0.001	58.728	0.000	4600
4800	13.892	105.898	61.506	105.898	0.000	61.506	-0.000	105.897	0.001	61.507	-0.001	4800
5000	13.893	106.465	64.285	106.465	0.000	64.285	0.000	106.464	0.001	64.285	-0.000	5000
5200	13.894	107.010	67.064	107.010	0.000	67.063	0.001	107.009	0.001	67.064	-0.000	5200
5400	13.896	107.534	69.843	107.534	-0.000	69.842	0.001	107.534	0.000	69.843	-0.000	5400
5600	13.897	108.040	72.622	108.039	0.001	72.621	0.001	108.039	0.001	72.622	-0.000	5600
5800	13.898	108.527	75.401	108.527	-0.000	75.401	-0.000	108.527	0.000	75.401	0.000	5800
6000	13.899	108.999	78.181	108.998	0.001	78.182	-0.001	108.998	0.001	78.180	0.001	6000

D
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-57

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5000
5200
5400
5600
5800
6000

FITS
5
00000
00000

-575000+5+359973+5+139994+2-128166-4-130664+7+954099+230006000J12E412BBBF

[illegible]

BORON OXYBROMIDE (G) B 1BR 10 1 365
 MOL. WT.= 106.710 BLOCK= 3409 NO. POINT = 62
 DATA FROM 0 TO 6000 K HPORN(KCAL/(MOLE)) = -60.000 KEY = 720
 ITS FOR NOTS RMS = 0.008197
 5 1 8 1 35 0 0 0 0 0 BORON OXYBROMIDE (G) 10J 365 720
 .4205157E+1+.42213034E-1-9.1387867E-2+6.7301020E-3 400 6000 11J 365 720
 .8683776E-1-6.5918792E+1+7.4090972E+1-6.0000000E+1BBRO (G) 12J 365 720

FITS FOR EST RMS LOW = 0.012693 RMS HIGH = 0.004486
 5 1 8 1 35 0 0 0 0 0 BORON OXYBROMIDE (G) 10BBRO
 00000+5+381126+5+144676+2+135922-3-636736+6+906479+2 4003000J 36511BBRO
 00000+5+381104+5+149952+2-133134-4-186496+7+906479+230006000J 36512BBRO

DH		-----NOTS-----												-----EST-----			
KC/M		T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
		K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
0	-0.045	00	11.969	62.869	1.182	63.070	-0.201	1.262	-0.080	63.098	-0.229	1.275	-0.093				
6	0.013	00	12.909	67.916	3.678	67.887	0.029	3.652	0.026	67.886	0.030	3.652	0.026				
5	0.010	00	13.505	71.718	6.324	71.689	0.029	6.299	0.025	71.688	0.030	6.299	0.025				
4	0.003	00	13.893	74.776	9.066	74.763	0.013	9.055	0.011	74.765	0.011	9.058	0.008				
9	-0.002	00	14.149	77.333	11.872	77.329	0.004	11.871	0.001	77.332	0.001	11.875	-0.003				
1	-0.004	00	14.323	79.528	14.721	79.528	0.000	14.724	-0.003	79.531	-0.003	14.728	-0.007				
0	-0.003	00	14.445	81.449	17.598	81.450	-0.001	17.603	-0.005	81.452	-0.003	17.606	-0.008				
2	-0.001	00	14.534	83.156	20.497	83.156	0.000	20.500	-0.003	83.157	-0.001	20.501	-0.004				
3	-0.000	00	14.599	84.691	23.410	84.690	0.001	23.412	-0.002	84.690	0.001	23.411	-0.001				
2	0.001	00	14.649	86.085	26.335	86.083	0.002	26.336	-0.001	86.082	0.003	26.333	0.002				
6	0.002	00	14.688	87.361	29.269	87.359	0.002	29.268	0.001	87.358	0.003	29.265	0.004				
5	0.001	00	14.719	88.538	32.210	88.536	0.002	32.209	0.001	88.535	0.003	32.206	0.004				
9	-0.000	00	14.743	89.630	35.156	89.627	0.003	35.155	0.001	89.628	0.002	35.155	0.001				
6	-0.002	00	14.764	90.648	38.107	90.645	0.003	38.106	0.001	90.648	0.000	38.113	-0.006				
7	-0.003	00	14.764	90.648	38.107	90.645	0.003	38.106	0.001	90.648	0.000	38.110	-0.003				
2	-0.001	00	14.780	91.601	41.062	91.599	0.002	41.061	0.001	91.601	0.000	41.062	-0.000				
9	0.001	00	14.794	92.498	44.019	92.495	0.003	44.019	0.000	92.497	0.001	44.018	0.001				
9	0.002	00	14.806	93.344	46.979	93.342	0.002	46.979	-0.001	93.342	0.002	46.978	0.001				
0	0.002	00	14.816	94.144	49.941	94.143	0.001	49.942	-0.001	94.143	0.001	49.940	0.001				
3	0.002	00	14.824	94.904	52.905	94.903	0.001	52.907	-0.002	94.903	0.001	52.904	0.001				
7	0.001	00	14.831	95.628	55.871	95.626	0.002	55.872	-0.001	95.627	0.001	55.870	0.001				
2	0.000	00	14.838	96.318	58.838	96.316	0.002	58.839	-0.001	96.317	0.001	58.837	0.001				
7	-0.000	00	14.843	96.978	61.806	96.976	0.002	61.807	-0.001	96.977	0.001	61.806	0.000				
3	-0.000	00	14.848	97.610	64.775	97.608	0.002	64.775	-0.000	97.609	0.001	64.775	-0.000				
0	-0.001	00	14.853	98.216	67.745	98.214	0.002	67.745	0.000	98.215	0.001	67.746	-0.001				
6	-0.000	00	14.857	98.798	70.716	98.796	0.002	70.715	0.001	98.798	0.000	70.717	-0.001				
3	-0.000	00	14.860	99.359	73.688	99.357	0.002	73.686	0.002	99.358	0.001	73.688	-0.001				
0	-0.000	00	14.863	99.900	76.660	99.897	0.003	76.659	0.001	99.899	0.001	76.661	-0.001				
8	0.000	00	14.866	100.421	79.633	100.419	0.002	79.633	0.000	100.420	0.001	79.633	0.000				
5	0.001	00	14.868	100.925	82.607	100.924	0.001	82.609	-0.002	100.924	0.001	82.606	0.001				

BORON CARBIDE

(G) C 1B 1

663

MOL. WT.= 22.820 BLOCK= 3415 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 198.000 KEY = 721

FITS FOR NOTS RMS = 0.004027

1 5 1 6 0 0 0 0 0 0 BORON CARBIDE (G) 10J 663 721
 +8.6448936E+0+2.6455128E-1-4.0677510E-2+3.0395742E-3 400 6000 11J 663 721
 -3.3818054E-1+1.9445335E+2+5.8809585E+1+1.9800000E+2CB (G) 12J 663 721

FITS FOR EST RMS LOW = 0.006046 RMS HIGH = 0.003047

1 5 1 6 0 0 0 0 0 0 BORON CARBIDE (G) 10CB
 +198000+6+233895+5+876021+1+137892-3-359744+6+689649+2 4003000J 66311CB
 +198000+6+233891+5+899401+1+726561-4-939888+6+689649+230006000J 66312CB

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	ES	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.093	400	7.359	51.942	0.736	52.048	-0.106	0.777	-0.041	52.060	-0.118	0.783	-0.047	T
0.026	500	7.895	55.031	2.263	55.015	0.016	2.249	0.014	55.015	0.016	2.249	0.014	K
0.025	800	8.267	57.358	3.882	57.344	0.014	3.870	0.012	57.344	0.014	3.870	0.012	100
0.008	1000	8.504	59.230	5.561	59.224	0.006	5.556	0.005	59.225	0.005	5.557	0.004	100
0.003	1200	8.659	60.795	7.278	60.793	0.002	7.278	0.000	60.795	0.000	7.280	-0.002	100
0.007	1400	8.766	62.138	9.021	62.138	0.000	9.023	-0.002	62.140	-0.002	9.025	-0.004	100
0.008	1600	8.845	63.314	10.783	63.314	-0.000	10.785	-0.002	63.315	-0.001	10.786	-0.003	100
0.004	1800	8.906	64.360	12.558	64.359	0.001	12.560	-0.002	64.360	-0.000	12.560	-0.002	100
0.001	2000	8.955	65.300	14.344	65.300	0.000	14.345	-0.001	65.300	-0.000	14.345	-0.001	100
0.002	2200	8.996	66.156	16.139	66.155	0.001	16.139	-0.000	66.155	0.001	16.138	0.001	100
0.004	2400	9.031	66.940	17.942	66.939	0.001	17.942	0.000	66.939	0.001	17.940	0.002	100
0.004	2600	9.062	67.664	19.751	67.663	0.001	19.751	0.000	67.663	0.001	19.749	0.001	200
0.001	2800	9.090	68.337	21.567	68.336	0.001	21.566	0.001	68.336	0.001	21.566	0.001	400
0.006	3000	9.116	68.965	23.387	68.964	0.001	23.387	0.000	68.965	0.000	23.390	-0.003	100
0.003	3000	9.116	68.965	23.387	68.964	0.001	23.387	0.000	68.965	0.000	23.389	-0.002	100
0.000	3200	9.140	69.554	25.213	69.553	0.001	25.213	0.000	69.554	0.000	25.213	-0.000	100
0.001	3400	9.163	70.109	27.043	70.108	0.001	27.043	-0.000	70.108	0.001	27.043	0.000	100
0.001	3600	9.184	70.633	28.878	70.632	0.001	28.878	-0.000	70.632	0.001	28.877	0.001	200
0.001	3800	9.205	71.130	30.717	71.129	0.001	30.717	-0.000	71.130	0.000	30.716	0.001	100
0.001	4000	9.225	71.603	32.560	71.602	0.001	32.561	-0.001	71.602	0.001	32.559	0.001	100
0.001	4200	9.245	72.053	34.407	72.053	0.000	34.408	-0.001	72.053	0.000	34.406	0.001	100
0.001	4400	9.264	72.484	36.258	72.483	0.001	36.258	-0.000	72.483	0.001	36.257	0.001	100
0.000	4600	9.283	72.896	38.112	72.895	0.001	38.113	-0.001	72.896	0.000	38.112	-0.000	100
0.000	4800	9.301	73.292	39.971	73.291	0.001	39.971	0.000	73.291	0.001	39.971	0.000	100
0.001	5000	9.319	73.672	41.833	73.671	0.001	41.832	0.001	73.671	0.001	41.833	-0.000	100
0.001	5200	9.337	74.038	43.698	74.036	0.002	43.698	0.000	74.037	0.001	43.699	-0.001	100
0.001	5400	9.355	74.390	45.568	74.389	0.001	45.567	0.001	74.390	0.000	45.568	0.000	100
0.001	5600	9.372	74.731	47.440	74.730	0.001	47.439	0.001	74.730	0.001	47.440	-0.000	100
0.000	5800	9.390	75.060	49.316	75.059	0.001	49.316	-0.000	75.059	0.001	49.316	-0.000	100
0.001	6000	9.407	75.379	51.196	75.378	0.001	51.197	-0.001	75.378	0.001	51.195	0.001	100

BORON HYDROXYDIFLUORIDE (G) B 1F 2H 10 1 365 E
 MOL. WT.= 65.810 BLCK= 3421 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -259.000 KEY = 722
 FITS FOR NOTS RMS = C.028064
 1 1 5 1 8 2 9 0 0 0 BORON HYDROXYDIFLUORIDE (G) 10J 365 722
 .1716064E+1+2.2857494E+0-4.6569550E-1+3.2752081E-2 400 6000 11J 365 722
 .8896484E+0-2.7094042E+2+8.2039459E+1-2.5900000E+2BF2HO (G) 12J 365 722

FITS FOR EST RMS LOW = 0.048681 RMS HIGH = 0.007663
 1 1 5 1 8 2 9 0 0 0 BORON HYDROXYDIFLUORIDE (G) 10BF2HO
 59000+6+606281+5+231605+2+775855-3-218433+7+111067+3 4003000J 36511BF2HO
 59000+6+606095+5+259242+2-155985-4-771456+7+111067+330006000J 36512BF2HO

DH KC/M	-----NOTS-----								-----EST-----				T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
-0.047	0	14.702	68.286	1.384	68.924	-0.638	1.643	-0.259	69.089	-0.803	1.714	-0.330	400
0.014	0	18.070	74.936	4.687	74.861	0.075	4.618	0.069	74.843	0.093	4.604	0.083	600
0.012	0	20.150	80.443	8.526	80.355	0.088	8.450	0.076	80.334	0.109	8.434	0.092	800
0.004	0	21.486	85.093	12.698	85.048	0.045	12.661	0.037	85.043	0.050	12.660	0.038	1000
-0.002	0	22.406	89.097	17.092	89.081	0.016	17.088	0.004	89.087	0.010	17.099	-0.007	1200
-0.003	0	23.072	92.603	21.644	92.602	0.001	21.657	-0.013	92.611	-0.008	21.672	-0.028	1400
-0.002	0	23.571	95.718	26.310	95.721	-0.003	26.330	-0.020	95.728	-0.010	26.342	-0.032	1600
-0.001	0	23.952	98.517	31.064	98.519	-0.002	31.082	-0.018	98.522	-0.005	31.086	-0.022	1800
0.001	0	24.248	101.057	35.865	101.056	0.001	35.897	-0.012	101.053	0.004	35.892	-0.007	2000
0.002	0	24.483	103.379	40.759	103.375	0.004	40.764	-0.005	103.368	0.011	40.751	0.008	2200
0.001	0	24.671	105.518	45.675	105.511	0.007	45.674	0.001	105.503	0.015	45.657	0.018	2400
0.001	0	24.823	107.499	50.625	107.490	0.009	50.620	0.005	107.484	0.015	50.607	0.018	2600
-0.003	0	24.949	109.343	55.603	109.333	0.010	55.595	0.008	109.333	0.010	55.598	0.005	2800
-0.002	0	25.053	111.068	60.603	111.058	0.010	60.595	0.008	111.068	0.000	60.628	-0.025	3000
-0.000	0	25.053	111.068	60.603	111.058	0.010	60.595	0.008	111.068	0.000	60.609	-0.007	3000
0.000	0	25.140	112.688	65.623	112.679	0.009	65.616	0.007	112.686	0.002	65.624	-0.001	3200
0.001	0	25.214	114.214	70.658	114.206	0.008	70.655	0.003	114.212	0.002	70.657	0.001	3400
0.001	0	25.276	115.657	75.707	115.649	0.008	75.707	0.000	115.654	0.003	75.705	0.002	3600
0.001	0	25.330	117.025	80.768	117.018	0.007	80.770	-0.002	117.022	0.003	80.765	0.003	3800
0.001	0	25.377	118.326	85.839	118.319	0.007	85.844	-0.005	118.323	0.003	85.836	0.003	4000
0.001	0	25.417	119.565	90.918	119.559	0.006	90.924	-0.006	119.562	0.003	90.916	0.002	4200
-0.000	0	25.453	120.748	96.006	120.742	0.006	96.011	-0.005	120.746	0.002	96.004	0.002	4400
0.000	0	25.484	121.880	101.099	121.874	0.006	101.104	-0.005	121.878	0.002	101.099	-0.000	4600
-0.000	0	25.511	122.965	106.199	122.959	0.006	106.201	-0.002	122.963	0.002	106.199	-0.000	4800
-0.001	0	25.536	124.007	111.304	124.000	0.007	111.303	0.001	124.005	0.002	111.305	-0.001	5000
0.000	0	25.558	125.009	116.413	125.001	0.007	116.410	0.003	125.007	0.002	116.414	-0.001	5200
-0.000	0	25.577	125.974	121.526	125.966	0.008	121.521	0.005	125.972	0.002	121.528	-0.002	5400
-0.000	0	25.595	126.905	126.644	126.897	0.008	126.639	0.005	126.903	0.002	126.644	-0.000	5600
-0.001	0	25.610	127.803	131.764	127.796	0.007	131.763	0.001	127.801	0.002	131.764	0.000	5800
0.001	0	25.625	128.672	136.888	128.666	0.006	136.896	-0.008	128.669	0.003	136.886	0.002	6000

BERYLLIUM DIBORATE

(G)

B 28E 10 4 0 0 0

665

MOL. WT. = 94.630 BLOCK = 3428 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -323.000 KEY = 723

FITS FOR NOTS RMS = 0.026529

1 4 2 5 4 8 0 0 0 0 0 BERYLLIUM DIBORATE (G) 10J 665 723
 +3.5621185E+1+1.2935991E+0-2.8031247E-1+2.0626068E-2 4C0 6000 11J 665 723
 -2.4645996E+0-3.4082177E+2+1.1014143E+2-3.2300000E+2B2BE04 (G) 12J 665 723

FITS FOR EST RMS LOW = 0.041265 RMS HIGH = 0.011311

1 4 2 5 4 8 0 0 0 0 0 BERYLLIUM DIBORATE (G) 10B2BE04
 -323000+6+936019+5+364242+2+417257-3-261672+7+152225+3 4003000J 66511B2BE04
 -323000+6+935933+5+379967+2-354267-4-608230+7+152225+33C006000J 66512B2BE04

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.330	400	25.296	85.013	2.412	85.699	-0.686	2.686	-0.274	85.782	-0.769	2.724	-0.312
0.083	600	29.780	96.198	7.960	96.095	0.103	7.872	0.088	96.091	0.107	7.870	0.090
0.092	800	32.406	105.158	14.202	105.067	0.091	14.124	0.078	105.063	0.095	14.123	0.079
0.038	1000	33.988	112.573	20.854	112.534	0.039	20.822	0.031	112.538	0.035	20.829	0.025
0.007	1200	34.986	118.865	27.758	118.854	0.011	27.758	-0.000	118.863	0.002	27.769	-0.011
0.028	1400	35.646	124.311	34.826	124.311	0.000	34.839	-0.013	124.320	-0.009	34.851	-0.025
0.032	1600	36.101	129.102	42.003	129.104	-0.002	42.019	-0.016	129.111	-0.009	42.028	-0.025
0.022	1800	36.425	133.374	49.257	133.374	0.000	49.270	-0.013	133.377	-0.003	49.273	-0.016
0.007	2000	36.665	137.225	56.568	137.222	0.003	56.575	-0.007	137.222	0.003	56.571	-0.003
0.008	2200	36.846	140.728	63.919	140.723	0.005	63.921	-0.002	140.720	0.008	63.912	0.007
0.018	2400	36.986	143.941	71.303	143.933	0.008	71.301	0.002	143.930	0.011	71.289	0.014
0.018	2600	37.096	146.906	78.712	146.897	0.009	78.707	0.005	146.895	0.011	78.699	0.013
0.005	2800	37.184	149.658	86.140	149.649	0.009	86.134	0.006	149.651	0.007	86.137	0.003
0.025	3000	37.256	152.226	93.564	152.217	0.009	93.579	0.005	152.226	0.000	93.602	-0.018
0.007	3000	37.256	152.226	93.584	152.217	0.009	93.579	0.005	152.226	0.000	93.593	-0.009
0.001	3200	37.315	154.632	101.042	154.624	0.008	101.038	0.004	154.630	0.002	101.044	-0.002
0.001	3400	37.365	156.896	108.510	156.889	0.007	108.509	0.001	156.893	0.003	108.508	0.002
0.002	3600	37.406	159.033	115.987	159.026	0.007	115.988	-0.001	159.029	0.004	115.983	0.004
0.003	3800	37.442	161.056	123.472	161.050	0.006	123.475	-0.003	161.052	0.004	123.467	0.004
0.003	4000	37.472	162.978	130.963	162.972	0.006	130.968	-0.005	162.974	0.004	130.959	0.004
0.002	4200	37.498	164.807	138.460	164.801	0.006	138.465	-0.005	164.803	0.004	138.457	0.003
0.002	4400	37.521	166.552	145.962	166.546	0.006	145.967	-0.005	166.548	0.004	145.960	0.002
0.000	4600	37.540	168.220	153.468	168.214	0.006	153.472	-0.004	168.217	0.003	153.467	0.000
0.000	4800	37.558	169.818	160.978	169.811	0.007	160.979	-0.001	169.815	0.003	160.978	-0.000
0.001	5000	37.573	171.352	168.491	171.344	0.008	168.490	0.001	171.345	0.003	168.492	-0.001
0.001	5200	37.587	172.825	176.007	172.818	0.007	176.004	0.003	172.823	0.002	176.009	-0.002
0.002	5400	37.599	174.244	183.526	174.236	0.008	183.521	0.005	174.241	0.003	183.527	-0.001
0.000	5600	37.610	175.612	191.047	175.604	0.008	191.043	0.004	175.609	0.003	191.047	-0.000
0.000	5800	37.620	176.932	198.570	176.924	0.008	198.569	0.001	176.928	0.004	198.569	0.001
0.002	6000	37.629	178.207	206.095	178.201	0.006	206.101	-0.006	178.204	0.003	206.092	0.003

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PENTABORANE (L) B 5H 9 365
 MOL. WT.= 63.120 BLOCK= 3434 NO. POINT = 14
 DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = 10.240 KEY = 724
 FITS FOR NOTS RMS = 0.023905
 1 5 5 0 0 0 0 0 0 PENTABORANE (L) 20J 365 724
 .5000045E+1+2.6881689E+2-2.0420581E+2+5.3539871E+1 400 1500 21J 365 724
 .7645111E+0+2.5828567E+1-7.8050613E+1+1.0239999E+1B5H9(L) 22J 365 724

FITS FOR EST RMS LOW = 0.056674 RMS HIGH = 0.056674
 1 5 5 0 0 0 0 0 0 PENTABORANE (L) 20B5H9*
 102399+5+183058+6+682396+2+326378-2-607507+7+183942+3 4001500J 36521B5H9*
 102399+5+183058+6+682396+2+326378-2-607507+7+183942+3 4001500J 36522B5H9*

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
400	44.300	55.913	4.130	56.039	-0.126	4.169	-0.039	56.607	-0.694	4.372	-0.242	40			
500	45.500	65.862	8.590	65.657	0.205	8.490	0.100	65.326	0.536	8.305	0.285	60			
600	50.200	74.520	13.346	74.593	-0.073	13.400	-0.054	74.382	0.138	13.284	0.062	80			
700	58.400	82.942	18.820	83.008	-0.066	18.866	-0.046	82.989	-0.047	18.873	-0.053	100			
800	61.300	90.934	24.809	90.908	0.026	24.786	0.023	90.974	-0.040	24.857	-0.048	120			
900	63.838	98.307	31.071	98.280	0.027	31.048	0.023	98.342	-0.035	31.115	-0.044	140			
1000	65.800	105.139	37.557	105.120	0.011	37.549	0.008	105.146	-0.007	37.574	-0.017	160			
1100	66.987	111.468	44.198	111.473	-0.005	44.207	-0.009	111.449	0.019	44.188	0.010	180			
1200	68.000	117.341	50.949	117.353	-0.012	50.965	-0.016	117.312	0.029	50.927	0.022	200			
1300	68.840	122.818	57.792	122.818	-0.000	57.794	-0.002	122.788	0.030	57.770	0.022	220			
1400	69.507	127.945	64.711	127.931	0.014	64.694	0.017	127.924	0.021	64.701	0.010	240			
1500	70.000	132.759	71.688	132.760	-0.001	71.694	-0.006	132.759	0.000	71.709	-0.021	260			

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LITHIUM BERYLLIUM FLUORIDE (G) BE 1F 3LI 1

1262

MOL. WT.= 72.940 BLOCK= 3435 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -212.000 KEY = 725

FITS FOR NOTS RMS = 0.010814

1 4 3 9 1 71 0 0 0 0 0 LITHIUM BERYLLIUM FLUORIDE (G) 10J1262 725
 +2.5104370E+1+4.4991731E-1-9.8875403E-2+7.3595345E-3 400 6000 11J1262 725
 -1.5534667E+0-2.2419456E+2+8.6895328E+1-2.1200000E+2BEF3LI (G) 12J1262 725

FITS FOR EST RMS LOW = 0.016102 RMS HIGH = 0.007784

1 4 3 9 1 71 0 0 0 0 0 LITHIUM BERYLLIUM FLUORIDE (G) 10BEF3LI
 -212000+6+649274+5+253784+2+144399-3-160296+7+115535+3 4003000J126211BEF3LI
 -212000+6+649269+5+260091+2-257184-4-334387+7+115535+330006000J126212BEF3LI

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
42	400	17.636	68.629	1.651	68.920	-0.291	1.765	-0.114	68.946	-0.317	1.778	-0.127
85	600	21.137	76.528	5.570	76.482	0.046	5.531	0.039	76.482	0.046	5.533	0.037
62	800	22.879	82.874	9.991	82.837	0.037	9.959	0.032	82.837	0.037	9.961	0.030
53	1000	23.830	88.091	14.670	88.075	0.016	14.657	0.013	88.079	0.012	14.662	0.008
48	1200	24.395	92.490	19.497	92.485	0.005	19.496	0.001	92.490	0.000	19.502	-0.005
44	1400	24.754	96.280	24.415	96.279	0.001	24.419	-0.004	96.283	-0.003	24.424	-0.009
17	1600	24.996	99.602	29.391	99.602	0.000	29.396	-0.005	99.605	-0.003	29.400	-0.009
10	1800	25.165	102.556	34.408	102.556	0.000	34.412	-0.004	102.557	-0.001	34.414	-0.006
22	2000	25.289	105.214	39.454	105.213	0.001	39.456	-0.003	105.213	0.001	39.455	-0.001
22	2200	25.381	107.629	44.522	107.627	0.002	44.522	-0.000	107.626	0.003	44.519	0.003
10	2400	25.452	109.841	49.605	109.838	0.003	49.604	0.001	109.836	0.005	49.600	0.005
21	2600	25.507	111.880	54.701	111.877	0.003	54.700	0.001	111.876	0.004	54.697	0.004
	2800	25.552	113.772	59.807	113.769	0.003	59.806	0.001	113.769	0.003	59.806	0.001
	3000	25.588	115.536	64.921	115.533	0.003	64.920	0.001	115.536	0.000	64.927	-0.006
	3000	25.588	115.536	64.921	115.533	0.003	64.920	0.001	115.536	0.000	64.927	-0.006
	3200	25.617	117.189	70.042	117.186	0.003	70.041	0.001	117.187	0.002	70.043	-0.001
	3400	25.642	118.743	75.168	118.740	0.003	75.168	-0.000	118.740	0.003	75.166	0.002
	3600	25.662	120.209	80.298	120.206	0.003	80.299	-0.001	120.206	0.003	80.296	0.002
	3800	25.680	121.597	85.433	121.594	0.003	85.434	-0.001	121.594	0.003	85.430	0.003
	4000	25.695	122.914	90.570	122.912	0.002	90.572	-0.002	122.911	0.003	90.567	0.003
	4200	25.708	124.168	95.710	124.166	0.002	95.713	-0.003	124.165	0.003	95.708	0.002
	4400	25.719	125.365	100.853	125.362	0.003	100.855	-0.002	125.362	0.003	100.852	0.001
	4600	25.729	126.508	105.998	126.505	0.003	105.999	-0.001	126.506	0.002	105.997	0.000
	4800	25.737	127.603	111.145	127.600	0.003	111.145	0.000	127.601	0.002	111.145	0.000
	5000	25.745	128.654	116.293	128.651	0.003	116.292	0.001	128.652	0.002	116.294	-0.001
	5200	25.752	129.664	121.442	129.661	0.003	121.441	0.001	129.662	0.002	121.443	-0.002
	5400	25.758	130.636	126.593	130.633	0.003	126.591	0.002	130.634	0.002	126.594	-0.001
	5600	25.763	131.573	131.745	131.570	0.003	131.743	0.002	131.570	0.003	131.746	-0.001
	5800	25.768	132.477	136.898	132.474	0.003	136.898	0.000	132.474	0.003	136.898	0.000
	6000	25.772	133.350	142.052	133.348	0.002	142.055	-0.003	133.348	0.002	142.050	0.002

2

TUNGSTEN PENTABROMIDE

(G)

BR 5W 1 0 0 0 0

667

MOL. WT.= 583.390

BLOCK= 3450

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -47.600 KEY = 729

FITS FOR NOTS RMS = 0.015492

26

5 35 1 74 0 0 0 0 0 0 TUNGSTEN PENTABROMIDE

(G) 10J 667 729

26

+3.0392105E+1+1.0513572E+0-1.1203485E-1+1.5762746E-3 400 6000

11J 667 729

26

+2.4658203E-1-5.6206619E+1+1.4722508E+2-4.7599990E+1BR5W (G)

12J 667 729

FITS FOR EST RMS LOW = 0.006411 RMS HIGH = 0.011471

5 35 1 74 0 0 0 0 0 0 TUNGSTEN PENTABROMIDE

(G) 10BR5W

-475999+5+862341+5+310500+2+520287-3+525120+5+183257+3 4003000J 66711BR5W

-475999+5+862476+5+342538+2-149201-3-115159+8+183257+330006000J 66712BR5W

-----NOTS-----

-----EST-----

	DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
124	-0.007	400	31.000	119.282	3.131	119.018	0.264	3.015	0.116	119.181	0.101	3.091	0.040
198	0.002	600	31.434	131.951	9.383	131.968	-0.017	9.399	-0.016	131.966	-0.015	9.396	-0.014
234	0.002	800	31.591	141.019	15.688	141.056	-0.037	15.716	-0.028	141.035	-0.016	15.701	-0.013
297	0.000	1000	31.672	148.077	22.015	148.098	-0.021	22.028	-0.013	148.082	-0.005	22.018	-0.003
373	-0.000	1200	31.735	153.857	28.355	153.862	-0.005	28.352	0.003	153.855	0.002	28.351	0.004
459	-0.000	1400	31.805	158.754	34.709	158.752	0.002	34.696	0.013	158.751	0.003	34.703	0.006
552	0.000	1600	31.889	163.007	41.078	163.002	0.005	41.062	0.016	163.004	0.003	41.074	0.004
650	-0.000	1800	31.987	166.768	47.466	166.765	0.003	47.452	0.014	166.767	0.001	47.464	0.002
753	-0.000	2000	32.093	170.144	53.874	170.143	0.001	53.865	0.009	170.144	-0.000	53.875	-0.001
860	0.000	2200	32.204	173.208	60.303	173.210	-0.002	60.300	0.003	173.209	-0.001	60.306	-0.003
971	0.000	2400	32.314	176.015	66.755	176.019	-0.004	66.756	-0.001	176.016	-0.001	66.757	-0.002
1085	0.000	2600	32.419	178.605	73.228	178.611	-0.006	73.233	-0.005	178.606	-0.001	73.229	-0.001
1202	0.001	2800	32.518	181.012	79.722	181.018	-0.006	79.729	-0.007	181.011	0.001	79.721	0.001
1323	-0.000	3000	32.609	183.258	86.235	183.265	-0.007	86.242	-0.007	183.258	0.000	86.234	0.001
1425	-0.002	3000	32.609	183.258	86.235	183.265	-0.007	86.242	-0.007	183.258	0.000	86.248	-0.013
1547	-0.001	3200	32.691	185.365	92.765	185.372	-0.007	92.772	-0.007	185.361	0.004	92.766	-0.001
1672	0.001	3400	32.764	187.350	99.311	187.355	-0.005	99.316	-0.005	187.344	0.006	99.307	0.004
1801	0.001	3600	32.828	189.224	105.870	189.229	-0.005	105.873	-0.003	189.218	0.006	105.865	0.005
1933	0.001	3800	32.883	191.001	112.441	191.005	-0.004	112.442	-0.001	190.995	0.006	112.437	0.004
2067	0.001	4000	32.929	192.688	119.023	192.693	-0.005	119.022	0.001	192.683	0.005	119.020	0.003
2205	0.001	4200	32.967	194.296	125.612	194.300	-0.004	125.610	0.002	194.291	0.005	125.611	0.001
2345	-0.000	4400	32.997	195.830	132.209	195.834	-0.004	132.206	0.003	195.826	0.004	132.209	0.000
2488	0.000	4600	33.020	197.298	138.811	197.301	-0.003	138.808	0.003	197.293	0.005	138.812	-0.001
2633	-0.000	4800	33.037	198.703	145.417	198.707	-0.004	145.415	0.002	198.699	0.004	145.418	-0.001
2781	-0.000	5000	33.049	200.052	152.025	200.056	-0.004	152.025	0.000	200.048	0.004	152.026	-0.001
2932	-0.001	5200	33.055	201.349	158.636	201.353	-0.004	158.636	-0.000	201.344	0.005	158.636	-0.000
3084	-0.000	5400	33.056	202.596	165.247	202.601	-0.005	165.248	-0.001	202.592	0.004	165.247	0.000
3240	-0.001	5600	33.054	203.798	171.858	203.803	-0.005	171.860	-0.002	203.794	0.004	171.857	0.001
3397	-0.000	5800	33.048	204.958	178.468	204.962	-0.004	178.468	-0.000	204.953	0.005	178.467	0.001
3557	0.001	6000	33.039	206.078	185.077	206.082	-0.004	185.074	0.003	206.074	0.004	185.076	0.001

TUNGSTEN HEXABROMIDE (G) BR 6W 1 0 0 0 0 667
 MCL. WT.= 663.300 BLOCK= 3457 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -58.100 KEY = 731
 FITS FOR NOTS RMS = 0.005628
 35 1 74 0 0 0 0 0 0 0 TUNGSTEN HEXABROMIDE (G) 10J 667 731
 .7782684E+1-8.2740932E-3-5.9969583E-4+2.3133045E-4 400 6000 11J 667 731
 .6040039E-1-6.9888122E+1+1.6021754E+2-5.8099990E+1BR6W (G) 12J 667 731

FITS FOR EST RMS LOW = 0.000712 RMS HIGH = 0.011386
 35 1 74 0 0 0 0 0 0 0 TUNGSTEN HEXABROMIDE (G) 10BR6W
 +0999+5+101572+6+377625+2-251292-5-151360+6+201707+3 4003000J 66711BR6W
 +0999+5+101582+6+380223+2-388331-4-186598+7+201707+330006000J 66712BR6W

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DH KC/M	-----NOTS-----												T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
0.040	400	36.858	126.081	3.724	126.096	-0.015	3.725	-0.001	126.091	-0.010	3.729	-0.005	400
0.014	400	37.351	141.138	11.155	141.135	0.003	11.147	0.008	141.139	-0.001	11.155	-0.000	600
0.013	400	37.527	151.911	18.645	151.905	0.006	18.636	0.009	151.911	0.000	18.644	0.001	800
0.003	400	37.609	160.295	26.159	160.289	0.006	26.151	0.008	160.294	0.001	26.159	0.000	1000
0.004	400	37.654	167.156	33.686	167.152	0.004	33.679	0.007	167.155	0.001	33.685	0.001	1200
0.006	400	37.681	172.962	41.220	172.959	0.003	41.214	0.006	172.962	0.000	41.219	0.001	1400
0.004	400	37.698	177.995	48.758	177.993	0.002	48.753	0.005	177.995	0.000	48.757	0.001	1600
0.002	400	37.711	182.436	56.299	182.435	0.001	56.296	0.003	182.436	0.000	56.299	0.000	1800
0.001	400	37.719	186.410	63.842	186.409	0.001	63.840	0.002	186.410	0.000	63.842	0.000	2000
0.003	400	37.726	190.005	71.386	190.005	-0.000	71.386	0.000	190.005	0.000	71.386	-0.000	2200
0.002	400	37.730	193.288	78.932	193.288	-0.000	78.932	-0.000	193.288	0.000	78.932	0.000	2400
0.001	400	37.734	196.308	86.478	196.309	-0.001	86.480	-0.002	196.308	0.000	86.478	-0.000	2600
0.001	400	37.737	199.105	94.025	199.106	-0.001	94.027	-0.002	199.104	0.001	94.025	-0.000	2800
0.013	400	37.740	201.708	101.573	201.710	-0.002	101.575	-0.002	201.708	0.000	101.573	0.000	3000
0.001	400	37.740	201.708	101.573	201.710	-0.002	101.575	-0.002	201.708	0.000	101.582	-0.009	3200
0.004	400	37.742	204.144	109.121	204.145	-0.001	109.124	-0.003	204.142	0.002	109.123	-0.003	3400
0.005	400	37.743	206.432	116.670	206.433	-0.001	116.672	-0.002	206.428	0.004	116.668	0.002	3600
0.004	400	37.745	208.590	124.219	208.591	-0.001	124.221	-0.002	208.585	0.005	124.215	0.004	3800
0.003	400	37.746	210.630	131.768	210.631	-0.001	131.770	-0.002	210.626	0.004	131.763	0.005	4000
0.001	400	37.747	212.567	139.317	212.567	-0.001	139.319	-0.002	212.562	0.005	139.313	0.004	
0.000	400	37.748	214.408	146.866	214.409	-0.001	146.867	-0.001	214.404	0.004	146.863	0.003	
0.001	400	37.749	216.164	154.416	216.165	-0.001	154.417	-0.001	216.160	0.004	154.414	0.002	
0.001	400	37.749	217.842	161.966	217.843	-0.001	161.966	0.000	217.839	0.003	161.965	0.001	
0.001	400	37.750	219.449	169.516	219.449	-0.000	169.515	0.001	219.446	0.003	169.516	-0.000	
0.000	400	37.750	220.990	177.066	220.990	-0.000	177.065	0.001	220.987	0.003	177.067	-0.001	
0.000	400	37.751	222.471	184.616	222.471	0.000	184.615	0.001	222.467	0.004	184.618	-0.002	
0.001	400	37.751	223.895	192.166	223.896	-0.001	192.165	0.001	223.892	0.003	192.168	-0.002	
0.001	400	37.751	225.268	199.716	225.269	-0.001	199.716	0.000	225.265	0.003	199.717	-0.001	
0.001	400	37.752	226.593	207.267	226.593	-0.000	207.266	0.001	226.589	0.004	207.266	0.001	
0.001	400	37.752	227.873	214.817	227.873	-0.000	214.818	-0.001	227.869	0.004	214.814	0.003	

NITRYL CHLORIDE (G) CL 1N 10 2
 MOL. WT. = 81.450 BLOCK = 3468 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = 2.900 KEY = 733
 FITS FOR NOTS RMS = 0.011678
 1 7 2 8 1 17 0 0 0 0 0 NITRYL CHLORIDE (G) 10J1265 733
 1.8964370E+1+5.5352675E-1-1.2046056E-1+8.8927708E-3 400 6000 11J1265 733
 1.1171569E+0-6.0222721E+0+8.2970748E+1+2.8999996E+0CLNO2 (G) 12J1265 733

FITS FOR EST RMS LOW = 0.018121 RMS HIGH = 0.005926
 1 7 2 8 1 17 0 0 0 0 0 NITRYL CHLORIDE (G) 10CLNO2
 289999+4+499396+5+193076+2+177742-3-118193+7+105069+3 4003000J126511CLNO2
 289999+4+499362+5+199989+2-186359-4-278656+7+105069+330006000J126512CLNO2

TUNG
 MOL
 DATA
 FITS
 5 17 1
 +2.7624
 -4.6241
 FITS
 5 17 1
 -122599
 -122599

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
400	14.254	68.991	1.377	69.297	-0.306	1.498	-0.121	69.333	-0.342	1.515	-0.138				
600	16.291	75.193	4.450	75.146	0.047	4.410	0.040	75.145	0.048	4.409	0.041				
900	17.485	80.058	7.838	80.018	0.040	7.803	0.035	80.017	0.041	7.803	0.035				
1000	18.200	84.043	11.412	84.026	0.017	11.398	0.014	84.028	0.015	11.401	0.011				
1200	18.648	87.404	15.100	87.399	0.005	15.100	0.000	87.403	0.001	15.105	-0.005				
1400	18.942	90.302	18.861	90.302	0.000	18.867	-0.006	90.306	-0.004	18.872	-0.011				
1600	19.144	92.845	22.671	92.846	-0.001	22.678	-0.007	92.849	-0.004	22.681	-0.010				
1800	19.288	95.109	26.515	95.109	0.000	26.520	-0.005	95.111	-0.002	26.521	-0.006				
2000	19.394	97.147	30.383	97.145	0.002	30.386	-0.003	97.146	0.001	30.385	-0.002				
2200	19.474	98.999	34.270	98.997	0.002	34.271	-0.001	98.996	0.003	34.267	0.003				
2400	19.535	100.696	38.172	100.693	0.003	38.170	0.002	100.692	0.004	38.166	0.006				
2600	19.584	102.262	42.084	102.258	0.004	42.081	0.003	102.258	0.004	42.078	0.006				
2800	19.622	103.715	46.004	103.711	0.004	46.002	0.002	103.712	0.003	46.003	0.001				
3000	19.654	105.070	49.932	105.066	0.004	49.930	0.002	105.070	0.000	49.940	-0.008				
3000	19.654	105.070	49.932	105.066	0.004	49.930	0.002	105.070	0.000	49.936	-0.004				
3200	19.680	106.339	53.866	106.335	0.004	53.864	0.002	106.338	0.001	53.866	-0.000				
3400	19.702	107.533	57.804	107.529	0.004	57.803	0.001	107.531	0.002	57.803	0.001				
3600	19.720	108.659	61.746	108.656	0.003	61.747	-0.001	108.658	0.001	61.744	0.002				
3800	19.735	109.726	65.692	109.723	0.003	65.693	-0.001	109.724	0.002	65.689	0.003				
4000	19.748	110.738	69.640	110.736	0.002	69.642	-0.002	110.737	0.001	69.638	0.002				
4200	19.760	111.702	73.591	111.700	0.002	73.593	-0.002	111.701	0.001	73.589	0.002				
4400	19.770	112.622	77.544	112.619	0.003	77.546	-0.002	112.620	0.002	77.543	0.001				
4600	19.778	113.501	81.499	113.498	0.003	81.500	-0.001	113.500	0.001	81.498	0.001				
4800	19.786	114.343	85.455	114.340	0.003	85.456	-0.001	114.342	0.001	85.455	-0.000				
5000	19.793	115.151	89.413	115.147	0.004	89.412	0.001	115.150	0.001	89.414	-0.001				
5200	19.799	115.927	93.372	115.924	0.003	93.371	0.001	115.926	0.001	93.373	-0.001				
5400	19.804	116.674	97.332	116.671	0.003	97.330	0.002	116.673	0.001	97.333	-0.001				
5600	19.809	117.395	101.294	117.391	0.004	101.292	0.002	117.394	0.001	101.294	0.000				
5800	19.813	118.090	105.256	118.087	0.003	105.255	0.001	118.089	0.001	105.255	0.001				
6000	19.817	118.762	109.219	118.759	0.003	109.222	-0.003	118.760	0.002	109.217	0.002				

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TUNGSTEN PENTACHLORIDE (L) CL 5W 1 0 0 0 0 1266
 MOL. WT. = 361.110 BLOCK = 3475 NO. POINT = 14
 DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -118.400 KEY = 735
 FITS FOR NOTS RMS = 0.000250
 17 1 74 0 0 0 0 0 0 0 TUNGSTEN PENTACHLORIDE (L) 20J1266 735
 .3092666E+1+1.0184965E+0-9.0231817E-1+2.6970529E-1 400 1500 21J1266 735
 .2094726E-2-1.3121607E+2+1.1138922E+2-1.1839999E+2CL5W(L) 22J1266 735

TUNG
 MOL
 DATA
 FITS
 5 17 1
 +3.0377
 +7.2753

FITS FOR EST RMS LOW = 0.000200 RMS HIGH = 0.000200
 17 1 74 0 0 0 0 0 0 0 TUNGSTEN PENTACHLORIDE (L) 20CL5W*
 18399+6+117516+6+435161+2-107068-4-422400+4+159819+3 4001500J126621CL5W*
 18399+6+117516+6+435161+2-107068-4-422400+4+159819+3 4001500J126622CL5W*

FITS
 5 17 1
 -985999
 -985999

T/M	-----NOTS-----								-----EST-----			
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
171	400	43.500	72.176	4.430	72.176	0.000	4.430	0.000	72.179	-0.003	4.431	-0.001
159	600	43.500	81.883	8.780	81.883	-0.000	8.780	0.000	81.884	-0.001	8.780	-0.000
138	800	43.500	89.814	13.130	89.814	0.000	13.130	0.000	89.814	-0.000	13.130	0.000
104	1000	43.500	96.520	17.480	96.519	0.001	17.480	0.000	96.519	0.001	17.480	0.000
117	1200	43.500	102.328	21.830	102.328	-0.000	21.830	0.000	102.328	-0.000	21.830	0.000
120	1400	43.500	107.452	26.180	107.452	-0.000	26.180	-0.000	107.452	0.000	26.180	0.000
114	1600	43.500	112.035	30.530	112.035	-0.000	30.530	-0.000	112.035	-0.000	30.530	0.000
105	1800	43.500	116.181	34.880	116.181	-0.000	34.880	-0.000	116.181	-0.000	34.880	-0.000
108	2000	43.500	119.966	39.230	119.966	-0.000	39.230	-0.000	119.966	-0.000	39.230	-0.000
116	2200	43.500	123.448	43.580	123.448	0.000	43.580	0.000	123.448	-0.000	43.580	-0.000
110	2400	43.500	126.671	47.930	126.671	-0.000	47.930	0.000	126.672	-0.001	47.930	-0.000
113	2600	43.500	129.673	52.280	129.673	0.000	52.280	-0.000	129.673	0.000	52.280	0.000

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TUNGSTEN PENTACHLORIDE (G) CL 5W 1 0 0 0 0 1266
 MOL. WT. = 361.110 BLCK = 3477 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -98.600 KEY = 736
 FITS FOR NOTS RMS = 0.014997
 5 17 1 74 0 0 0 0 0 0 0 TUNGSTEN PENTACHLORIDE (G) 10J1266 736
 +3.0377883E+1+1.0606060E+0-1.1417573E-1+1.7430474E-3 400 6000 11J1266 736
 +7.2753906E-2-1.0776356E+2+1.3297155E+2-9.8599990E+1CL5W(G) 12J1266 736

FITS FOR EST RMS LOW = 0.006104 RMS HIGH = 0.011735
 5 17 1 74 0 0 0 0 0 0 0 TUNGSTEN PENTACHLORIDE (G) 10CL5W
 -985999+5+857184+5+310395+2+523850-3-120352+6+169018+3 4003000J126611CL5W
 -985999+5+857315+5+342479+2-148292-3-116679+8+169018+33C006000J126612CL5W

T /M	-----NOTS-----						-----EST-----					
	K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
001	400	29.979	105.576	2.998	105.324	0.252	2.888	0.110	105.485	0.091	2.961	0.037
000	600	30.947	117.951	9.108	117.969	-0.018	9.125	-0.017	117.966	-0.015	9.121	-0.013
000	800	31.311	126.911	15.339	126.948	-0.037	15.368	-0.029	126.927	-0.016	15.352	-0.013
000	1000	31.490	133.919	21.621	133.939	-0.020	21.634	-0.013	133.924	-0.005	21.624	-0.003
000	1200	31.608	139.671	27.931	139.676	-0.005	27.928	0.003	139.670	0.001	27.927	0.004
000	1400	31.711	144.552	34.263	144.549	0.003	34.250	0.013	144.548	0.004	34.257	0.006
000	1600	31.817	148.793	40.616	148.788	0.005	40.600	0.016	148.791	0.002	40.611	0.005
000	1800	31.930	152.547	46.991	152.544	0.003	46.977	0.014	152.546	0.001	46.989	0.002
000	2000	32.047	155.917	53.388	155.916	0.001	53.380	0.008	155.918	-0.001	53.389	-0.001
000	2200	32.166	158.977	59.810	158.979	-0.002	59.806	0.004	158.979	-0.002	59.812	-0.002
000	2400	32.281	161.781	66.254	161.785	-0.004	66.256	-0.002	161.782	-0.001	66.256	-0.002
000	2600	32.392	164.369	72.722	164.374	-0.005	72.727	-0.005	164.370	-0.001	72.722	-0.000
	2800	32.494	166.773	79.211	166.779	-0.006	79.217	-0.006	166.774	-0.001	79.209	0.002
	3000	32.588	169.019	85.719	169.025	-0.006	85.726	-0.007	169.019	0.000	85.718	0.001
	3000	32.588	169.019	85.719	169.025	-0.006	85.726	-0.007	169.019	0.000	85.732	-0.013
	3200	32.673	171.125	92.245	171.130	-0.005	92.252	-0.007	171.121	0.004	92.246	-0.001
	3400	32.748	173.108	98.788	173.113	-0.005	98.792	-0.004	173.103	0.005	98.783	0.005
	3600	32.814	174.981	105.344	174.986	-0.005	105.347	-0.003	174.976	0.005	105.338	0.006
	3800	32.870	176.757	111.912	176.761	-0.004	111.913	-0.001	176.752	0.005	111.908	0.004
	4000	32.917	178.444	118.491	178.448	-0.004	118.490	0.001	178.440	0.004	118.488	0.003
	4200	32.956	180.051	125.079	180.055	-0.004	125.077	0.002	180.047	0.004	125.077	0.002
	4400	32.987	181.585	131.673	181.589	-0.004	131.671	0.002	181.581	0.004	131.673	0.000
	4600	33.012	183.052	138.273	183.055	-0.004	138.271	0.002	183.048	0.004	138.274	-0.001
	4800	33.029	184.457	144.877	184.461	-0.004	144.876	0.001	184.454	0.003	144.878	-0.001
	5000	33.041	185.806	151.484	185.810	-0.004	151.484	0.000	185.802	0.004	151.485	-0.001
	5200	33.048	187.102	158.093	187.106	-0.004	158.094	-0.001	187.098	0.004	158.094	-0.001
	5400	33.050	188.349	164.703	188.354	-0.005	164.705	-0.002	188.345	0.004	164.703	-0.000
	5600	33.048	189.551	171.313	189.556	-0.005	171.315	-0.002	189.547	0.004	171.312	0.001
	5800	33.042	190.711	177.922	190.715	-0.004	177.922	-0.000	190.707	0.004	177.921	0.001
	6000	33.034	191.831	184.530	191.834	-0.003	184.527	0.003	191.827	0.004	184.529	0.001

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T	NOTS						EST					
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
400	46.000	69.890	4.478	69.956	-0.066	4.522	-0.044	70.435	-0.545	4.693	-0.215	
500	50.000	82.807	10.278	82.573	0.234	10.165	0.113	82.268	0.539	9.998	0.280	
600	53.100	92.224	15.448	92.329	-0.105	15.515	-0.067	92.150	0.074	15.420	0.028	
700	54.820	100.551	20.852	100.614	-0.063	20.890	-0.038	100.608	-0.057	20.907	-0.055	
800	55.650	107.935	26.382	107.927	0.008	26.368	0.014	107.989	-0.054	26.435	-0.053	
900	55.950	114.510	31.965	114.483	0.027	31.935	0.030	114.532	-0.022	31.990	-0.025	
1000	56.000	120.408	37.563	120.400	0.008	37.551	0.012	120.404	0.004	37.564	-0.001	
1100	56.000	125.745	43.163	125.760	-0.015	43.175	-0.012	125.729	0.016	43.151	0.012	
1200	56.000	130.618	48.763	130.638	-0.020	48.782	-0.019	130.598	0.020	48.747	0.016	
1300	56.000	135.100	54.363	135.107	-0.007	54.364	-0.001	135.084	0.016	54.351	0.012	
1400	56.000	139.250	59.963	139.242	0.008	59.944	0.019	139.241	0.009	59.961	0.002	
1500	56.000	143.114	65.563	143.123	-0.009	65.570	-0.007	143.114	0.000	65.574	-0.011	

**T
K
400
500
600
700
800
900
1000
1100
1200
1300
1400
1500**

LUNGST
MOL. W
ATA PRO
ITS FOR
17 1 74
.7773269
.3911132

PITS FOR
 17 1 74
 18000+64
 18000+64

	C/H-	CH
100	35.79	
0	36.85	
100	37.23	
0	37.42	
100	37.52	
0	37.58	
100	37.62	
0	37.65	
100	37.67	
200	37.68	
400	37.69	
0	37.70	
100	37.71	
0	37.71	
200	37.71	
400	37.72	
0	37.72	
100	37.73	
0	37.73	
100	37.73	
400	37.73	
0	37.74	
100	37.74	
0	37.74	
100	37.74	
400	37.74	
0	37.74	
100	37.74	
400	37.74	
0	37.74	

N
DA
FI
1
+1.3
-5.8

FI
1
+ 100
+ 100

DH	KC/M
-0.001	0.000
-0.000	0.000
0.000	0.000
0.000	0.000
0.000	0.000
0.000	0.000
-0.000	0.000
-0.000	0.000
-0.000	0.000
-0.000	0.000
0.000	0.000

NOTS-----								EST-----				T
CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	
C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
35.793	110.486	3.584	110.508	-0.022	3.587	-0.003	110.502	-0.016	3.591	-0.007	400	
36.850	125.239	10.868	125.234	0.005	10.859	0.009	125.239	0.000	10.868	0.000	600	
37.239	135.901	18.282	135.894	0.007	18.272	0.010	135.900	0.001	18.281	0.001	800	
37.423	144.233	25.750	144.227	0.006	25.741	0.009	144.232	0.001	25.750	0.000	1000	
37.524	151.065	33.246	151.061	0.004	33.238	0.008	151.065	0.000	33.246	0.000	1200	
37.585	156.855	40.758	156.852	0.003	40.751	0.007	156.854	0.001	40.757	0.001	1400	
37.625	161.876	48.279	161.874	0.002	48.274	0.005	161.876	0.000	48.279	0.000	1600	
37.653	166.310	55.807	166.309	0.001	55.804	0.003	166.309	0.001	55.807	0.000	1800	
37.672	170.278	63.339	170.278	0.000	63.338	0.001	170.277	0.001	63.339	-0.000	2000	
37.687	173.869	70.875	173.869	-0.000	70.875	-0.000	173.869	0.000	70.875	-0.000	2200	
37.698	177.149	78.414	177.149	-0.000	78.415	-0.001	177.148	0.001	78.414	0.000	2400	
37.706	180.167	85.954	180.167	-0.000	85.956	-0.002	180.166	0.001	85.954	-0.000	2600	
37.713	182.961	93.496	182.962	-0.001	93.498	-0.002	182.961	0.000	93.496	-0.000	2800	
37.719	185.563	101.040	185.565	-0.002	101.042	-0.002	185.563	0.000	101.040	0.000	3000	
37.719	185.563	101.040	185.565	-0.002	101.042	-0.002	185.563	0.000	101.049	-0.009	3200	
37.723	187.998	108.584	187.999	-0.001	108.586	-0.002	187.995	0.003	108.586	-0.002	3400	
37.727	190.285	116.129	190.286	-0.001	116.131	-0.002	190.281	0.004	116.127	0.002	3600	
37.730	192.441	123.675	192.443	-0.002	123.677	-0.002	192.437	0.004	123.671	0.004	3800	
37.733	194.481	131.221	194.483	-0.002	131.223	-0.002	194.477	0.004	131.216	0.005	4000	
37.735	196.417	138.768	196.418	-0.001	138.769	-0.001	196.412	0.005	138.764	0.004	4200	
37.737	198.258	146.315	198.259	-0.001	146.316	-0.001	198.254	0.004	146.312	0.003	4400	
37.739	200.014	153.863	200.014	-0.000	153.863	-0.000	200.010	0.004	153.861	0.002	4600	
37.740	201.691	161.410	201.692	-0.001	161.410	-0.000	201.687	0.004	161.410	0.000	4800	
37.742	203.297	168.959	203.298	-0.001	168.958	0.001	203.294	0.003	168.959	-0.000	5000	
37.743	204.838	176.507	204.839	-0.001	176.506	0.001	204.835	0.003	176.508	-0.002	5200	
37.744	206.318	184.056	206.319	-0.001	184.055	0.001	206.315	0.003	184.058	-0.002	5400	
37.745	207.743	191.605	207.743	-0.000	191.604	0.001	207.740	0.003	191.606	-0.001	5600	
37.745	209.116	199.154	209.116	-0.000	199.153	0.001	209.112	0.004	199.154	-0.000	5800	
37.746	210.440	206.703	210.441	-0.001	206							

TUNGSTIC ACID (G) H 20 4W 1 0 (0 367
 MOL. WT. = 249.860 BLCK = 3500 NO. POINT = 62
 ATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -216.500 KEY = 742
 FITS FOR NOTS RMS = 0.028379
 1 4 8 1 74 0 0 0 0 0 TUNGSTIC ACID (G) 10J 367 742
 .4794372E+1+1.7370843E+0-3.6765289E-1+2.6576101E-2 400 6000 11J 367 742
 .9189453E+0-2.3242289E+2+1.1762895E+2-2.1650000E+2H2O4W(G) 12J 367 742

FITS FOR EST RMS LOW = 0.045589 RMS HIGH = 0.011247
 1 4 8 1 74 0 0 0 0 0 TUNGSTIC ACID (G) 10H2O4W
 16500+6+941741+5+358792+2+571859-3-212998+7+159765+3 4003000J 36711H2O4W
 16500+6+941613+5+379860+2-345183-4-656332+7+159765+330006000J 36712H2O4W

C/M	-----NOTS-----												T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
.045	400	27.446	91.746	2.656	92.410	-0.664	2.924	-0.268	92.524	-0.778	2.975	-0.319	400
.014	600	30.811	103.583	8.518	103.498	0.085	8.439	0.079	103.488	0.095	8.433	0.085	600
.010	800	32.772	112.737	14.891	112.641	0.096	14.807	0.084	112.630	0.107	14.802	0.089	800
.003	1000	34.056	120.197	21.582	120.151	0.046	21.543	0.039	120.152	0.045	21.548	0.034	1000
.002	1200	34.932	126.489	28.486	126.474	0.015	28.482	0.004	126.482	0.007	28.495	-0.009	1200
.003	1400	35.548	131.922	35.538	131.922	0.000	35.551	-0.013	131.931	-0.009	35.566	-0.028	1400
.002	1600	35.991	136.699	42.694	136.702	-0.003	42.712	-0.018	136.709	-0.010	42.723	-0.029	1600
.000	1800	36.317	140.958	49.926	140.960	-0.002	49.942	-0.016	140.962	-0.004	49.945	-0.019	1800
.001	2000	36.564	144.798	57.215	144.796	0.002	57.225	-0.010	144.794	0.004	57.220	-0.005	2000
.001	2200	36.754	148.292	64.548	148.287	0.005	64.551	-0.003	148.282	0.010	64.539	0.009	2200
.001	2400	36.902	151.497	71.914	151.489	0.008	71.912	0.002	151.483	0.014	71.898	0.016	2400
.000	2600	37.021	154.456	79.307	154.447	0.009	79.301	0.006	154.442	0.014	79.291	0.016	2600
.002	2800	37.117	157.203	86.721	157.193	0.010	86.714	0.007	157.194	0.009	86.717	0.004	2800
.003	3000	37.196	159.766	94.152	159.757	0.009	94.146	0.006	159.766	0.000	94.174	-0.022	3000
.001	3000	37.196	159.766	94.152	159.757	0.009	94.146	0.006	159.766	0.000	94.161	-0.009	3000
.001	3200	37.261	162.169	101.598	162.160	0.009	101.594	0.004	162.166	0.003	101.600	-0.002	3200
.002	3400	37.315	164.430	109.056	164.422	0.008	109.054	0.002	164.426	0.004	109.054	0.002	3400
.001	3600	37.361	166.564	116.524	166.557	0.007	116.524	-0.000	166.560	0.004	116.520	0.004	3600
.002	3800	37.401	168.585	124.000	168.578	0.007	124.003	-0.003	168.580	0.005	123.996	0.004	3800
.002	4000	37.434	170.504	131.484	170.498	0.006	131.489	-0.005	170.500	0.004	131.480	0.004	4000
.001	4200	37.463	172.331	138.973	172.326	0.005	138.979	-0.006	172.327	0.004	138.970	0.003	4200
.000	4400	37.489	174.075	146.469	174.069	0.006	146.474	-0.005	174.071	0.004	146.467	0.002	4400
.001	4600	37.511	175.742	153.969	175.735	0.007	153.973	-0.004	175.738	0.004	153.968	0.001	4600
.000	4800	37.531	177.339	161.473	177.332	0.007	161.475	-0.002	177.335	0.004	161.474	-0.001	4800
.000	5000	37.548	178.871	168.981	178.864	0.007	168.980	0.001	178.868	0.003	168.982	-0.001	5000
.001	5200	37.564	180.344	176.492	180.336	0.008	176.488	0.004	180.341	0.003	176.494	-0.002	5200
.000	5400	37.577	181.762	184.006	181.754	0.008	184.001	0.005	181.759	0.003	184.008	-0.002	5400
.000	5600	37.590	183.129	191.523	183.121	0.008	191.518	0.005	183.125	0.004	191.523	-0.001	5600
.001	5800	37.601	184.448	199.042	184.441	0.007	199.041	0.001	184.444	0.004	199.041	0.001	5800
.001	6000	37.611	185.723	206.563	185.717	0.006	206.570	-0.007	185.719	0.004	206.560	0.003	6000

POTASSIUM MONOXIDE (G) K 10 1 0 0 0 0 1267

MOL. WT.= 55.100 BLOCK= 3506 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 17.000 KEY = 743

FITS FOR NOTS RMS = 0.001580

1 8 1 19 0 0 0 0 0 0 0 POTASSIUM MONOXIDE (G) 10J1267 743
+8.9487018E+0+2.2438371E-1+4.9050984E-5+3.7658450E-5 400 6000 11J1267 743
-4.3899536E-2+1.4179916E+1+6.7396942E+1+1.7000000E+1KO (G) 12J1267 743

FITS FOR EST RMS LOW = 0.000499 RMS HIGH = 0.003126

1 8 1 19 0 0 0 0 0 0 0 POTASSIUM MONOXIDE (G) 10KO
+170000+5+250508+5+894431+1+225935-3-421920+5+779039+2 4003000J126711KO
+170000+5+250533+5+901281+1+216591-3-496304+6+779039+230005000J126712KO

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	ES	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
9	400	8.791	59.420	0.887	59.424	-0.004	0.887	-0.000	59.424	-0.004	0.888	-0.001
5	600	8.966	63.022	2.665	63.021	0.001	2.663	0.002	63.023	-0.001	2.665	0.000
9	800	9.060	65.616	4.468	65.614	0.002	4.466	0.002	65.615	0.001	4.468	0.000
4	1000	9.128	67.645	6.287	67.643	0.002	6.285	0.002	67.645	0.000	6.287	0.000
9	1200	9.186	69.314	8.118	69.313	0.001	8.117	0.001	69.314	0.000	8.118	-0.000
8	1400	9.239	70.734	9.961	70.733	0.001	9.959	0.002	70.734	-0.000	9.961	0.000
9	1600	9.289	71.971	11.814	71.971	0.000	11.813	0.001	71.971	-0.000	11.814	0.000
9	1800	9.338	73.068	13.676	73.068	0.000	13.676	0.000	73.068	-0.000	13.676	-0.000
5	2000	9.386	74.054	15.549	74.054	-0.000	15.548	0.001	74.054	-0.000	15.549	0.000
9	2200	9.433	74.951	17.431	74.951	-0.000	17.430	0.001	74.951	-0.000	17.431	0.000
6	2400	9.479	75.774	19.322	75.774	0.000	19.322	0.000	75.774	0.000	19.322	0.000
6	2600	9.526	76.534	21.222	76.535	-0.001	21.223	-0.001	76.534	-0.000	21.222	-0.000
4	2800	9.572	77.242	23.132	77.242	-0.000	23.132	-0.000	77.242	-0.000	23.132	0.000
2	3000	9.618	77.904	25.051	77.904	-0.000	25.052	-0.001	77.904	0.000	25.051	0.000
9	3000	9.618	77.904	25.051	77.904	-0.000	25.052	-0.001	77.904	0.000	25.053	-0.002
2	3200	9.664	78.526	26.979	78.526	-0.000	26.980	-0.001	78.526	0.000	26.980	-0.001
2	3400	9.710	79.113	28.917	79.114	-0.001	28.917	-0.000	79.113	0.000	28.916	0.001
4	3600	9.756	79.670	30.863	79.670	0.000	30.864	-0.001	79.669	0.001	30.862	0.001
4	3800	9.801	80.198	32.819	80.199	-0.001	32.819	-0.000	80.197	0.001	32.818	0.001
4	4000	9.847	80.702	34.784	80.703	-0.001	34.784	-0.000	80.701	0.001	34.783	0.001
3	4200	9.893	81.184	36.758	81.184	-0.000	36.758	-0.000	81.183	0.001	36.757	0.001
2	4400	9.938	81.645	38.741	81.645	-0.000	38.741	-0.000	81.644	0.001	38.741	0.000
1	4600	9.984	82.088	40.733	82.088	-0.000	40.733	-0.000	82.087	0.001	40.733	-0.000
1	4800	10.029	82.514	42.735	82.514	0.000	42.734	0.001	82.513	0.001	42.735	0.000
1	5000	10.075	82.924	44.745	82.924	-0.000	44.745	0.000	82.923	0.001	44.746	-0.001
2	5200	10.120	83.320	46.765	83.320	-0.000	46.764	0.001	83.320	0.000	46.765	-0.000
2	5400	10.166	83.703	48.793	83.703	-0.000	48.793	-0.000	83.702	0.001	48.794	-0.001
1	5600	10.211	84.074	50.831	84.074	0.000	50.831	0.000	84.073	0.001	50.831	-0.000
1	5800	10.257	84.433	52.878	84.433	0.000	52.878	0.000	84.432	0.001	52.878	0.000
3	6000	10.302	84.781	54.934	84.781	-0.000	54.934	-0.000	84.780	0.001	54.933	0.001

POTASSIUM BOROHYDRIDE (C) B 1H 4K 1 1264
 MOL. WT.= 53.940 BLCK= 3512 NO. POINT = 22
 DATA FROM 0 TO 2000 K HPORN(KCAL/(MOLE)) = -54.230 KEY = 744
 FITS FOR NOTS RMS = 0.012068
 4 1 1 5 1 19 0 0 0 0 0 POTASSIUM BOROHYDRIDE (C) 30J1264 744
 +2.2221496E+1+1.5869697E+1-1.0380658E+1+2.3222970E+0 400 2000 31J1264 744
 -8.5046386E-1-6.3849487E+1+4.4708358E+1-5.4229995E+1BH4K(C) 32J1264 744

LI:
 M:
 DAT:
 FIT:
 4 1
 +3.09
 -1.47

FITS FOR EST RMS LOW = 0.014848 RMS HIGH = 0.014848
 4 1 1 5 1 19 0 0 0 0 0 POTASSIUM BOROHYDRIDE (C) 30BH4K\$
 -542299+5+794636+5+304360+2+279917-3-156716+7+898987+2 4002000J126431BH4K\$
 -542299+5+794636+5+304360+2+279917-3-156716+7+898987+2 4002000J126432BH4K\$

FIT:
 4 1
 -4552
 -4552

-----NOTS-----										-----EST-----				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		T	
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		K	
400	24.120	32.456	2.420	32.572	-0.116	2.458	-0.038	32.656	-0.200	2.488	-0.068		400	
500	24.410	37.866	4.845	37.741	0.125	4.780	0.065	37.712	0.154	4.761	0.084		500	
600	25.343	42.383	7.324	42.359	0.024	7.315	0.009	42.332	0.051	7.298	0.026		600	
700	27.540	46.440	9.959	46.481	-0.041	9.991	-0.032	46.474	-0.034	9.986	-0.027		700	
800	28.300	50.169	12.752	50.184	-0.015	12.765	-0.013	50.191	-0.022	12.771	-0.019		800	
900	28.830	53.534	15.610	53.535	-0.001	15.610	-0.000	53.547	-0.013	15.621	-0.011		900	
1000	29.240	56.594	18.514	56.587	0.007	18.508	0.006	56.598	-0.004	18.517	-0.003		1000	
1100	29.490	59.393	21.451	59.384	0.009	21.443	0.008	59.391	0.002	21.447	0.004		1100	
1200	29.700	61.968	24.411	61.962	0.006	24.406	0.005	61.964	0.004	24.404	0.007		1200	
1300	29.856	64.352	27.389	64.350	0.002	27.389	0.000	64.347	0.005	27.383	0.006		1300	
1400	30.000	66.570	30.382	66.571	-0.001	30.386	-0.004	66.567	0.003	30.378	0.004		1400	
1500	30.129	68.644	33.388	68.646	-0.002	33.394	-0.006	68.643	0.001	33.387	0.001		1500	
1600	30.250	70.592	36.407	70.594	-0.002	36.411	-0.004	70.594	-0.002	36.409	-0.002		1600	
1700	30.363	72.429	39.438	72.428	0.001	39.438	0.000	72.432	-0.003	39.441	-0.003		1700	
1800	30.467	74.167	42.480	74.164	0.003	42.475	0.005	74.170	-0.003	42.483	-0.003		1800	
1900	30.563	75.817	45.531	75.814	0.003	45.526	0.005	75.819	-0.002	45.532	-0.001		1900	
2000	30.650	77.387	48.592	77.388	-0.001	48.596	-0.004	77.387	0.000	48.589	0.003		2000	

LITHIUM BOROHYDRIDE (C) B 1H 4LI 1 1264
 MOL. WT.= 21.780 BLOCK= 3515 NO. POINT = 22
 DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -45.522 KEY = 745
 FITS FOR NOTS RMS = 0.003813
 4 1 1 5 1 71 0 0 0 0 0 LITHIUM BOROHYDRIDE (C) 30J1264 745
 +3.0935699E+1-3.7693386E+0+2.2941427E+0-3.7853264E-1 400 2000 31J1264 745
 -1.4753417E+0-5.9196258E+1+4.9334487E+1-4.5521987E+1BH4LI (C) 32J1264 745

FITS FOR EST RMS LOW = 0.007872 RMS HIGH = 0.007872
 4 1 1 5 1 71 0 0 0 0 0 LITHIUM BOROHYDRIDE (C) 30BH4LI\$
 -455219+5+755418+5+279919+2+696376-3-111520+7+789696+2 4002000J126431BH4LI\$
 -455219+5+755418+5+279919+2+696376-3-111520+7+789696+2 4002000J126432BH4LI\$

DH KC/M	-----NOTS-----								-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
0.068	400	21.750	24.231	2.123	24.267	-0.036	2.133	-0.010	24.181	0.050	2.101	0.022
0.084	500	23.490	29.273	4.385	29.229	0.044	4.363	0.022	29.242	0.031	4.374	0.011
0.026	600	25.130	33.708	6.821	33.705	0.003	6.820	0.001	33.734	-0.026	6.840	-0.019
0.027	700	26.270	37.672	9.394	37.686	-0.014	9.404	-0.010	37.708	-0.036	9.419	-0.025
0.019	800	27.020	41.234	12.062	41.238	-0.004	12.065	-0.003	41.248	-0.014	12.071	-0.009
0.011	900	27.330	44.435	14.780	44.431	0.004	14.776	0.004	44.432	0.003	14.774	0.006
0.003	1000	27.570	47.327	17.525	47.324	0.003	17.522	0.003	47.320	0.007	17.516	0.009
0.004	1100	27.818	49.967	20.295	49.966	0.001	20.295	0.000	49.961	0.006	20.287	0.008
0.007	1200	28.040	52.397	23.088	52.398	-0.001	23.089	-0.001	52.393	0.004	23.082	0.006
0.006	1300	28.207	54.648	25.900	54.649	-0.001	25.902	-0.002	54.646	0.002	25.896	0.004
0.004	1400	28.366	56.744	28.729	56.745	-0.001	28.730	-0.001	56.744	-0.000	28.728	0.001
0.001	1500	28.517	58.706	31.573	58.707	-0.001	31.574	-0.001	58.708	-0.002	31.575	-0.002
0.002	1600	28.660	60.551	34.432	60.551	-0.000	34.432	-0.000	60.555	-0.004	34.436	-0.004
0.003	1700	28.795	62.293	37.305	62.292	0.001	37.304	0.001	62.296	-0.003	37.309	-0.004
0.003	1800	28.921	63.942	40.191	63.942	0.000	40.190	0.001	63.945	-0.003	40.194	-0.003
0.001	1900	29.040	65.509	43.089	65.509	0.000	43.088	0.001	65.511	-0.002	43.089	-0.000
0.003	2000	29.150	67.001	45.999	67.002	-0.001	46.000	-0.001	67.001	0.000	45.995	0.004

TITANIUM MONOBORIDE (C) B 1TI 1 665
 MOL. WT. = 58.710 BLOCK = 3517 NO. POINT = 39
 PA FROM 298 TO 4000 K HFORM(KCAL/(MOLE)) = -38.300 KEY = 746
 PS FOR NOTS RMS = 0.004351
 5 1 22 0 0 0 0 0 0 0 TITANIUM MONOBORIDE (C) 30J 665 746
 281805E+1-6.8307960E-1+3.0621743E-1-3.1620249E-2 400 4000 31J 665 746
 311828E-1-4.3956115E+1+2.1597702E+1-3.8299987E+1BTI(C) 32J 665 746

MAGNESI
 MOL. W
 DATA FRC
 FITS FOR
 2 5 1 12
 +1.3150538
 -4.5437622

TS FOR EST RMS LOW = 0.013983 RMS HIGH = 0.013983
 5 1 22 0 0 0 0 0 0 0 TITANIUM MONOBORIDE (C) 30BTIS
 999+5+333992+5+122481+2+287121-3-210352+6+352599+2 4004000J 66531BTIS
 999+5+333992+5+122481+2+287121-3-210352+6+352599+2 4004000J 66532BTIS

FITS FOR
 2 5 1 12
 -219799+54
 -219799+54

-----NOTS-----												-----EST-----	
CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		T	CI
C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		K	C/M-K
9.640	10.771	0.863	10.719	0.052	0.841	0.022	10.480	0.291	0.741	0.122		400	12.30
11.608	15.128	3.025	15.141	-0.013	3.033	-0.008	15.139	-0.011	3.044	-0.019		500	13.20
12.168	18.560	5.414	18.565	-0.005	5.416	-0.002	18.592	-0.032	5.446	-0.032		600	14.10
12.408	21.304	7.874	21.304	0.000	7.871	0.003	21.323	-0.019	7.895	-0.021		700	14.90
12.506	23.577	10.367	23.573	0.004	10.361	0.006	23.582	-0.005	10.372	-0.005		800	15.70
12.570	25.509	12.875	25.507	0.002	12.871	0.004	25.508	0.001	12.872	0.003		900	16.40
12.634	27.192	15.395	27.192	-0.000	15.395	0.000	27.188	0.004	15.389	0.006		1000	17.10
12.698	28.684	17.929	28.686	-0.002	17.931	-0.002	28.680	0.004	17.921	0.008		1100	17.50
12.762	30.025	20.475	30.028	-0.003	20.478	-0.003	30.021	0.004	20.468	0.007		1200	18.10
12.826	31.244	23.033	31.247	-0.003	23.037	-0.004	31.242	0.002	23.029	0.004		1300	18.70
12.890	32.363	25.605	32.365	-0.002	25.607	-0.002	32.361	0.002	25.603	0.002		1400	19.40
12.954	33.397	28.189	33.399	-0.002	28.190	-0.001	33.396	0.001	28.189	-0.000		1500	19.90
13.018	34.360	30.787	34.361	-0.001	30.786	0.001	34.359	0.001	30.788	-0.001		1600	20.50
13.082	35.260	33.397	35.261	-0.001	33.395	0.002	35.260	0.000	33.399	-0.002		1700	21.00
13.146	36.106	36.019	36.107	-0.001	36.018	0.001	36.106	-0.000	36.022	-0.003		1800	21.50
13.210	36.905	38.655	36.906	-0.001	38.654	0.001	36.905	-0.000	38.658	-0.003		1900	22.00
13.274	37.662	41.303	37.663	-0.001	41.303	-0.000	37.662	0.000	41.305	-0.002		2000	22.50
13.338	38.382	43.965	38.383	-0.001	43.965	-0.000	38.381	0.001	43.964	0.001			
13.402	39.067	46.639	39.068	-0.001	46.639	0.000	39.066	0.001	46.635	0.004			

MAGNESIUM DIBORIDE

(C) B 2MG 1

365

MOL. WT. = 45.930 BLOCK = 3521 NO. POINT = 22

DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -21.980 KEY = 747

FITS FOR NOTS RMS = 0.005158

2 5 1 12 0 0 0 0 0 0 0 MAGNESIUM DIBORIDE (C) 30J 365 747
+1.3150538E+1+2.8370628E+0+2.0186414E+0-5.3846263E-1 400 2000 31J 365 747
-4.5437622E-1-2.7425399E+1+2.1452911E+1-2.1979995E+1B2MG(C) 32J 365 747

FITS FOR EST RMS LOW = 0.007839 RMS HIGH = 0.007839

2 5 1 12 0 0 0 0 0 0 0 MAGNESIUM DIBORIDE (C) 30B2MG\$
-219799+5+552260+5+122905+2+520761-2-452496+6+490605+2 4002000J 36531B2MG\$
-219799+5+552260+5+122905+2+520761-2-452496+6+490605+2 4002000J 36532B2MG\$

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H
22	400	12.300	12.079	1.208	12.108	-0.029	1.217	-0.009	12.145	-0.066	1.234	-0.026
19	500	13.200	14.920	2.483	14.895	0.025	2.469	0.014	14.900	0.020	2.471	0.012
32	600	14.100	17.408	3.849	17.393	0.015	3.841	0.008	17.385	0.023	3.835	0.014
21	700	14.900	19.641	5.298	19.645	-0.004	5.303	-0.005	19.633	0.008	5.295	0.003
05	800	15.720	21.685	6.830	21.697	-0.012	6.840	-0.010	21.687	-0.002	6.834	-0.004
03	900	16.470	23.581	8.440	23.588	-0.007	8.446	-0.006	23.581	-0.000	8.443	-0.003
06	1000	17.150	25.352	10.122	25.347	0.005	10.116	0.006	25.344	0.008	10.116	0.006
08	1100	17.581	27.006	11.858	26.997	0.009	11.848	0.010	26.997	0.009	11.851	0.007
07	1200	18.100	28.558	13.641	28.556	0.002	13.640	0.001	28.557	0.001	13.645	-0.004
04	1300	18.775	30.033	15.486	30.037	-0.004	15.491	-0.005	30.038	-0.005	15.496	-0.010
02	1400	19.400	31.448	17.395	31.451	-0.003	17.399	-0.004	31.452	-0.004	17.403	-0.008
00	1500	19.963	32.806	19.363	32.807	-0.001	19.364	-0.001	32.805	0.001	19.365	-0.002
01	1600	20.500	34.111	21.386	34.110	0.001	21.385	0.001	34.107	0.004	21.383	0.003
02	1700	21.000	35.369	23.461	35.368	0.001	23.459	0.002	35.363	0.006	23.455	0.006
03	1800	21.500	36.584	25.586	36.583	0.001	25.585	0.001	36.578	0.006	25.580	0.006
03	1900	22.000	37.760	27.761	37.760	0.000	27.762	-0.001	37.756	0.004	27.759	0.002
02	2000	22.500	38.901	29.986	38.900	0.001	29.986	-0.000	38.901	0.000	29.992	-0.006
001												
004												

MO

M

AT

FIT

1

.45

.33

FIT

1

.820

.820

T

K

400

600

800

1000

1200

1400

1600

1800

2000

2200

2400

2600

2800

3000

3200

3400

3600

3800

4000

4200

4400

4600

4800

5000

5200

5400

5600

5800

6000

MONOFLUOROBOROXINE

(G) B 3F 1H 20 3

1265

MOL. WT.= 101.440

BLOCK= 3523

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -382.000 KEY = 748

FITS FOR NOTS RMS = 0.056859

1 3 5 3 8 1 9 0 0 0 MONOFLUOROBOROXINE

(G) 10J1265 748

.4524322E+1+3.0777568E+0-6.5852630E-1+4.7939196E-2 400 6000

11J1265 748

.3356933E+0-4.0772558E+2+1.1013037E+2-3.8200000E+2B3FH203 (G)

12J1265 748

FITS FOR EST RMS LOW = 0.090368 RMS HIGH = 0.014752

1 3 5 3 8 1 9 0 0 0 MONOFLUOROBOROXINE

(G) 10B3FH203

.82000+6+118240+6+464469+2+100325-2-470641+7+166007+3 4003000J126511B3FH203

.82000+6+118211+6+499821+2-449647-4-114511+8+166007+330006000J126512B3FH203

DH

KC/M

-0.026

0.012

0.014

0.003

-0.004

-0.003

0.006

0.007

-0.004

-0.010

-0.008

-0.002

0.003

0.006

0.006

0.002

-0.006

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	27.749	82.635	2.580	84.062	-1.427	3.156	-0.576	84.259	-1.624	3.242	-0.662
600	34.866	95.341	8.856	95.140	0.201	8.723	0.173	95.122	0.219	8.709	0.187
800	39.354	106.035	16.352	105.842	0.193	16.191	0.161	105.825	0.210	16.178	0.174
1000	42.218	115.148	24.530	115.063	0.085	24.466	0.064	115.066	0.082	24.472	0.058
1200	44.100	123.023	33.175	123.000	0.023	33.178	-0.003	123.016	0.007	33.197	-0.022
1400	45.380	129.923	42.131	129.925	-0.002	42.165	-0.034	129.943	-0.020	42.187	-0.056
1600	46.279	136.045	51.301	136.051	-0.006	51.342	-0.041	136.064	-0.019	51.357	-0.057
1800	46.930	141.535	60.626	141.537	-0.002	60.658	-0.032	141.543	-0.008	60.661	-0.035
2000	47.415	146.506	70.063	146.501	0.005	70.082	-0.019	146.499	0.007	70.070	-0.007
2200	47.785	151.043	79.584	151.031	0.012	79.590	-0.006	151.024	0.019	79.567	0.017
2400	48.072	155.214	89.171	155.197	0.017	89.166	0.005	155.189	0.025	89.140	0.031
2600	48.299	159.071	98.809	159.052	0.019	98.798	0.011	159.047	0.024	98.780	0.029
2800	48.482	162.657	108.488	162.637	0.020	108.474	0.014	162.642	0.015	108.482	0.006
3000	48.632	166.008	118.200	165.987	0.021	118.187	0.013	166.008	0.000	118.241	-0.041
3200	48.632	166.008	118.200	165.987	0.021	118.187	0.013	166.008	0.000	118.212	-0.012
3400	48.755	169.150	127.939	169.131	0.019	127.929	0.010	169.148	0.002	127.942	-0.003
3600	48.858	172.109	137.700	172.092	0.017	137.696	0.004	172.105	0.004	137.698	0.002
3800	48.945	174.904	147.481	174.889	0.015	147.482	-0.001	174.899	0.005	147.476	0.005
4000	49.019	177.553	157.277	177.538	0.015	157.283	-0.006	177.548	0.005	157.272	0.005
4200	49.082	180.069	167.088	180.055	0.014	167.097	-0.009	180.064	0.005	167.082	0.006
4400	49.137	182.465	176.910	182.452	0.013	176.921	-0.011	182.460	0.005	176.906	0.004
4600	49.184	184.752	186.742	184.739	0.013	186.753	-0.011	184.747	0.005	186.739	0.003
4800	49.226	186.939	196.583	186.925	0.014	196.591	-0.008	186.935	0.004	196.582	0.001
5000	49.263	189.035	206.432	189.020	0.015	206.436	-0.004	189.031	0.004	206.433	-0.001
5200	49.295	191.047	216.288	191.031	0.016	216.287	0.001	191.043	0.004	216.290	-0.002
5400	49.324	192.981	226.150	192.964	0.017	226.144	0.006	192.977	0.004	226.152	-0.002
5600	49.350	194.843	236.017	194.825	0.018	236.008	0.009	194.839	0.004	236.019	-0.002
5800	49.373	196.638	245.890	196.620	0.018	245.881	0.009	196.634	0.004	245.890	-0.000
6000	49.394	198.371	255.766	198.355	0.016	255.765	0.001	198.367	0.004	255.765	0.001
6200	49.412	200.045	265.647	200.032	0.013	265.660	-0.013	200.041	0.004	265.643	0.004

DIFLUOROBOROXINE

(G) B 3F 2H 10 3

1265

MOL. WT. = 119.430 BLOCK = 3530 NC. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -475.000 KEY = 749

FITS FOR NOTS RMS = 0.042978

1 1 3 5 3 8 2 9 0 0 0 DIFLUOROBOROXINE (G) 10J1265 749
+4.6243911E+1+2.0653919E+0-4.5159512E-1+3.3177092E-2 400 6000 11J1265 749
-3.9611816E+0-5.0031835E+2+1.1694058E+2-4.7500000E+2B3F2H03(G) 12J1265 749

FITS FOR EST RMS LOW = 0.067248 RMS HIGH = 0.014801

1 1 3 5 3 8 2 9 0 0 0 DIFLUOROBOROXINE (G) 10B3F2H03
-475000+6+120762+6+475414+2+672713-3-420819+7+172501+3 400 3000J126511B3F2H03
-475000+6+120746+6+500028+2-474627-4-930969+7+172501+330006000J126512B3F2H03

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
662	400	29.837	86.619	2.789	87.745	-1.126	3.240	-0.451	87.878	-1.259	3.300	-0.511
187	600	36.857	100.162	9.517	99.992	0.170	9.374	0.143	99.983	0.179	9.368	0.149
174	800	41.066	111.394	17.345	111.246	0.148	17.222	0.123	111.238	0.156	17.217	0.128
058	1000	43.618	120.854	25.834	120.792	0.062	25.787	0.047	120.797	0.057	25.795	0.039
022	1200	45.230	128.960	34.731	128.944	0.016	34.734	-0.003	128.957	0.003	34.750	-0.019
056	1400	46.294	136.017	43.890	136.018	-0.001	43.915	-0.025	136.032	-0.015	43.932	-0.042
057	1600	47.026	142.250	53.226	142.253	-0.003	53.255	-0.029	142.263	-0.013	53.266	-0.040
035	1800	47.548	147.820	62.686	147.820	0.000	62.709	-0.023	147.825	-0.005	62.711	-0.025
007	2000	47.933	152.851	72.236	152.846	0.005	72.249	-0.013	152.845	0.006	72.241	-0.005
017	2200	48.223	157.434	81.853	157.424	0.010	81.857	-0.004	157.420	0.014	81.841	0.012
031	2400	48.448	161.640	91.521	161.627	0.013	91.518	0.003	161.621	0.019	91.499	0.022
029	2600	48.625	165.525	101.229	165.510	0.015	101.221	0.008	165.507	0.018	101.209	0.020
006	2800	48.766	169.134	110.969	169.118	0.016	110.959	0.010	169.122	0.012	110.965	0.004
041	3000	48.882	172.502	120.734	172.487	0.015	120.725	0.008	172.502	0.000	120.763	-0.029
012	3000	48.882	172.502	120.734	172.487	0.015	120.725	0.008	172.502	0.000	120.746	-0.012
003	3200	48.976	175.660	130.520	175.646	0.014	130.514	0.006	175.657	0.003	130.523	-0.003
002	3400	49.055	178.632	140.323	178.619	0.013	140.321	0.002	178.627	0.005	140.321	0.002
005	3600	49.122	181.437	150.141	181.426	0.011	150.143	-0.002	181.432	0.005	150.137	0.004
005	3800	49.178	184.095	159.972	184.084	0.011	159.977	-0.005	184.089	0.006	159.966	0.006
006	4000	49.227	186.619	169.812	186.609	0.010	169.820	-0.008	186.613	0.006	169.807	0.005
004	4200	49.269	189.021	179.662	189.012	0.009	179.671	-0.009	189.016	0.005	179.658	0.004
003	4400	49.305	191.314	189.519	191.304	0.010	189.528	-0.009	191.309	0.005	189.517	0.002
001	4600	49.337	193.507	199.384	193.496	0.011	199.390	-0.006	193.502	0.005	199.383	0.001
001	4800	49.364	195.607	209.254	195.596	0.011	209.257	-0.003	195.603	0.004	209.254	-0.000
002	5000	49.389	197.623	219.129	197.611	0.012	219.128	0.001	197.619	0.004	219.131	-0.002
002	5200	49.411	199.560	229.009	199.548	0.012	229.005	0.004	199.556	0.004	229.011	-0.002
002	5400	49.431	201.425	238.893	201.412	0.013	238.887	0.006	201.422	0.003	238.895	-0.002
000	5600	49.448	203.223	248.781	203.210	0.012	248.775	0.006	203.219	0.004	248.782	-0.001
001	5800	49.464	204.959	258.672	204.947	0.012	258.671	0.001	204.954	0.005	258.671	0.001
004	6000	49.478	206.636	268.567	206.626	0.010	268.576	-0.010	206.631	0.005	268.562	0.005

T
K
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3200
3400
3600
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4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

BOROXINE (G) B 3H 30 3 365
 MOL. WT. = 83.450 BLOCK = 3536 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = -291.000 KEY = 750
 FITS FOR NOTS RMS = 0.069581
 1 3 5 3 8 0 0 0 0 0 BOROXINE (G) 10J 365 750
 ..2426986E+1+4.2551536E+0-8.9954620E-1+6.4912378E-2 400 6000 11J 365 750
 ..5883789E+0-3.1669824E+2+1.0117364E+2-2.9100000E+2B3H3O3 (G) 12J 365 750

DIPOL
 MOL.
 DATA 1
 FITS 1
 4 5 7
 +5.3998
 -2.1132

FITS FOR EST RMS LOW = 0.113236 RMS HIGH = 0.014612
 1 3 5 3 8 0 0 0 0 0 BOROXINE (G) 10B3H3O3
 91000+6+115550+6+451070+2+139594-2-511644+7+157365+3 4003000J 36511B3H3O3
 91000+6+115509+6+499318+2-386061-4-139179+8+157365+330006000J 36512B3H3O3

FITS 1
 4 5 7
 -796899
 -796899

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T			
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C		
100	25.753	76.594	2.386	78.268	-1.674	3.065	-0.679	78.555	-1.961	3.188	-0.802	400	49		
200	32.920	88.490	8.302	88.269	0.221	8.108	0.194	88.241	0.249	8.085	0.217	500	55		
300	37.614	98.651	15.389	98.418	0.233	15.194	0.195	98.387	0.264	15.170	0.219	600	59		
400	40.731	107.402	23.244	107.295	0.107	23.161	0.083	107.293	0.109	23.164	0.080	700	62		
500	42.856	115.028	31.615	114.998	0.030	31.617	-0.002	115.014	0.014	31.640	-0.025	800	64		
600	44.345	121.752	40.344	121.755	-0.003	40.387	-0.043	121.776	-0.024	40.415	-0.071	900	66		
700	45.416	127.748	49.326	127.756	-0.008	49.377	-0.051	127.772	-0.024	49.398	-0.072	1000	67		
800	46.205	133.145	58.492	133.148	-0.003	58.534	-0.042	133.154	-0.009	58.539	-0.047	1100	68		
900	46.800	138.045	67.795	138.040	0.005	67.821	-0.026	138.036	0.009	67.807	-0.012	1200	69		
1000	47.259	142.528	77.203	142.514	0.014	77.212	-0.009	142.503	0.025	77.182	0.021	1300	70		
1100	47.618	146.656	86.692	146.636	0.020	86.686	0.006	146.623	0.033	86.651	0.041	1400	71		
1200	47.905	150.479	96.245	150.456	0.023	96.230	0.015	150.447	0.032	96.207	0.038	1500	71		
1300	48.136	154.038	105.850	154.013	0.025	105.831	0.019	154.017	0.021	105.841	0.008	1600	72		
1400	48.326	157.366	115.497	157.341	0.025	115.479	0.018	157.366	0.000	115.551	-0.054	1700	72		
1500	48.326	157.366	115.497	157.341	0.025	115.479	0.018	157.366	0.000	115.509	-0.012	1800	73		
1600	48.483	160.490	125.178	160.466	0.024	125.165	0.013	160.487	0.003	125.181	-0.003	1900	73		
1700	48.615	163.433	134.889	163.412	0.021	134.881	0.008	163.429	0.004	134.886	0.003	2000	73		
1800	48.727	166.215	144.623	166.196	0.019	144.623	0.000	166.210	0.005	144.618	0.005				
1900	48.821	168.852	154.378	168.835	0.017	154.384	-0.006	168.847	0.005	154.373	0.005				
2000	48.903	171.359	164.151	171.342	0.017	164.162	-0.011	171.354	0.005	164.146	0.005				
2100	48.974	173.747	173.939	173.731	0.016	173.952	-0.013	173.742	0.005	173.935	0.004				
2200	49.035	176.026	183.740	176.010	0.016	183.753	-0.013	176.022	0.004	183.737	0.003				
2300	49.089	178.207	193.552	178.191	0.016	193.563	-0.011	178.203	0.004	193.551	0.000				
2400	49.136	180.297	203.375	180.280	0.017	203.380	-0.005	180.293	0.004	203.376	-0.001				
2500	49.178	182.304	213.206	182.285	0.019	213.205	0.001	182.300	0.004	213.208	-0.002				
2600	49.216	184.234	223.046	184.213	0.021	223.038	0.008	184.230	0.004	223.048	-0.002				
2700	49.249	186.092	232.852	186.071	0.021	232.881	0.011	186.088	0.004	232.894	-0.002				
2800	49.279	187.883	242.745	187.862	0.021	242.734	0.011	187.879	0.004	242.746	-0.001				
2900	49.306	189.613	252.604	189.594	0.019	252.601	0.003	189.609	0.004	252.603	0.001				
3000	49.330	191.285	262.468	191.269	0.016	262.485	-0.017	191.280	0.005	262.464	0.004				

363

MOL. WT. = 233.440 BLOCK = 3542 NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM (KCAL/(MOLE)) = -796.900 KEY = 751

PITS FOR NOTS RMS = 0.006544

4	5	7	8	2	19	0	0	0	0	0	DIPOTASSIUMTETRABORONHEPTAOXIDE	(C)	30J	363	751		
+5.3998382E+1+2.5953796E+1-1.2176676E+1+2.1434412E+0													400	2000	31J	363	751
-2.1132659E+0-8.2099584E+2+9.6486572E+1-7.9689990E+2													B4K2O7 (C)	32J	363	751	

FITS FOR EST RMS LOW = 0.034918 RMS HIGH = 0.034918

4 5 7 8 2 19 0 0 0 0 0 DIPOTASSIUMTETRABORONHEPTAOXIDE (C) 30B4K2O7\$
-796899+6+189023+6+6E5373+2+325577-2-385324+7+198225+3 4002000J 36331B4K207\$
-796899+6+189023+6+6E5373+2+325577-2-385324+7+198225+3 4002000J 36332B4K207\$

[illegible]

MAC
MC
DATA
FITS
4 5
+1.680
-5.453

FITS
4 5
-25094
-25094

[illegible]

MAGNESIUM TETRABORIDE

(C) B 4MG 1

365

MOL. WT. = 67.550 BLOCK = 3547 NO. POINT = 22

DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -25.100 KEY = 753

FITS FOR NOTS RMS = 0.008027

4 5 1 12 0 0 0 0 0 0 0 MAGNESIUM TETRABORIDE (C) 30J 365 753
 +1.6808990E+1+1.3357482E+1-1.8513793E+0-3.1323575E-1 400 2000 31J 365 753
 -5.4536437E-1-3.2376998E+1+2.6207092E+1-2.5099990E+1B4MG (C) 32J 365 753

FITS FOR EST RMS LOW = 0.042445 RMS HIGH = 0.042445

4 5 1 12 0 0 0 0 0 0 0 MAGNESIUM TETRABORIDE (C) 30B4MG\$
 -250999+5+839178+5+244117+2+505279-2-179638+7+749301+2 4002000J 36531B4MG\$
 -250999+5+839178+5+244117+2+505279-2-179638+7+749301+2 4002000J 36532B4MG\$

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-2.212	400	19.000	17.671	1.829	17.698	-0.027	1.837	-0.008	18.119	-0.448	2.006	-0.177	
0.809	500	20.800	22.106	3.820	22.081	0.025	3.806	0.014	22.051	0.055	3.776	0.043	
0.170	600	22.500	26.053	5.987	26.037	0.016	5.978	0.009	25.909	0.144	5.897	0.090	
0.261	700	23.890	29.626	8.307	29.629	-0.003	8.310	-0.003	29.516	0.110	8.239	0.068	
0.098	800	25.270	32.907	10.766	32.922	-0.015	10.778	-0.012	32.851	0.056	10.738	0.028	
-0.111	900	26.540	35.959	13.357	35.969	-0.010	13.366	-0.009	35.937	0.022	13.359	-0.002	
-0.197	1000	27.660	38.815	16.070	38.807	0.008	16.061	0.009	38.804	0.011	16.081	-0.011	
-0.151	1100	28.325	41.482	18.868	41.469	0.013	18.854	0.014	41.480	0.002	18.889	-0.021	
-0.046	1200	29.070	43.978	21.737	43.977	0.001	21.737	0.000	43.991	-0.013	21.775	-0.038	
0.040	1300	30.001	46.342	24.692	46.349	-0.007	24.702	-0.010	46.358	-0.016	24.733	-0.041	
0.097	1400	30.800	48.596	27.733	48.602	-0.006	27.741	-0.008	48.599	-0.003	27.758	-0.025	
0.105	1500	31.450	50.744	30.846	50.745	-0.001	30.848	-0.002	50.729	0.015	30.846	0.000	
0.035	1600	32.000	52.791	34.020	52.788	0.003	34.015	0.005	52.762	0.029	33.995	0.025	
-0.148	1700	32.400	54.743	37.240	54.740	0.003	37.235	0.005	54.707	0.036	37.204	0.036	
	1800	32.800	56.607	40.500	56.607	0.000	40.500	-0.000	56.574	0.033	40.471	0.029	
	1900	33.200	58.391	43.800	58.393	-0.002	43.804	-0.004	58.371	0.020	43.794	0.006	
	2000	33.600	60.104	47.140	60.103	0.001	47.139	0.001	60.104	0.000	47.174	-0.034	

DIPOTASSIUM HEXABORON DECAOXIDE (C) B 6K 20 10 365
 MOL. WT. = 303.060 BLOCK = 3550 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFCRM(KCAL/(MOLE)) = 1107.440 KEY = 754
 FITS FOR NOTS RMS = 0.043138
 510 8 2 19 0 0 0 0 0 DIPOTASSIUM HEXABORON DECAOXIDE (C) 30J 365 754
 .9730529E-1+1.7906976E+2-1.0630087E+2+2.2377899E+1 400 2000 31J 365 754
 .6319885E+0-1.1090676E+3+2.1426757E+1-1.1074399E+3B6K2010 (C) 32J 365 754

FITS FOR EST RMS LOW = 0.120139 RMS HIGH = 0.120139
 510 8 2 19 0 0 0 0 0 DIPOTASSIUM HEXABORON DECAOXIDE (C) 30B6K2010\$
 .110743+7+280096+6+965066+2+878473-2-783491+7+274211+3 4002000J 36531B6K2010\$
 .110743+7+280096+6+965066+2+878473-2-783491+7+274211+3 4002000J 36532B6K2010\$

DH KC/M	-----NOTS-----						-----EST-----						
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
-0.177	000	68.300	79.197	6.668	79.381	-0.184	6.732	-0.064	80.968	-1.771	7.326	-0.658	40
0.043	000	73.680	95.019	13.768	94.928	0.091	13.711	0.057	94.567	0.452	13.455	0.313	50
0.090	000	78.900	108.916	21.398	108.774	0.142	21.315	0.083	108.253	0.663	20.977	0.421	60
0.068	000	84.000	121.461	29.543	121.412	0.049	29.521	0.022	121.121	0.340	29.333	0.210	70
0.028	000	89.100	133.013	38.199	133.077	-0.064	38.262	-0.063	133.013	0.000	38.244	-0.045	80
-0.002	000	94.040	143.793	47.357	143.905	-0.112	47.459	-0.102	143.973	-0.180	47.553	-0.196	90
-0.011	000	98.900	153.986	57.036	153.989	-0.003	57.033	0.003	154.101	-0.115	57.168	-0.132	100
-0.021	000	99.950	163.454	66.970	163.402	0.052	66.912	0.058	163.497	-0.043	67.028	-0.058	110
-0.038	000	101.980	172.241	77.070	172.206	0.035	77.031	0.039	172.256	-0.015	77.096	-0.026	120
-0.041	000	103.580	180.468	87.350	180.455	0.013	87.338	0.012	180.457	0.011	87.342	0.008	130
-0.025	000	105.000	188.197	97.781	188.203	-0.006	97.793	-0.012	188.168	0.029	97.748	0.033	140
0.000	000	106.187	195.482	108.340	195.497	-0.015	108.367	-0.027	195.447	0.035	108.300	0.040	150
0.025	000	107.380	202.373	119.018	202.388	-0.015	119.045	-0.027	202.343	0.030	118.986	0.032	160
0.036	000	108.590	208.919	129.816	208.923	-0.004	129.824	-0.008	208.897	0.022	129.798	0.018	170
0.029	000	109.755	215.159	140.733	215.146	0.013	140.713	0.020	215.145	0.014	140.730	0.003	180
0.006	000	110.905	221.124	151.767	221.107	0.017	151.738	0.029	221.118	0.006	151.776	-0.009	190
-0.034	000	112.030	226.841	162.914	226.849	-0.008	162.933	-0.019	226.841	0.000	162.934	-0.020	200

DISODIUM HEXABORON DECAOXIDE (C) B 6NA 20 10 365
 MOL. WT. = 270.84% BLOCK= 3552 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = 1094.760 KEY = 755
 FITS FOR NOTS RMS = 0.031132
 6 510 8 2 11 0 0 0 0 0 DISODIUM HEXABORON DECAOXIDE (C) 30J 365 755
 +2.9379577E+1+1.3487344E+2-6.5178543E+1+1.0653800E+1 400 2000 31J 365 755
 -1.4307098E+0-1.1130734E+3+4.7627182E+1-1.0947597E+3B6NA2010 (C) 32J 365 755

FITS FOR EST RMS LOW = 0.225068 RMS HIGH = 0.225068
 6 510 8 2 11 0 0 0 0 0 DISODIUM HEXABORON DECAOXIDE (C) 30B6NA2010\$
 -109475+7+309860+6+114053+3+717399-2-119624+8+288552+3 4002000J 36531B6NA2010\$
 -109475+7+309860+6+114053+3+717399-2-119624+8+288552+3 4002000J 36532B6NA2010\$

	-----NOTS-----								-----EST-----				
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
658	400	67.680	73.944	6.416	74.140	-0.196	6.482	-0.066	76.811	-2.867	7.530	-1.114	
313	500	76.480	90.005	13.630	89.858	0.147	13.547	0.083	89.521	0.484	13.277	0.353	
421	600	84.550	104.673	21.687	104.565	0.108	21.628	0.059	103.722	0.951	21.089	0.598	
210	700	91.940	118.271	30.518	118.269	0.002	30.527	-0.009	117.613	0.658	30.113	0.405	
045	800	98.560	130.990	40.051	131.049	-0.059	40.105	-0.054	130.700	0.290	39.920	0.131	
196	900	104.250	142.937	50.199	142.993	-0.056	50.250	-0.051	142.889	0.048	50.274	-0.075	
132	1000	109.000	154.174	60.869	154.178	-0.004	60.871	-0.002	154.220	-0.046	61.032	-0.163	
058	1100	111.986	164.705	71.921	164.673	0.032	71.885	0.036	164.770	-0.065	72.103	-0.182	
026	1200	114.612	174.565	83.254	174.537	0.028	83.223	0.031	174.622	-0.057	83.427	-0.173	
008	1300	116.878	183.830	94.831	183.820	0.010	94.823	0.008	183.854	-0.024	94.962	-0.131	
033	1400	118.784	192.564	106.617	192.570	-0.006	106.631	-0.014	192.536	0.028	106.679	-0.062	
040	1500	120.330	200.814	118.576	200.827	-0.013	118.600	-0.024	200.729	0.085	118.555	0.021	
032	1600	121.516	208.620	130.671	208.630	-0.010	130.690	-0.019	208.486	0.134	130.574	0.097	
018	1700	122.342	216.013	142.867	216.014	-0.001	142.870	-0.003	215.851	0.162	142.723	0.144	
003	1800	122.808	223.021	155.128	223.011	0.010	155.112	0.016	222.864	0.157	154.993	0.135	
009	1900	122.914	229.665	167.417	229.653	0.012	167.397	0.020	229.559	0.106	167.376	0.041	
020	2000	122.660	235.965	179.699	235.970	-0.005	179.713	-0.014	235.965	0.000	179.865	-0.166	

DI
 MO
 DAT
 FIT
 5
 .06
 2.85
 FIT
 5
 1420
 1420
 T
 K
 400
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 600
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 800
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 1000
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 1200
 1300
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 1500
 1600
 1700
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 1900
 2000

DIPOTASSIUM OCTABORONTRIDECAOXIDE (C) B 8K 20 13 565
 MOL. W = 372.680 BLOCK= 3554 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = 1420.920 KEY = 756
 FITS FOR NOTS RMS = 0.031566
 513 8 2 19 0 0 0 0 0 DIPOTASSIUM OCTABORONTRIDECAOXIDE (C) 30J 565 756 8
 .0696990E+1+1.1496218E+2-5.1427413E+1+8.5472679E+0 400 2000 31J 565 756 +2
 .8509521E+0-1.4520961E+3+9.8989761E+1-1.4209199E+3B8K2013 (C) 32J 565 756 -2

FITS FOR EST RMS LOW = 0.172048 RMS HIGH = 0.172048
 513 8 2 19 0 0 0 0 0 DIPOTASSIUM OCTABORONTRIDECAOXIDE (C) 30B8K2013\$ 8
 142091+7+381414+6+126326+3+152730-1-109509+8+357009+3 4002000J 56531B8K2013\$ -1
 142091+7+381414+6+126326+3+152730-1-109509+8+357009+3 4002000J 56532B8K2013\$ -1

DH KC/M	-----NOTS-----												-----EST-----				
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
-1.114	400	86.160	94.086	8.302	94.336	-0.250	8.384	-0.082	96.377	-2.291	9.185	-0.883					4
0.353	500	94.960	114.253	17.356	114.029	0.224	17.235	0.121	113.773	0.480	17.030	0.326					6
0.598	600	104.000	132.371	27.307	132.280	0.091	27.261	0.046	131.640	0.731	26.852	0.455					8
0.405	700	112.680	149.077	38.156	149.101	-0.024	38.183	-0.027	148.606	0.471	37.870	0.286					10
0.131	800	119.600	164.587	49.778	164.645	-0.058	49.831	-0.053	164.383	0.204	49.693	0.085					12
-0.075	900	125.500	179.023	62.041	179.069	-0.046	62.084	-0.043	178.993	0.030	62.103	-0.062					14
-0.163	1000	130.500	192.518	74.853	192.513	0.005	74.847	0.006	192.546	-0.028	74.969	-0.117					16
-0.182	1100	134.000	205.122	88.081	205.090	0.032	88.046	0.035	205.164	-0.042	88.210	-0.129					18
-0.173	1200	137.200	216.921	101.643	216.896	0.025	101.617	0.026	216.960	-0.039	101.770	-0.127					20
-0.131	1300	140.100	228.019	115.511	228.012	0.007	115.507	0.004	228.036	-0.017	115.610	-0.099					22
-0.062	1400	142.700	238.499	129.653	238.506	-0.007	129.669	-0.016	238.479	0.020	129.702	-0.049					24
0.021	1500	145.000	248.424	144.041	248.437	-0.013	144.064	-0.023	248.362	0.062	144.028	0.013					26
0.097	1600	147.000	257.848	158.643	257.856	-0.009	158.661	-0.018	257.747	0.101	158.572	0.071					28
0.144	1700	148.700	266.812	173.431	266.811	0.001	173.432	-0.001	266.689	0.123	173.322	0.109					30
0.135	1800	150.100	275.353	188.373	275.342	0.011	188.357	0.016	275.232	0.121	188.270	0.103					
0.041	1900	151.200	283.499	203.441	283.487	0.012	203.422	0.019	283.416	0.083	203.408	0.033					
-0.166	2000	152.000	291.276	218.603	291.280	-0.004	218.617	-0.014	291.275	0.001	218.730	-0.127					

365

NO. POINT = 29

KEY = 757

0.225177

20J 365 757

21J 365 757

22J 365 757

0.559136 RMS HIGH = 0.559136

120B8K2013*

521B8K2013*

522B8K2013*

-----EST-----

[illegible]

THIOPHOSPHORYL BROMIDE

(G) BR 3P 1S 1

363

MOL. WT.= 302.760

BLOCK= 3565

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -63.000 KEY = 759

FITS FOR NOTS RMS = 0.003992

1 15 1 16 3 35 0 0 0 0 0 THIOPHOSPHORYL BROMIDE (G) 10J 363 759
+2.5804428E+1+2.5639481E-2-7.6405592E-3+7.2089023E-4 400 6000 11J 363 759
-3.4814453E-1-7.1807174E+1+1.1851278E+2-6.3000000E+1BR3PS (G) 12J 363 759

FITS FOR EST RMS LOW = 0.001347 RMS HIGH = 0.007881

1 15 1 16 3 35 0 0 0 0 0 THIOPHOSPHORYL BROMIDE (G) 10BR3PS
-630000+5+687822+5+258099+2+791383-5-345152+6+146929+3 4003000J 36311BR3PS
-630000+5+687876+5+260068+2-251507-4-149452+7+146929+330006000J 36312BR3PS

-----NOTS-----														-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		C/M-K	C/M-K	KC/M	KC/M
0.047	400	23.861	95.934	2.377	95.966	-0.032	2.387	-0.010	95.964	-0.030	2.389	-0.012					
0.013	600	24.868	105.834	7.267	105.829	0.005	7.260	0.007	105.832	0.002	7.264	0.003					
0.010	800	25.270	113.051	12.286	113.045	0.006	12.279	0.007	113.049	0.002	12.284	0.002					
0.004	1000	25.467	118.713	17.362	118.709	0.004	17.356	0.006	118.712	0.001	17.361	0.001					
0.001	1200	25.577	123.367	22.467	123.364	0.003	22.463	0.004	123.367	-0.000	22.467	-0.000					
0.003	1400	25.644	127.315	27.590	127.313	0.002	27.586	0.004	127.315	-0.000	27.590	-0.000					
0.003	1600	25.688	130.743	32.723	130.741	0.002	32.721	0.002	130.743	0.000	32.724	-0.001					
0.001	1800	25.718	133.770	37.864	133.769	0.001	37.863	0.001	133.770	-0.000	37.864	-0.000					
0.001	2000	25.740	136.481	43.010	136.480	0.001	43.010	0.000	136.481	-0.000	43.010	-0.000					
0.001	2200	25.757	138.935	48.160	138.935	0.000	48.160	0.000	138.935	-0.000	48.160	0.000					
0.002	2400	25.769	141.177	53.313	141.177	0.000	53.313	-0.000	141.177	0.000	53.312	0.001					
0.002	2600	25.779	143.240	58.467	143.240	0.000	58.468	-0.001	143.240	0.000	58.467	-0.000					
0.001	2800	25.786	145.150	63.624	145.151	-0.001	63.625	-0.001	145.151	-0.001	63.624	0.000					
-0.002	3000	25.792	146.930	68.782	146.930	-0.000	68.783	-0.001	146.930	0.000	68.782	-0.000					
-0.006	3000	25.792	146.930	68.782	146.930	-0.000	68.783	-0.001	146.930	0.000	68.788	-0.006					
-0.001	3200	25.797	148.594	73.941	148.595	-0.001	73.942	-0.001	148.593	0.001	73.942	-0.001					
0.002	3400	25.802	150.159	79.101	150.159	-0.000	79.102	-0.001	150.157	0.002	79.099	0.002					
0.003	3600	25.805	151.633	84.261	151.634	-0.001	84.263	-0.002	151.631	0.002	84.259	0.002					
0.003	3800	25.808	153.029	89.423	153.029	-0.000	89.424	-0.001	153.026	0.003	89.420	0.003					
0.002	4000	25.811	154.353	94.585	154.353	0.000	94.586	-0.001	154.350	0.003	94.582	0.003					
0.003	4200	25.813	155.612	99.747	155.612	-0.000	99.748	-0.001	155.610	0.002	99.745	0.002					
0.002	4400	25.815	156.813	104.910	156.813	-0.000	104.910	-0.000	156.811	0.002	104.908	0.002					
0.001	4600	25.816	157.960	110.073	157.960	-0.000	110.073	0.000	157.958	0.002	110.072	0.001					
-0.000	4800	25.818	159.059	115.236	159.059	-0.000	115.236	0.000	159.057	0.002	115.236	-0.001					
-0.001	5000	25.819	160.113	120.400	160.113	-0.000	120.399	0.001	160.111	0.002	120.401	-0.001					
-0.001	5200	25.820	161.126	125.564	161.126	0.000	125.563	0.001	161.124	0.002	125.565	-0.001					
-0.001	5400	25.821	162.100	130.728	162.100	-0.000	130.727	0.001	162.099	0.001	130.729	-0.001					
-0.001	5600	25.822	163.039	135.892	163.039	-0.000	135.892	0.000	163.038	0.001	135.893	-0.001					
0.001	5800	25.823	163.945	141.057	163.945	-0.001	141.057	0.000	163.944	0.001	141.056	0.001					
0.002	6000	25.824	164.821	146.222	164.821	-0.000	146.222	-0.000	164.819	0.002	146.219	0.003					

PHOSPHORYL DIFLUOROCHLORIDE (G) CL 1F 20 1P 1
 MOL. WT.= 120.420 BLOCK= 3571 NO. POINT = 62
 DATA FROM 0 TO 6000 K BFORM(KCAL/(MOLE)) = -228.000 KEY = 760
 ITS FOR NOTS RMS = 0.009199
 8 2 9 1 15 1 17 0 0 0 PHOSPHORYL DIFLUOROCHLORIDE (G) 10J 363 760
 .5250473E+1+3.6222136E-1-8.0111563E-2+5.9984512E-3 400 6000 11J 363 760
 .3103027E+0-2.3949754E+2+9.6434494E+1-2.2800000E+2CLF2OP(G) 12J 363 760

363

PHI

MI

DAT.

FIT

1 8

+2.54

-9.19

ITS FOR EST RMS LOW = 0.013232 RMS HIGH = 0.007925

FIT

8 2 9 1 15 1 17 0 0 0 PHOSPHORYL DIFLUOROCHLORIDE (G) 10CLF2OP 1 8
 .8000+6+657270+5+254676+2+116757-3-134870+7+125029+3 4003000J 36311CLF2OP -1790
 .8000+6+657273+5+260114+2-259739-4-297728+7+125029+330006000J 36312CLF2OP -1790

H

C/M

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-----NOTS-----

-----EST-----

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
.012	18.960	77.287	1.811	77.531	-0.244	1.906	-0.095	77.551	-0.264	1.917	-0.106	400
.003	21.889	85.599	5.930	85.559	0.040	5.896	0.034	85.559	0.040	5.898	0.032	600
.002	23.360	92.120	10.471	92.089	0.031	10.444	0.027	92.090	0.030	10.446	0.025	800
.001	24.161	97.427	15.231	97.414	0.013	15.219	0.012	97.417	0.010	15.224	0.007	1000
.000	24.636	101.878	20.114	101.874	0.004	20.113	0.001	101.877	0.001	20.118	-0.004	1200
.000	24.937	105.700	25.074	105.699	0.001	25.076	-0.002	105.702	-0.002	25.082	-0.008	1400
.000	25.138	109.044	30.082	109.043	0.001	30.086	-0.004	109.046	-0.002	30.090	-0.008	1600
.000	25.279	112.013	35.125	112.012	0.001	35.128	-0.003	112.014	-0.001	35.129	-0.004	1800
.000	25.382	114.682	40.192	114.681	0.001	40.193	-0.001	114.681	0.001	40.192	-0.000	2000
.001	25.459	117.105	45.276	117.103	0.002	45.276	-0.000	117.102	0.003	45.273	0.003	2200
.000	25.518	119.323	50.374	119.320	0.003	50.373	0.001	119.319	0.004	50.370	0.004	2400
.000	25.564	121.367	55.482	121.365	0.002	55.481	0.001	121.364	0.003	55.478	0.004	2600
.000	25.600	123.263	60.599	123.260	0.003	60.598	0.001	123.261	0.002	60.598	0.001	2800
.006	25.630	125.030	65.722	125.028	0.002	65.721	0.001	125.030	0.000	65.727	-0.005	3000
.001	25.630	125.030	65.722	125.028	0.002	65.721	0.001	125.030	0.000	65.727	-0.005	3000
.002	25.655	126.685	70.850	126.683	0.002	70.850	-0.000	126.683	0.002	70.851	-0.001	3200
.002	25.675	128.241	75.983	128.239	0.002	75.984	-0.001	128.239	0.002	75.982	0.001	3400
.003	25.692	129.709	81.120	129.707	0.002	81.121	-0.001	129.706	0.003	81.117	0.003	3600
.003	25.707	131.099	86.260	131.097	0.002	86.262	-0.002	131.096	0.003	86.257	0.003	3800
.002	25.719	132.418	91.403	132.416	0.002	91.405	-0.002	132.415	0.003	91.400	0.003	4000
.002	25.730	133.673	96.547	133.671	0.002	96.549	-0.002	133.670	0.003	96.545	0.002	4200
.001	25.739	134.870	101.694	134.868	0.002	101.696	-0.002	134.867	0.003	101.693	0.001	4400
.001	25.747	136.014	106.843	136.012	0.002	106.844	-0.001	136.012	0.002	106.842	0.000	4600
.001	25.754	137.110	111.993	137.108	0.002	111.993	-0.000	137.108	0.002	111.993	-0.000	4800
.001	25.760	138.162	117.144	138.159	0.003	117.144	0.000	138.159	0.003	117.145	-0.001	5000
.001	25.766	139.172	122.297	139.170	0.002	122.296	0.001	139.170	0.002	122.298	-0.001	5200
.001	25.771	140.145	127.451	140.142	0.003	127.449	0.002	140.142	0.003	127.452	-0.001	5400
.001	25.775	141.082	132.605	141.079	0.003	132.604	0.001	141.080	0.002	132.606	-0.001	5600
.001	25.779	141.987	137.761	141.984	0.003	137.760	0.001	141.984	0.003	137.760	0.001	5800
.003	25.783	142.861	142.917	142.859	0.002	142.919	-0.002	142.858	0.003	142.915	0.002	6000

PHOSPHORYL FLUORODICHLORIDE (G) CL 2F 10 1P 1 363
 MOL. WT.= 136.870 BLOCK= 3577 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -179.000 KEY = 761
 FITS FOR NOTS RMS = 0.006664
 1 8 1 9 1 15 2 17 0 0 0 PHOSPHORYL FLUORODICHLORIDE (G) 10J 363 761
 +2.5447845E+1+2.4163508E-1-5.4030843E-2+4.0940083E-3 400 6000 11J 363 761
 -9.1992187E-1-1.8939462E+2+1.0293391E+2-1.7900000E+2CL2FOP(G) 12J 363 761

FITS FOR EST RMS LOW = 0.008690 RMS HIGH = 0.007735
 1 8 1 9 1 15 2 17 0 0 0 PHOSPHORYL FLUORODICHLORIDE (G) 10CL2FOP
 -179000+6+669433+5+255872+2+788008-4-942592+6+131461+3 4003000J 36311CL2FOP
 -179000+6+669452+5+260102+2-256900-4-241049+7+131461+330006000J 36312CL2FOP

-----NOTS-----													
-----EST-----													
DH	T	CP	S	R	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.106	400	20.951	82.420	2.040	82.583	-0.163	2.103	-0.063	82.595	-0.175	2.111	-0.071	
0.032	600	23.083	91.374	6.471	91.348	0.026	6.447	0.024	91.349	0.025	6.450	0.021	
0.025	800	24.117	98.173	11.202	98.151	0.022	11.182	0.020	98.153	0.020	11.186	0.016	
0.007	1000	24.674	103.620	16.087	103.610	0.010	16.077	0.010	103.613	0.007	16.082	0.005	
-0.004	1200	25.004	108.150	21.057	108.146	0.004	21.054	0.003	108.150	0.000	21.060	-0.003	
-0.008	1400	25.212	112.022	26.080	112.020	0.002	26.081	-0.001	112.023	-0.001	26.086	-0.006	
-0.008	1600	25.352	115.398	31.138	115.397	0.001	31.139	-0.001	115.399	-0.001	31.142	-0.004	
-0.004	1800	25.450	118.390	36.218	118.389	0.001	36.220	-0.002	118.390	0.000	36.221	-0.003	
-0.000	2000	25.521	121.075	41.316	121.074	0.001	41.317	-0.001	121.074	0.001	41.316	-0.000	
0.003	2200	25.574	123.510	46.426	123.509	0.001	46.426	0.000	123.508	0.002	46.424	0.002	
0.004	2400	25.615	125.737	51.545	125.736	0.001	51.544	0.001	125.735	0.002	51.542	0.003	
0.004	2600	25.647	127.789	56.671	127.787	0.002	56.670	0.001	127.786	0.003	56.669	0.002	
0.001	2800	25.672	129.690	61.803	129.689	0.001	61.803	0.000	129.689	0.001	61.803	0.000	
-0.005	3000	25.693	131.462	66.940	131.461	0.001	66.940	0.000	131.462	0.000	66.943	-0.003	
-0.005	3000	25.693	131.462	66.940	131.461	0.001	66.940	0.000	131.462	0.000	66.945	-0.005	
-0.001	3200	25.710	133.121	72.080	133.120	0.001	72.080	-0.000	133.119	0.002	72.081	-0.001	
0.001	3400	25.724	134.680	77.223	134.679	0.001	77.224	-0.001	134.678	0.002	77.222	0.001	
0.003	3600	25.736	136.151	82.369	136.150	0.001	82.371	-0.002	136.148	0.003	82.367	0.002	
0.003	3800	25.746	137.543	87.518	137.542	0.001	87.519	-0.001	137.540	0.003	87.514	0.004	
0.003	4000	25.754	138.863	92.668	138.862	0.001	92.669	-0.001	138.860	0.003	92.665	0.003	
0.002	4200	25.762	140.120	97.819	140.119	0.001	97.821	-0.002	140.117	0.003	97.817	0.002	
0.001	4400	25.768	141.319	102.972	141.318	0.001	102.973	-0.001	141.316	0.003	102.971	0.001	
0.000	4600	25.774	142.464	108.127	142.463	0.001	108.127	-0.000	142.462	0.002	108.126	0.001	
-0.000	4800	25.779	143.561	113.282	143.560	0.001	113.282	0.000	143.559	0.002	113.282	-0.000	
-0.001	5000	25.783	144.614	118.438	144.612	0.002	118.437	0.001	144.612	0.002	118.439	-0.001	
-0.001	5200	25.787	145.625	123.595	145.624	0.001	123.594	0.001	145.623	0.002	123.596	-0.001	
-0.001	5400	25.790	146.598	128.753	146.597	0.001	128.751	0.002	146.596	0.002	128.754	-0.001	
-0.001	5600	25.793	147.536	133.911	147.535	0.001	133.910	0.001	147.534	0.002	133.912	-0.001	
0.001	5800	25.796	148.442	139.070	148.440	0.002	139.070	0.000	148.439	0.003	139.070	0.000	
0.002	6000	25.799	149.316	144.230	149.315	0.001	144.231	-0.001	149.313	0.003	144.227	0.003	

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2500	2600
2600	2700
2700	2800
2800	2900
2900	3000
3000	3100
3100	3200
3200	3300
3300	3400
 

363

1	1	1	19	0	0	0	0	0	0	0	POTASSIUM HYDRIDE	(C)	30J	363	765	
+7.5966157E+0+1.2805278E+1-7.5346097E+0+1.6260280E+0												400	1500	31J	363	765
-1.7925071E-1-1.7168472E+1+1.6754302E+1-1.3818999E+1												HK (C)		32J	363	765

1	1	1	19	0	0	0	0	0	0	0	POTASSIUM HYDRIDE	(C) 30HK\$
-138189	+5	+409422	+5	+136174	+2	+136055	-2	-695642	+6	+437987	+2	4001500J 36331HK\$
-138189	+5	+409422	+5	+136174	+2	+136055	-2	-695642	+6	+437987	+2	4001500J 36332HK\$

[illegible]

POTASSIUM HYDRIDE

(G) H 1K 1

363

MOL. WT. = 40.110 BLOCK = 3604 NO. POINT = 62
DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 29.400 KEY = 766
FITS FOR NOTS RMS = 0.002231

1 1 19 0 0 0 0 0 0 0 POTASSIUM HYDRIDE (G) 10J 363 766
.8444099E+0+2.8438127E-1-1.3812303E-2+1.0490566E-3 400 6000 11J 363 766
.3637390E-1+2.6042098E+1+5.6839263E+1+2.9399993E+1HK (G) 12J 363 766

FITS FOR EST RMS LOW = 0.002512 RMS HIGH = 0.003181

1 1 19 0 0 0 0 0 0 0 POTASSIUM HYDRIDE (G) 10HK
93999+5+244315+5+887956+1+242869-3-242416+6+673699+2 4003000J 36311HK
93999+5+244329+5+901665+1+211936-3-798576+6+673699+230006000J 36312HK

DH
KC/M
-0.019
0.014
0.013
0.002
-0.005
-0.006
-0.004
-0.001
0.002
0.004
0.004
-0.004

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
000	7.818	49.541	0.776	49.587	-0.046	0.793	-0.017	49.591	-0.050	0.796	-0.020				
000	8.370	52.826	2.401	52.818	0.008	2.393	0.008	52.819	0.007	2.395	0.006				
000	8.678	55.280	4.108	55.274	0.006	4.102	0.006	55.275	0.005	4.104	0.004				
000	8.867	57.238	5.864	57.235	0.003	5.861	0.003	57.237	0.001	5.863	0.001				
000	8.996	58.867	7.651	58.866	0.001	7.650	0.001	58.867	-0.000	7.652	-0.001				
000	9.095	60.261	9.460	60.261	-0.000	9.460	-0.000	60.262	-0.001	9.462	-0.002				
000	9.175	61.481	11.288	61.481	-0.000	11.288	0.000	61.482	-0.001	11.289	-0.001				
000	9.245	62.566	13.130	62.566	0.000	13.130	0.000	62.567	-0.001	13.131	-0.001				
000	9.308	63.543	14.985	63.543	-0.000	14.985	-0.000	63.544	-0.001	14.985	-0.000				
000	9.366	64.433	16.853	64.433	-0.000	16.853	0.000	64.433	-0.000	16.852	0.001				
000	9.421	65.251	18.731	65.250	0.001	18.731	-0.000	65.250	0.001	18.731	0.000				
000	9.474	66.007	20.621	66.007	0.000	20.621	0.000	66.007	0.000	20.620	0.001				
000	9.525	66.711	22.521	66.711	0.000	22.521	0.000	66.711	0.000	22.521	0.000				
000	9.575	67.370	24.431	67.369	0.001	24.431	0.000	67.370	0.000	24.432	-0.001				
000	9.575	67.370	24.431	67.369	0.001	24.431	0.000	67.370	0.000	24.433	-0.002				
000	9.624	67.989	26.351	67.989	0.000	26.351	0.000	67.989	0.000	26.351	-0.000				
000	9.672	68.574	28.280	68.574	0.000	28.280	-0.000	68.573	0.001	28.280	0.000				
000	9.719	69.128	30.219	69.128	-0.000	30.220	-0.001	69.128	0.000	30.218	0.001				
000	9.767	69.655	32.168	69.655	0.000	32.168	-0.000	69.654	0.001	32.167	0.001				
000	9.813	70.157	34.126	70.157	0.000	34.126	-0.000	70.156	0.001	34.125	0.001				
000	9.860	70.637	36.093	70.637	0.000	36.094	-0.001	70.636	0.001	36.092	0.001				
000	9.906	71.097	38.070	71.097	0.000	38.070	-0.000	71.096	0.001	38.069	0.001				
000	9.952	71.538	40.056	71.538	0.000	40.056	0.000	71.538	0.000	40.056	0.000				
000	9.998	71.963	42.051	71.962	0.001	42.051	0.000	71.962	0.001	42.051	0.000				
000	10.044	72.372	44.055	72.371	0.001	44.055	0.000	72.371	0.001	44.055	-0.000				
000	10.089	72.767	46.068	72.766	0.001	46.068	0.000	72.766	0.001	46.069	-0.001				
000	10.135	73.148	48.090	73.148	0.000	48.090	0.000	73.148	0.000	48.091	-0.001				
000	10.180	73.518	50.122	73.517	0.001	50.121	0.001	73.517	0.001	50.122	-0.000				
000	10.225	73.876	52.162	73.875	0.001	52.162	-0.000	73.875	0.001	52.162	-0.000				
000	10.270	74.223	54.212	74.223	0.000	54.212	-0.000	74.222	0.001	54.211	0.001				

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NITROXYL (G) H 1N 10 1 363
 MOL. WT. = 31.010 BLOCK = 3610 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 23.800 KEY = 767
 FITS FOR NOTS RMS = 0.020861
 1 1 1 7 1 8 0 0 0 0 0 NITROXYL (G) 10J 363 767
 +1.1356142E+1+1.4683094E+0-3.0601143E-1+2.1852657E-2 400 6000 11J 363 767
 -9.3258666E-1+1.7874343E+1+6.2625732E+1+2.3799987E+1HNO(G) 12J 363 767

FITS FOR EST RMS LOW = 0.034897 RMS HIGH = 0.004188
 1 1 1 7 1 8 0 0 0 0 0 NITROXYL (G) 10HNO
 +237999+5+327726+5+122856+2+486719-3-111875+7+783849+2 4003000J 36311HNO
 +237999+5+327584+5+139658+2-909798-5-417736+7+783849+23C 006000J 36312HNO

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.020	400	8.788	55.230	0.868	55.698	-0.468	1.059	-0.191	55.799	-0.569	1.103	-0.235	T
0.006	600	9.869	59.001	2.735	58.947	0.054	2.685	0.050	58.936	0.065	2.676	0.059	K
0.004	800	10.766	61.968	4.803	61.901	0.067	4.745	0.058	61.887	0.081	4.735	0.068	100
0.001	1000	11.454	64.448	7.028	64.415	0.033	7.001	0.027	64.412	0.036	7.000	0.028	200
-0.001	1200	11.970	66.584	9.373	66.574	0.010	9.371	0.002	66.578	0.006	9.378	-0.005	400
-0.002	1400	12.356	68.460	11.807	68.460	-0.000	11.819	-0.012	68.466	-0.006	11.829	-0.022	600
-0.001	1600	12.646	70.130	14.309	70.133	-0.003	14.324	-0.015	70.137	-0.007	14.332	-0.023	800
-0.001	1800	12.867	71.633	16.861	71.634	-0.001	16.875	-0.014	71.636	-0.003	16.877	-0.016	1000
-0.000	2000	13.038	72.998	19.452	72.997	0.001	19.461	-0.009	72.995	0.003	19.457	-0.005	1200
0.001	2200	13.171	74.247	22.074	74.243	0.004	22.077	-0.003	74.239	0.008	22.067	0.007	1400
0.000	2400	13.277	75.398	24.719	75.392	0.006	24.717	0.001	75.386	0.012	24.706	0.013	1600
0.001	2600	13.363	76.464	27.383	76.457	0.007	27.379	0.004	76.453	0.011	27.371	0.012	1800
0.000	2800	13.432	77.457	30.063	77.449	0.008	30.057	0.006	77.449	0.008	30.060	0.003	2000
0.001	3000	13.490	78.385	32.755	78.378	0.007	32.749	0.006	78.385	0.000	32.773	-0.018	2200
0.002	3000	13.490	78.385	32.755	78.378	0.007	32.749	0.006	78.385	0.000	32.758	-0.003	2400
0.000	3200	13.538	79.258	35.458	79.251	0.007	35.454	0.004	79.256	0.002	35.459	-0.001	2600
0.000	3400	13.578	80.080	38.170	80.073	0.007	38.167	0.003	80.078	0.002	38.169	0.001	2800
0.001	3600	13.612	80.857	40.889	80.851	0.006	40.889	0.000	80.855	0.002	40.888	0.001	3000
0.001	3800	13.642	81.594	43.615	81.588	0.006	43.616	-0.001	81.592	0.002	43.613	0.002	3200
0.001	4000	13.667	82.294	46.346	82.289	0.005	46.349	-0.003	82.292	0.002	46.344	0.002	3400
0.001	4200	13.689	82.961	49.081	82.957	0.004	49.085	-0.004	82.960	0.001	49.080	0.001	3600
0.001	4400	13.708	83.599	51.821	83.594	0.005	51.825	-0.004	83.597	0.002	51.820	0.001	3800
0.000	4600	13.725	84.208	54.564	84.203	0.005	54.567	-0.003	84.207	0.001	54.564	-0.000	4000
0.000	4800	13.739	84.793	57.311	84.788	0.005	57.312	-0.001	84.791	0.002	57.311	0.000	4200
0.000	5000	13.752	85.354	60.060	85.348	0.006	60.059	0.001	85.352	0.002	60.060	-0.000	4400
0.001	5200	13.764	85.893	62.812	85.887	0.005	62.809	0.003	85.892	0.001	62.812	-0.000	4600
0.001	5400	13.775	86.413	65.565	86.407	0.006	65.562	0.003	86.412	0.001	65.566	-0.001	4800
0.000	5600	13.784	86.914	68.321	86.908	0.006	68.318	0.003	86.913	0.001	68.321	-0.000	5000
0.000	5800	13.792	87.398	71.079	87.392	0.006	71.078	0.001	87.396	0.002	71.078	0.001	5200
0.001	6000	13.800	87.866	73.838	87.861	0.005	73.844	-0.006	87.864	0.002	73.837	0.001	5400

SODIUM HYDRIDE (C) H 1NA 1
 MOL. WT.= 23.990 BLOCK= 3617 NO. POINT = 17
 DATA FROM 0 TO 1500 K HFORM(KCAL/(MOLE)) = -13.490 KEY = 768
 FITS FOR NOTS RMS = 0.000410
 1 1 11 0 0 0 0 0 0 0 SODIUM HYDRIDE (C) 30J 363 768
 .9375629E+0+1.3471374E+1-7.4928331E+0+1.4730539E+0 400 1500 31J 363 768
 .7860698E-1-1.6671478E+1+1.3322783E+1-1.3489999E+1HNA(C) 32J 363 768

363

TUNG
 MOL
 DATA
 FITS
 12 8 4
 +9.1066
 -2.0666

FITS FOR EST RMS LOW = 0.006744 RMS HIGH = 0.006744
 1 1 11 0 0 0 0 0 0 0 SODIUM HYDRIDE (C) 30HNA\$
 134899+5+407471+5+135295+2+141339-2-769814+6+409797+2 4001500J 36331HNA\$
 134899+5+407471+5+135295+2+141339-2-769814+6+409797+2 4001500J 36332HNA\$

FITS
 12 8 4
 -670199
 -670199

/M	-----NOTS-----												-----EST-----												T	
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	K	C											
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M														
235	100	10.150	12.343	0.967	12.345	-0.002	0.967	-0.000	12.407	-0.064	0.991	-0.024		400	79											
059	100	11.270	14.734	2.040	14.732	0.002	2.039	0.001	14.701	0.033	2.023	0.017		600	85											
068	100	12.120	16.868	3.212	16.867	0.001	3.212	0.000	16.839	0.029	3.197	0.015		800	87											
028	100	12.840	18.792	4.461	18.793	-0.001	4.462	-0.001	18.782	0.010	4.458	0.003		1000	89											
005	100	13.400	20.545	5.775	20.545	-0.000	5.775	0.000	20.546	-0.001	5.780	-0.005		1200	89											
022	100	13.850	22.150	7.138	22.150	0.000	7.138	0.000	22.155	-0.005	7.146	-0.008		1400	90											
023	100	14.200	23.628	8.541	23.628	-0.000	8.541	-0.000	23.631	-0.003	8.548	-0.007		1600	90											
016	100	14.500	24.996	9.977	24.997	-0.001	9.977	-0.000	24.995	0.001	9.979	-0.002		1800	90											
005	200	14.740	26.269	11.439	26.269	0.000	11.440	-0.001	26.263	0.006	11.436	0.003		2000	90											
007	300	14.920	27.456	12.923	27.456	0.000	12.923	0.000	27.448	0.008	12.916	0.007		2200	90											
013	400	15.063	28.567	14.422	28.567	0.000	14.422	0.000	28.560	0.007	14.418	0.004		2400	90											
012	500	15.160	29.610	15.934	29.610	-0.000	15.934	-0.000	29.610	0.000	15.939	-0.005		2600	91											
003														2800	91											
018														3000	91											
003														3000	91											
001														3200	91											
001														3400	91											
001														3600	91											
002														3800	91											
002														4000	91											
001														4200	91											
001														4400	91											
000														4600	91											
000														4800	91											
000														5000	91											
000														5200	91											
01														5400	91											
000														5600	91											
001														5800	91											
001														6000	91											

TUNGSTEN TRIOXIDE, TETRAMERIC (G) 0 12W 4 0 0 0 0 0

966

MOL. WT. = 927.390 BLOCK = 3619 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -670.200 KEY = 769

FITS FOR NOTS RMS = 0.015219

53 768

12 8 4 74 0 0 0 0 0 0 TUNGSTEN TRIOXIDE, TETRAMERIC (G) 10J 966 769

53 768

+9.1066299E+1+2.3027265E-1-5.6185595E-2+4.6212263E-3 400 6000 11J 966 769

53 768

-2.0666503E+0-7.0386767E+2+2.4440109E+2-6.7019995E+2012W4 (G) 12J 966 769

FITS FOR EST RMS LOW = 0.010465 RMS HIGH = 0.026996

12 8 4 74 0 0 0 0 0 0 TUNGSTEN TRIOXIDE, TETRAMERIC (G) 10012W4

-670199+6+240842+6+911633+2+788758-4-206993+7+345040+3 4003000J 96611012W4

-670199+6+240861+6+920413+2-919733-4-649958+7+345040+330006000J 96612012W4

-----		-----NOTS-----						-----EST-----					
HC	DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
C/M	KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.991	-0.024	400	79.917	167.276	7.862	167.504	-0.228	7.943	-0.081	167.504	-0.228	7.954	-0.092
2.023	0.017	600	85.538	200.920	24.495	200.881	0.039	24.454	0.041	200.890	0.030	24.470	0.025
3.197	0.015	800	87.921	225.897	41.871	225.862	0.035	41.833	0.038	225.874	0.023	41.851	0.020
4.458	0.003	1000	89.118	245.658	59.587	245.638	0.020	59.563	0.024	245.650	0.008	59.581	0.006
5.780	-0.005	1200	89.794	261.972	77.484	261.960	0.011	77.470	0.014	261.970	0.002	77.486	-0.002
7.146	-0.008	1400	90.212	275.847	95.488	275.841	0.006	95.480	0.008	275.848	-0.001	95.492	-0.004
8.548	-0.007	1600	90.487	287.912	113.559	287.909	0.003	113.556	0.003	287.913	-0.001	113.564	-0.005
9.979	-0.002	1800	90.678	298.582	131.677	298.580	0.002	131.676	0.001	298.582	0.000	131.680	-0.003
11.436	0.003	2000	90.815	308.143	149.827	308.142	0.001	149.827	-0.000	308.142	0.001	149.827	-0.000
12.916	0.007	2200	90.917	316.804	168.001	316.803	0.000	168.002	-0.001	316.801	0.003	167.999	0.002
14.418	0.004	2400	90.995	324.718	186.192	324.718	-0.000	186.195	-0.003	324.715	0.002	186.189	0.002
15.939	-0.005	2600	91.056	332.004	204.398	332.005	-0.001	204.401	-0.003	332.001	0.002	204.395	0.003
		2800	91.105	338.754	222.614	338.755	-0.001	222.618	-0.004	338.752	0.002	222.614	0.000
		3000	91.144	345.041	240.839	345.042	-0.001	240.844	-0.005	345.041	0.000	240.843	-0.004
		3200	91.176	350.924	259.071	350.925	-0.001	259.076	-0.006	350.918	0.005	259.077	-0.006
		3400	91.202	356.453	277.309	356.454	-0.001	277.314	-0.005	356.444	0.009	277.305	0.003
		3600	91.225	361.666	295.552	361.667	-0.001	295.557	-0.005	361.656	0.010	295.543	0.009
		3800	91.244	366.599	313.799	366.600	-0.001	313.803	-0.004	366.588	0.011	313.788	0.011
		4000	91.260	371.280	332.049	371.281	-0.001	332.053	-0.004	371.269	0.011	332.039	0.010
		4200	91.274	375.733	350.302	375.733	-0.000	350.305	-0.003	375.722	0.010	350.295	0.007
		4400	91.286	379.979	368.558	379.979	-0.000	368.560	-0.002	379.969	0.009	368.553	0.004
		4600	91.296	384.037	386.816	384.037	0.000	386.817	-0.001	384.028	0.009	386.815	0.001
		4800	91.305	387.923	405.077	387.922	0.001	405.075	0.001	387.914	0.009	405.078	-0.001
		5000	91.314	391.650	423.338	391.649	0.000	423.336	0.002	391.642	0.008	423.342	-0.004
		5200	91.321	395.232	441.602	395.231	0.001	441.598	0.003	395.224	0.008	441.606	-0.004
		5400	91.327	398.678	459.867	398.677	0.001	459.863	0.004	398.671	0.007	459.871	-0.004
		5600	91.333	402.000	478.133	401.999	0.001	478.130	0.003	401.992	0.008	478.135	-0.002
		5800	91.338	405.205	496.400	405.204	0.000	496.399	0.001	405.196	0.009	496.398	0.002
		6000	91.343	408.302	514.668	408.302	0.000	514.671	-0.003	408.292	0.010	514.661	0.007

SODIUM TETRACHLOROALUMINATE (C) AL 1CL 4NA 1 663
 MOL. WT.= 191.780 BLOCK= 3625 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -273.000 KEY = 770
 FITS FOR NOTS RMS = 0.008006
 1 11 1 13 4 17 0 0 0 0 0 SODIUM TETRACHLOROALUMINATE (C) 30J 663 770
 ..3319946E+1+1.1334646E+1-7.2611961E+0+1.5500907E+0 400 2000 31J 663 770
 ..4280395E+0-2.9074853E+2+8.7518920E+1-2.7300000E+2ALCL4NA (C) 32J 663 770

FITS FOR EST RMS LOW = 0.010758 RMS HIGH = 0.010758
 1 11 1 13 4 17 0 0 0 0 0 SODIUM TETRACHLOROALUMINATE (C) 30ALCL4NA\$
 ..73000+6+128126+6+496987+2-136665-3-204838+7+149876+3 4002000J 66331ALCL4NA\$
 ..73000+6+128126+6+496987+2-136665-3-204838+7+149876+3 4002000J 66332ALCL4NA\$

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-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	39.390	56.206	3.890	56.274	-0.068	3.911	-0.021	56.381	-0.175	3.952	-0.062	400
500	41.600	65.237	7.941	65.172	0.065	7.906	0.035	65.153	0.084	7.892	0.049	500
600	43.600	73.001	12.203	72.979	0.022	12.191	0.012	72.948	0.053	12.171	0.032	600
700	45.200	79.850	16.647	79.857	-0.007	16.655	-0.008	79.841	0.009	16.645	0.002	700
800	46.250	85.960	21.224	85.977	-0.017	21.239	-0.015	85.974	-0.014	21.238	-0.014	800
900	47.150	91.464	25.898	91.473	-0.009	25.906	-0.008	91.478	-0.014	25.912	-0.014	900
1000	47.600	96.459	30.639	96.454	0.005	30.634	0.005	96.460	-0.001	30.641	-0.003	1000
1100	47.869	101.008	35.413	101.001	0.007	35.405	0.008	101.006	0.002	35.411	0.002	1100
1200	48.100	105.184	40.212	105.179	0.005	40.207	0.005	105.181	0.003	40.210	0.002	1200
1300	48.294	109.042	45.032	109.041	0.001	45.033	-0.001	109.040	0.002	45.031	0.001	1300
1400	48.450	112.627	49.869	112.629	-0.002	49.874	-0.005	112.626	0.001	49.870	-0.001	1400
1500	48.594	115.974	54.722	115.978	-0.004	54.728	-0.006	115.974	0.000	54.723	-0.001	1500
1600	48.700	119.114	59.587	119.116	-0.002	59.590	-0.003	119.113	0.001	59.586	0.001	1600
1700	48.769	122.069	64.461	122.068	0.001	64.459	0.002	122.066	0.003	64.458	0.003	1700
1800	48.800	124.857	69.339	124.855	0.002	69.335	0.004	124.855	0.002	69.337	0.002	1800
1900	48.850	127.497	74.222	127.495	0.002	74.219	0.003	127.496	0.001	74.222	0.000	1900
2000	48.900	130.004	79.109	130.005	-0.001	79.112	-0.003	130.004	0.000	79.111	-0.002	2000

LITHIUM ALUMINUM HYDRIDE

(C)

AL 1H 4LI 1

364

MOL. WT. = 37.950

BLOCK = 3627

NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -28.000 KEY = 771

FITS FOR NOTS RMS = 0.002937

4 1 1 13 1 71 0 0 0 0 0 LITHIUM ALUMINUM HYDRIDE (C) 30J 364 771
 +2.5195297E+1+7.6373691E+0-4.8895711E+0+1.1365442E+0 400 2000 31J 364 771
 -9.3260192E-1-3.8630355E+1+4.5090225E+1-2.8000000E+1ALH4LI(C) 32J 364 771

FITS FOR EST RMS LOW = 0.005428 RMS HIGH = 0.005428

4 1 1 13 1 71 0 0 0 0 0 LITHIUM ALUMINUM HYDRIDE (C) 30ALH4LI\$
 -280000+5+770530+5+287080+2+617085-3-120696+7+833703+2 4002000J 36431ALH4LI\$
 -280000+5+770530+5+287080+2+617085-3-120696+7+833703+2 4002000J 36432ALH4LI\$

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	22.400	27.582	2.286	27.606	-0.024	2.293	-0.007	27.627	-0.045	2.300	-0.014
500	24.200	32.770	4.614	32.746	0.024	4.601	0.013	32.737	0.033	4.595	0.019
600	25.550	37.309	7.106	37.299	0.010	7.101	0.005	37.295	0.014	7.097	0.009
700	26.600	41.330	9.716	41.333	-0.003	9.719	-0.003	41.337	-0.007	9.721	-0.005
800	27.300	44.931	12.413	44.936	-0.005	12.417	-0.004	44.944	-0.013	12.422	-0.009
900	27.817	48.179	15.171	48.181	-0.002	15.173	-0.002	48.189	-0.010	15.178	-0.007
1000	28.150	51.128	17.971	51.128	0.000	17.970	0.001	51.134	-0.006	17.973	-0.002
1100	28.432	53.825	20.801	53.824	0.001	20.799	0.001	53.827	-0.002	20.799	0.002
1200	28.620	56.308	23.654	56.307	0.001	23.653	0.001	56.307	0.001	23.649	0.005
1300	28.795	58.606	26.525	58.606	0.000	26.525	-0.000	58.604	0.002	26.520	0.005
1400	28.930	60.745	29.412	60.746	-0.001	29.413	-0.001	60.744	0.001	29.408	0.004
1500	29.070	62.746	32.312	62.747	-0.001	32.314	-0.002	62.747	-0.001	32.311	0.001
1600	29.200	64.626	35.225	64.627	-0.001	35.227	-0.002	64.629	-0.003	35.227	-0.002
1700	29.330	66.400	38.152	66.400	-0.000	38.152	0.000	66.404	-0.004	38.155	-0.003
1800	29.457	68.080	41.091	68.079	0.001	41.089	0.002	68.084	-0.004	41.094	-0.003
1900	29.580	69.676	44.043	69.675	0.001	44.041	0.002	69.679	-0.003	44.044	-0.001
2000	29.700	71.197	47.007	71.197	-0.000	47.009	-0.002	71.197	0.000	47.003	0.004

BERYLLIUM NITRIDE

(G) BE 1N 1

663

MOL. WT.= 23.010 BLOCK= 3641 NO. POINT = 62

ATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 101.981 KEY = 774

ITS FOR NOTS RMS = 0.003289

4 1 7 0 0 0 0 0 0 0 BERYLLIUM NITRIDE

(G) 10J 663 774

.7553262E+0+2.1684479E-1-2.4904645E-2+1.8398836E-3 400 6000

11J 663 774

.273437E-1+9.8485183E+1+5.9101821E+1+1.0198098E+2BEN(G)

12J 663 774

ITS FOR EST RMS LOW = 0.004515 RMS HIGH = 0.003068

4 1 7 0 0 0 0 0 0 0 BERYLLIUM NITRIDE

(G) 10BEN

1980+6+236619+5+882193+1+140735-3-314400+6+692929+2 4003000J 66311BEN

1980+6+236624+5+901463+1+919024-4-933904+6+692929+230006000J 66312BEN

-----NOTS-----												
-----EST-----												
DH	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
5 -0.069	7.514	52.029	0.749	52.110	-0.081	0.780	-0.031	52.117	-0.088	0.784	-0.035	
6 0.021	8.069	55.188	2.311	55.176	0.012	2.299	0.012	55.176	0.012	2.301	0.010	
2 0.016	8.414	57.561	3.962	57.550	0.011	3.952	0.010	57.551	0.010	3.954	0.008	
2 0.004	8.624	59.463	5.667	59.458	0.005	5.663	0.004	59.459	0.004	5.665	0.002	
6 -0.003	8.760	61.048	7.407	61.047	0.001	7.406	0.001	61.048	0.000	7.408	-0.001	
9 -0.006	8.856	62.406	9.169	62.406	0.000	9.169	-0.000	62.407	-0.001	9.171	-0.002	
6 -0.004	8.927	63.594	10.947	63.594	0.000	10.948	-0.001	63.594	-0.000	10.950	-0.003	
2 -0.002	8.984	64.649	12.739	64.648	0.001	12.740	-0.001	64.649	0.000	12.740	-0.001	
12 0.000	9.031	65.598	14.540	65.597	0.001	14.541	-0.001	65.597	0.001	14.541	-0.001	
3 0.001	9.071	66.460	16.351	66.460	0.000	16.351	0.000	66.459	0.001	16.350	0.001	
13 0.002	9.106	67.251	18.168	67.250	0.001	18.168	-0.000	67.250	0.001	18.167	0.001	
1 0.002	9.139	67.981	19.993	67.980	0.001	19.992	0.001	67.980	0.001	19.992	0.001	
16 -0.000	9.169	68.660	21.824	68.659	0.001	21.823	0.001	68.659	0.001	21.823	0.001	
18 -0.003	9.197	69.293	23.660	69.292	0.001	23.660	0.000	69.293	0.000	23.662	-0.002	
18 -0.003	9.197	69.293	23.660	69.292	0.001	23.660	0.000	69.293	0.000	23.662	-0.002	
11 -0.001	9.224	69.888	25.502	69.887	0.001	25.502	-0.000	69.887	0.001	25.503	-0.001	
10 0.000	9.250	70.448	27.350	70.447	0.001	27.350	0.000	70.447	0.001	27.349	0.001	
15 0.001	9.275	70.977	29.202	70.976	0.001	29.203	-0.001	70.976	0.001	29.201	0.001	
27 0.002	9.299	71.479	31.060	71.479	0.000	31.060	-0.000	71.478	0.001	31.059	0.001	
17 0.002	9.323	71.957	32.922	71.956	0.001	32.922	-0.000	71.956	0.001	32.921	0.001	
15 0.002	9.346	72.412	34.789	72.412	0.000	34.789	-0.000	72.411	0.001	34.788	0.001	
12 0.001	9.369	72.847	36.660	72.847	0.000	36.661	-0.001	72.846	0.001	36.660	0.000	
17 -0.000	9.392	73.264	38.536	73.264	0.000	38.537	-0.001	73.263	0.001	38.536	-0.000	
11 -0.000	9.414	73.665	40.417	73.664	0.001	40.417	0.000	73.664	0.001	40.417	-0.000	
14 -0.001	9.436	74.049	42.302	74.049	0.000	42.302	0.000	74.048	0.001	42.302	-0.000	
17 -0.001	9.458	74.420	44.191	74.419	0.001	44.191	0.000	74.419	0.001	44.192	-0.001	
19 -0.000	9.480	74.777	46.085	74.776	0.001	46.085	0.000	74.776	0.001	46.086	-0.001	
11 -0.000	9.501	75.122	47.983	75.122	0.000	47.983	0.000	75.121	0.001	47.983	-0.000	
23 0.000	9.523	75.456	49.886	75.455	0.001	49.885	0.001	75.455	0.001	49.885	0.001	
14 0.001	9.545	75.779	51.792	75.779	0.000	51.793	-0.001	75.778	0.001	51.791	0.001	

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FITS FOR EST      RMS LOW =      0.003356 RMS HIGH =      0.003356
 1  4  4  8  1 74  0  0  0  0  0 BERYLLIUM TUNGSTATE (C) 30BEO4W$
-361699+6+116286+6+270626+2+101251-1-642480+6+107372+3 4002000J 36731BEO4W$
-361699+6+116286+6+270626+2+101251-1-642480+6+107372+3 4002000J 36732BEO4W$

```

T	K
45	60
60	80
80	100
100	120
120	140
140	160
160	180
180	200
200	220
220	240
240	260
260	280
280	300
300	320
320	340
340	360
360	380
380	400
400	420
420	440
440	460
460	480
480	500
500	520
520	540
540	560
560	580
580	600
600	620
620	640
640	660
660	680
680	700
700	720
720	740
740	760
760	780
780	800
800	820
820	840
840	860
860	880
880	900
900	920
920	940
940	960
960	980
980	1000

PHOSPHORUS MONOBROMIDE

(G) BR 1P 1

1263

MOL. WT. = 110.880 BLOCK = 3650 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 43.000 KEY = 776

FITS FOR NOTS RMS = 0.001651

1 15 1 35 0 0 0 0 0 0 0 PHOSPHORUS MONOBROMIDE (G) 10J1263 776
 1.9451436E+0+1.1041420E-1-6.5246759E-4+9.1456226E-5 400 6000 11J1263 776
 1.4809570E-2+4.0150909E+1+7.0042495E+1+4.3000000E+1BRP(G) 12J1263 776

FITS FOR EST RMS LOW = 0.000487 RMS HIGH = 0.003104

1 15 1 35 0 0 0 0 0 0 0 PHOSPHORUS MONOBROMIDE (G) 10BRP
 430000+5+244969+5+894186+1+110233-3-529920+5+802019+2 4003000J126311BRP
 430000+5+244992+5+901094+1+999926-4-491072+6+802019+230006000J126312BRP

DH

KC/M

-----NOTS-----													
-----EST-----													
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
	K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M	
3	400	8.677	62.057	0.874	62.062	-0.005	0.875	-0.001	62.061	-0.004	0.876	-0.002	
3	600	8.863	65.616	2.631	65.615	0.001	2.629	0.002	65.617	-0.001	2.631	0.000	
2	800	8.947	68.179	4.413	68.177	0.002	4.411	0.002	68.179	0.000	4.413	0.000	
4	1000	8.999	70.181	6.208	70.180	0.001	6.206	0.002	70.181	-0.000	6.208	0.000	
5	1200	9.037	71.825	8.012	71.824	0.001	8.010	0.002	71.826	-0.001	8.011	0.001	
2	1400	9.069	73.221	9.822	73.220	0.001	9.821	0.001	73.221	-0.000	9.822	-0.000	
9	1600	9.097	74.434	11.639	74.433	0.001	11.638	0.001	74.434	-0.000	11.639	0.000	1
0	1800	9.124	75.507	13.461	75.507	0.000	13.460	0.001	75.507	-0.000	13.461	-0.000	1
2	2000	9.149	76.469	15.288	76.469	-0.000	15.288	-0.000	76.470	-0.001	15.288	-0.000	1
3	2200	9.173	77.343	17.121	77.343	0.000	17.121	0.000	77.343	0.000	17.121	0.000	1
1	2400	9.197	78.142	18.958	78.142	0.000	18.958	0.000	78.142	-0.000	18.958	0.000	1
4	2600	9.221	78.879	20.799	78.879	-0.000	20.800	-0.001	78.879	-0.000	20.799	-0.000	1
13	2800	9.244	79.563	22.646	79.563	-0.000	22.646	-0.000	79.563	-0.000	22.646	0.000	
7	3000	9.267	80.202	24.497	80.202	0.000	24.497	-0.000	80.202	0.000	24.497	0.000	
14	3200	9.267	80.202	24.497	80.202	0.000	24.497	-0.000	80.202	0.000	24.497	-0.002	
4	3400	9.289	80.800	26.353	80.801	-0.001	26.353	-0.000	80.800	-0.000	26.353	-0.000	
18	3600	9.312	81.364	28.213	81.365	-0.001	28.213	-0.000	81.364	0.000	28.212	0.001	
	3800	9.334	81.897	30.077	81.897	-0.000	30.078	-0.001	81.897	0.000	30.076	0.001	
	4000	9.357	82.402	31.946	82.403	-0.001	31.947	-0.001	82.402	0.000	31.945	0.001	
	4200	9.379	82.883	33.820	82.883	-0.000	33.820	-0.000	82.882	0.001	33.819	0.001	
	4400	9.402	83.341	35.698	83.341	-0.000	35.698	-0.000	83.341	0.000	35.698	0.000	
	4600	9.424	83.779	37.581	83.779	-0.000	37.581	0.000	83.778	0.001	37.580	0.001	
	4800	9.446	84.198	39.468	84.199	-0.001	39.468	0.000	84.198	0.000	39.468	0.000	
	5000	9.468	84.601	41.359	84.601	0.000	41.359	-0.000	84.601	0.000	41.359	-0.000	
	5200	9.491	84.988	43.255	84.988	0.000	43.255	0.000	84.988	0.000	43.256	-0.001	
	5400	9.513	85.360	45.155	85.361	-0.001	45.155	-0.000	85.360	-0.000	45.156	-0.001	
	5600	9.535	85.720	47.060	85.720	-0.000	47.060	0.000	85.720	0.000	47.061	-0.001	
	5800	9.557	86.067	48.969	86.067	-0.000	48.969	-0.000	86.067	0.000	48.970	-0.001	
	6000	9.579	86.403	50.883	86.403	0.000	50.883	0.000	86.402	0.001	50.883	0.000	
	6200	9.601	86.728	52.801	86.728	-0.000	52.801	0.000	86.727	0.001	52.800	0.001	

SODIUM PERCHLORATE

(C) CL 1NA 10 4

663

MOL. WT. = 122.440 BLOCK = 3658 NO. POINT = 14

DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -91.480 KEY = 778

FITS FOR NOTS RMS = 0.243238

8 1 11 1 17 0 0 0 0 0 SODIUM PERCHLORATE (C) 30J 663 778
1.7409692E+2-8.0060058E+2+6.7694799E+2-1.9028381E+2 400 1500 31J 663 778
1.6963714E+1-2.3008622E+2+6.0116870E+2-9.1479995E+1CLNA04 (C) 32J 663 778

FITS FOR EST RMS LOW = 0.269355 RMS HIGH = 0.269355

8 1 11 1 17 0 0 0 0 0 SODIUM PERCHLORATE (C) 30CLNA04\$
14799+5+150628+6+194496+2+194588-1+539321+7+146738+3 4001500J 66331CLNA04\$
14799+5+150628+6+194496+2+194588-1+539321+7+146738+3 4001500J 66332CLNA04\$

-
H
C/H

.604
.418
.797
.231
.033
.114
.096
.037
.023
.053
.038
.038

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H				
400	32.500	42.622	3.003	41.256	1.366	2.618	0.385	40.402	2.220	2.366	0.637				
500	35.900	50.258	6.431	52.182	-1.924	7.528	-1.097	52.756	-2.498	7.884	-1.453				
600	38.300	62.774	13.487	61.422	1.352	12.592	0.895	61.543	1.231	12.696	0.790				
700	40.267	68.829	17.417	68.724	0.105	17.324	0.093	68.475	0.354	17.190	0.227				
800	42.000	74.322	21.532	74.613	-0.291	21.731	-0.199	74.308	0.014	21.558	-0.026				
900	43.400	79.350	25.803	79.610	-0.260	25.973	-0.170	79.429	-0.079	25.906	-0.103				
1000	44.700	83.991	30.209	84.096	-0.105	30.232	-0.023	84.056	-0.065	30.299	-0.090				
1100	45.900	88.309	34.740	88.304	0.005	34.649	0.091	88.324	-0.015	34.777	-0.037				
1200	47.000	92.350	39.386	92.343	0.007	39.293	0.093	92.318	0.032	39.368	0.018				
1300	48.060	96.155	44.139	96.226	-0.071	44.145	-0.006	96.098	0.057	44.091	0.048				
1400	49.060	99.753	48.996	99.891	-0.138	49.091	-0.095	99.705	0.048	48.960	0.036				
1500	50.000	103.170	53.949	103.218	-0.048	53.911	0.038	103.170	0.000	53.983	-0.034				

L
F
1
+8.
-7.
F
1
+35
+35
T
K
40
60
80
100
120
140
160
180
200
220
240
260
280
300
300
320
340
360
380
400
420
440
460
480
500
520
540
560
580
600

PHOSPHORUS PENTAFLUORIDE (G) F 5P 1 0 0 0 0 1269
 MOL. WT. = 125.960 BLOCK = 3666 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = -376.900 KEY = 780
 FITS FOR NOTS RMS = 0.008371
 9 1 15 0 0 0 0 0 0 0 PHOSPHORUS PENTAFLUORIDE (G) 10J1269 780
 .1341064E+1+2.8655946E-1-6.4509868E-2+4.9063563E-3 400 6000 11J1269 780
 .4916992E+0-3.9085302E+2+1.0250148E+2-3.7689990E+2P5P (G) 12J1269 780

MER
 NO
 DATA
 FITS
 1 1
 +8.656
 -3.369

FITS FOR EST RMS LOW = 0.011140 RMS HIGH = 0.009545
 9 1 15 0 0 0 0 0 0 0 PHOSPHORUS PENTAFLUORIDE (G) 10F5P
 76899+6+813794+5+315096+2+912904-4-152001+7+137630+3 4003000J126911F5P
 76899+6+813824+5+320145+2-322474-4-330419+7+137630+33C 006000J126912F5P

FITS
 1 1
 +57000
 +57000

/M	-----NOTS-----												T
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
	K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	K
002	000	23.718	78.342	2.252	78.555	-0.213	2.334	-0.082	78.570	-0.228	2.344	-0.092	400
001	000	27.416	88.760	7.416	88.724	0.036	7.385	0.031	88.726	0.034	7.389	0.027	600
000	000	29.128	96.910	13.090	96.883	0.027	13.066	0.024	96.885	0.025	13.070	0.020	800
000	000	30.021	103.515	19.014	103.503	0.012	19.003	0.011	103.507	0.008	19.008	0.006	1000
000	200	30.536	109.038	25.074	109.034	0.004	25.071	0.003	109.038	0.000	25.077	-0.003	1200
001	400	30.857	113.771	31.215	113.770	0.001	31.216	-0.001	113.773	-0.002	31.222	-0.007	1400
000	600	31.071	117.907	37.410	117.906	0.001	37.412	-0.002	117.908	-0.001	37.415	-0.005	1600
000	800	31.219	121.575	43.639	121.574	0.001	43.641	-0.002	121.576	-0.001	43.643	-0.004	1800
000	000	31.327	124.870	49.895	124.869	0.001	49.896	-0.001	124.869	0.001	49.895	0.000	2000
000	200	31.407	127.860	56.168	127.858	0.002	56.168	-0.000	127.858	0.002	56.166	0.002	2200
000	400	31.468	130.596	62.456	130.594	0.002	62.456	0.000	130.593	0.003	62.452	0.004	2400
000	600	31.516	133.116	68.754	133.114	0.002	68.754	-0.000	133.113	0.003	68.751	0.003	2600 1
000	800	31.554	135.453	75.061	135.451	0.002	75.061	-0.000	135.451	0.002	75.061	0.000	2800 1
003	000	31.584	137.631	81.375	137.630	0.001	81.376	-0.001	137.631	0.000	81.379	-0.004	3000 1
001	000	31.584	137.631	81.375	137.630	0.001	81.376	-0.001	137.631	0.000	81.382	-0.007	3000 1
000	200	31.610	139.671	87.695	139.669	0.002	87.696	-0.001	139.668	0.003	87.696	-0.001	3200 1
001	400	31.631	141.588	94.019	141.586	0.002	94.020	-0.001	141.584	0.004	94.017	0.002	3400 1
001	600	31.648	143.396	100.347	143.395	0.001	100.349	-0.002	143.392	0.004	100.344	0.003	3600 1
001	400	31.663	145.108	106.678	145.106	0.002	106.680	-0.002	145.104	0.004	106.674	0.003	3800 1
001	000	31.676	146.732	113.012	146.731	0.001	113.014	-0.002	146.728	0.004	113.009	0.003	4000 1
000	200	31.687	148.278	119.348	148.277	0.001	119.350	-0.002	148.274	0.004	119.346	0.002	4200 1
000	400	31.696	149.752	125.687	149.751	0.001	125.688	-0.001	149.749	0.003	125.685	0.002	4400 1
000	600	31.705	151.161	132.027	151.160	0.001	132.028	-0.001	151.158	0.003	132.027	0.000	4600 1
000	800	31.712	152.511	138.369	152.509	0.002	138.369	0.000	152.508	0.003	138.369	-0.000	4800 1
000	000	31.719	153.805	144.712	153.804	0.001	144.711	0.001	153.803	0.002	144.713	-0.001	5000 1
001	200	31.724	155.050	151.056	155.048	0.002	151.055	0.001	155.047	0.003	151.058	-0.002	5200 1
000	400	31.729	156.247	157.401	156.245	0.002	157.400	0.001	156.244	0.003	157.403	-0.002	5400 1
000	600	31.734	157.401	163.748	157.399	0.002	163.746	0.002	157.398	0.003	163.748	-0.000	5600 1
000	800	31.738	158.515	170.095	158.513	0.002	170.095	0.000	158.512	0.003	170.094	0.001	5800 1
000	000	31.742	159.591	176.443	159.589	0.002	176.445	-0.002	159.587	0.004	176.440	0.003	6000 1

MERCURY MONOHYDRIDE

(G)

H 1HG 1

663

MOL. WT.= 201.590

BLOCK= 3672

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 57.000 KEY = 781

FITS FOR NOTS RMS = 0.004075

1 1 1 80 0 0 0 0 0 0 0 MERCURY MONOHYDRIDE (G) 10J 663 781
 +8.6562805E+0+6.4474451E-1-3.7961091E-2+2.8082439E-3 400 6000 11J 663 781
 -3.3697509E-1+5.3432159E+1+6.1367324E+1+5.7000000E+1HHG(G) 12J 663 781

FITS FOR EST RMS LOW = 0.006011 RMS HIGH = 0.003451

1 1 1 80 0 0 0 0 0 0 0 MERCURY MONOHYDRIDE (G) 10HHG
 +570000+5+251325+5+876309+1+526677-3-356864+6+726859+2 4003000J 66311HHG
 +570000+5+251328+5+901844+1+459327-3-109744+7+726859+230006000J 66312HHG

-----NOTS-----				-----EST-----			
DH	T	CP	H	SC	DS	HC	DH
KC/M	K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.092	400	7.509	54.640	0.748	54.744	-0.104	0.788
0.027	600	8.140	57.810	2.315	57.794	0.016	2.301
0.020	800	8.588	60.217	3.991	60.203	0.014	3.979
0.006	1000	8.899	62.169	5.741	62.163	0.006	5.736
-0.003	1200	9.130	63.813	7.545	63.811	0.002	7.544
-0.007	1400	9.314	65.234	9.390	65.234	0.000	9.391
-0.005	1600	9.471	66.488	11.269	66.488	-0.000	11.271
-0.004	1800	9.609	67.612	13.177	67.612	0.000	13.179
0.000	2000	9.735	68.631	15.112	68.631	0.000	15.113
0.002	2200	9.854	69.565	17.071	69.564	0.001	17.071
0.004	2400	9.967	70.427	19.053	70.426	0.001	19.053
0.003	2600	10.076	71.229	21.058	71.228	0.001	21.057
0.000	2800	10.182	71.980	23.083	71.979	0.001	23.083
-0.004	3000	10.286	72.686	25.130	72.685	0.001	25.130
-0.007	3000	10.286	72.686	25.130	72.685	0.001	25.130
-0.001	3200	10.388	73.353	27.198	73.352	0.001	27.198
0.002	3400	10.489	73.986	29.286	73.985	0.001	29.286
0.003	3600	10.589	74.588	31.393	74.587	0.001	31.394
0.003	3800	10.688	75.163	33.521	75.162	0.001	33.522
0.003	4000	10.786	75.714	35.669	75.713	0.001	35.669
0.002	4200	10.884	76.243	37.836	76.242	0.001	37.836
0.002	4400	10.981	76.751	40.022	76.750	0.001	40.023
0.000	4600	11.078	77.241	42.228	77.241	0.000	42.228
-0.000	4800	11.174	77.715	44.453	77.714	0.001	44.453
-0.001	5000	11.270	78.173	46.698	78.172	0.001	46.697
-0.002	5200	11.366	78.617	48.961	78.616	0.001	48.961
-0.002	5400	11.462	79.048	51.244	79.047	0.001	51.243
-0.000	5600	11.558	79.466	53.546	79.465	0.001	53.545
0.001	5800	11.653	79.873	55.867	79.872	0.001	55.867
0.003	6000	11.748	80.270	58.207	80.269	0.001	58.208

NITROUS ACID, CIS- (G) H 1N 10 2 663
 MOL. WT.= 47.010 BLOCK= 3678 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -18.340 KEY = 782
 FITS FOR NOTS RMS = 0.023180
 1 1 7 2 8 0 0 0 0 0 NITROUS ACID, CIS- (G) 10J 663 782
 .6362915E+1+1.9534263E+0-3.9840495E-1+2.8023257E-2 400 6000 11J 663 782
 .2365570E+0-2.6740371E+1+7.3858444E+1-1.8339996E+1HNO2(G) 12J 663 782

NI
 H
 DAT
 FIT
 1 1
 +1.62
 -1.16

FITS FOR EST RMS LOW = 0.040443 RMS HIGH = 0.005900
 1 1 7 2 8 0 0 0 0 0 NITROUS ACID, CIS- (G) 10HNO2
 .83399+5+469011+5+175993+2+661649-3-148921+7+962309+2 4003000J 66311HNO2
 .83399+5+468842+5+199403+2-119366-4-607923+7+962309+230006000J 66312HNO2

FIT
 1 1
 -1883
 -1883

/H	-----NOTS-----								-----EST-----				T
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
	K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	K
046	400	12.275	62.979	1.180	63.480	-0.501	1.384	-0.204	63.621	-0.642	1.445	-0.265	400
013	400	14.318	68.374	3.854	68.320	0.054	3.802	0.052	68.304	0.070	3.790	0.064	600
012	400	15.637	72.686	6.859	72.613	0.073	6.796	0.063	72.594	0.092	6.782	0.077	800
003	400	16.548	76.279	10.082	76.240	0.039	10.050	0.032	76.235	0.044	10.049	0.033	1000
002	400	17.213	79.358	13.462	79.345	0.013	13.457	0.005	79.348	0.010	13.466	-0.004	1200
003	400	17.712	82.050	16.956	82.050	0.000	16.968	-0.012	82.056	-0.006	16.981	-0.025	1400
002	400	18.093	84.442	20.539	84.444	-0.002	20.555	-0.016	84.450	-0.008	20.566	-0.027	1600
000	400	18.389	86.590	24.188	86.592	-0.002	24.203	-0.015	86.594	-0.004	24.207	-0.019	1800
001	400	18.620	88.540	27.890	88.540	0.000	27.900	-0.010	88.537	0.003	27.896	-0.006	2000
002	400	18.804	90.324	31.633	90.320	0.004	31.637	-0.004	90.314	0.010	31.626	0.007	2200
000	400	18.952	91.967	35.409	91.961	0.006	35.408	0.001	91.953	0.014	35.394	0.015	2400
003	400	19.073	93.489	39.212	93.481	0.008	39.207	0.005	93.475	0.014	39.197	0.015	2600
003	400	19.172	94.906	43.037	94.898	0.008	43.030	0.007	94.897	0.009	43.033	0.004	2800
000	400	19.254	96.231	46.880	96.223	0.008	46.873	0.007	96.231	0.000	46.901	-0.021	3000
001	400	19.254	96.231	46.880	96.223	0.008	46.873	0.007	96.231	0.000	46.884	-0.004	3000
001	400	19.323	97.476	50.737	97.469	0.007	50.732	0.005	97.475	0.001	50.738	-0.001	3200
001	400	19.381	98.649	54.608	98.642	0.007	54.605	0.003	98.647	0.002	54.607	0.001	3400
001	400	19.431	99.759	58.489	99.752	0.007	58.488	0.001	99.756	0.003	58.487	0.002	3600
001	400	19.473	100.810	62.380	100.805	0.005	62.382	-0.002	100.808	0.002	62.377	0.003	3800
001	400	19.510	101.810	66.278	101.805	0.005	66.282	-0.004	101.808	0.002	66.276	0.002	4000
000	400	19.542	102.763	70.184	102.758	0.005	70.188	-0.004	102.761	0.002	70.182	0.002	4200
000	400	19.570	103.673	74.095	103.668	0.005	74.100	-0.005	103.671	0.002	74.094	0.001	4400
000	400	19.595	104.543	78.012	104.538	0.005	78.016	-0.004	104.541	0.002	78.011	0.001	4600
000	400	19.617	105.378	81.933	105.372	0.006	81.935	-0.002	105.376	0.002	81.933	-0.000	4800
001	400	19.636	106.179	85.858	106.173	0.006	85.858	0.000	106.177	0.002	85.859	-0.001	5000
001	400	19.653	106.949	89.787	106.943	0.006	89.784	0.003	106.948	0.001	89.788	-0.001	5200
000	400	19.669	107.691	93.719	107.685	0.006	93.715	0.004	107.689	0.001	93.720	-0.001	5400
000	400	19.683	108.407	97.655	108.400	0.007	97.650	0.005	108.405	0.002	97.655	0.000	5600
000	400	19.695	109.098	101.592	109.092	0.006	101.591	0.001	109.096	0.002	101.592	0.000	5800
001	400	19.707	109.766	105.533	109.761	0.005	105.539	-0.006	109.763	0.003	105.531	0.002	6000

NITROUS ACID, TRANS- (G) H 1N 10 2 663
 MOL. WT. = 47.010 BLOCK = 3685 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -18.840 KEY = 783
 FITS FOR NOTS RMS = 0.022306
 1 1 1 7 2 8 0 0 0 0 0 NITROUS ACID, TRANS- (G) 10J 663 783
 +1.6231246E+1+2.0112571E+0-4.0839618E-1+2.8658077E-2 400 6000 11J 663 783
 -1.1614074E+0-2.6998794E+1+7.3930023E+1-1.8839996E+1HNO2 (G) 12J 663 783

FITS FOR EST RMS LOW = 0.039624 RMS HIGH = 0.005804
 1 1 1 7 2 8 0 0 0 0 0 NITROUS ACID, TRANS- (G) 10HNO2
 -188399+5+469052+5+175084+2+682277-3-142376+7+962879+2 4003000J 66311HNO2
 -188399+5+468884+5+199079+2-728122-5-610048+7+962879+230006000J 66312HNO2

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.265	400	12.435	62.987	1.196	63.459	-0.472	1.390	-0.194	63.606	-0.619	1.453	-0.257	T
0.064	600	14.414	68.435	3.897	68.387	0.048	3.849	0.048	68.370	0.065	3.836	0.061	K
0.077	800	15.677	72.767	6.915	72.699	0.068	6.855	0.060	72.678	0.089	6.840	0.075	40
0.033	1000	16.550	76.365	10.142	76.327	0.038	10.111	0.031	76.321	0.044	10.109	0.033	60
0.004	1200	17.193	79.442	13.519	79.429	0.013	13.514	0.005	79.432	0.010	13.523	-0.004	80
0.025	1400	17.682	82.131	17.009	82.129	0.002	17.019	-0.010	82.137	-0.006	17.033	-0.024	100
0.027	1600	18.059	84.517	20.585	84.520	-0.003	20.601	-0.016	84.526	-0.009	20.612	-0.027	120
0.019	1800	18.354	86.662	24.227	86.664	-0.002	24.242	-0.015	86.666	-0.004	24.247	-0.020	140
0.006	2000	18.587	88.608	27.922	88.608	0.000	27.932	-0.010	88.606	0.002	27.928	-0.006	160
0.007	2200	18.773	90.389	31.659	90.386	0.003	31.663	-0.004	90.380	0.009	31.652	0.007	180
0.015	2400	18.923	92.029	35.429	92.024	0.005	35.428	0.001	92.016	0.013	35.414	0.015	200
0.015	2600	19.046	93.549	39.226	93.542	0.007	39.222	0.004	93.536	0.013	39.211	0.015	220
0.004	2800	19.147	94.964	43.046	94.956	0.008	43.040	0.006	94.955	0.009	43.042	0.004	240
0.021	3000	19.231	96.288	46.884	96.280	0.008	46.877	0.007	96.288	0.000	46.905	-0.021	260
0.004	3000	19.231	96.288	46.884	96.280	0.008	46.877	0.007	96.288	0.000	46.888	-0.005	280
0.001	3200	19.302	97.531	50.738	97.524	0.007	50.732	0.006	97.530	0.001	50.738	-0.000	300
0.001	3400	19.362	98.703	54.604	98.697	0.006	54.601	0.003	98.702	0.001	54.603	0.001	320
0.002	3600	19.414	99.812	58.482	99.806	0.006	58.481	0.001	99.810	0.002	58.480	0.002	340
0.003	3800	19.458	100.862	62.369	100.857	0.005	62.371	-0.002	100.860	0.002	62.367	0.002	360
0.002	4000	19.496	101.862	66.265	101.857	0.005	66.268	-0.003	101.860	0.002	66.262	0.003	380
0.002	4200	19.529	102.814	70.167	102.809	0.005	70.172	-0.005	102.812	0.002	70.165	0.001	400
0.001	4400	19.558	103.723	74.076	103.718	0.005	74.081	-0.005	103.721	0.002	74.075	0.001	420
0.001	4600	19.584	104.593	77.990	104.588	0.005	77.994	-0.004	104.591	0.002	77.990	0.000	440
0.000	4800	19.606	105.427	81.909	105.422	0.005	81.911	-0.002	105.425	0.002	81.909	-0.000	460
0.001	5000	19.626	106.227	85.832	106.222	0.005	85.832	0.000	106.226	0.001	85.833	-0.001	480
0.001	5200	19.644	106.998	89.759	106.991	0.007	89.756	0.003	106.996	0.002	89.760	-0.001	500
0.001	5400	19.660	107.739	93.690	107.733	0.006	93.685	0.005	107.738	0.001	93.690	-0.000	520
0.000	5600	19.675	108.454	97.623	108.448	0.006	97.619	0.004	108.453	0.001	97.624	-0.001	540
0.000	5800	19.688	109.145	101.560	109.139	0.006	101.559	0.001	109.144	0.001	101.559	0.001	560
0.002	6000	19.700	109.813	105.499	109.808	0.005	105.506	-0.007	109.811	0.002	105.497	0.002	580

T
 K
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 580
 600

NITRIC ACID

(G) H 1N 10 3

663

MOL. WT. = 63.010 BLOCK = 3691 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -32.100 KEY = 784

FITS FOR NOTS RMS = 0.028132

1 1 7 3 8 0 0 0 0 0 NITRIC ACID (G) 10J 663 784
1.1812698E+1+2.2471008E+0-4.5981001E-1+3.2429292E-2 400 6000 11J 663 784
1.8227539E+0-4.3871627E+1+8.1812149E+1-3.2099990E+1HNO3(G) 12J 663 784

FITS FOR EST RMS LOW = 0.048545 RMS HIGH = 0.007575

1 1 7 3 8 0 0 0 0 0 NITRIC ACID (G) 10HNO3
320999+5+609370+5+232335+2+759090-3-211182+7+110850+3 4003000J 66311HNO3
320999+5+609185+5+259313+2-165069-4-745600+7+110850+330006000J 66312HNO3

DH

KC/M

	T K	NOTS			EST		
		CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	DH KC/M
3	-0.257	400 15.103	67.750	1.423	68.384	-0.634	1.680
5	0.061	400 18.348	74.543	4.795	74.469	0.074	4.726
0	0.075	400 20.325	80.114	8.678	80.025	0.089	8.601
3	0.033	400 21.613	84.797	12.880	84.752	0.045	12.842
3	-0.004	400 22.508	88.821	17.297	88.806	0.015	17.292
3	-0.024	400 23.159	92.342	21.867	92.341	0.001	21.881
2	-0.027	400 23.646	95.468	26.550	95.471	-0.003	26.570
7	-0.020	400 24.017	98.276	31.317	98.278	-0.002	31.335
8	-0.006	400 24.306	100.822	36.151	100.820	0.002	36.163
2	0.007	400 24.534	103.149	41.036	103.145	0.004	41.041
4	0.015	400 24.716	105.292	45.961	105.285	0.007	45.960
1	0.015	600 24.863	107.276	50.920	107.268	0.008	50.914
2	0.004	800 24.984	109.124	55.905	109.114	0.010	55.897
5	-0.021	600 25.085	110.851	60.912	110.841	0.010	60.904
8	-0.005	600 25.085	110.851	60.912	110.841	0.010	60.904
8	-0.000	200 25.169	112.473	65.938	112.463	0.010	65.932
3	0.001	400 25.240	114.001	70.979	113.992	0.009	70.975
0	0.002	600 25.300	115.445	76.033	115.437	0.008	76.032
7	0.002	600 25.352	116.814	81.098	116.807	0.007	81.101
2	0.003	400 25.397	118.116	86.173	118.110	0.006	86.178
5	0.001	400 25.435	119.356	91.257	119.350	0.006	91.262
5	0.001	400 25.469	120.540	96.347	120.534	0.006	96.353
0	0.000	400 25.499	121.673	101.444	121.667	0.006	101.449
9	-0.000	400 25.526	122.759	106.547	122.752	0.007	106.549
3	-0.001	400 25.549	123.801	111.654	123.794	0.007	111.653
0	-0.001	200 25.570	124.804	116.766	124.796	0.008	116.762
0	-0.000	400 25.589	125.769	121.882	125.761	0.008	121.876
4	-0.001	400 25.605	126.700	127.001	126.692	0.008	126.996
9	0.001	400 25.621	127.599	132.124	127.591	0.008	132.122
7	0.002	400 25.634	128.467	137.249	128.461	0.006	137.257

ZIRCONIUM HYDRIDE

(G) H 12R 1

663

MOL. WT. = 92.220 BLOCK = 3697 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 123.400 KEY = 785

FITS FOR NOTS RMS = 0.004359

1 1 1 40 0 0 0 0 0 0 0 ZIRCONIUM HYDRIDE (G) 10J 663 785
 +8.6138906E+0+3.5202288E-1-4.4365894E-2+3.3031832E-3 400 6000 11J 663 785
 -3.4857177E-1+1.1983503E+2+6.0535781E+1+1.2339999E+2HZR (G) 12J 663 785

FITS FOR EST RMS LOW = 0.006719 RMS HIGH = 0.003154

1 1 1 40 0 0 0 0 0 0 0 ZIRCONIUM HYDRIDE (G) 10HZR
 +123399+6+236477+5+874208+1+212921-3-373600+6+709059+2 4003000J 66311HZR
 +123399+6+236472+5+899940+1+141607-3-102126+7+709059+230006000J 66312HZR

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.327	400	7.348	53.756	0.735	53.870	-0.114	0.779	-0.044	53.885	-0.129	0.787	-0.052	
0.082	600	7.891	56.841	2.260	56.823	0.018	2.245	0.015	56.823	0.018	2.245	0.015	
0.092	800	8.284	59.169	3.880	59.154	0.015	3.867	0.013	59.154	0.015	3.868	0.012	
0.038	1000	8.543	61.048	5.565	61.041	0.007	5.560	0.005	61.042	0.006	5.561	0.004	
-0.006	1200	8.719	62.622	7.292	62.620	0.002	7.292	0.000	62.621	0.001	7.294	-0.002	
-0.029	1400	8.845	63.976	9.049	63.975	0.001	9.051	-0.002	63.977	-0.001	9.053	-0.004	
-0.032	1600	8.942	65.163	10.828	65.163	-0.000	10.831	-0.003	65.165	-0.002	10.832	-0.004	
-0.023	1800	9.019	66.221	12.625	66.221	0.000	12.626	-0.001	66.222	-0.001	12.627	-0.002	
-0.007	2000	9.084	67.175	14.435	67.174	0.001	14.436	-0.001	67.174	0.001	14.436	-0.001	
0.009	2200	9.140	68.043	16.258	68.042	0.001	16.258	0.000	68.042	0.001	16.256	0.002	
0.018	2400	9.191	68.841	18.091	68.840	0.001	18.090	0.001	68.839	0.002	18.089	0.002	
0.018	2600	9.237	69.578	19.934	69.577	0.001	19.933	0.001	69.577	0.001	19.932	0.002	
0.005	2800	9.279	70.264	21.785	70.263	0.001	21.784	0.001	70.263	0.001	21.785	0.000	
-0.025	3000	9.320	70.906	23.645	70.905	0.001	23.645	0.000	70.906	0.000	23.648	-0.003	
-0.007	3000	9.320	70.906	23.645	70.905	0.001	23.645	0.000	70.906	0.000	23.647	-0.002	
-0.001	3200	9.359	71.509	25.513	71.507	0.002	25.513	0.000	71.508	0.001	25.514	-0.001	
0.001	3400	9.396	72.077	27.389	72.076	0.001	27.389	0.000	72.076	0.001	27.388	0.001	
0.003	3600	9.432	72.615	29.271	72.614	0.001	29.272	-0.001	72.614	0.001	29.271	0.000	
0.003	3800	9.467	73.126	31.161	73.125	0.001	31.162	-0.001	73.125	0.001	31.160	0.001	
0.002	4000	9.501	73.613	33.058	73.612	0.001	33.059	-0.001	73.612	0.001	33.057	0.001	
0.002	4200	9.535	74.077	34.962	74.076	0.001	34.962	-0.000	74.076	0.001	34.961	0.001	
0.001	4400	9.568	74.521	36.872	74.520	0.001	36.873	-0.001	74.521	0.000	36.872	0.000	
0.000	4600	9.601	74.947	38.789	74.946	0.001	38.789	-0.000	74.947	0.000	38.789	0.000	
-0.000	4800	9.634	75.357	40.712	75.356	0.001	40.712	-0.000	75.356	0.001	40.713	-0.001	
-0.001	5000	9.666	75.751	42.642	75.749	0.002	42.642	0.000	75.750	0.001	42.643	-0.001	
-0.001	5200	9.698	76.130	44.579	76.129	0.001	44.578	0.001	76.130	0.000	44.579	-0.000	
-0.001	5400	9.730	76.497	46.521	76.496	0.001	46.521	0.000	76.496	0.001	46.522	-0.001	
-0.001	5600	9.761	76.851	48.471	76.850	0.001	48.470	0.001	76.851	0.000	48.471	0.000	
0.001	5800	9.793	77.194	50.426	77.193	0.001	50.426	0.000	77.194	0.000	50.426	0.000	
0.002	6000	9.824	77.527	52.388	77.526	0.001	52.389	-0.001	77.526	0.001	52.387	0.001	

POT
MOI
DATA
FITS
1 8 2
+1.5872
+2.0527

FITS
1 8 2
-867999
-867999

NOTS								EST					
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C
K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	K	C
400	9.400	9.524	0.845	9.554	-0.030	0.855	-0.010	9.779	-0.255	0.942	-0.097	400	21
500	11.300	11.832	1.883	11.805	0.027	1.868	0.015	11.767	0.065	1.840	0.043	500	22
600	12.860	14.035	3.094	14.023	0.012	3.088	0.006	13.950	0.085	3.041	0.053	600	23
700	14.100	16.115	4.445	16.118	-0.003	4.448	-0.003	16.068	0.047	4.417	0.028	700	24
800	15.090	18.065	5.906	18.074	-0.009	5.914	-0.008	18.052	0.013	5.904	0.002	800	25
900	15.850	19.888	7.455	19.893	-0.005	7.459	-0.004	19.892	-0.004	7.466	-0.011	900	26
1000	16.380	21.588	9.068	21.586	0.002	9.066	0.002	21.594	-0.006	9.082	-0.014	1000	27
1100	16.744	23.166	10.725	23.163	0.003	10.721	0.004	23.172	-0.006	10.739	-0.014	1100	28
1200	17.050	24.637	12.415	24.635	0.002	12.413	0.002	24.641	-0.004	12.427	-0.012	1200	29
1300	17.298	26.012	14.133	26.011	0.001	14.133	0.000	26.012	-0.000	14.140	-0.007	1300	30
1400	17.488	27.301	15.873	27.301	-0.000	15.874	-0.001	27.297	0.004	15.874	-0.001	1400	30
1500	17.620	28.512	17.629	28.514	-0.002	17.631	-0.002	28.505	0.007	17.625	0.004	1500	31
1600	17.753	29.654	19.398	29.655	-0.001	19.400	-0.002	29.645	0.009	19.391	0.007	1600	32
1700	17.858	30.734	21.178	30.734	0.000	21.179	-0.001	30.724	0.010	21.170	0.008	1700	33
1800	17.934	31.757	22.968	31.755	0.002	22.966	0.002	31.747	0.010	22.961	0.007	1800	34
1900	17.981	32.728	24.764	32.726	0.002	24.761	0.003	32.721	0.007	24.762	0.001	1900	35
2000	18.000	33.650	26.564	33.651	-0.001	26.566	-0.002	33.650	0.000	26.573	-0.009	2000	36

3

POTASSIUM OXIDE

(C) K 20 1

663

MOL. WT. = 94.200 BLOCK = 3706 NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -86.800 KEY = 787

FITS FOR NOTS RMS = 0.001118

36 1 8 2 19 0 0 0 0 0 0 POTASSIUM OXIDE (C) 30J 663 787
 36 +1.5872161E+1+1.2355628E+1-1.6764240E+0+3.6812281E-1 400 2000 31J 663 787
 36 +2.0527648E-1-9.1442245E+1+3.9056350E+1-8.6799987E+1K20(C) 32J 663 787

FITS FOR EST RMS LOW = 0.001664 RMS HIGH = 0.001664

1 8 2 19 0 0 0 0 0 0 POTASSIUM OXIDE (C) 30K20\$
 -867999+5+904458+5+172631+2+978325-2+746720+5+891600+2 4002000J 66331K20\$
 -867999+5+904458+5+172631+2+978325-2+746720+5+891600+2 4002000J 66332K20\$

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
12 -0.097	400	21.880	28.683	2.148	28.687	-0.004	2.148	-0.000	28.711	-0.028	2.158	-0.010	
10 0.043	500	22.530	33.634	4.367	33.628	0.006	4.364	0.003	33.625	0.009	4.362	0.005	
11 0.053	600	23.280	37.806	6.657	37.801	0.005	6.654	0.003	37.797	0.009	6.651	0.006	
17 0.028	700	24.231	41.466	9.033	41.466	0.000	9.033	0.000	41.464	0.002	9.031	0.002	
14 0.002	800	25.190	44.764	11.504	44.765	-0.001	11.504	-0.000	44.765	-0.001	11.504	-0.000	
16 -0.011	900	26.156	47.787	14.071	47.788	-0.001	14.072	-0.001	47.789	-0.002	14.073	-0.002	
12 -0.014	1000	27.130	50.593	16.735	50.594	-0.001	16.736	-0.001	50.595	-0.002	16.737	-0.002	
19 -0.014	1100	28.095	53.224	19.496	53.225	-0.001	19.497	-0.001	53.225	-0.001	19.497	-0.001	
17 -0.012	1200	29.061	55.710	22.354	55.711	-0.001	22.355	-0.001	55.710	-0.000	22.354	-0.000	
10 -0.007	1300	30.029	58.075	25.309	58.075	-0.000	25.309	-0.000	58.074	0.001	25.308	0.001	
14 -0.001	1400	30.999	60.335	28.360	60.336	-0.001	28.361	-0.001	60.335	0.000	28.359	0.001	
25 0.004	1500	31.970	62.507	31.508	62.508	-0.001	31.509	-0.001	62.507	0.000	31.508	0.000	
11 0.007	1600	32.943	64.602	34.754	64.602	0.000	34.754	-0.000	64.601	0.001	34.754	0.000	
10 0.008	1700	33.917	66.628	38.097	66.628	-0.000	38.097	0.000	66.628	0.000	38.097	0.000	
11 0.007	1800	34.893	68.594	41.538	68.594	-0.000	41.537	0.001	68.594	-0.000	41.538	0.000	
12 0.001	1900	35.871	70.507	45.076	70.507	0.000	45.075	0.001	70.507	-0.000	45.076	-0.000	
13 -0.009	2000	36.850	72.372	48.712	72.372	-0.000	48.713	-0.001	72.372	0.000	48.712	-0.000	

POTASSIUM PEROXIDE (C) K 20 2 963 L.
 MOL. WT.= 110.200 BLOCK= 3708 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -118.500 KEY = 788
 ITS FOR NOTS RMS = 0.002870
 8 2 19 0 0 0 0 0 0 0 POTASSIUM PEROXIDE (C) 30J 963 788
 1706069E+1+1.5070831E+1-6.4847320E-1+1.5235936E-1 400 2000 31J 963 788
 16700744E-1-1.2584637E+2+4.6807785E+1-1.1850000E+2K202 (C) 32J 963 788

ITS FOR EST RMS LOW = 0.002685 RMS HIGH = 0.002685
 8 2 19 0 0 0 0 0 0 0 POTASSIUM PEROXIDE (C) 30K202\$
 18500+6+119675+6+211668+2+141490-1-206784+6+113148+3 4002000J 96331K202\$
 18500+6+119675+6+211668+2+141490-1-206784+6+113148+3 4002000J 96332K202\$

DH C/M	-----NOTS-----								-----EST-----				T K
	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M		
0.010	25.600	34.322	2.542	34.337	-0.015	2.546	-0.004	34.346	-0.024	2.551	-0.009	400	
0.005	27.600	40.263	5.208	40.250	0.013	5.200	0.008	40.252	0.011	5.201	0.007	500	
0.006	28.850	45.417	8.037	45.399	0.018	8.027	0.010	45.399	0.018	8.027	0.010	600	
0.002	30.581	49.995	11.009	50.001	-0.006	11.014	-0.005	50.001	-0.006	11.014	-0.005	700	
0.000	32.200	54.186	14.149	54.193	-0.007	14.155	-0.006	54.193	-0.007	14.155	-0.006	800	
0.002	33.706	58.067	17.445	58.067	-0.000	17.446	-0.001	58.067	0.000	17.446	-0.001	900	
0.001	35.100	61.691	20.887	61.689	0.002	20.884	0.003	61.688	0.003	20.884	0.003	1000	
0.000	36.548	65.104	24.469	65.103	0.001	24.468	0.001	65.102	0.002	24.467	0.002	1100	
0.001	37.992	68.346	28.196	68.347	-0.001	28.197	-0.001	68.345	0.001	28.195	0.001	1200	
0.001	39.432	71.444	32.067	71.445	-0.001	32.069	-0.002	71.444	0.000	32.067	-0.000	1300	
0.000	40.868	74.419	36.082	74.420	-0.001	36.084	-0.002	74.419	0.000	36.083	-0.001	1400	
0.000	42.300	77.287	40.241	77.289	-0.002	40.242	-0.001	77.287	-0.000	40.241	-0.000	1500	
0.000	43.728	80.063	44.542	80.064	-0.001	44.543	-0.001	80.063	0.000	44.542	-0.001	1600	
0.000	45.152	82.757	48.986	82.757	0.000	48.986	0.000	82.756	0.001	48.986	-0.000	1700	
0.000	46.572	85.378	53.573	85.377	0.001	53.571	0.002	85.377	0.001	53.572	0.001	1800	
0.000	47.988	87.934	58.301	87.934	0.000	58.300	0.001	87.933	0.001	58.300	0.001	1900	
0.000	49.400	90.431	63.170	90.432	-0.001	63.171	-0.001	90.431	0.000	63.171	-0.001	2000	

LITHIUM PEROXIDE

(C) LI 20 2

963

MOL. WT. = 45.870 BLOCK = 3710 NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM (KCAL/(MOLE)) = -151.200 KEY = 789

FITS FOR NOTS RMS = 0.001005

2 8 2 71 0 0 0 0 0 0 0 LITHIUM PEROXIDE (C) 30J 963 789
+1.6823226E+1+1.2340089E+1-1.5117663E-1-7.6652824E-2 400 2000 31J 963 789
-3.1288146E-1-1.5781388E+2+2.8423645E+1-1.5119999E+2LI2O2 (C) 32J 963 789

FITS FOR EST RMS LOW = 0.006966 RMS HIGH = 0.006966

2 8 2 71 0 0 0 0 0 0 0 LITHIUM PEROXIDE (C) 30LI2O2\$
-151199+6+971430+5+178813+2+112718-1-498384+6+827844+2 4002000J 96331LI2O2\$
-151199+6+971430+5+178813+2+112718-1-498384+6+827844+2 4002000J 96332LI2O2\$

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
.009	400	19.760	18.911	1.883	18.909	0.002	1.881	0.002	18.978	-0.067	1.910	-0.027
.007	500	21.700	23.536	3.959	23.536	-0.000	3.958	0.001	23.535	0.001	3.956	0.003
.010	600	23.290	27.638	6.211	27.636	0.002	6.209	0.002	27.618	0.020	6.198	0.013
.005	700	24.720	31.336	8.612	31.335	0.001	8.611	0.001	31.318	0.018	8.600	0.012
.006	800	26.070	34.726	11.152	34.725	0.001	11.151	0.001	34.713	0.013	11.145	0.007
.001	900	27.350	37.871	13.824	37.870	0.000	13.823	0.001	37.865	0.006	13.822	0.002
.003	1000	28.610	40.818	16.622	40.819	-0.001	16.623	-0.001	40.818	0.000	16.625	-0.003
.002	1100	29.850	43.603	19.545	43.605	-0.002	19.547	-0.002	43.606	-0.003	19.552	-0.007
.001	1200	31.070	46.253	22.591	46.255	-0.002	22.593	-0.002	46.256	-0.003	22.598	-0.007
.000	1300	32.261	48.787	25.758	48.788	-0.001	25.759	-0.001	48.789	-0.002	25.763	-0.005
.001	1400	33.438	51.221	29.043	51.222	-0.001	29.043	-0.000	51.221	0.000	29.046	-0.003
.000	1500	34.600	53.568	32.445	53.568	-0.000	32.445	-0.000	53.565	0.003	32.445	0.000
.001	1600	35.748	55.837	35.962	55.838	-0.001	35.962	-0.000	55.833	0.004	35.959	0.003
.000	1700	36.883	58.039	39.594	58.039	0.000	39.593	0.001	58.033	0.006	39.589	0.005
.001	1800	38.003	60.179	43.338	60.179	0.000	43.338	0.000	60.173	0.006	43.333	0.005
.001	1900	39.108	62.263	47.194	62.263	-0.000	47.193	0.001	62.259	0.004	47.192	0.002
.001	2000	40.200	64.297	51.159	64.297	-0.000	51.159	-0.000	64.297	0.000	51.165	-0.006

M

DA'

FI'

9.9

3.4

FI'

4

362

362

T

K

400

500

600

700

800

900

1000

1100

1200

1300

1400

1500

1600

1700

1800

1900

2000

MAGNESIUM TUNGSTATE (C) MG 10 4W 1 0 0 0 367
 MOL. WT.= 272.160 BLOCK= 3712 NO. POINT = 22
 DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -362.300 KEY = 790
 FITS FOR NOTS RMS = 0.002834
 8 1 12 1 74 0 0 0 0 0 MAGNESIUM TUNGSTATE (C) 30J 367 790
 .9206893E+1+5.8074398E+0+2.9922981E+0-6.1322283E-1 400 2000 31J 367 790
 .4182739E-1-3.7252416E+2+5.5492843E+1-3.6229980E+2MGO4W (C) 32J 367 790

FITS FOR EST RMS LOW = 0.004212 RMS HIGH = 0.004212
 8 1 12 1 74 0 0 0 0 0 MAGNESIUM TUNGSTATE (C) 30MGO4W\$
 362299+6+118678+6+263759+2+107243-1-567360+5+113158+3 4002000J 36731MGO4W\$
 362299+6+118678+6+263759+2+107243-1-567360+5+113158+3 4002000J 36732MGO4W\$

ZIRCO
 MOL.
 DATA
 FITS
 1 7 1
 +8.89081
 -1.90611

FITS
 1 7 1
 +170500
 +170500

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	29.500	32.367	2.845	32.348	0.019	2.837	0.008	32.305	0.062	2.822	0.023
500	31.450	39.171	5.898	39.184	-0.013	5.904	-0.006	39.199	-0.028	5.914	-0.016
600	32.750	45.023	9.109	45.027	-0.004	9.110	-0.001	45.046	-0.023	9.123	-0.014
700	33.860	50.156	12.440	50.152	0.004	12.437	0.003	50.163	-0.007	12.444	-0.004
800	34.930	54.747	15.880	54.741	0.006	15.875	0.005	54.744	0.003	15.876	0.004
900	35.950	58.920	19.424	58.916	0.004	19.420	0.004	58.914	0.006	19.417	0.007
1000	37.000	62.762	23.071	62.763	-0.001	23.072	-0.001	62.758	0.004	23.067	0.004
1100	38.100	66.340	26.826	66.344	-0.004	26.831	-0.005	66.340	0.000	26.825	0.001
1200	39.200	69.702	30.691	69.707	-0.005	30.696	-0.005	69.704	-0.002	30.692	-0.001
1300	40.300	72.884	34.666	72.886	-0.002	34.668	-0.002	72.884	-0.000	34.667	-0.001
1400	41.350	75.908	38.748	75.909	-0.001	38.749	-0.001	75.909	-0.001	38.749	-0.001
1500	42.450	78.799	42.939	78.799	0.000	42.937	0.002	78.799	-0.000	42.939	0.000
1600	43.500	81.572	47.236	81.572	0.000	47.235	0.001	81.573	-0.001	47.236	-0.000
1700	44.600	84.242	51.641	84.242	-0.000	51.640	0.001	84.243	-0.001	51.641	-0.000
1800	45.650	86.821	56.153	86.822	-0.001	56.154	-0.001	86.822	-0.001	56.154	-0.001
1900	46.750	89.319	60.774	89.320	-0.001	60.775	-0.001	89.319	-0.000	60.774	0.000
2000	47.800	91.744	65.502	91.744	-0.000	65.502	0.000	91.744	0.000	65.501	0.001

T	C
K	
400	7
600	8
800	8
1000	8
1200	8
1400	8
1600	8
1800	9
2000	9
2200	9
2400	9
2600	9
2800	9
3000	9
3200	9
3400	9
3600	9
3800	9
4000	9
4200	9
4400	9
4600	9
4800	9
5000	9
5200	9
5400	9
5600	9
5800	9
6000	9

ZIRCONIUM NITRIDE

(G) N 12R 1

663

MOL. WT. = 105.220 BLOCK = 3714 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 170.500 KEY = 791

FITS FOR NOTS RMS = 0.001882

0 1 7 1 40 0 0 0 0 0 0 0 ZIRCONIUM NITRIDE (G) 10J 663 791
 0 +8.8908090E+0+1.0614824E-1-7.7317655E-3+6.0791498E-4 400 6000 11J 663 791
 0 -1.9061279E-1+1.6726170E+2+6.5601379E+1+1.7050000E+2NZR(G) 12J 663 791

FITS FOR EST RMS LOW = 0.001454 RMS HIGH = 0.003001

1 7 1 40 0 0 0 0 0 0 0 ZIRCONIUM NITRIDE (G) 10NZR
 +170500+6+239185+5+890447+1+852706-4-191040+6+756689+2 4003000J 66311NZR
 +170500+6+239200+5+901110+1+628200-4-680144+6+756689+230006000J 66312NZR

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
2 0.023	400	7.965	58.062	0.792	58.092	-0.030	0.803	-0.011	58.092	-0.030	0.804	-0.012	
4 -0.016	600	8.434	61.392	2.438	61.387	0.005	2.432	0.006	61.388	0.004	2.434	0.004	
3 -0.014	800	8.664	63.853	4.150	63.849	0.004	4.145	0.005	63.850	0.003	4.147	0.003	
4 -0.004	1000	8.791	65.802	5.897	65.799	0.003	5.894	0.003	65.801	0.001	5.896	0.001	
6 0.004	1200	8.871	67.412	7.663	67.411	0.001	7.662	0.001	67.412	-0.000	7.664	-0.001	
7 0.007	1400	8.926	68.784	9.443	68.783	0.001	9.443	0.000	68.784	-0.000	9.444	-0.001	
7 0.004	1600	8.968	69.978	11.233	69.978	-0.000	11.232	0.001	69.979	-0.001	11.233	-0.000	
5 0.001	1800	9.001	71.037	13.030	71.036	0.001	13.030	0.000	71.037	0.000	13.030	-0.000	
2 -0.001	2000	9.029	71.986	14.833	71.986	-0.000	14.833	0.000	71.987	-0.001	14.833	0.000	
7 -0.001	2200	9.054	72.848	16.641	72.848	-0.000	16.641	-0.000	72.848	-0.000	16.641	0.000	
9 -0.001	2400	9.076	73.637	18.454	73.637	0.000	18.454	-0.000	73.637	0.000	18.454	0.000	
9 0.000	2600	9.097	74.364	20.271	74.364	-0.000	20.272	-0.001	74.364	-0.000	20.271	-0.000	
6 -0.000	2800	9.116	75.039	22.093	75.039	-0.000	22.093	0.000	75.039	-0.000	22.093	0.000	
1 -0.000	3000	9.135	75.669	23.918	75.669	0.000	23.918	-0.000	75.669	0.000	23.919	-0.001	
4 -0.001	3000	9.135	75.669	23.918	75.669	0.000	23.918	-0.000	75.669	0.000	23.920	-0.002	
4 0.000	3200	9.152	76.259	25.746	76.259	0.000	25.747	-0.001	76.259	0.000	25.747	-0.001	
1 0.001	3400	9.170	76.814	27.579	76.814	-0.000	27.579	-0.000	76.814	0.000	27.578	0.001	
	3600	9.186	77.339	29.414	77.339	0.000	29.415	-0.001	77.338	0.001	29.413	0.001	
	3800	9.203	77.836	31.253	77.836	0.000	31.254	-0.001	77.835	0.001	31.252	0.001	
	4000	9.219	78.308	33.095	78.308	-0.000	33.096	-0.001	78.308	0.000	33.094	0.001	
	4200	9.235	78.759	34.941	78.758	0.001	34.941	-0.000	78.758	0.001	34.940	0.001	
	4400	9.251	79.188	36.789	79.188	-0.000	36.790	-0.001	79.188	0.000	36.789	0.000	
	4600	9.266	79.600	38.641	79.600	0.000	38.641	-0.000	79.600	0.000	38.641	0.000	
	4800	9.282	79.995	40.496	79.995	0.000	40.496	0.000	79.994	0.001	40.496	-0.000	
	5000	9.297	80.374	42.354	80.374	0.000	42.354	0.000	80.374	0.000	42.354	-0.000	
	5200	9.312	80.739	44.215	80.739	0.000	44.214	0.001	80.738	0.001	44.215	-0.000	
	5400	9.328	81.091	46.079	81.090	0.001	46.078	0.001	81.090	0.001	46.079	-0.000	
	5600	9.343	81.430	47.946	81.430	0.000	47.945	0.001	81.430	0.000	47.946	-0.000	
	5800	9.358	81.758	49.816	81.758	-0.000	49.816	0.000	81.758	0.000	49.816	0.000	
	6000	9.373	82.076	51.689	82.076	0.000	51.689	-0.000	82.075	0.001	51.688	0.001	

SODIUM SUPEROXIDE

(C) NA 10 2

663

MOL. WT.= 54.980 BLCK= 3720 NO. POINT = 22

DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -62.300 KEY = 792

FITS FOR NOTS RMS = 0.000866

8 1 11 0 0 0 0 0 0 0 SODIUM SUPEROXIDE (C) 30J 663 792
 1.4127197E+1+1.0253080E+1-3.8160789E-1+9.6525788E-2 400 2000 31J 663 792
 1.5520019E-3-6.6934860E+1+4.1804565E+1-6.2299987E+1NAO2 (C) 32J 663 792

FITS FOR EST RMS LOW = 0.000442 RMS HIGH = 0.000442

8 1 11 0 0 0 0 0 0 0 SODIUM SUPEROXIDE (C) 30NAO2\$

22999+5+822356+5+143410+2+976257-2-385600+4+871720+2 4002000J 66331NAO2\$

22999+5+822356+5+143410+2+976257-2-385600+4+871720+2 4002000J 66332NAO2\$

DH

KC/M

4 -0.012

4 0.004

7 0.003

6 0.001

4 -0.001

4 -0.001

3 -0.000

0 -0.000

13 0.000

1 0.000

4 0.000

11 -0.000

13 0.000

9 -0.001

10 -0.002

17 -0.001

18 0.001

13 0.001

12 0.001

14 0.001

10 0.001

19 0.000

11 0.000

16 -0.000

14 -0.000

15 -0.000

19 -0.000

16 -0.000

16 0.000

18 0.001

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/H-K	C/H-K	KC/M	C/H-K	C/H-K	KC/M	KC/M	C/H-K	C/H-K	KC/M	KC/M
400	18.230	32.905	1.806	32.903	0.002	1.805	0.001	32.905	-0.000	1.807	-0.001
500	19.210	37.078	3.678	37.076	0.002	3.677	0.001	37.077	0.001	3.678	-0.000
600	20.190	40.667	5.648	40.665	0.002	5.647	0.001	40.666	0.001	5.648	0.000
700	21.167	43.852	7.716	43.851	0.001	7.715	0.001	43.851	0.001	7.716	0.000
800	22.140	46.742	9.881	46.742	0.000	9.881	0.000	46.742	0.000	9.881	-0.000
900	23.121	49.407	12.145	49.407	0.000	12.145	0.000	49.407	0.000	12.145	0.000
1000	24.100	51.894	14.506	51.894	-0.000	14.506	-0.000	51.893	0.001	14.506	0.000
1100	25.078	54.236	16.964	54.237	-0.001	16.965	-0.001	54.236	-0.000	16.965	-0.001
1200	26.055	56.460	19.521	56.461	-0.001	19.522	-0.001	56.460	0.000	19.521	-0.000
1300	27.031	58.584	22.176	58.585	-0.001	22.176	-0.000	58.584	0.000	22.175	0.001
1400	28.006	60.623	24.927	60.624	-0.001	24.928	-0.001	60.623	0.000	24.927	-0.000
1500	28.980	62.589	27.777	62.589	-0.000	27.777	-0.000	62.588	0.001	27.777	0.000
1600	29.957	64.490	30.724	64.491	-0.001	30.724	0.000	64.490	-0.000	30.724	0.000
1700	30.935	66.336	33.768	66.336	-0.000	33.768	0.000	66.336	0.000	33.769	-0.001
1800	31.913	68.132	36.911	68.132	0.000	36.910	0.001	68.132	0.000	36.911	0.000
1900	32.891	69.883	40.151	69.884	-0.001	40.151	0.000	69.883	-0.000	40.151	-0.000
2000	33.870	71.595	43.489	71.596	-0.001	43.489	-0.000	71.595	0.000	43.489	0.000

SODIUM PEROXIDE (C) NA 20 2 0 0 0 0 668
 MOL. WT.= 77.970 BLCK= 3723 NO. POINT = 27
 DATA FROM 0 TO 2500 K HFORM(KCAL/(MOLE)) = -122.660 KEY = 793
 FITS FOR NOTS RMS = 0.147918
 2 8 2 11 0 0 0 0 0 0 SODIUM PEROXIDE (C) 30J 668 793
 +7.2887908E+1-7.0306396E+1+3.7101959E+1-6.5233802E+0 400 2500 31J 668 793
 -4.6620635E+0-1.5648899E+2+1.0624884E+2-1.2265998E+2NA2O2 (C) 32J 668 793

FITS FOR EST RMS LOW = 0.185252 RMS HIGH = 0.185252
 2 8 2 11 0 0 0 0 0 0 SODIUM PEROXIDE (C) 30NA2O2\$
 -122659+6+736749+5+262750+2+254404-3+129068+7+845472+2 4002500J 66831NA2O2\$
 -122659+6+736749+5+262750+2+254404-3+129068+7+845472+2 4002500J 66832NA2O2\$

TRISO
 MOL.
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 FITS F
 11 1
 .61284
 .90377
 FITS F
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-----NOTS-----								-----EST-----				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
400	23.356	29.223	2.280	28.738	0.485	2.107	0.173	26.982	2.241	1.439	0.841	
500	24.801	34.596	4.691	34.264	0.332	4.595	0.096	34.323	0.273	4.723	-0.032	
600	25.919	39.219	7.228	39.516	-0.297	7.479	-0.251	39.928	-0.709	7.795	-0.567	
700	26.848	43.286	9.868	44.138	-0.852	10.478	-0.610	44.479	-1.193	10.746	-0.878	
800	27.150	48.662	13.957	48.141	0.521	13.475	0.482	48.322	0.340	13.623	0.334	
900	27.150	51.860	16.672	51.613	0.247	16.422	0.250	51.653	0.206	16.452	0.220	
1000	27.150	54.720	19.387	54.650	0.070	19.304	0.083	54.599	0.121	19.247	0.140	
1100	27.150	57.308	22.102	57.338	-0.030	22.124	-0.022	57.240	0.068	22.018	0.084	
1200	27.150	59.670	24.817	59.745	-0.075	24.890	-0.073	59.637	0.033	24.773	0.044	
1300	27.150	61.843	27.532	61.927	-0.084	27.616	-0.084	61.832	0.011	27.515	0.017	
1400	27.150	63.855	30.247	63.927	-0.072	30.315	-0.068	63.857	-0.002	30.248	-0.001	
1500	27.150	65.729	32.962	65.780	-0.051	33.000	-0.038	65.738	-0.009	32.973	-0.012	
1600	27.150	67.481	35.677	67.511	-0.030	35.682	-0.005	67.494	-0.013	35.694	-0.017	
1700	27.150	69.127	38.392	69.140	-0.013	38.370	0.022	69.141	-0.014	38.411	-0.019	
1800	27.150	70.679	41.107	70.683	-0.004	41.069	0.038	70.692	-0.013	41.125	-0.018	
1900	27.150	72.147	43.822	72.150	-0.003	43.783	0.039	72.159	-0.012	43.838	-0.016	
2000	27.150	73.539	46.537	73.549	-0.010	46.510	0.027	73.550	-0.011	46.549	-0.012	
2100	27.150	74.864	49.252	74.884	-0.020	49.247	0.005	74.872	-0.008	49.259	-0.007	
2200	27.150	76.127	51.967	76.158	-0.031	51.986	-0.019	76.133	-0.006	51.969	-0.002	
2300	27.150	77.334	54.682	77.372	-0.038	54.715	-0.033	77.337	-0.003	54.680	0.002	
2400	27.150	78.489	57.397	78.523	-0.034	57.420	-0.023	78.491	-0.002	57.390	0.007	
2500	27.150	79.598	60.112	79.610	-0.012	60.083	0.029	79.598	0.000	60.102	0.010	

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DIBERYLLIUM OXIDE

(G) BE 20 1

963

MOL. WT. = 34.020 BLOCK = 3729 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = -15.000 KEY = 796

FITS FOR NOTS RMS = 0.008789

4 1 8 0 0 0 0 0 0 0 DIBERYLLIUM OXIDE

(G) 10J 963 796

1.4249258E+1+3.9853656E-1-8.6544036E-2+6.3750371E-3 400 6000

11J 963 796

1.1762695E-1-2.1630172E+1+6.6361785E+1-1.5000000E+1BE20 (G)

12J 963 796

FITS FOR EST RMS LOW = 0.013484 RMS HIGH = 0.004537

4 1 8 0 0 0 0 0 0 0 DIBERYLLIUM OXIDE

(G) 10BE20

150000+5+375408+5+144947+2+128946-3-863600+6+829279+2 4003000J 96311BE20

150000+5+375385+5+150053+2-149456-4-207923+7+829279+230006000J 96312BE20

DH		-----NOTS-----								-----EST-----			
KC/H		T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
		K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H
0	0.199	400	10.840	55.783	1.053	56.013	-0.230	1.144	-0.091	56.038	-0.255	1.156	-0.103
5	0.017	600	12.292	60.477	3.378	60.442	0.035	3.348	0.030	60.442	0.035	3.348	0.030
0	-0.152	800	13.161	64.143	5.931	64.113	0.030	5.905	0.026	64.113	0.030	5.905	0.026
2	-0.311	1000	13.683	67.141	8.619	67.128	0.013	8.609	0.010	67.130	0.011	8.611	0.008
5	0.032	1200	14.011	69.667	11.391	69.663	0.004	11.391	0.000	69.666	0.001	11.395	-0.004
3	0.180	1400	14.226	71.844	14.216	71.844	0.000	14.220	-0.004	71.847	-0.003	14.224	-0.008
1	0.147	1600	14.374	73.754	17.077	73.754	-0.000	17.082	-0.005	73.757	-0.003	17.085	-0.008
1	0.042	1800	14.479	75.453	19.963	75.453	-0.000	19.967	-0.004	75.454	-0.001	19.968	-0.005
3	-0.030	2000	14.556	76.983	22.867	76.982	0.001	22.869	-0.002	76.982	0.001	22.868	-0.001
0	-0.067	2200	14.614	78.373	25.784	78.371	0.002	25.784	-0.000	78.370	0.003	25.782	0.002
4	-0.066	2400	14.659	79.647	28.711	79.644	0.003	28.711	0.000	79.643	0.004	28.707	0.004
3	-0.025	2600	14.694	80.821	31.647	80.819	0.002	31.645	0.002	80.818	0.003	31.643	0.004
0	0.058	2800	14.722	81.911	34.589	81.909	0.002	34.587	0.002	81.909	0.002	34.588	0.001
		3000	14.745	82.928	37.535	82.925	0.003	37.534	0.001	82.928	0.000	37.541	-0.006
		3200	14.745	82.928	37.535	82.925	0.003	37.534	0.001	82.928	0.000	37.539	-0.004
		3400	14.764	83.880	40.486	83.878	0.002	40.485	0.001	83.879	0.001	40.487	-0.001
		3600	14.780	84.776	43.441	84.773	0.003	43.440	0.001	84.775	0.001	43.440	0.001
		3800	14.793	85.621	46.398	85.619	0.002	46.399	-0.001	85.620	0.001	46.397	0.001
		4000	14.804	86.421	49.358	86.419	0.002	49.359	-0.001	86.420	0.001	49.356	0.002
		4200	14.814	87.181	52.320	87.179	0.002	52.321	-0.001	87.179	0.002	52.318	0.002
		4400	14.822	87.904	55.283	87.902	0.002	55.285	-0.002	87.902	0.002	55.282	0.001
		4600	14.830	88.593	58.249	88.591	0.002	58.250	-0.001	88.592	0.001	58.248	0.001
		4800	14.836	89.253	61.215	89.251	0.002	61.216	-0.001	89.252	0.001	61.215	-0.000
		5000	14.841	89.884	64.183	89.882	0.002	64.183	-0.000	89.883	0.001	64.183	-0.000
		5200	14.846	90.490	67.152	90.488	0.002	67.151	0.001	90.489	0.001	67.153	-0.001
		5400	14.851	91.073	70.122	91.070	0.003	70.120	0.002	91.072	0.001	70.122	-0.000
		5600	14.855	91.633	73.092	91.631	0.002	73.091	0.001	91.632	0.001	73.093	-0.001
		5800	14.858	92.174	76.063	92.171	0.003	76.062	0.001	92.172	0.002	76.064	-0.001
		6000	14.861	92.695	79.035	92.693	0.002	79.035	0.000	92.694	0.001	79.035	0.000
		6200	14.864	93.199	82.008	93.197	0.002	82.010	-0.002	93.197	0.002	82.006	0.002

3

TITANIUM OXYFLUORIDE

(G)

P 10 1TI 1

963

MOL. WT. = 82.690

BLOCK = 3748

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -103.540 KEY = 799

FITS FOR NOTS RMS = 0.002949

18
18
18

1 8 1 9 1 22 0 0 0 0 0 TITANIUM OXYFLUORIDE (G) 10J 963 799
 +1.4796960E+1+7.1226835E-2-1.6901906E-2+1.3503236E-3 400 6000 11J 963 799
 -4.1795349E-1-1.0925340E+2+7.5724807E+1-1.0353999E+2FOTI (G) 12J 963 799

FITS FOR EST RMS LOW = 0.002810 RMS HIGH = 0.004587

1 8 1 9 1 22 0 0 0 0 0 TITANIUM OXYFLUORIDE (G) 10FOTI
 -103539+6+390128+5+148394+2+206659-4-424864+6+921539+2 4003000J 96311FOTI
 -103539+6+390151+5+149965+2-134127-4-110950+7+921539+230006000J 96312FOTI

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
18 -0.016	400	12.618	63.447	1.236	63.500	-0.053	1.256	-0.020	63.504	-0.057	1.260	-0.024	
17 0.004	600	13.690	68.796	3.882	68.786	0.010	3.873	0.009	68.788	0.008	3.875	0.007	
52 0.003	800	14.173	72.809	6.674	72.801	0.008	6.667	0.007	72.803	0.006	6.669	0.005	
10 0.001	1000	14.420	76.001	9.536	75.997	0.004	9.532	0.004	75.999	0.002	9.535	0.001	
56 0.000	1200	14.562	78.644	12.436	78.642	0.002	12.433	0.003	78.643	0.001	12.436	-0.000	
17 -0.000	1400	14.650	80.896	15.357	80.895	0.001	15.356	0.001	80.896	0.000	15.359	-0.002	
29 -0.001	1600	14.708	82.856	18.294	82.855	0.001	18.293	0.001	82.856	-0.000	18.295	-0.001	
78 -0.001	1800	14.749	84.591	21.240	84.590	0.001	21.239	0.001	84.591	0.000	21.240	-0.000	
31 -0.000	2000	14.778	86.146	24.192	86.146	0.000	24.192	-0.000	86.146	0.000	24.193	-0.001	
18 0.001	2200	14.799	87.556	27.150	87.555	0.001	27.150	-0.000	87.555	0.001	27.150	0.000	
19 0.000	2400	14.816	88.844	30.112	88.844	0.000	30.112	0.000	88.844	0.000	30.111	0.001	
11 0.001	2500	14.829	90.031	33.076	90.030	0.001	33.077	-0.001	90.030	0.001	33.076	0.000	
76 0.000	2800	14.839	91.130	36.043	91.130	0.000	36.044	-0.001	91.130	0.000	36.043	-0.000	
12 -0.001	3000	14.848	92.154	39.012	92.154	0.000	39.012	-0.001	92.154	0.000	39.013	-0.001	
15 -0.004	3000	14.848	92.154	39.012	92.154	0.000	39.012	-0.001	92.154	0.000	39.015	-0.003	
19 -0.001	3200	14.854	93.112	41.982	93.112	-0.000	41.983	-0.001	93.112	0.000	41.983	-0.001	
75 0.001	3400	14.860	94.013	44.954	94.013	-0.000	44.954	-0.001	94.012	0.001	44.953	0.001	
12 0.002	3600	14.865	94.863	47.926	94.863	0.000	47.927	-0.001	94.861	0.002	47.925	0.001	
11 0.002	3800	14.869	95.667	50.900	95.667	0.000	50.900	-0.001	95.665	0.002	50.898	0.002	
31 0.002	4000	14.872	96.429	53.874	96.429	-0.000	53.875	-0.001	96.428	0.001	53.872	0.002	
31 0.002	4200	14.875	97.155	56.848	97.155	0.000	56.849	-0.001	97.154	0.001	56.847	0.001	
22 0.001	4400	14.878	97.847	59.824	97.847	0.000	59.824	-0.000	97.846	0.001	59.823	0.001	
34 0.000	4600	14.880	98.508	62.800	98.508	-0.000	62.800	0.000	98.507	0.001	62.799	0.001	
15 -0.000	4800	14.882	99.142	65.776	99.142	0.000	65.776	0.000	99.141	0.001	65.776	-0.000	
17 -0.001	5000	14.884	99.749	68.752	99.749	-0.000	68.752	-0.000	99.748	0.001	68.753	-0.001	
19 -0.001	5200	14.885	100.333	71.729	100.333	0.000	71.729	0.000	100.332	0.001	71.730	-0.001	
11 -0.001	5400	14.887	100.895	74.707	100.895	0.000	74.706	0.001	100.894	0.001	74.707	-0.000	
12 -0.000	5600	14.888	101.436	77.684	101.436	-0.000	77.684	0.000	101.435	0.001	77.684	-0.000	
34 0.000	5800	14.889	101.959	80.662	101.959	0.000	80.662	0.000	101.958	0.001	80.662	0.000	
15 0.002	6000	14.890	102.464	83.640	102.464	0.000	83.641	-0.001	102.462	0.002	83.639	0.001	

SILICON OXYDIFLUORIDE (G) P 20 1SI 1 963
 MOL. WT.= 82.080 BLOCK= 3755 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOL)) = -231.000 KEY = 800
 FITS FOR NOTS RMS = 0.007887
 1 8 2 9 1 14 0 0 0 0 0 SILICON OXYDIFLUORIDE (G) 10J 963 800
 +1.9360107E+1+3.1624460E-1-6.9661915E-2+5.2022449E-3 400 6000 11J 963 800
 -1.0039520E+0-2.3979270E+2+8.3532806E+1-2.3100000E+2F20SI (G) 12J 963 800

FITS FOR EST RMS LOW = 0.011225 RMS HIGH = 0.006005
 1 8 2 9 1 14 0 0 0 0 0 SILICON OXYDIFLUORIDE (G) 10F20SI
 -231000+6+505292+5+195469+2+103554-3-103590+7+105541+3 4003000J 96311F20SI
 -231000+6+505295+5+200110+2-201972-4-237670+7+105541+33C006000J 96312F20SI

-----NOTS-----								-----EST-----				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
400	14.656	68.847	1.405	69.052	-0.205	1.485	-0.080	69.067	-0.220	1.494	-0.089	10
600	16.818	75.248	4.577	75.215	0.033	4.549	0.028	75.215	0.033	4.551	0.026	11
800	17.932	80.255	8.064	80.229	0.026	8.040	0.024	80.230	0.025	8.043	0.021	12
1000	18.551	84.330	11.718	84.318	0.012	11.708	0.010	84.321	0.009	11.712	0.006	13
1200	18.921	87.747	15.468	87.743	0.004	15.466	0.002	87.747	-0.000	15.471	-0.003	14
1400	19.158	90.683	19.277	90.682	0.001	19.280	-0.003	90.686	-0.003	19.284	-0.007	15
1600	19.317	93.252	23.126	93.252	-0.000	23.129	-0.003	93.254	-0.002	23.132	-0.006	16
1800	19.429	95.534	27.001	95.534	0.000	27.004	-0.003	95.535	-0.001	27.005	-0.004	17
2000	19.511	97.586	30.896	97.585	0.001	30.897	-0.001	97.585	0.001	30.896	-0.000	18
2200	19.572	99.448	34.804	99.447	0.001	34.804	-0.000	99.446	0.002	34.802	0.002	19
2400	19.619	101.154	38.723	101.151	0.003	38.723	0.000	101.150	0.004	38.720	0.003	20
2600	19.656	102.725	42.651	102.723	0.002	42.650	0.001	102.722	0.003	42.648	0.003	21
2800	19.685	104.183	46.585	104.181	0.002	46.584	0.001	104.181	0.002	46.584	0.001	22
3000	19.709	105.542	50.525	105.540	0.002	50.524	0.001	105.542	0.000	50.529	-0.004	23
3000	19.709	105.542	50.525	105.540	0.002	50.524	0.001	105.542	0.000	50.530	-0.005	24
3200	19.728	106.815	54.469	106.813	0.002	54.468	0.001	106.813	0.002	54.470	-0.001	25
3400	19.745	108.011	58.416	108.009	0.002	58.416	0.000	108.009	0.002	58.415	0.001	26
3600	19.758	109.140	62.366	109.138	0.002	62.367	-0.001	109.138	0.002	62.364	0.002	27
3800	19.770	110.209	66.319	110.207	0.002	66.320	-0.001	110.206	0.003	66.317	0.002	28
4000	19.780	111.223	70.274	111.222	0.001	70.275	-0.001	111.221	0.002	70.272	0.002	29
4200	19.788	112.188	74.231	112.187	0.001	74.232	-0.001	112.186	0.002	74.229	0.002	30
4400	19.796	113.109	78.189	113.108	0.001	78.191	-0.002	113.107	0.002	78.188	0.001	31
4600	19.802	113.989	82.149	113.988	0.001	82.150	-0.001	113.987	0.002	82.149	0.000	32
4800	19.808	114.832	86.110	114.830	0.002	86.110	-0.000	114.830	0.002	86.111	-0.001	33
5000	19.813	115.641	90.073	115.639	0.002	90.072	0.001	115.639	0.002	90.073	-0.000	34
5200	19.818	116.418	94.036	116.416	0.002	94.034	0.002	116.416	0.002	94.037	-0.001	35
5400	19.822	117.166	98.000	117.164	0.002	97.998	0.002	117.164	0.002	98.000	-0.000	36
5600	19.825	117.887	101.964	117.885	0.002	101.963	0.001	117.885	0.002	101.965	-0.001	37
5800	19.828	118.583	105.930	118.581	0.002	105.929	0.001	118.581	0.002	105.929	0.001	38
6000	19.831	119.255	109.896	119.253	0.002	109.897	-0.001	119.253	0.002	109.894	0.002	39

963

TITANIUM OXYDIFLUORIDE

(G)

P 20 1TI 1

963

MOL. WT. = 101.890

BLCK = 3761

NO. POINT = 62

DATA FROM 0 TO 6000 K HPCRM(KCAL/(MOLE)) = -221.050 KEY = 801

FITS FOR NOTS RMS = 0.003556

1 8 2 9 1 22 0 0 0 0 0 TITANIUM OXYDIFLUORIDE (G) 10J 963 801
 +1.9747100E+1+8.3069324E-2-1.9609663E-2+1.5547554E-3 400 6000 11J 963 801
 -5.8071899E-1-2.2876765E+2+8.8980422E+1-2.2104998E+2F20TI (G) 12J 963 801

FITS FOR EST RMS LOW = 0.003200 RMS HIGH = 0.005949

1 8 2 9 1 22 0 0 0 0 0 TITANIUM OXYDIFLUORIDE (G) 10F20TI
 -221049+6+519463+5+197952+2+247166-4-588704+6+110881+3 4003000J 96311F20TI
 -221049+6+519494+5+199995+2-186359-4-149964+7+110881+330006000J 96312F20TI

-----NOTS-----								-----EST-----					
IC	DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
°/M	KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
1.494	-0.089	400	16.625	72.672	1.618	72.733	-0.061	1.639	-0.021	72.739	-0.067	1.645	-0.027
4.551	0.026	600	18.195	79.758	5.124	79.746	0.012	5.112	0.012	79.748	0.010	5.116	0.008
8.043	0.021	800	18.873	85.097	8.839	85.088	0.009	8.829	0.010	85.090	0.007	8.833	0.006
11.712	0.006	1000	19.214	89.349	12.651	89.345	0.004	12.646	0.005	89.347	0.002	12.650	0.001
5.471	-0.003	1200	19.408	92.871	16.515	92.869	0.002	16.512	0.003	92.871	-0.000	16.516	-0.001
19.284	-0.007	1400	19.528	95.873	20.410	95.871	0.002	20.408	0.002	95.873	-0.000	20.411	-0.001
13.132	-0.006	1600	19.607	98.486	24.324	98.485	0.001	24.323	0.001	98.486	-0.000	24.325	-0.001
17.005	-0.004	1800	19.662	100.798	28.251	100.798	0.000	28.250	0.001	100.799	-0.001	28.252	-0.001
0.896	-0.000	2000	19.702	102.872	32.187	102.872	0.000	32.187	0.000	102.872	0.000	32.188	-0.001
4.802	0.002	2200	19.731	104.751	36.131	104.751	0.000	36.130	0.001	104.751	0.000	36.130	0.001
8.720	0.003	2400	19.753	106.469	40.079	106.469	0.000	40.079	-0.000	106.468	0.001	40.078	0.001
2.648	0.003	2600	19.771	108.051	44.032	108.051	0.000	44.032	0.000	108.050	0.001	44.031	0.001
6.584	0.001	2800	19.785	109.517	47.987	109.517	0.000	47.988	-0.001	109.516	0.001	47.987	0.000
0.529	-0.004	3000	19.796	110.882	51.945	110.882	-0.000	51.946	-0.001	110.882	0.000	51.946	-0.001
0.530	-0.005	3000	19.796	110.882	51.945	110.882	-0.000	51.946	-0.001	110.882	0.000	51.949	-0.004
4.470	-0.001	3200	19.805	112.160	55.906	112.160	0.000	55.906	-0.000	112.159	0.001	55.907	-0.001
8.415	0.001	3400	19.813	113.361	59.867	113.361	0.000	59.868	-0.001	113.359	0.002	59.867	0.000
2.364	0.002	3600	19.819	114.494	63.831	114.494	0.000	63.832	-0.001	114.492	0.002	63.829	0.002
6.317	0.002	3800	19.825	115.565	67.795	115.565	-0.000	67.796	-0.001	115.563	0.002	67.793	0.002
0.272	0.002	4000	19.829	116.582	71.761	116.582	-0.000	71.762	-0.001	116.580	0.002	71.759	0.002
1.229	0.002	4200	19.833	117.550	75.727	117.550	0.000	75.728	-0.001	117.548	0.002	75.725	0.002
8.188	0.001	4400	19.837	118.473	79.694	118.473	0.000	79.695	-0.001	118.471	0.002	79.693	0.001
2.149	0.000	4600	19.840	119.355	83.662	119.354	0.001	83.662	0.000	119.353	0.002	83.661	0.001
5.111	-0.001	4800	19.843	120.199	87.630	120.199	0.000	87.630	0.000	120.197	0.002	87.630	-0.000
1.073	-0.000	5000	19.845	121.009	91.599	121.009	0.000	91.598	0.001	121.008	0.001	91.599	-0.000
1.037	-0.001	5200	19.847	121.787	95.568	121.787	-0.000	95.567	0.001	121.786	0.001	95.569	-0.001
3.000	-0.000	5400	19.849	122.536	99.537	122.536	-0.000	99.537	0.000	122.535	0.001	99.538	-0.001
1.965	-0.001	5600	19.851	123.258	103.507	123.258	0.000	103.507	0.000	123.257	0.001	103.508	-0.001
1.929	0.001	5800	19.852	123.955	107.478	123.955	0.000	107.477	0.001	123.953	0.002	107.477	0.001
1.894	0.002	6000	19.853	124.628	111.448	124.628	0.000	111.449	-0.001	124.626	0.002	111.446	0.002

SILICON TRIFLUORIDE (G) P 3SI 1 0 0 0 0 670
 MOL. WT.= 85.080 BLOCK= 3767 NO. POINT = 62
 DATA FROM 0 TO 6000 K BFORM(KCAL/(MOLE)) = -263.000 KEY = 802
 FITS FOR NOTS RMS = 0.004844
 3 9 1 14 0 0 0 0 0 0 0 SILICON TRIFLUORIDE (G) 10J 670 802
 1.9633728E+1+1.4991188E-1-3.3757310E-2+2.5715334E-3 400 6000 11J 670 802
 7.5276184E-1-2.7116455E+2+8.7577682E+1-2.6300000E+2F3SI (G) 12J 670 802

FITS FOR EST RMS LOW = 0.006080 RMS HIGH = 0.006007
 3 9 1 14 0 0 0 0 0 0 0 SILICON TRIFLUORIDE (G) 10F3SI
 -263000+6+514122+5+197201+2+483081-4-766848+6+109510+3 4003000J 67011F3SI
 -263000+6+514143+5+200079+2-199985-4-183987+7+109510+330006000J 67012F3SI

DH KC/M	-----NOTS-----						-----EST-----						
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
-0.027	400	15.856	71.881	1.538	71.997	-0.116	1.582	-0.044	72.005	-0.124	1.588	-0.050	4
0.008	600	17.660	78.698	4.913	78.678	0.020	4.895	0.018	78.679	0.019	4.898	0.015	5
0.006	800	18.517	83.910	8.540	83.894	0.016	8.526	0.014	83.896	0.014	8.529	0.011	6
0.001	1000	18.968	88.095	12.293	88.088	0.007	12.286	0.007	88.090	0.005	12.290	0.003	7
-0.001	1200	19.230	91.579	16.115	91.576	0.003	16.113	0.002	91.578	0.001	16.117	-0.002	8
-0.001	1400	19.393	94.556	19.979	94.555	0.001	19.979	0.000	94.557	-0.001	19.982	-0.003	9
-0.001	1600	19.502	97.153	23.869	97.153	0.000	23.870	-0.001	97.154	-0.001	23.872	-0.003	10
-0.001	1800	19.578	99.455	27.778	99.454	0.001	27.778	-0.000	99.455	-0.000	27.779	-0.001	11
0.001	2000	19.633	101.521	31.699	101.520	0.001	31.699	-0.000	101.520	0.001	31.699	-0.000	12
0.001	2200	19.673	103.394	35.630	103.393	0.001	35.630	0.000	103.393	0.001	35.629	0.001	13
0.001	2400	19.705	105.107	39.568	105.106	0.001	39.568	0.000	105.106	0.001	39.566	0.002	14
0.000	2600	19.729	106.685	43.511	106.684	0.001	43.511	0.000	106.684	0.001	43.509	0.002	15
-0.001	2800	19.748	108.148	47.459	108.147	0.001	47.459	0.000	108.147	0.001	47.459	0.000	16
-0.004	3000	19.764	109.511	51.410	109.510	0.001	51.410	-0.000	109.511	0.000	51.412	-0.002	17
-0.001	3200	19.764	109.511	51.410	109.510	0.001	51.410	-0.000	109.511	0.000	51.414	-0.004	18
0.000	3400	19.777	110.787	55.364	110.786	0.001	55.365	-0.001	110.786	0.001	55.365	-0.001	19
0.002	3600	19.788	111.986	59.321	111.986	0.000	59.322	-0.001	111.985	0.001	59.320	0.001	20
0.002	3800	19.797	113.118	63.279	113.117	0.001	63.280	-0.001	113.116	0.002	63.277	0.002	
0.002	4000	19.804	114.188	67.240	114.188	0.000	67.241	-0.001	114.186	0.002	67.237	0.003	
0.001	4200	19.811	115.204	71.201	115.204	0.000	71.202	-0.001	115.202	0.002	71.199	0.002	
0.001	4400	19.817	116.171	75.164	116.170	0.001	75.165	-0.001	116.169	0.002	75.162	0.002	
0.000	4600	19.821	117.093	79.128	117.092	0.001	79.128	-0.000	117.091	0.002	79.127	0.001	
0.000	4800	19.826	117.974	83.092	117.973	0.001	83.093	-0.001	117.972	0.002	83.092	-0.000	
0.001	5000	19.829	118.818	87.058	118.817	0.001	87.058	0.000	118.816	0.002	87.058	-0.000	
0.001	5200	19.833	119.628	91.024	119.627	0.001	91.024	0.000	119.626	0.002	91.025	-0.001	
0.001	5400	19.836	120.406	94.991	120.405	0.001	94.990	0.001	120.404	0.002	94.992	-0.001	
0.001	5600	19.838	121.154	98.958	121.153	0.001	98.957	0.001	121.153	0.001	98.959	-0.001	
0.002	5800	19.841	121.876	102.926	121.875	0.001	102.925	0.001	121.874	0.002	102.926	-0.001	
	6000	19.843	122.572	106.895	122.571	0.001	106.894	0.001	122.570	0.002	106.894	0.001	
		19.845	123.245	110.863	123.244	0.001	110.864	-0.001	123.243	0.002	110.861	0.002	

SODIUM IODIDE

(C) I 1NA 1

963

MOL. WT.= 149.890 BLOCK= 3773 NO. POINT = 22

DATA FROM 0 TO 2000 K HFORM(KCAL/(HOLE) = -68.800 KEY = 803

FITS FOR NOTS RMS = 0.000548

1 11 1 53 0 0 0 0 0 0 0 SODIUM IODIDE (C) 30J 963 803
+1.1766980E+1+2.9677009E+0-2.6047754E-1+4.3531253E-2 400 2000 31J 963 803
-8.5601806E-3-7.2469970E+1+3.6852005E+1-6.8799987E+1INA(C) 32J 963 803

FITS FOR EST RMS LOW = 0.001220 RMS HIGH = 0.001220

1 11 1 53 0 0 0 0 0 0 0 SODIUM IODIDE (C) 30INA\$
-687999+5+435347+5+121005+2+246360-2-516480+5+579063+2 4002000J 96331INA\$
-687999+5+435347+5+121005+2+246360-2-516480+5+579063+2 4002000J 96332INA\$

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H
400	12.860	27.265	1.291	27.264	0.001	1.290	0.001	27.278	-0.013	1.296	-0.005
500	13.150	30.167	2.592	30.166	0.001	2.591	0.001	30.167	0.000	2.591	0.001
600	13.440	32.591	3.922	32.590	0.001	3.921	0.001	32.588	0.003	3.920	0.002
700	13.710	34.683	5.280	34.682	0.001	5.279	0.001	34.680	0.003	5.278	0.002
800	13.980	36.531	6.664	36.531	-0.000	6.664	0.000	36.530	0.001	6.663	0.001
900	14.246	38.193	8.076	38.194	-0.001	8.076	0.000	38.193	-0.000	8.075	0.001
1000	14.508	39.708	9.513	39.708	-0.000	9.513	-0.000	39.708	-0.000	9.514	-0.001
1100	14.766	41.103	10.977	41.103	-0.000	10.977	-0.000	41.103	-0.000	10.978	-0.001
1200	15.020	42.399	12.466	42.399	-0.000	12.467	-0.001	42.399	-0.000	12.467	-0.001
1300	15.275	43.611	13.981	43.612	-0.001	13.982	-0.001	43.612	-0.001	13.982	-0.001
1400	15.528	44.752	15.521	44.753	-0.001	15.522	-0.001	44.753	-0.001	15.522	-0.001
1500	15.778	45.832	17.087	45.832	-0.001	17.087	0.000	45.832	-0.000	17.087	0.000
1600	16.027	46.858	18.677	46.859	-0.001	18.677	0.000	46.858	-0.000	18.676	0.001
1700	16.273	47.837	20.292	47.837	-0.000	20.292	0.000	47.837	0.000	20.291	0.001
1800	16.518	48.774	21.931	48.774	-0.000	21.931	0.000	48.774	0.000	21.930	0.001
1900	16.760	49.674	23.595	49.674	0.000	23.595	0.000	49.674	0.000	23.595	0.000
2000	17.000	50.540	25.283	50.540	0.000	25.283	-0.000	50.540	0.000	25.284	-0.001

SO

M

PAT

FIT

1 11

1.96

3.75

FIT

1 11

63694

63694

T

K

400 1

600 1

800 1

1000 1

1200 1

1400 1

1600 1

1800 1

2000 1

2200 1

2400 1

2600 1

2800 1

3000 1

SODIUM IODIDE

(L)

I 1NA 1

963

PHOSPH

MOL. WT. = 149.890

BLOCK = 3776

NO. POINT = 29

DATA FROM 298 TO 3000 K HFORM(KCAL/(MOLE)) = -63.695 KEY = 804

FITS FOR NOTS RMS = 0.010954

1 11 1 53 0 0 0 0 0 0 0 SODIUM IODIDE

(L) 20J 963 804

1.9632064E+1-4.8414058E+0+2.0127887E+0-2.8403329E-1 400 3000

21J 963 804

-9.7593688E-1-7.2374313E+1+4.9257446E+1-6.3694992E+1INA(L)

22J 963 804

FITS FOR EST RMS LOW = 0.023010 RMS HIGH = 0.023010

1 11 1 53 0 0 0 0 0 0 0 SODIUM IODIDE

(L) 20INA*

-636949+5+411154+5+158076+2-105955-3-297696+6+628569+2 4003000J 96321INA*

-636949+5+411154+5+158076+2-105955-3-297696+6+628569+2 4003000J 96322INA*

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	12.860	32.585	1.291	32.537	0.048	1.267	0.024	32.195	0.390	1.129	0.162	400
600	15.500	37.910	3.922	38.021	-0.111	3.991	-0.069	38.067	-0.157	4.032	-0.110	600
800	15.500	42.370	7.022	42.362	0.008	7.011	0.011	42.412	-0.042	7.054	-0.032	800
1000	15.500	45.228	10.122	45.816	0.012	10.108	0.014	45.835	-0.007	10.122	-0.000	1000
1200	15.500	48.654	13.222	48.652	0.002	13.219	0.003	48.650	0.004	13.211	0.011	1200
1400	15.500	51.044	16.322	51.047	-0.003	16.326	-0.004	51.038	0.006	16.310	0.012	1400
1600	15.500	53.113	19.422	53.118	-0.005	19.428	-0.006	53.110	0.003	19.413	0.009	1600
1800	15.500	54.939	22.522	54.942	-0.003	22.525	-0.003	54.939	0.000	22.518	0.004	1800
2000	15.500	56.572	25.622	56.573	-0.001	25.621	0.001	56.574	-0.002	25.622	-0.000	2000
2200	15.500	58.049	28.722	58.049	-0.000	28.719	0.003	58.053	-0.004	28.726	-0.004	2200
2400	15.500	59.398	31.822	59.398	-0.000	31.820	0.002	59.402	-0.004	31.827	-0.005	2400
2600	15.500	60.639	34.922	60.640	-0.001	34.923	-0.001	60.643	-0.004	34.926	-0.004	2600
2800	15.500	61.787	38.022	61.789	-0.002	38.024	-0.002	61.790	-0.003	38.022	-0.000	2800
3000	15.500	62.857	41.122	62.857	0.000	41.119	0.003	62.857	0.000	41.115	0.007	3000

1 15 3 3

+1.987602

-1.744995

FITS FOR

1 15 3 3

-306999+5

-306999+5

T

K C/M

400 18.6

600 19.4

800 19.6

1000 19.6

1200 19.7

1400 19.7

1600 19.8

1800 19.8

2000 19.8

2200 19.8

2400 19.8

2600 19.8

2800 19.8

3000 19.8

3000 19.8

3200 19.8

3400 19.8

3600 19.8

3800 19.8

4000 19.8

4200 19.8

4400 19.8

4600 19.8

4800 19.8

5000 19.8

5200 19.8

5400 19.8

5600 19.8

5800 19.8

6000 19.8

PHOSPHORUS TRIBROMIDE

(G)

BR 3P 1

1263

MOL. WT. = 270.700

BLOCK = 3779

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -30.700 KEY = 805

FITS FOR NOTS RMS = 0.003071

1 15 3 35 0 0 0 0 0 0 0 PHOSPHORUS TRIBROMIDE (G) 10J1263 805
+1.9876022E+1+2.6773060E-3-1.9748022E-3+2.5284942E-4 400 6000 11J1263 805
-1.7449951E-1-3.7194549E+1+1.0633303E+2-3.0699996E+1BR3P (G) 12J1263 805

FITS FOR EST RMS LOW = 0.000580 RMS HIGH = 0.005975

1 15 3 35 0 0 0 0 0 0 0 PHOSPHORUS TRIBROMIDE (G) 10BR3P
-306999+5+531902+5+198686+2+127521-5-169984+6+128179+3 4003000J126311BR3P
-306999+5+531942+5+200032+2-191043-4-101606+7+128179+330006000J126312BR3P

-----NOTS-----

-----EST-----

TH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
(C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
.162	400	18.863	88.655	1.890	88.667	-0.012	1.892	-0.002	88.665	-0.010	1.894	-0.004
.110	600	19.402	96.426	5.727	96.423	0.003	5.722	0.005	96.426	-0.000	5.727	0.000
.032	800	19.603	102.039	9.630	102.036	0.003	9.625	0.005	102.039	-0.000	9.630	0.000
.000	1000	19.699	106.425	13.561	106.422	0.003	13.557	0.004	106.425	-0.000	13.561	-0.000
.011	1200	19.751	110.022	17.507	110.019	0.003	17.503	0.004	110.022	0.000	17.507	0.000
.012	1400	19.783	113.069	21.461	113.067	0.002	21.458	0.003	113.069	-0.000	21.461	0.000
.009	1600	19.804	115.712	25.420	115.711	0.001	25.417	0.003	115.712	-0.000	25.420	0.000
.004	1800	19.818	118.045	29.382	118.045	0.000	29.380	0.002	118.046	-0.001	29.382	0.000
.000	2000	19.829	120.134	33.347	120.134	0.000	33.346	0.001	120.134	-0.000	33.347	0.000
.004	2200	19.836	122.024	37.313	122.024	-0.000	37.313	0.000	122.025	-0.001	37.313	-0.000
.005	2400	19.842	123.751	41.281	123.751	0.000	41.281	-0.000	123.751	0.000	41.281	-0.000
.004	2600	19.847	125.339	45.250	125.339	-0.000	45.251	-0.001	125.339	-0.000	45.250	-0.000
.000	2800	19.850	126.810	49.220	126.810	-0.000	49.221	-0.001	126.810	-0.000	49.220	0.000
.007	3000	19.853	128.180	53.190	128.180	-0.000	53.191	-0.001	128.180	0.000	53.190	-0.000
	3000	19.853	128.180	53.190	128.180	-0.000	53.191	-0.001	128.180	0.000	53.194	-0.004
	3200	19.855	129.461	57.161	129.462	-0.001	57.162	-0.001	129.460	0.001	57.162	-0.001
	3400	19.857	130.665	61.132	130.665	-0.000	61.133	-0.001	130.663	0.001	61.131	0.001
	3600	19.859	131.800	65.104	131.800	-0.000	65.105	-0.001	131.798	0.002	65.102	0.002
	3800	19.860	132.873	69.076	132.874	-0.001	69.077	-0.001	132.872	0.001	69.074	0.002
	4000	19.862	133.892	73.048	133.893	-0.001	73.049	-0.001	133.891	0.001	73.046	0.002
	4200	19.863	134.861	77.020	134.862	-0.001	77.021	-0.001	134.860	0.001	77.019	0.001
	4400	19.863	135.785	80.993	135.786	-0.001	80.993	-0.000	135.784	0.001	80.992	0.001
	4600	19.864	136.668	84.966	136.669	-0.001	84.966	0.000	136.667	0.001	84.965	0.001
	4800	19.865	137.514	88.939	137.514	-0.000	88.938	0.001	137.513	0.001	88.939	0.000
	5000	19.866	138.325	92.912	138.325	0.000	92.911	0.001	138.324	0.001	92.912	-0.000
	5200	19.866	139.104	96.885	139.104	-0.000	96.884	0.001	139.103	0.001	96.886	-0.001
	5400	19.867	139.854	100.858	139.854	0.000	100.857	0.001	139.853	0.001	100.859	-0.001
	5600	19.867	140.576	104.831	140.576	-0.000	104.831	0.000	140.575	0.001	104.832	-0.001
	5800	19.867	141.273	108.805	141.274	-0.001	108.805	0.000	141.272	0.001	108.804	0.001
	6000	19.868	141.947	112.778	141.947	-0.000	112.779	-0.001	141.946	0.001	112.777	0.001

NO. POINT = 29

DATA FROM 298 TO 3000 K HFORM(KCAL/(MOLE)) = -189.600 KEY = 807

FITS FOR NOTS RMS = 0.001887

1	8	1	13	1	17	0	0	0	0	0	ALUMINUM OXYCHLORIDE	(C)	30J	364	807	
+1.7842895E+1+2.6238689E+0-1.0638008E+0+1.4023685E-1												400	3000	31J	364	807
-5.9507751E-1-1.9691360E+2+3.0837692E+1-1.8959999E+2												ALCLO (C)	32J	364	807	

FITS FOR EST RMS LOW = 0.015586 RMS HIGH = 0.015586

1	8	1	13	1	17	0	0	0	0	ALUMINUM OXYCHLORIDE	(C) 30ALCLOS
-189599+6+514928+5+201018+2-317303-4-103180+7+548199+2	4003000J	36431ALCLOS									
-189599+6+514928+5+201018+2-317303-4-103180+7+548199+2	4003000J	36432ALCLOS									

[illegible]

LITHIUM MONOXIDE DIMERIC

(G)

LI 20 2

364

MOL. WT.= 45.870 BLOCK= 3813 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -58.000 KEY = 811

FITS FOR NOTS RMS = 0.003063

2 8 2 71 0 0 0 0 0 0 0 LITHIUM MONOXIDE DIMERIC (G) 10J 364 811
 +1.9869537E+1+5.7356059E-3-2.4148437E-3+2.6898877E-4 400 6000 11J 364 811
 -2.5679016E-1-6.4759445E+1+8.8039810E+1-5.8000000E+1LI2O2(G) 12J 364 811

FITS FOR EST RMS LOW = 0.000719 RMS HIGH = 0.005993

2 8 2 71 0 0 0 0 0 0 0 LITHIUM MONOXIDE DIMERIC (G) 10LI2O2
 -580000+5+529433+5+198649+2+221287-5-253120+6+109890+3 4003000J 36411LI2O2
 -580000+5+529475+5+200114+2-203249-4-115532+7+109890+330006000J 36412LI2O2

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	18.378	70.622	1.827	70.638	-0.016	1.831	-0.004	70.636	-0.014	1.833	-0.006
600	19.169	78.253	5.596	78.250	0.003	5.591	0.005	78.252	0.001	5.595	0.001
800	19.469	83.815	9.464	83.811	0.004	9.459	0.005	83.813	0.002	9.463	0.001
1000	19.611	88.176	13.374	88.173	0.003	13.369	0.005	88.175	0.001	13.373	0.001
1200	19.690	91.759	17.305	91.757	0.002	17.301	0.004	91.759	0.000	17.305	0.000
1400	19.738	94.798	21.248	94.797	0.001	21.245	0.003	94.798	-0.000	21.248	0.000
1600	19.770	97.436	25.199	97.435	0.001	25.197	0.002	97.436	0.000	25.199	-0.000
1800	19.791	99.766	29.155	99.765	0.001	29.154	0.001	99.766	0.000	29.155	-0.000
2000	19.806	101.852	33.115	101.852	0.000	33.114	0.001	101.852	0.000	33.115	-0.000
2200	19.818	103.740	37.077	103.740	-0.000	37.077	-0.000	103.740	-0.000	37.077	-0.000
2400	19.827	105.465	41.042	105.465	-0.000	41.042	-0.000	105.465	0.000	41.042	0.000
2600	19.833	107.052	45.008	107.053	-0.001	45.008	-0.000	107.052	-0.000	45.008	0.000
2800	19.839	108.522	48.975	108.523	-0.001	48.976	-0.001	108.522	-0.000	48.975	-0.000
3000	19.843	109.891	52.943	109.892	-0.001	52.944	-0.001	109.891	0.000	52.943	-0.000
3200	19.847	111.172	56.912	111.173	-0.001	56.913	-0.001	111.171	0.001	56.913	-0.001
3400	19.850	112.375	60.882	112.376	-0.001	60.883	-0.001	112.373	0.002	60.881	0.001
3600	19.852	113.510	64.852	113.510	-0.000	64.853	-0.001	113.508	0.002	64.850	0.002
3800	19.854	114.583	68.823	114.584	-0.001	68.824	-0.001	114.581	0.002	68.820	0.003
4000	19.856	115.602	72.794	115.602	-0.000	72.794	-0.000	115.600	0.002	72.792	0.002
4200	19.858	116.571	76.765	116.571	0.000	76.766	-0.001	116.568	0.003	76.763	0.002
4400	19.859	117.494	80.737	117.495	-0.001	80.737	0.000	117.492	0.002	80.736	0.001
4600	19.860	118.377	84.709	118.377	-0.000	84.709	0.000	118.375	0.002	84.708	0.001
4800	19.861	119.222	88.681	119.223	-0.001	88.681	0.000	119.221	0.001	88.681	-0.000
5000	19.862	120.033	92.653	120.033	-0.000	92.653	0.000	120.032	0.001	92.654	-0.001
5200	19.863	120.812	96.626	120.812	-0.000	96.625	0.001	120.811	0.001	96.626	-0.000
5400	19.863	121.562	100.598	121.562	-0.000	100.598	0.000	121.560	0.002	100.599	-0.001
5600	19.864	122.284	104.571	122.284	-0.000	104.570	0.001	122.283	0.001	104.571	-0.000
5800	19.865	122.981	108.544	122.982	-0.001	108.544	0.000	122.980	0.001	108.543	0.001
6000	19.865	123.655	112.517	123.655	-0.000	112.517	-0.000	123.653	0.002	112.515	0.002

MAGNESIUM NITRIDE (G) MG 1N 1 364
 MOL. WT.= 38.310 BLOCK= 3820 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOL)) = 69.000 KEY = 812
 FITS FOR NOTS RMS = 0.001713
 1 7 1 12 0 0 0 0 0 0 0 MAGNESIUM NITRIDE (G) 10J 364 812
 +8.9171533E+0+1.3523769E-1-4.6468675E-3+3.9810361E-4 400 6000 11J 364 812 +1.
 -1.4305114E-1+6.5888656E+1+6.3757461E+1+6.9000000E+1MGN(G) 12J 364 812 +5.

FITS FOR EST RMS LOW = 0.000990 RMS HIGH = 0.003095
 1 7 1 12 0 0 0 0 0 0 0 MAGNESIUM NITRIDE (G) 10MGN 1
 +690000+5+242622+5+892652+1+122083-3-143872+6+739499+2 4003000J 36411MGN -4;
 +690000+5+242642+5+900236+1+108451-3-553984+6+739499+230006000J 36412MGN -4;

-----NOTS-----								-----EST-----				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H	
400	8.208	56.070	0.818	56.088	-0.018	0.824	-0.006	56.088	-0.018	0.825	-0.007	40
600	8.607	59.484	2.505	59.481	0.003	2.501	0.004	59.482	0.002	2.503	0.002	60
800	8.794	61.989	4.247	61.986	0.003	4.244	0.003	61.987	0.002	4.245	0.002	80
1000	8.901	63.964	6.017	63.962	0.002	6.015	0.002	63.963	0.001	6.017	0.000	100
1200	8.971	65.593	7.805	65.592	0.001	7.803	0.002	65.593	0.000	7.805	0.000	120
1400	9.023	66.980	9.605	66.979	0.001	9.604	0.001	66.980	-0.000	9.605	0.000	140
1600	9.066	68.188	11.414	68.187	0.001	11.413	0.001	68.188	0.000	11.414	0.000	160
1800	9.103	69.258	13.230	69.258	0.000	13.230	-0.000	69.258	0.000	13.231	-0.001	180
2000	9.136	70.219	15.054	70.218	0.001	15.054	-0.000	70.218	0.001	15.054	-0.000	200
2200	9.166	71.091	16.885	71.091	0.000	16.884	0.001	71.091	0.000	16.884	0.001	220
2400	9.195	71.890	18.721	71.890	0.000	18.721	0.000	71.889	0.001	18.721	0.000	240
2600	9.223	72.627	20.562	72.627	0.000	20.563	-0.001	72.626	0.001	20.562	-0.000	260
2800	9.249	73.311	22.410	73.311	-0.000	22.410	0.000	73.311	0.000	22.410	0.000	280
3000	9.276	73.950	24.262	73.950	-0.000	24.263	-0.001	73.950	0.000	24.262	-0.000	300
3000	9.276	73.950	24.262	73.950	-0.000	24.263	-0.001	73.950	0.000	24.264	-0.002	300
3200	9.301	74.550	26.120	74.550	0.000	26.120	-0.000	74.549	0.001	26.120	-0.000	320
3400	9.326	75.114	27.983	75.114	-0.000	27.983	-0.000	75.113	0.001	27.982	0.001	340
3600	9.351	75.648	29.850	75.648	-0.000	29.851	-0.001	75.647	0.001	29.850	0.000	360
3800	9.376	76.154	31.723	76.154	-0.000	31.724	-0.001	76.153	0.001	31.722	0.001	380
4000	9.401	76.636	33.601	76.636	0.000	33.601	-0.000	76.635	0.001	33.600	0.001	400
4200	9.425	77.095	35.484	77.095	-0.000	35.484	0.000	77.094	0.001	35.483	0.001	420
4400	9.449	77.534	37.371	77.534	-0.000	37.371	-0.000	77.533	0.001	37.371	0.000	440
4600	9.474	77.955	39.263	77.955	0.000	39.263	-0.000	77.954	0.001	39.263	-0.000	460
4800	9.498	78.358	41.160	78.358	-0.000	41.160	-0.000	78.358	0.000	41.161	-0.001	480
5000	9.522	78.747	43.062	78.747	0.000	43.062	-0.000	78.746	0.001	43.063	-0.001	500
5200	9.546	79.121	44.969	79.120	0.000	44.969	0.000	79.120	0.001	44.970	-0.001	520
5400	9.569	79.481	46.881	79.481	-0.000	46.880	0.001	79.480	0.001	46.881	0.000	540
5600	9.593	79.830	48.797	79.830	0.000	48.797	0.000	79.829	0.001	48.797	-0.000	560
5800	9.617	80.167	50.718	80.167	0.000	50.718	0.000	80.166	0.001	50.718	0.000	580
6000	9.641	80.493	52.644	80.493	-0.000	52.644	-0.000	80.492	0.001	52.643	0.001	600

SODIUM FLUORIDE DIMERIC (G) F 2NA 2 0 0 0 0 1268
 MOL. WT.= 83.970 BLOCK= 3845 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -202.300 KEY = 816
 FITS FOR NOTS RMS = 0.003102
 2 9 2 11 0 0 0 0 0 0 0 SODIUM FLUORIDE DIMERIC (G) 10J1268 816
 +1.9859558E+1+1.2556895E-2-4.1895955E-3+4.1962251E-4 400 6000 11J1268 816
 -3.0421447E-1-2.0921072E+2+9.1071502E+1-2.0229998E+2F2NA2 (G) 12J1268 816

FITS FOR EST RMS LOW = 0.000732 RMS HIGH = 0.005910
 2 9 2 11 0 0 0 0 0 0 0 SODIUM FLUORIDE DIMERIC (G) 10F2NA2
 -202299+6+527959+5+198585+2+431322-5-300752+6+112927+3 4003000J126811F2NA2
 -202299+6+527997+5+199994+2-186927-4-113971+7+112927+330006000J126812F2NA2

DH KC/M	-----NOTS-----						-----EST-----						
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
-0.003	400	18.092	73.812	1.790	73.830	-0.018	1.795	-0.005	73.827	-0.015	1.796	-0.006	4
-0.000	600	19.031	81.360	5.519	81.356	0.004	5.514	0.005	81.358	0.002	5.518	0.001	6
0.001	800	19.388	86.891	9.366	86.886	0.005	9.361	0.005	86.889	0.002	9.365	0.001	8
0.001	1000	19.559	91.237	13.263	91.234	0.003	13.258	0.005	91.236	0.001	13.262	0.001	10
0.000	1200	19.653	94.812	17.185	94.810	0.002	17.181	0.004	94.812	0.000	17.185	0.000	12
-0.000	1400	19.711	97.847	21.122	97.845	0.002	21.119	0.003	97.846	0.001	21.122	0.000	14
0.000	1600	19.748	100.481	25.068	100.480	0.001	25.066	0.002	100.481	0.000	25.068	0.000	16
0.000	1800	19.774	102.809	29.020	102.808	0.001	29.019	0.001	102.808	0.001	29.020	-0.000	18
-0.001	2000	19.792	104.893	32.977	104.893	0.000	32.976	0.001	104.893	0.000	32.977	0.000	20
0.000	2200	19.806	106.780	36.937	106.780	-0.000	36.937	0.000	106.780	0.000	36.937	0.000	22
-0.001	2400	19.817	108.504	40.899	108.504	-0.000	40.899	-0.000	108.503	0.001	40.899	0.000	24
0.000	2600	19.825	110.091	44.863	110.091	0.000	44.864	-0.001	110.090	0.001	44.863	-0.000	26
-0.000	2800	19.831	111.560	48.829	111.560	-0.000	48.830	-0.001	111.559	0.001	48.829	0.000	28
-0.005	3000	19.836	112.928	52.796	112.929	-0.001	52.797	-0.001	112.928	0.000	52.796	0.000	30
-0.001	3000	19.836	112.928	52.796	112.929	-0.001	52.797	-0.001	112.928	0.000	52.800	-0.004	30
0.001	3200	19.841	114.209	56.763	114.209	-0.000	56.764	-0.001	114.207	0.002	56.764	-0.001	32
0.002	3400	19.844	115.412	60.732	115.412	-0.000	60.733	-0.001	115.410	0.002	60.731	0.001	34
0.002	3600	19.847	116.546	64.701	116.547	-0.001	64.702	-0.001	116.544	0.002	64.699	0.002	36
0.002	3800	19.850	117.619	68.671	117.620	-0.001	68.671	-0.001	117.617	0.002	68.668	0.003	38
0.001	4000	19.852	118.637	72.641	118.638	-0.001	72.641	-0.000	118.635	0.002	72.639	0.002	40
0.001	4200	19.854	119.606	76.611	119.606	-0.000	76.612	-0.001	119.604	0.002	76.610	0.001	42
0.001	4400	19.855	120.530	80.582	120.530	0.000	80.582	-0.000	120.528	0.002	80.581	0.001	44
-0.001	4600	19.857	121.412	84.553	121.413	-0.001	84.553	-0.000	121.410	0.002	84.553	0.000	46
-0.001	4800	19.858	122.257	88.525	122.258	-0.001	88.524	0.001	122.256	0.001	88.525	-0.000	48
-0.001	5000	19.859	123.068	92.496	123.068	-0.000	92.496	0.000	123.066	0.002	92.497	-0.001	50
-0.001	5200	19.860	123.847	96.468	123.847	-0.000	96.468	0.000	123.845	0.002	96.469	-0.001	52
-0.000	5400	19.861	124.596	100.440	124.597	-0.001	100.440	0.000	124.595	0.001	100.441	-0.001	54
0.001	5600	19.861	125.319	104.413	125.319	0.000	104.412	0.001	125.317	0.002	104.413	0.000	56
0.002	5800	19.862	126.016	108.385	126.016	0.000	108.385	0.000	126.014	0.002	108.384	0.001	58
	6000	19.863	126.689	112.357	126.689	-0.000	112.358	-0.001	126.687	0.002	112.356	0.001	60

TITANIUM TRIIODIDE (G) I 3TI 1 0 0 0 0 1268
 MOL. WT.= 428.610 BLOCK= 3864 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -35.900 KEY = 819
 FITS FOR NOTS RMS = 0.004681
 1 22 3 53 0 0 0 0 0 0 TITANIUM TRIIODIDE (G) 10J1268 819
 +2.0835906E+1-2.2778964E-1+4.3896473E-2-3.4376783E-3 400 6000 11J1268 819
 -4.0374755E-2-4.2337356E+1+1.1607720E+2-3.5899993E+1I3TI (G) 12J1268 819

FITS FOR EST RMS LOW = 0.004814 RMS HIGH = 0.006254
 1 22 3 53 0 0 0 0 0 0 TITANIUM TRIIODIDE (G) 10I3TI
 -358999+5+553796+5+207036+2-903527-4-136800+5+138450+3 4003000J126811I3TI
 -358999+5+553866+5+207802+2-737348-4-120985+7+138450+330006000J126812I3TI

-----NOTS-----													
-----EST-----													
TH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.038	400	20.082	97.092	2.011	97.024	0.068	1.981	0.030	97.012	0.080	1.979	0.032	T
0.012	600	20.569	105.353	6.089	105.361	-0.008	6.094	-0.005	105.365	-0.012	6.099	-0.010	K
0.013	800	20.641	111.284	10.213	111.291	-0.007	10.216	-0.003	111.294	-0.010	10.222	-0.009	100
0.003	1000	20.625	115.889	14.340	115.890	-0.001	14.339	0.001	115.892	-0.003	14.343	-0.003	100
0.004	1200	20.599	119.647	18.463	119.646	0.001	18.459	0.004	119.647	-0.000	18.461	0.002	100
0.005	1400	20.574	122.820	22.580	122.819	0.001	22.575	0.005	122.819	0.001	22.577	0.003	100
0.004	1600	20.551	125.566	26.692	125.565	0.001	26.688	0.004	125.565	0.001	26.689	0.003	200
0.001	1800	20.530	127.986	30.801	127.985	0.001	30.797	0.004	127.985	0.001	30.799	0.002	400
0.001	2000	20.512	130.148	34.905	130.148	0.000	34.902	0.003	130.148	0.000	34.904	0.001	100
0.002	2200	20.495	132.102	39.005	132.102	-0.000	39.004	0.001	132.103	-0.001	39.006	-0.001	1400
0.002	2400	20.481	133.885	43.103	133.886	-0.001	43.103	-0.000	133.886	-0.001	43.105	-0.002	100
0.000	2600	20.469	135.523	47.198	135.525	-0.002	47.199	-0.001	135.525	-0.002	47.200	-0.002	200
0.000	2800	20.459	137.040	51.291	137.042	-0.002	51.293	-0.002	137.041	-0.001	51.292	-0.001	400
0.001	3000	20.449	138.451	55.382	138.453	-0.002	55.384	-0.002	138.451	0.000	55.380	0.002	1600
0.001	3000	20.449	138.451	55.382	138.453	-0.002	55.384	-0.002	138.451	0.000	55.387	-0.005	800
0.001	3200	20.441	139.771	59.471	139.773	-0.002	59.473	-0.002	139.769	0.002	59.472	-0.001	1000
0.001	3400	20.432	141.010	63.558	141.012	-0.002	63.560	-0.002	141.008	0.002	63.557	0.001	1000
0.000	3600	20.424	142.177	67.644	142.179	-0.002	67.645	-0.001	142.175	0.002	67.642	0.002	1200
0.000	3800	20.416	143.281	71.728	143.283	-0.002	71.729	-0.001	143.279	0.002	71.725	0.003	400
0.001	4000	20.408	144.328	75.810	144.330	-0.002	75.810	-0.000	144.326	0.002	75.808	0.002	1600
0.001	4200	20.399	145.324	79.891	145.325	-0.001	79.891	0.000	145.322	0.002	79.889	0.002	100
0.001	4400	20.390	146.273	83.970	146.274	-0.001	83.969	0.001	146.270	0.003	83.969	0.001	100
0.001	4600	20.381	147.179	88.047	147.180	-0.001	88.046	0.001	147.177	0.002	88.046	0.001	200
0.000	4800	20.371	148.046	92.122	148.047	-0.001	92.121	0.001	148.044	0.002	92.122	-0.000	400
0.000	5000	20.362	148.877	96.195	148.879	-0.002	96.195	0.000	148.876	0.001	96.193	-0.001	100
0.001	5200	20.352	149.676	100.267	149.677	-0.001	100.266	0.001	149.674	0.002	100.267	-0.000	100
0.001	5400	20.342	150.444	104.336	150.445	-0.001	104.336	-0.000	150.442	0.002	104.337	-0.001	100
0.001	5600	20.332	151.183	108.403	151.185	-0.002	108.404	-0.001	151.181	0.002	108.404	-0.001	200
0.001	5800	20.322	151.897	112.469	151.898	-0.001	112.469	0.000	151.895	0.002	112.468	0.001	400
0.002	6000	20.312	152.585	116.532	152.587	-0.002	116.531	0.001	152.583	0.002	116.530	0.002	100

664

D.

F.

14

+1.4

+5.

F:

1

- 86

-86

DH

KC/M

0.032

-0-010

-0.009

-0.003

0.002

0.002
0.0030.003
0.0030.003
0.0020.002
0.0010.001
0.001

-0.001

-0.002

-0.002

-0.001

0.002

-0.005

-0.001

0.001

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-0.000

-0.001

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-0.001
-0.001

0.001
0.001

0.002

0.002

-----NOTS-----

-----EST-----

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T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
40	19.557	100.762	1.981	100.773	-0.011	1.983	-0.002	100.767	-0.005	1.984	-0.003	40
50	19.730	108.731	5.914	108.730	0.001	5.909	0.005	108.732	-0.001	5.914	0.000	50
60	19.792	114.417	9.867	114.413	0.003	9.861	0.006	114.417	0.000	9.866	0.001	60
70	19.821	118.837	13.828	118.834	0.003	13.823	0.005	118.836	0.001	13.828	0.000	70
80	19.837	122.452	17.794	122.450	0.002	17.790	0.004	122.452	0.000	17.794	0.000	80
90	19.846	125.511	21.763	125.509	0.002	21.759	0.004	125.510	0.001	21.762	0.001	90
100	19.852	128.161	25.733	128.160	0.001	25.730	0.003	128.161	-0.000	25.732	0.001	100
110	19.857	130.500	29.703	130.499	0.001	29.702	0.001	130.500	0.000	29.703	-0.000	110
120	19.860	132.592	33.675	132.592	-0.000	33.674	0.001	132.592	0.000	33.675	-0.000	120
130	19.862	134.485	37.647	134.485	-0.000	37.647	-0.000	134.485	0.000	37.647	-0.000	130
140	19.864	136.213	41.620	136.214	-0.001	41.620	-0.000	136.213	-0.000	41.620	0.000	140
150	19.865	137.803	45.593	137.804	-0.001	45.593	-0.000	137.803	-0.000	45.593	0.000	150
160	19.866	139.276	49.566	139.276	-0.000	49.567	-0.001	139.275	0.001	49.566	0.000	160
170	19.867	140.646	53.539	140.647	-0.001	53.540	-0.001	140.646	0.000	53.539	0.000	170
180	19.867	140.646	53.539	140.647	-0.001	53.540	-0.001	140.646	0.000	53.544	-0.005	180
190	19.868	141.928	57.513	141.929	-0.001	57.514	-0.001	141.927	0.001	57.514	-0.001	190
200	19.868	143.133	61.486	143.134	-0.001	61.487	-0.001	143.131	0.002	61.485	0.001	200
	19.869	144.269	65.460	144.269	-0.000	65.461	-0.001	144.266	0.003	65.458	0.002	
	19.869	145.343	69.434	145.343	-0.000	69.434	-0.000	145.340	0.003	69.431	0.003	
	19.869	146.362	73.407	146.362	-0.000	73.408	-0.001	146.359	0.003	73.405	0.002	
	19.870	147.331	77.381	147.332	-0.001	77.382	-0.001	147.329	0.002	77.379	0.002	
	19.870	148.256	81.355	148.256	-0.000	81.355	-0.000	148.254	0.002	81.354	0.001	
	19.870	149.139	85.329	149.139	-0.000	85.329	0.000	149.137	0.002	85.329	0.000	
	19.870	149.985	89.303	149.985	0.000	89.303	0.000	149.983	0.002	89.303	-0.000	
	19.871	150.796	93.277	150.796	-0.000	93.277	0.000	150.794	0.002	93.278	-0.001	
	19.871	151.575	97.252	151.575	-0.000	97.251	0.001	151.573	0.002	97.252	-0.000	
	19.871	152.325	101.226	152.325	-0.000	101.225	0.001	152.323	0.002	101.226	-0.000	
	19.871	153.048	105.200	153.048	0.000	105.199	0.001	153.046	0.002	105.200	-0.000	
	19.871	153.745	109.174	153.745	-0.000							

SODIUM BROMIDE

(L)

BR 1NA 1

964

MOL. WT.= 102.890

BLCK= 3879

NO. POINT = 24

ATA FROM 298 TO 2500 K HFCRM(KCAL/(MOLE)) = -81.105 KEY = 822

ITS FOR NOTS RMS = 0.000810

11 1 35 0 0 0 0 0 0 0 SODIUM BROMIDE

(L) 20J 964 822

.4835899E+1+1.3886570E-1-9.5743238E-2+2.0685896E-2 400 2500

21J 964 822

.7384033E-3-8.5522171E+1+4.2875442E+1-8.1104995E+1BRNA(L)

22J 964 822

FITS FOR EST RMS LOW = 0.000140 RMS HIGH = 0.000140

11 1 35 0 0 0 0 0 0 0 SODIUM BROMIDE

(L) 20BRNA*

11049+5+402576+5+149025+2-109203-5-139200+4+593404+2 4002500J 96421BRNA*

11049+5+402576+5+149025+2-109203-5-139200+4+593404+2 4002500J 96422BRNA*

DH		-----NOTS-----												-----EST-----			
KC/M		T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
		K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
2	0.006	00	14.900	29.318	1.518	29.318	-0.000	1.517	0.001	29.320	-0.002	1.519	-0.001				
3	-0.000	00	14.900	32.643	3.008	32.643	0.000	3.007	0.001	32.644	-0.001	3.008	-0.000				
1	-0.003	00	14.900	35.360	4.498	35.359	0.001	4.497	0.001	35.360	-0.000	4.498	-0.000				
6	-0.003	00	14.900	37.657	5.988	37.656	0.001	5.987	0.001	37.657	0.000	5.988	0.000				
0	-0.002	00	14.900	39.647	7.478	39.646	0.001	7.477	0.001	39.646	0.001	7.478	0.000				
4	-0.001	00	14.900	41.402	8.968	41.401	0.001	8.967	0.001	41.401	0.001	8.968	0.000				
8	0.000	00	14.900	42.972	10.458	42.971	0.001	10.458	0.000	42.971	0.001	10.458	0.000				
2	0.001	00	14.900	44.392	11.948	44.392	0.000	11.948	-0.000	44.391	0.001	11.948	0.000				
6	0.002	100	14.900	45.688	13.438	45.689	-0.001	13.438	-0.000	45.688	0.000	13.438	0.000				
1	0.002	200	14.900	46.881	14.928	46.882	-0.001	14.929	-0.001	46.880	0.001	14.928	0.000				
6	0.002	300	14.900	47.985	16.418	47.986	-0.001	16.419	-0.001	47.985	0.000	16.418	0.000				
2	0.001	400	14.900	49.013	17.908	49.014	-0.001	17.909	-0.001	49.013	0.000	17.908	0.000				
8	-0.000	500	14.900	49.975	19.398	49.975	-0.001	19.399	-0.001	49.974	0.001	19.398	0.000				
5	-0.002	600	14.900	50.878	20.888	50.879	-0.001	20.889	-0.001	50.878	0.000	20.888	0.000				
3	-0.003	700	14.900	51.730	22.378	51.730	-0.000	22.378	-0.000	51.729	0.001	22.378	0.000				
1	-0.001	800	14.900	52.536	23.868	52.536	0.000	23.868	-0.000	52.535	0.001	23.868	0.000				
0	0.003	900	14.900	53.300	25.358	53.300	0.000	25.358	0.000	53.299	0.001	25.358	-0.000				
		00	14.900	54.027	26.848	54.027	0.000	26.848	0.000	54.026	0.001	26.848	-0.000				
		100	14.900	54.720	28.338	54.720	0.000	28.337	0.001	54.719	0.001	28.338	0.000				
		200	14.900	55.382	29.828	55.382	-0.000	29.827	0.001	55.382	0.000	29.828	0.000				
		300	14.900	56.016	31.318	56.016	-0.000	31.318	0.000	56.016	0.000	31.318	0.000				
		400	14.900	56.624	32.808	56.625	-0.001	32.808	-0.000	56.624	0.000	32.808	0.000				

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SODIUM BROMIDE

(G)

BR 1HA 1

964

MOL. WT. = 102.890

BLCK = 3881

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -34.400 KEY = 823

FITS FOR NOTS RMS = 0.001784

1 11 1 35 0 0 0 0 0 0 0 SODIUM BROMIDE (G) 10J 964 823
 +8.9475269E+0+1.8485677E-1-3.6292918E-4+6.9937086E-5 400 6000 11J 964 823
 -3.3493041E-2-3.7184417E+1+6.8226333E+1-3.4399993E+1BRNA (G) 12J 964 823

FITS FOR EST RMS LOW = 0.000431 RMS HIGH = 0.003290

1 11 1 35 0 0 0 0 0 0 0 SODIUM BROMIDE (G) 10BRNA
 -343999+5+248987+5+894202+1+186097-3-309440+5+786109+2 4003000J 96411BRNA
 -343999+5+249010+5+901115+1+175771-3-469056+6+786109+230006000J 96412BRNA

-----NOTS-----												
-----EST-----												
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.001	400	8.833	60.203	0.893	60.206	-0.003	0.893	-0.000	60.205	-0.002	0.894	-0.001
-0.000	600	8.970	63.814	2.675	63.813	0.001	2.673	0.002	63.814	0.000	2.675	-0.000
-0.000	800	9.043	66.405	4.477	66.404	0.001	4.475	0.002	66.405	0.000	4.477	0.000
0.000	1000	9.098	68.429	6.291	68.429	0.001	6.289	0.002	68.429	0.000	6.291	0.000
0.000	1200	9.140	70.092	8.115	70.091	0.001	8.113	0.002	70.092	0.000	8.115	-0.000
0.000	1400	9.187	71.505	9.948	71.504	0.001	9.947	0.001	71.504	0.001	9.948	-0.000
0.000	1600	9.228	72.734	11.790	72.734	0.000	11.789	0.001	72.734	0.000	11.790	0.000
0.000	1800	9.268	73.823	13.639	73.823	-0.000	13.639	0.000	73.823	0.000	13.639	-0.000
0.000	2000	9.307	74.802	15.497	74.802	0.000	15.496	0.001	74.801	0.001	15.497	0.000
0.000	2200	9.345	75.691	17.362	75.691	0.000	17.362	0.000	75.690	0.001	17.362	0.000
0.000	2400	9.383	76.505	19.235	76.505	-0.000	19.235	0.000	76.505	0.000	19.235	0.000
0.000	2600	9.421	77.258	21.115	77.258	-0.000	21.115	-0.000	77.257	0.001	21.115	-0.000
0.000	2800	9.459	77.957	23.003	77.958	-0.001	23.004	-0.001	77.957	-0.000	23.003	-0.000
0.000	3000	9.497	78.611	24.899	78.612	-0.001	24.899	-0.000	78.611	0.000	24.899	0.000
0.000	3000	9.497	78.611	24.899	78.612	-0.001	24.899	-0.000	78.611	0.000	24.901	-0.002
0.000	3200	9.534	79.225	26.802	79.226	-0.001	26.802	-0.000	79.225	0.000	26.803	-0.001
-0.000	3400	9.572	79.805	28.713	79.805	0.000	28.713	-0.000	79.803	0.002	28.712	0.001
-0.000	3600	9.609	80.353	30.631	80.353	-0.000	30.631	-0.000	80.351	0.002	30.630	0.001
0.000	3800	9.647	80.873	32.556	80.874	-0.001	32.557	-0.001	80.872	0.001	32.555	0.001
0.000	4000	9.684	81.369	34.489	81.369	-0.000	34.490	-0.001	81.368	0.001	34.488	0.001
0.000	4200	9.721	81.842	36.430	81.843	-0.001	36.430	-0.000	81.841	0.001	36.429	0.001
0.000	4400	9.759	82.296	38.378	82.296	0.000	38.378	0.000	82.294	0.002	38.377	0.001
0.000	4600	9.796	82.730	40.333	82.730	-0.000	40.333	-0.000	82.729	0.001	40.333	-0.000
	4800	9.833	83.148	42.296	83.148	0.000	42.296	-0.000	83.147	0.001	42.296	-0.000
	5000	9.871	83.550	44.267	83.550	-0.000	44.266	0.001	83.549	0.001	44.267	-0.000
	5200	9.908	83.938	46.244	83.938	0.000	46.244	-0.000	83.937	0.001	46.245	-0.001
	5400	9.945	84.312	48.230	84.313	-0.001	48.229	0.001	84.311	0.001	48.230	-0.000
	5600	9.982	84.675	50.222	84.675	0.000	50.222	-0.000	84.674	0.001	50.223	-0.001
	5800	10.019	85.026	52.223	85.026	0.000	52.222	0.001	85.025	0.001	52.222	0.001
	6000	10.057	85.366	54.230	85.366	-0.000	54.230	-0.000	85.365	0.001	54.229	0.001

SODIUM DIBROMIDE DIMERIC

(G) BR 2NA 2

964

MOL. WT. = 205.790

BLCK = 3894

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -116.240 KEY = 825

FITS FOR NOTS RMS = 0.002977

2 11 2 35 0 0 0 0 0 0 SODIUM DIBROMIDE DIMERIC (G) 10J 964 825
 +1.9893432E+1-1.0126963E-2+1.2929819E-3-2.1519110E-5 400 6000 11J 964 825
 -7.6110839E-2-1.2241677E+2+1.0706570E+2-1.1623999E+2BR2NA2(G) 12J 964 825

FITS FOR EST RMS LOW = 0.000636 RMS HIGH = 0.005901

2 11 2 35 0 0 0 0 0 0 SODIUM DIBROMIDE DIMERIC (G) 10BR2NA2
 -116239+6+534932+5+199757+2-116269-5-691840+5+128899+3 4003000J 96411BR2NA2
 -116239+5+534978+5+200173+2-211907-4-992768+6+128859+330006000J 96412BR2NA2

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	19.463	89.052	1.869	89.071	-0.009	1.970	-0.001	89.068	-0.006	1.971	-0.002
600	19.682	97.035	5.888	97.003	0.001	5.884	0.004	97.006	-0.001	5.889	-0.001
800	19.750	102.682	9.835	102.578	0.002	9.830	0.005	102.682	0.000	9.835	0.000
1000	19.800	107.097	13.792	107.074	0.002	13.768	0.005	107.097	-0.000	13.792	0.001
1200	19.820	110.710	17.756	110.708	0.002	17.752	0.004	110.710	-0.000	17.756	0.000
1400	19.838	113.767	21.723	113.766	0.001	21.720	0.003	113.767	-0.000	21.722	0.001
1600	19.846	116.417	25.691	116.416	0.001	25.689	0.002	116.417	-0.000	25.691	-0.000
1800	19.852	118.755	29.661	118.754	0.001	29.660	0.001	118.755	-0.000	29.661	0.000
2000	19.856	120.847	33.632	120.847	0.000	33.631	0.001	120.847	-0.000	33.632	0.000
2200	19.859	122.739	37.603	122.739	-0.000	37.603	-0.000	122.740	-0.001	37.603	-0.000
2400	19.861	124.467	41.575	124.468	-0.001	41.576	-0.001	124.468	-0.001	41.575	-0.000
2600	19.863	126.057	45.548	126.058	-0.001	45.548	-0.000	126.057	-0.000	45.548	0.000
2800	19.864	127.529	49.520	127.530	-0.001	49.521	-0.001	127.529	-0.001	49.520	-0.000
3000	19.865	128.900	53.493	128.900	-0.000	53.494	-0.001	128.900	0.000	53.493	-0.000
3200	19.866	129.900	57.467	129.900	-0.000	57.468	-0.001	129.900	0.000	57.467	-0.000
3400	19.866	130.132	57.467	130.132	-0.000	57.468	-0.001	130.181	0.001	57.467	-0.000
3600	19.867	131.336	61.440	131.387	-0.001	61.441	-0.001	131.385	0.001	61.439	0.001
3800	19.867	132.522	65.413	132.522	-0.000	65.414	-0.001	132.520	0.002	65.411	0.002
4000	19.868	133.596	69.387	133.596	-0.001	69.388	-0.001	133.594	0.002	69.384	0.003
4200	19.868	134.615	73.360	134.616	-0.001	73.361	-0.001	134.613	0.002	73.358	0.002
4400	19.869	135.585	77.334	135.585	0.000	77.335	-0.001	135.583	0.002	77.333	0.001
4600	19.869	136.509	81.308	136.509	-0.000	81.308	-0.000	136.507	0.002	81.307	0.001
4800	19.869	137.392	85.282	137.392	-0.000	85.282	0.000	137.391	0.001	85.282	0.000
5000	19.870	138.238	89.256	138.238	0.000	89.256	0.000	138.236	0.002	89.256	-0.000
5200	19.870	139.049	93.230	139.049	-0.000	93.229	0.001	139.048	0.001	93.231	-0.001
5400	19.870	139.828	97.204	139.828	-0.000	97.203	0.001	139.827	0.001	97.205	-0.001
5600	19.870	140.578	101.178	140.578	-0.000	101.177	0.001	140.577	0.001	101.179	-0.001
5800	19.871	141.301	105.152	141.301	0.000	105.152	0.000	141.299	0.002	105.152	-0.000
6000	19.871	142.672	113.100	142.672	0.000	113.100	-0.000	142.670	0.002	113.098	0.002

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SODIUM UNIPOSITIVE ION

(G) NA 1 1

365

MOL. WT.= 22.980

BLOCK= 3978

NO. POINT = 59

DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 145.755 KEY = 840

FITS FOR NOTS RMS = 0.001250

1 -1 1 11 0 0 0 0 0 0 0 SODIUM UNIPOSITIVE ION (G) 10J 365 840
 +4.9685955E+0+1.8382566E-3-9.7069144E-4+1.1566519E-4 400 6000 11J 365 840
 -1.1444091E-3+1.4427052E+2+4.1346038E+1+1.4575498E+2NA+(G) 12J 365 840

FITS FOR EST RMS LOW = 0.000553 RMS HIGH = 0.001933

1 -1 1 11 0 0 0 0 0 0 0 SODIUM UNIPOSITIVE ION (G) 10NA+
 +145754+6+134231+5+496911+1-360998-6-723000+3+468069+2 4003000J 36511NA+
 +145754+6+134242+5+499621+1-403093-5-186576+6+468069+230006000J 36512NA+

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	4.968	36.796	0.506	36.798	-0.002	0.506	0.000	36.798	-0.002	0.507	-0.001
600	4.968	38.811	1.500	38.810	0.001	1.499	0.001	38.811	-0.000	1.500	0.000
800	4.968	40.240	2.493	40.239	0.001	2.492	0.001	40.240	-0.000	2.493	-0.000
1000	4.968	41.349	3.487	41.348	0.001	3.486	0.001	41.349	0.000	3.487	0.000
1200	4.968	42.254	4.481	42.254	0.000	4.480	0.001	42.255	-0.001	4.480	0.001
1400	4.968	43.020	5.474	43.020	0.000	5.473	0.001	43.021	-0.001	5.474	-0.000
1600	4.968	43.684	6.468	43.683	0.001	6.467	0.001	43.684	0.000	6.468	0.000
1800	4.968	44.269	7.461	44.269	0.000	7.461	-0.000	44.269	-0.000	7.461	-0.000
2000	4.968	44.792	8.455	44.792	-0.000	8.455	0.000	44.793	-0.001	8.455	-0.000
2200	4.968	45.266	9.449	45.266	0.000	9.449	0.000	45.266	-0.000	9.449	0.000
2400	4.968	45.698	10.442	45.698	-0.000	10.442	-0.000	45.698	-0.000	10.442	-0.000
2600	4.968	46.096	11.436	46.096	0.000	11.436	-0.000	46.096	-0.000	11.436	0.000
2800	4.968	46.464	12.430	46.464	-0.000	12.430	0.000	46.464	-0.000	12.430	0.000
3000	4.968	46.807	13.423	46.807	0.000	13.424	-0.001	46.807	0.000	13.423	-0.000
3000	4.968	46.807	13.423	46.807	0.000	13.424	-0.001	46.807	0.000	13.424	-0.001
3200	4.968	47.127	14.417	47.127	-0.000	14.417	-0.000	47.127	-0.000	14.417	-0.000
3400	4.968	47.428	15.410	47.429	-0.001	15.411	-0.001	47.428	-0.000	15.410	-0.000
3600	4.968	47.712	16.404	47.713	-0.001	16.404	-0.000	47.712	-0.000	16.404	0.000
3800	4.968	47.981	17.398	47.981	-0.000	17.398	0.000	47.981	0.000	17.397	0.001
4000	4.968	48.236	18.391	48.236	-0.000	18.392	-0.001	48.236	0.000	18.391	0.000
4200	4.968	48.478	19.385	48.478	-0.000	19.385	-0.000	48.478	-0.000	19.385	0.000
4400	4.968	48.709	20.379	48.710	-0.001	20.379	0.000	48.709	-0.000	20.378	0.001
4600	4.968	48.930	21.372	48.930	-0.000	21.372	-0.000	48.930	-0.000	21.372	-0.000
4800	4.968	49.142	22.366	49.142	0.000	22.366	0.000	49.142	0.000	22.366	0.000
5000	4.968	49.345	23.359	49.345	0.000	23.359	-0.000	49.344	0.001	23.360	-0.001
5200	4.968	49.539	24.353	49.539	-0.000	24.353	0.000	49.539	-0.000	24.353	-0.000
5400	4.968	49.727	25.347	49.727	0.000	25.347	0.000	49.727	0.000	25.347	0.000
5600	4.968	49.908	26.340	49.908	0.000	26.340	-0.000	49.908	0.000	26.341	-0.001
5800	4.968	50.082	27.334	50.082	0.000	27.334	-0.000	50.082	0.000	27.334	-0.000
6000	4.968	50.250	28.328	50.250	-0.000	28.328	0.000	50.250	-0.000	28.327	0.001


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CHL
NO
DATA
FITS
1 -1
+5.485
+1.611

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FITS
1 -1
+33059
+33059

NOTES

-----EST-----

[illegible]

CHLORINE UNINEGATIVE ION (G) CL 1- 1 665 1
 MOL. WT.= 35.450 BLOCK= 4016 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = -55.900 KEY = 847
 FITS FOR NOTS RMS = 0.001250
 1 -1 1 17 0 0 0 0 0 0 0 CHLORINE UNINEGATIVE ION (G) 10J 665 847
 4.9685955E+0+1.8382566E-3-9.7069144E-4+1.1566519E-4 400 6000 11J 665 847
 1.1444091E-3-5.7384460E+1+4.2637390E+1-5.5899993E+1CL-(G) 12J 665 847

FITS FOR EST RMS LOW = 0.000553 RMS HIGH = 0.001933
 1 -1 1 17 0 0 0 0 0 0 0 CHLORINE UNINEGATIVE ION (G) 10CL-
 58999+5+134231+5+496911+1-360998-6-723000+3+480979+2 4003000J 66511CL-
 58999+5+134242+5+499621+1-403093-5-186576+6+480979+230006000J 66512CL-

/M	-----NOTS-----												T
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
068	400	4.968	38.088	0.506	38.089	-0.001	0.506	0.000	38.089	-0.001	0.507	-0.001	400
016	600	4.968	40.102	1.500	40.102	0.000	1.499	0.001	40.102	-0.000	1.500	0.000	600
020	800	4.968	41.531	2.493	41.531	0.000	2.492	0.001	41.531	-0.000	2.493	-0.000	800
009	1000	4.968	42.640	3.487	42.639	0.001	3.486	0.001	42.640	0.000	3.487	0.000	1000
001	1200	4.968	43.546	4.481	43.545	0.001	4.480	0.001	43.546	0.000	4.480	0.001	1200
006	1400	4.968	44.312	5.474	44.311	0.001	5.473	0.001	44.312	0.000	5.474	-0.000	1400
007	1600	4.968	44.975	6.468	44.975	0.000	6.467	0.001	44.975	0.000	6.468	0.000	1600
005	1800	4.968	45.560	7.461	45.560	0.000	7.461	-0.000	45.560	-0.000	7.461	-0.000	1800
002	2000	4.968	46.084	8.455	46.084	0.000	8.455	0.000	46.084	0.000	8.455	-0.000	2000
004	2200	4.968	46.557	9.449	46.557	-0.000	9.449	0.000	46.557	-0.000	9.449	0.000	2200
005	2400	4.968	46.989	10.442	46.989	-0.000	10.442	-0.000	46.989	-0.000	10.442	-0.000	2400
002	2600	4.968	47.387	11.436	47.387	-0.000	11.436	-0.000	47.387	-0.000	11.436	0.000	2600
006	2800	4.968	47.755	12.430	47.755	-0.000	12.430	0.000	47.755	-0.000	12.430	0.000	2800
005	3000	4.968	48.098	13.423	48.098	-0.000	13.424	-0.001	48.098	0.000	13.423	-0.000	3000
000	3200	4.968	48.098	13.423	48.098	-0.000	13.424	-0.001	48.098	0.000	13.424	-0.001	3200
002	3400	4.968	48.419	14.417	48.419	0.000	14.417	-0.000	48.418	0.001	14.417	-0.000	3400
002	3600	4.968	48.720	15.410	48.720	-0.000	15.411	-0.001	48.719	0.001	15.410	-0.000	3600
001	3800	4.968	49.004	16.404	49.004	0.000	16.404	-0.000	49.003	0.001	16.404	0.000	3800
001	4000	4.968	49.272	17.398	49.273	-0.001	17.398	0.000	49.272	0.000	17.397	0.001	4000
000	4200	4.968	49.527	18.391	49.527	-0.000	18.392	-0.001	49.527	0.000	18.391	0.000	4200
001	4400	4.968	49.770	19.385	49.770	0.000	19.385	-0.000	49.769	0.001	19.385	0.000	4400
000	4600	4.968	50.001	20.379	50.001	0.000	20.379	0.000	50.000	0.001	20.378	0.001	4600
000	4800	4.968	50.222	21.372	50.222	0.000	21.372	-0.000	50.221	0.001	21.372	-0.000	4800
000	5000	4.968	50.433	22.366	50.433	-0.000	22.366	0.000	50.433	0.000	22.366	0.000	5000
000	5200	4.968	50.636	23.359	50.636	0.000	23.359	-0.000	50.635	0.001	23.360	-0.001	5200
001	5400	4.968	50.831	24.353	50.831	0.000	24.353	0.000	50.830	0.001	24.353	-0.000	5400
001	5600	4.968	51.018	25.347	51.018	-0.000	25.347	0.000	51.018	0.000	25.347	0.000	5600
000	5800	4.968	51.199	26.340	51.199	0.000	26.340	-0.000	51.199	0.000	26.341	-0.001	5800
001	6000	4.968	51.373	27.334	51.373	-0.000	27.334	-0.000	51.373	0.000	27.334	-0.000	6000
	6000	4.968	51.542	28.328	51.542	0.000	28.328	0.000	51.541	0.001	28.327	0.001	6000

IRON DICHLORIDE

(L) CL 2FE 1 0 0 0 0

1270

MOL. WT.= 126.750 BLOCK= 4031 NO. POINT = 29

DATA FROM 298 TO 3000 K HFORM(KCAL/(MOLE)) = -74.411 KEY = 850

FITS FOR NOTS RMS = 0.001112

2 17 1 26 0 0 0 0 0 0 0 IRON DICHLORIDE (L) 20J1270 850
 +2.4367645E+1+9.4621062E-2-5.4185863E-2+9.6857808E-3 400 3000 21J1270 850
 +4.8980712E-3-8.1667388E+1+6.2915145E+1-7.4410995E+1CL2FE (L) 22J1270 850

FITS FOR EST RMS LOW = 0.000420 RMS HIGH = 0.000420

2 17 1 26 0 0 0 0 0 0 0 IRON DICHLORIDE (L) 20CL2FE*
 -744109+5+659790+5+244243+2-150025-5-344000+4+898119+2 4003000J127021CL2FE*
 -744109+5+659790+5+244243+2-150025-5-344000+4+898119+2 4003000J127022CL2FE*

-----NOTS-----

-----EST-----

TH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
(C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.052	400	24.420	40.608	2.487	40.606	0.002	2.485	0.002	40.614	-0.006	2.490	-0.003
0.014	600	24.420	50.510	7.371	50.508	0.002	7.369	0.002	50.511	-0.001	7.372	-0.001
0.028	800	24.420	57.535	12.255	57.534	0.001	12.254	0.001	57.535	0.000	12.255	0.000
0.021	1000	24.420	62.984	17.139	62.983	0.001	17.138	0.001	62.984	0.000	17.139	0.000
0.009	1200	24.420	67.436	22.023	67.436	-0.000	22.023	0.000	67.436	0.000	22.023	0.000
0.002	1400	24.420	71.201	26.907	71.201	-0.000	26.907	-0.000	71.200	0.001	26.907	0.000
0.009	1600	24.420	74.462	31.791	74.462	-0.000	31.792	-0.001	74.461	0.001	31.791	0.000
0.011	1800	24.420	77.338	36.675	77.339	-0.001	36.676	-0.001	77.338	0.000	36.675	0.000
0.010	2000	24.420	79.911	41.559	79.912	-0.001	41.560	-0.001	79.910	0.001	41.559	0.000
0.007	2200	24.420	82.238	46.443	82.239	-0.001	46.444	-0.001	82.238	0.000	46.443	-0.000
0.001	2400	24.420	84.363	51.327	84.363	-0.000	51.327	-0.000	84.363	0.000	51.327	-0.000
0.002	2600	24.420	86.318	56.211	86.318	0.000	56.211	0.000	86.317	0.001	56.211	-0.000
0.006	2800	24.420	88.127	61.095	88.128	-0.001	61.094	0.001	88.127	-0.000	61.095	-0.000
0.007	3000	24.420	89.812	65.979	89.813	-0.001	65.979	-0.000	89.812	0.000	65.979	0.000
0.006												
0.001												
0.007												

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665

BLOCK= 4040 NO. POINT = 17

KEY = 852

0.002682

(C) 30J 665 852

31J 665 852

32J 665 852

0.007265 RMS HIGH = 0.007265

(C) 30CL3FES

66531CL3FES

66532CL3FES

-----EST-----

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IRON TRICHLORIDE (L) CL 3FE 1 665
 MOL. WT. = 162.200 BLOCK = 4042 NO. POINT = 14
 DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -86.713 KEY = 853
 FITS FOR NOTS RMS = 0.000186
 3 17 1 26 0 0 0 0 0 0 0 IRON TRICHLORIDE (L) 20J 665 853
 3.1700042E+1+7.5034606E-1-6.6510826E-1+1.9890767E-1 400 1500 21J 665 853
 1.6250610E-2-9.6140640E+1+8.6204376E+1-8.6712997E+1CL3FE(L) 22J 665 853

FITS FOR EST RMS LOW = 0.000149 RMS HIGH = 0.000149
 3 17 1 26 0 0 0 0 0 0 0 IRON TRICHLORIDE (L) 20CL3FE*
 867129+5+864497+5+320115+2-750870-5-305600+4+121831+3 4001500J 66521CL3FE*
 867129+5+864497+5+320115+2-750870-5-305600+4+121831+3 4001500J 66522CL3FE*

-----NOTS-----								-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	32.000	57.359	3.259	57.358	0.001	3.259	0.000	57.361	-0.002	3.260	-0.001
500	32.000	64.499	6.459	64.499	-0.000	6.459	-0.000	64.500	-0.001	6.459	0.000
600	32.000	70.334	9.659	70.333	0.001	9.659	0.000	70.333	0.001	9.659	0.000
700	32.000	75.266	12.859	75.266	-0.000	12.859	0.000	75.266	-0.000	12.859	0.000
800	32.000	79.539	16.059	79.539	-0.000	16.059	0.000	79.539	-0.000	16.059	0.000
900	32.000	83.309	19.259	83.309	0.000	19.259	-0.000	83.308	0.001	19.259	0.000
1000	32.000	86.680	22.459	86.680	-0.000	22.459	-0.000	86.680	-0.000	22.459	0.000
1100	32.000	89.730	25.659	89.730	-0.000	25.659	-0.000	89.730	-0.000	25.659	0.000
1200	32.000	92.514	28.859	92.514	-0.000	28.859	-0.000	92.514	-0.000	28.859	0.000
1300	32.000	95.076	32.059	95.076	0.000	32.059	0.000	95.076	0.000	32.059	0.000
1400	32.000	97.447	35.259	97.447	-0.000	35.259	0.000	97.447	-0.000	35.259	0.000
1500	32.000	99.655	38.459	99.655	-0.000	38.459	-0.000	99.655	0.000	38.459	0.000

IRON TRICHLORIDE
 MOL. WT. = 162.200
 DATA FROM 298 TO 1500 K
 HFORM(KCAL/(MOLE)) = -86.713
 KEY = 853
 FITS FOR NOTS
 RMS = 0.000186
 3 17 1 26 0 0 0 0 0 0 0
 3.1700042E+1+7.5034606E-1-6.6510826E-1+1.9890767E-1
 1.6250610E-2-9.6140640E+1+8.6204376E+1-8.6712997E+1CL3FE(L)

FITS FOR EST
 RMS LOW = 0.000149
 RMS HIGH = 0.000149
 3 17 1 26 0 0 0 0 0 0 0
 867129+5+864497+5+320115+2-750870-5-305600+4+121831+3
 867129+5+864497+5+320115+2-750870-5-305600+4+121831+3

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IRON OXIDE

(C) FE 10 1

665

MOL. WT. = 71.840 BLOCK = 4065 NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -65.020 KEY = 858

FITS FOR NOTS RMS = 0.000946

1 8 1 26 0 0 0 0 0 0 0 IRON OXIDE (C) 30J 665 858
 +1.0916869E+1+4.5309352E+0-1.4578227E+0+2.1387094E-1 400 2000 31J 665 858
 -1.7166137E-2-6.8524169E+1+2.6339660E+1-6.5019989E+1PEO(C) 32J 665 858

FITS FOR EST RMS LOW = 0.006683 RMS HIGH = 0.006683

1 8 1 26 0 0 0 0 0 0 0 IRON OXIDE (C) 30PEOS
 -650199+5+410646+5+130190+2+148866-2-292288+6+473721+2 4002000J 66531PEOS
 -650199+5+410646+5+130190+2+148866-2-292288+6+473721+2 4002000J 66532PEOS

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.152	400	12.390	18.094	1.240	18.091	0.003	1.238	0.002	18.167	-0.073	1.269	-0.029
0.018	500	12.760	20.898	2.497	20.899	-0.001	2.498	-0.001	20.892	0.006	2.491	0.006
0.040	600	13.120	23.257	3.792	23.258	-0.001	3.792	-0.000	23.236	0.021	3.778	0.014
0.058	700	13.420	25.303	5.119	25.302	0.001	5.118	0.001	25.284	0.019	5.107	0.012
0.055	800	13.700	27.113	6.475	27.112	0.001	6.474	0.001	27.101	0.012	6.468	0.007
0.042	900	13.930	28.740	7.857	28.739	0.001	7.856	0.001	28.736	0.004	7.856	0.001
0.024	1000	14.190	30.222	9.263	30.222	0.000	9.263	0.000	30.222	0.000	9.267	-0.004
0.004	1100	14.396	31.584	10.692	31.584	-0.000	10.693	-0.001	31.586	-0.002	10.699	-0.007
0.012	1200	14.600	32.845	12.142	32.847	-0.002	12.144	-0.002	32.849	-0.004	12.149	-0.007
0.024	1300	14.813	34.022	13.613	34.024	-0.002	13.615	-0.002	34.024	-0.002	13.619	-0.006
0.032	1400	15.000	35.127	15.104	35.128	-0.001	15.104	0.000	35.126	0.001	15.106	-0.002
0.033	1500	15.151	36.167	16.611	36.167	0.000	16.610	0.001	36.164	0.003	16.609	0.002
0.028	1600	15.300	37.150	18.134	37.149	0.001	18.133	0.001	37.145	0.005	18.130	0.004
0.016	1700	15.449	38.082	19.671	38.082	0.000	19.671	0.000	38.077	0.005	19.667	0.004
0.002	1800	15.590	38.969	21.223	38.969	0.000	21.223	-0.000	38.964	0.005	21.219	0.004
0.011	1900	15.724	39.815	22.789	39.815	-0.000	22.789	0.000	39.812	0.003	22.788	0.001
0.020	2000	15.850	40.625	24.368	40.625	-0.000	24.368	0.000	40.625	0.000	24.373	-0.005
0.024												
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HEMATITE (C) FE 20 3 665
 MOL. WT. = 159.690 BLOCK = 4078 NO. POINT = 27
 DATA FROM 0 TO 2500 K HFORM (KCAL/(MOLE)) = -197.300 KEY = 861
 FITS FOR NOTS RMS = 0.098513
 8 2 26 0 0 0 0 0 0 0 HEMATITE (C) 30J 665 861
 1.0149801E+2-1.0080612E+2+5.2266174E+1-8.9723587E+0 400 2500 31J 665 861
 1.8340454E+0-2.4763635E+2+1.3394860E+2-1.9729998E+2FE203 (C) 32J 665 861

FITS FOR EST RMS LOW = 0.205660 RMS HIGH = 0.205660
 8 2 26 0 0 0 0 0 0 0 HEMATITE (C) 30FE203\$
 197299+6+939154+5+326132+2+102198-2+133536+7+986647+2 4002500J 66531FE203\$
 197299+6+939154+5+326132+2+102198-2+133536+7+986647+2 4002500J 66532FE203\$

DB KC/M	-----NOTS-----								-----EST-----			
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.041	400	28.710	28.752	2.735	29.096	-0.344	2.841	-0.106	26.196	2.556	1.711	1.024
-0.005	500	31.500	35.469	5.750	35.020	0.449	5.518	0.232	35.078	0.391	5.686	0.064
-0.015	600	33.740	41.413	9.014	41.260	0.153	8.947	0.067	41.942	-0.529	9.448	-0.434
-0.010	700	35.786	46.768	12.490	46.956	-0.188	12.643	-0.153	47.564	-0.796	13.094	-0.604
-0.002	800	37.815	51.679	16.171	51.969	-0.290	16.398	-0.227	52.341	-0.662	16.670	-0.499
0.005	900	39.792	56.248	20.051	56.353	-0.105	20.119	-0.068	56.503	-0.255	20.204	-0.153
0.007	1000	36.000	60.440	24.025	60.202	0.238	23.772	0.253	60.198	0.242	23.711	0.314
0.006	1100	33.646	63.760	27.505	63.613	0.147	27.350	0.155	63.524	0.236	27.201	0.304
0.003	1200	33.822	66.695	30.879	66.670	0.025	30.863	0.016	66.552	0.143	30.681	0.198
-0.001	1300	33.998	69.409	34.270	69.442	-0.033	34.326	-0.056	69.334	0.075	34.155	0.115
-0.004	1400	34.174	71.935	37.678	71.984	-0.049	37.756	-0.078	71.907	0.028	37.628	0.050
-0.002	1500	34.350	74.299	41.105	74.340	-0.041	41.170	-0.065	74.303	-0.004	41.101	0.004
0.006	1600	34.552	76.522	44.550	76.544	-0.022	44.585	-0.035	76.546	-0.024	44.577	-0.027
-0.011	1700	34.719	78.622	48.014	78.622	-0.000	48.014	0.000	78.655	-0.033	48.056	-0.042
0.000	1800	34.842	80.611	51.492	80.595	0.016	51.465	0.027	80.647	-0.036	51.539	-0.047
0.005	1900	34.950	82.497	54.982	82.476	0.021	54.944	0.038	82.533	-0.036	55.029	-0.047
0.004	2000	35.083	84.293	58.484	84.275	0.018	58.451	0.033	84.326	-0.033	58.525	-0.041
0.003	2100	35.200	86.008	61.998	85.998	0.010	61.984	0.014	86.035	-0.027	62.027	-0.029
0.000	2200	35.300	87.648	65.523	87.650	-0.002	65.534	-0.011	87.668	-0.020	65.537	-0.014
-0.001	2300	35.383	89.219	69.058	89.229	-0.010	69.086	-0.028	89.232	-0.013	69.055	0.003
-0.002	2400	35.450	90.726	72.599	90.734	-0.008	72.624	-0.025	90.732	-0.006	72.581	0.018
-0.003	2500	35.500	92.175	76.147	92.162	0.012	76.122	0.025	92.175	0.000	76.115	0.032
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OXYGEN UNINEGATIVE ION (G) 0 1- 1 665
 MOL. WT. = 16.000 BLOCK = 4084 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 24.300 KEY = 863
 FITS FOR NOTS RMS = 0.001238
 -1 1 8 0 0 0 0 0 0 0 OXYGEN UNINEGATIVE ION (G) 10J 665 863
 .9784832E+0-5.8940649E-3+1.0783730E-3-6.0522506E-5 400 6000 11J 665 863
 .6281127E-2+2.2870437E+1+4.3830505E+1+2.4299987E+10- (G) 12J 665 863

FITS FOR EST RMS LOW = 0.000471 RMS HIGH = 0.001913
 -1 1 8 0 0 0 0 0 0 0 OXYGEN UNINEGATIVE ION (G) 100-
 42999+5+134820+5+497260+1-152838-5+179550+5+492849+2 4003000J 665110-
 42999+5+134830+5+500424+1-525156-5-209152+6+492849+230006000J 665120-

DH		-----NOTS-----								-----EST-----			
KC/M		T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
		K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
9	1.822	100	5.081	39.214	0.521	39.216	-0.002	0.521	0.000	39.215	-0.001	0.521	-0.000
0	-1.033	100	5.024	41.261	1.530	41.261	-0.000	1.529	0.001	41.262	-0.001	1.530	-0.000
4	-0.563	100	5.001	42.703	2.532	42.702	0.001	2.531	0.001	42.703	0.000	2.532	-0.000
0	0.406	100	4.990	43.818	3.531	43.817	0.001	3.530	0.001	43.817	0.001	3.531	0.000
0	0.146	100	4.983	44.727	4.528	44.726	0.001	4.527	0.001	44.726	0.001	4.528	-0.000
5	0.021	100	4.979	45.495	5.525	45.494	0.001	5.524	0.001	45.494	0.001	5.524	0.001
7	-0.031	100	4.977	46.159	6.520	46.159	-0.000	6.520	0.000	46.159	0.000	6.520	-0.000
7	-0.041	100	4.975	46.745	7.515	46.745	-0.000	7.515	-0.000	46.745	0.000	7.515	-0.000
0	-0.031	100	4.974	47.269	8.510	47.269	-0.000	8.510	-0.000	47.269	-0.000	8.510	-0.000
0	-0.014	100	4.973	47.743	9.505	47.744	-0.001	9.505	0.000	47.743	-0.000	9.505	0.000
4	0.002	100	4.972	48.176	10.499	48.176	-0.000	10.500	-0.001	48.176	0.000	10.499	-0.000
4	0.012	100	4.972	48.574	11.494	48.574	-0.000	11.494	0.000	48.574	0.000	11.494	0.000
6	0.010	100	4.971	48.942	12.488	48.943	-0.001	12.488	-0.000	48.942	-0.000	12.488	0.000
3	-0.007	100	4.971	49.285	13.482	49.286	-0.001	13.482	-0.000	49.285	0.000	13.482	-0.000
		100	4.971	49.285	13.482	49.286	-0.001	13.482	-0.000	49.285	0.000	13.483	-0.001
		100	4.970	49.606	14.476	49.606	-0.000	14.477	-0.001	49.605	0.001	14.476	-0.000
		100	4.970	49.908	15.470	49.908	0.000	15.471	-0.001	49.907	0.001	15.470	0.000
		100	4.970	50.192	16.464	50.192	0.000	16.464	-0.000	50.191	0.001	16.464	0.000
		100	4.970	50.460	17.458	50.460	-0.001	17.458	-0.000	50.459	0.001	17.458	0.000
		100	4.970	50.715	18.452	50.715	-0.000	18.452	-0.000	50.714	0.001	18.452	0.000
		100	4.969	50.958	19.446	50.958	0.000	19.446	-0.000	50.957	0.001	19.446	0.000
		100	4.969	51.189	20.440	51.189	0.000	20.440	0.000	51.188	0.001	20.440	0.000
		100	4.969	51.410	21.434	51.410	0.000	21.434	0.000	51.409	0.001	21.434	0.000
		100	4.969	51.621	22.428	51.621	-0.000	22.428	0.000	51.620	0.001	22.428	0.000
		100	4.969	51.824	23.421	51.824	-0.000	23.421	-0.000	51.823	0.001	23.422	-0.001
		100	4.969	52.019	24.415	52.019	-0.000	24.415	-0.000	52.018	0.001	24.416	-0.001
		100	4.969	52.207	25.409	52.207	0.000	25.409	-0.000	52.206	0.001	25.409	-0.000
		100	4.969	52.387	26.403	52.387	-0.000	26.403	0.000	52.386	0.001	26.403	-0.000
		100	4.969	52.562	27.397	52.562	0.000	27.397	0.000	52.561	0.001	27.397	0.000
		100	4.969	52.730	28.390	52.730	-0.000	28.391	-0.001	52.729	0.001	28.390	-0.000

LEAD METASILICATE

(C) 0 3PB 1SI 1

665

MOL. WT.= 283.270 BLOCK= 4090 NO. POINT = 22

DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -273.660 KEY = 864

FITS FOR NOTS RMS = 0.002988

3 8 1 14 1 82 0 0 0 0 0 LEAD METASILICATE (C) 30J 665 864
+3.1298004E+1+1.4095716E+0-3.7439221E-1+7.5706481E-2 400 2000 31J 665 864
-1.2747802E+0-2.8710815E+2+5.7231826E+1-2.7365991E+203PBSI (C) 32J 665 864

FITS FOR EST RMS LOW = 0.003064 RMS HIGH = 0.003064

3 8 1 14 1 82 0 0 0 0 0 LEAD METASILICATE (C) 3003PBSI\$
-273659+6+853181+5+316689+2+783977-3-131801+7+948900+2 4002000J 6653103PBSI\$
-273659+6+853181+5+316689+2+783977-3-131801+7+948900+2 4002000J 6653203PBSI\$

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DH

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-----NOTS-----

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T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	24.580	33.046	2.355	33.073	-0.027	2.363	-0.008	33.087	-0.041	2.369	-0.014
500	26.760	38.776	4.927	38.748	0.028	4.912	0.015	38.750	0.026	4.913	0.014
600	28.380	43.806	7.688	43.798	0.008	7.684	0.004	43.797	0.009	7.683	0.005
700	29.500	48.269	10.585	48.273	-0.004	10.589	-0.004	48.271	-0.002	10.587	-0.002
800	30.250	52.260	13.574	52.265	-0.005	13.579	-0.005	52.263	-0.003	13.578	-0.004
900	30.780	55.855	16.627	55.857	-0.002	16.629	-0.002	55.856	-0.001	16.628	-0.001
1000	31.150	59.118	19.724	59.117	0.001	19.723	0.001	59.116	0.002	19.723	0.001
1100	31.440	62.101	22.854	62.099	0.002	22.853	0.001	62.098	0.003	22.852	0.002
1200	31.690	64.847	26.011	64.846	0.001	26.010	0.001	64.845	0.002	26.010	0.001
1300	31.890	67.392	29.190	67.392	0.000	29.191	-0.001	67.391	0.001	29.190	-0.000
1400	32.080	69.762	32.389	69.764	-0.002	32.391	-0.002	69.763	-0.001	32.390	-0.001
1500	32.270	71.982	35.607	71.984	-0.002	35.609	-0.002	71.983	-0.001	35.608	-0.001
1600	32.420	74.070	38.841	74.070	-0.000	38.842	-0.001	74.069	0.001	38.842	-0.001
1700	32.550	76.039	42.090	76.039	-0.000	42.090	0.000	76.038	0.001	42.089	0.001
1800	32.690	77.904	45.352	77.903	0.001	45.351	0.001	77.902	0.002	45.350	0.002
1900	32.780	79.674	48.626	79.673	0.001	48.624	0.002	79.672	0.002	48.624	0.002
2000	32.850	81.357	51.907	81.358	-0.001	51.909	-0.002	81.357	0.000	51.909	-0.002

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CIS-DIFLUORODIAZIRINE

(G) F 2N 2

1265

MOL. WT.= 66.010 BLOCK= 4095 NO. POINT = 62

DATA FROM 0 TO 6000 K HFQRM(KCAL/(MOLE)) = 16.400 KEY = 866

FITS FOR NOTS RMS = 0.009419

2 7 2 9 0 0 0 0 0 0 0 CIS-DIFLUORODIAZIRINE (G) 10J1265 866
+1.9219009E+1+4.0177810E-1-8.8132381E-2+6.5525695E-3 400 6000 11J1265 866
-1.1561126E+0+7.2104949E+0+7.9960296E+1+1.6399993E+1F2N2 (G) 12J1265 866

FITS FOR EST RMS LOW = 0.013966 RMS HIGH = 0.005921

2 7 2 9 0 0 0 0 0 0 0 CIS-DIFLUORODIAZIRINE (G) 10F2N2
+163999+5+500079+5+194603+2+131009-3-119924+7+102008+3 4003000J126511F2N2
+163999+5+500063+5+200072+2-197430-4-263219+7+102008+330006000J126512F2N2

-----NOTS-----													
-----EST-----													
DB	T	CP	S	H	SC	DS	HC	DR	SC	DS	HC	DR	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.025	400	13.900	65.867	1.321	66.117	-0.250	1.419	-0.098	66.139	-0.272	1.430	-0.109	T
0.010	600	16.318	72.014	4.369	71.974	0.040	4.335	0.034	71.973	0.041	4.336	0.033	K
0.022	800	17.595	76.902	7.773	76.869	0.033	7.745	0.028	76.869	0.033	7.747	0.026	100
0.024	1000	18.313	80.912	11.370	80.898	0.014	11.359	0.011	80.901	0.011	11.363	0.007	100
0.009	1200	18.746	84.292	15.080	84.288	0.004	15.079	0.001	84.292	0.000	15.084	-0.004	100
0.002	1400	19.025	87.205	18.859	87.204	0.001	18.862	-0.003	87.207	-0.002	18.867	-0.008	200
0.011	1600	19.213	89.758	22.684	89.758	-0.000	22.688	-0.004	89.760	-0.002	22.691	-0.007	400
0.015	1800	19.345	92.029	26.540	92.029	0.000	26.544	-0.004	92.029	-0.000	26.545	-0.005	600
0.009	2000	19.442	94.072	30.419	94.071	0.001	30.421	-0.002	94.071	0.001	30.420	-0.001	800
0.001	2200	19.514	95.929	34.315	95.927	0.002	34.316	-0.001	95.926	0.003	34.313	0.002	1000
0.003	2400	19.570	97.630	38.224	97.627	0.003	38.223	0.001	97.625	0.005	38.219	0.005	200
0.003	2600	19.614	99.198	42.143	99.195	0.003	42.141	0.002	99.194	0.004	42.139	0.004	400
0.003	2800	19.649	100.653	46.069	100.650	0.003	46.067	0.002	100.650	0.003	46.068	0.001	600
0.003	3000	19.677	102.009	50.002	102.006	0.003	50.000	0.002	102.009	0.000	50.008	-0.006	800
0.002	3000	19.677	102.009	50.002	102.006	0.003	50.000	0.002	102.009	0.000	50.006	-0.004	1000
0.001	3200	19.701	103.280	53.940	103.277	0.003	53.939	0.001	103.279	0.001	53.941	-0.001	200
0.004	3400	19.720	104.475	57.882	104.473	0.002	57.882	0.000	104.473	0.002	57.881	0.001	400
	3600	19.736	105.603	61.827	105.600	0.003	61.828	-0.001	105.600	0.003	61.825	0.002	600
	3800	19.750	106.670	65.776	106.668	0.002	65.777	-0.001	106.668	0.002	65.774	0.002	800
	4000	19.762	107.683	69.727	107.681	0.002	69.729	-0.002	107.681	0.002	69.725	0.002	1000
	4200	19.772	108.648	73.681	108.646	0.002	73.682	-0.001	108.646	0.002	73.679	0.002	200
	4400	19.781	109.568	77.636	109.566	0.002	77.638	-0.002	109.566	0.002	77.635	0.001	400
	4600	19.789	110.447	81.593	110.445	0.002	81.594	-0.001	110.445	0.002	81.593	0.000	600
	4800	19.796	111.290	85.552	111.287	0.003	85.552	0.000	111.288	0.002	85.552	0.000	800
	5000	19.802	112.098	89.511	112.095	0.003	89.511	0.000	112.096	0.002	89.512	-0.001	1000
	5200	19.807	112.875	93.472	112.872	0.003	93.471	0.001	112.873	0.002	93.473	-0.001	200
	5400	19.812	113.622	97.434	113.620	0.002	97.432	0.002	113.620	0.002	97.435	-0.001	400
	5600	19.816	114.343	101.397	114.340	0.003	101.395	0.002	114.341	0.002	101.397	-0.000	600
	5800	19.820	115.038	105.360	115.036	0.002	105.360	0.000	115.036	0.002	105.360	0.000	800
	6000	19.823	115.710	109.325	115.708	0.002	109.327	-0.002	115.708	0.002	109.323	0.002	1000

DI-IMIDE

(G) H 2N 2

1265

MOL. WT. = 30.020 BLOCK = 4108 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 50.900 KEY = 868

FITS FOR NOTS RMS = 0.040080

2 1 2 7 0 0 0 0 0 0 0 DI-IMIDE (G) 10J1265 868
 +1.4203458E+1+3.1921730E+0-6.5569764E-1+4.6330645E-2 400 6000 11J1265 868
 -1.6726837E+0+4.2088546E+1+6.2349197E+1+5.0899993E+1H2N2 (G) 12J1265 868

FITS FOR EST RMS LCW = 0.068558 RMS HIGH = 0.005809

2 1 2 7 0 0 0 0 0 0 0 DI-IMIDE (G) 10H2N2

+508999+5+438067+5+162251+2+107365-2-208268+7+851029+2 4003000J126511H2N2

+508999+5+437754+5+199037+2-719606-5-872473+7+851029+230006000J126512H2N2

-----NOTS-----

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	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
1	400	9.784	54.932	0.941	55.787	-0.855	1.293	-0.352	56.012	-1.080	1.388	-0.447
20	600	11.882	59.307	3.114	59.217	0.090	3.027	0.087	59.190	0.117	3.005	0.109
36	800	13.548	62.964	5.664	62.838	0.126	5.557	0.107	62.807	0.157	5.533	0.131
49	1000	14.830	66.131	8.507	66.065	0.066	8.454	0.053	66.056	0.075	8.450	0.057
64	1200	15.818	68.926	11.576	68.905	0.021	11.571	0.005	68.911	0.015	11.585	-0.009
79	1400	16.576	71.424	14.819	71.424	0.000	14.841	-0.022	71.435	-0.011	14.861	-0.042
99	1600	17.161	73.677	18.195	73.683	-0.006	18.226	-0.031	73.692	-0.015	18.242	-0.047
126	1800	17.615	75.726	21.675	75.730	-0.004	21.702	-0.027	75.732	-0.006	21.707	-0.032
161	2000	17.970	77.601	25.235	77.600	0.001	25.253	-0.018	77.595	0.006	25.245	-0.010
203	2200	18.252	79.327	28.858	79.321	0.006	28.866	-0.008	79.311	0.016	28.846	0.012
266	2400	18.479	80.926	32.532	80.915	0.011	32.530	0.002	80.903	0.023	32.506	0.026
344	2600	18.663	82.412	36.247	82.399	0.013	36.238	0.009	82.390	0.022	36.221	0.026
441	2800	18.814	83.801	39.955	83.787	0.014	39.983	0.012	83.786	0.015	39.989	0.006
567	3000	18.939	85.103	43.771	85.089	0.014	43.758	0.013	85.103	0.000	43.807	-0.036
724	3000	18.939	85.103	43.771	85.089	0.014	43.758	0.013	85.103	0.000	43.775	-0.004
911	3200	19.043	86.329	47.569	86.315	0.014	47.559	0.010	86.327	0.002	47.570	-0.001
1111	3400	19.132	87.486	51.387	87.474	0.012	51.380	0.007	87.484	0.002	51.386	0.001
1322	3600	19.207	88.582	55.221	88.571	0.011	55.219	0.002	88.579	0.003	55.219	0.002
1522	3800	19.272	89.622	59.069	89.612	0.010	59.071	-0.002	89.620	0.002	59.067	0.002
1722	4000	19.327	90.612	62.929	90.603	0.009	62.935	-0.006	90.610	0.002	62.927	0.002
1922	4200	19.376	91.556	66.799	91.548	0.008	66.807	-0.008	91.554	0.002	66.798	0.001
2111	4400	19.418	92.459	70.679	92.450	0.009	70.687	-0.008	92.456	0.003	70.678	0.001
2311	4600	19.455	93.323	74.566	93.314	0.009	74.573	-0.007	93.321	0.002	74.566	-0.000
2500	4800	19.488	94.151	78.461	94.142	0.009	78.464	-0.003	94.149	0.001	78.461	-0.000
2601	5000	19.517	94.948	82.361	94.937	0.011	82.361	0.000	94.946	0.002	82.362	-0.001
2701	5200	19.543	95.714	86.268	95.702	0.011	86.263	0.005	95.712	0.002	86.268	-0.000
2801	5400	19.567	96.452	90.179	96.440	0.012	90.171	0.008	96.450	0.002	90.179	-0.000
2900	5600	19.588	97.164	94.094	97.152	0.012	94.087	0.007	97.162	0.002	94.094	-0.001
3001	5800	19.607	97.851	98.014	97.841	0.010	98.012	0.002	97.849	0.002	98.013	0.001
3202	6000	19.624	98.516	101.937	98.508	0.008	101.948	-0.011	98.514	0.002	101.935	0.002

1265

22J1265 871

-126136+6+350334+5+148342+2-388421-4-290745+7+398559+2 4006000J126522HGO*

-----EST-----

	DB	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
56	-0.090	400	10.169	14.844	0.978	14.863	-0.019	1.012	-0.034	18.992	-4.148	2.936	-1.958
86	0.028	600	11.285	19.209	3.138	19.355	-0.146	3.227	-0.089	19.951	-0.742	3.476	-0.338
59	0.022	800	11.856	22.540	5.457	22.589	-0.049	5.477	-0.020	22.444	0.096	5.226	0.231
95	0.006	1000	12.232	25.228	7.867	25.192	0.036	7.812	0.055	24.929	0.299	7.459	0.408
95	-0.003	1200	12.507	27.484	10.343	27.405	0.079	10.240	0.103	27.181	0.303	9.932	0.411
39	-0.007	1400	12.664	29.424	12.860	29.344	0.080	12.757	0.103	29.193	0.231	12.543	0.317
12	-0.006	1600	12.821	31.125	15.408	31.077	0.048	15.354	0.054	30.992	0.133	15.239	0.169
06	-0.004	1800	12.978	32.645	17.988	32.647	-0.002	18.020	-0.032	32.612	0.033	17.990	-0.002
16	-0.001	2000	13.136	34.020	20.600	34.083	-0.063	20.747	-0.147	34.082	-0.062	20.781	-0.181
38	0.002	2200	14.500	35.359	23.412	35.406	-0.047	23.523	-0.111	35.425	-0.066	23.599	-0.187
71	0.003	2400	14.500	36.620	26.312	36.632	-0.012	26.341	-0.029	36.660	-0.040	26.438	-0.126
12	0.004	2600	14.500	37.781	29.212	37.773	0.008	29.192	0.020	37.802	-0.021	29.292	-0.080
62	0.001	2800	14.500	38.856	32.112	38.838	0.018	32.068	0.044	38.864	-0.008	32.158	-0.046
20	-0.005	3000	14.500	39.856	35.012	39.837	0.019	34.963	0.049	39.856	0.000	35.033	-0.021
18	-0.003	3200	14.500	40.792	37.912	40.774	0.018	37.869	0.043	40.786	0.006	37.916	-0.004
71	-0.001	3400	14.500	41.671	40.812	41.658	0.013	40.783	0.029	41.661	0.010	40.803	0.009
28	0.001	3600	14.500	42.500	43.712	42.491	0.009	43.699	0.013	42.488	0.012	43.696	0.016
89	0.001	3800	14.500	43.284	46.612	43.279	0.005	46.615	-0.003	43.271	0.013	46.591	0.021
52	0.001	4000	14.500	44.027	49.512	44.026	0.001	49.527	-0.015	44.014	0.013	49.489	0.023
17	0.002	4200	14.500	44.735	52.412	44.735	-0.001	52.435	-0.023	44.722	0.013	52.390	0.022
84	0.001	4400	14.500	45.409	55.312	45.410	-0.001	55.336	-0.024	45.397	0.012	55.292	0.020
53	0.001	4600	14.500	46.054	58.212	46.054	-0.000	58.232	-0.020	46.042	0.012	58.195	0.017
23	0.000	4800	14.500	46.671	61.112	46.669	0.002	61.124	-0.012	46.660	0.011	61.099	0.013
94	-0.001	5000	14.500	47.263	64.012	47.259	0.004	64.012	-0.000	47.253	0.010	64.004	0.008
65	-0.000	5200	14.500	47.832	66.912	47.825	0.007	66.901	0.011	47.822	0.010	66.908	0.004
38	-0.001	5400	14.500	48.379	69.812	48.371	0.008	69.793	0.019	48.370	0.009	69.813	-0.001
11	-0.001	5600	14.500	48.906	72.712	48.899	0.007	72.693	0.019	48.899	0.007	72.718	-0.006
84	-0.000	5800	14.500	49.415	75.612	49.410	0.005	75.607	0.005	49.408	0.007	75.623	-0.011
58	0.000	6000	14.500	49.907	78.512	49.907	-0.000	78.541	-0.029	49.901	0.006	78.527	-0.015
32	0.001												

DICHLOOROBORANE

(G)

B 1CL 2H 1 0 0 0

366

MOL. WT. = 82.720

BLOCK = 4133

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -59.300 KEY = 873

FITS FOR NOTS RMS = 0.017136

1 1 1 5 2 17 0 0 0 0 0 DICHLOOROBORANE (G) 10J 366 873
 +1.7931472E+1+1.1285142E+0-2.3753374E-1+1.7107695E-2 400 6000 11J 366 873
 -1.1603240E+0-6.8002441E+1+8.0586639E+1-5.9299987E+1BCL2H(G) 12J 366 873

FITS FOR EST RMS LOW = 0.028153 RMS HIGH = 0.005877

1 1 1 5 2 17 0 0 0 0 0 DICHLOOROBORANE (G) 10BCL2H
 -592999+5+487837+5+186402+2+372287-3-129974+7+102826+3 4003000J 36611BCL2H
 -592999+5+487743+5+199756+2-157546-4-396825+7+102826+330006000J 36612BCL2H

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.180	400	13.499	67.818	1.295	68.215	-0.397	1.456	-0.161	68.290	-0.472	1.490	-0.195	
0.046	600	15.564	73.723	4.222	73.674	0.049	4.177	0.045	73.666	0.057	4.172	0.050	
0.051	800	16.768	78.379	7.465	78.322	0.057	7.415	0.050	78.313	0.066	7.410	0.054	
0.020	1000	17.551	82.210	10.902	82.182	0.028	10.879	0.023	82.182	0.028	10.881	0.021	
-0.005	1200	18.088	85.461	14.469	85.452	0.009	14.467	0.002	85.456	0.005	14.474	-0.005	
-0.016	1400	18.469	88.279	18.127	88.279	0.000	18.135	-0.008	88.284	-0.005	18.144	-0.017	
-0.017	1600	18.745	90.764	21.849	90.766	-0.002	21.861	-0.012	90.770	-0.006	21.868	-0.019	
-0.011	1800	18.950	92.984	25.620	92.985	-0.001	25.630	-0.010	92.987	-0.003	25.632	-0.012	
-0.003	2000	19.106	94.990	29.426	94.988	0.002	29.433	-0.007	94.987	0.003	29.429	-0.003	
0.005	2200	19.226	96.816	33.260	96.813	0.003	33.262	-0.002	96.810	0.006	33.255	0.005	
0.010	2400	19.321	98.494	37.115	98.489	0.005	37.114	0.001	98.485	0.009	37.105	0.010	
0.009	2600	19.397	100.043	40.987	100.038	0.005	40.984	0.003	100.035	0.008	40.977	0.010	
0.002	2800	19.459	101.483	44.873	101.477	0.006	44.869	0.004	101.477	0.006	44.871	0.002	
-0.013	3000	19.509	102.827	48.770	102.821	0.006	48.766	0.004	102.827	0.000	48.784	-0.014	
-0.004	3000	19.509	102.827	48.770	102.821	0.006	48.766	0.004	102.827	0.000	48.774	-0.004	
-0.001	3200	19.551	104.088	52.676	104.082	0.006	52.673	0.003	104.086	0.002	52.677	-0.001	
0.001	3400	19.586	105.274	56.590	105.269	0.005	56.588	0.002	105.272	0.002	56.589	0.001	
0.002	3600	19.616	106.394	60.510	106.390	0.004	60.510	-0.000	106.392	0.002	60.508	0.002	
0.003	3800	19.641	107.456	64.436	107.452	0.004	64.437	-0.001	107.453	0.003	64.434	0.002	
0.002	4000	19.663	108.464	68.366	108.460	0.004	68.369	-0.003	108.461	0.003	68.364	0.002	
0.001	4200	19.682	109.424	72.301	109.420	0.004	72.304	-0.003	109.421	0.003	72.299	0.002	
0.001	4400	19.698	110.340	76.239	110.336	0.004	76.242	-0.003	110.337	0.003	76.238	0.001	
0.000	4600	19.713	111.215	80.180	111.212	0.003	80.182	-0.002	111.214	0.001	80.179	0.001	
-0.000	4800	19.725	112.055	84.124	112.050	0.005	84.125	-0.001	112.053	0.002	84.124	0.000	
-0.001	5000	19.737	112.860	88.070	112.856	0.004	88.069	0.001	112.858	0.002	88.070	-0.000	
-0.001	5200	19.747	113.634	92.018	113.630	0.004	92.016	0.002	113.633	0.001	92.019	-0.001	
-0.001	5400	19.755	114.380	95.968	114.375	0.005	95.965	0.003	114.378	0.002	95.969	-0.001	
-0.000	5600	19.763	115.098	99.920	115.093	0.005	99.917	0.003	115.097	0.001	99.921	-0.001	
0.001	5800	19.771	115.792	103.874	115.788	0.004	103.873	0.001	115.790	0.002	103.873	0.001	
0.002	6000	19.777	116.462	107.829	116.459	0.003	107.833	-0.004	116.460	0.002	107.827	0.002	

BORON DIHYDROXIDE DIMERIC

(C)

B 2H 40 4 0 0 0

366

MOL. WT.= 89.650 BLOCK= 4145 NO. POINT = 14

DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -337.100 KEY = 875

FITS FOR NOTS RMS = 0.001740

4 1 2 5 4 8 0 0 0 0 0 BORON DIHYDROXIDE DIMERIC (C) 30J 366 875
+1.8921585E+1+5.5837554E+1-2.1284729E+1+2.4981451E+0 400 1500 31J 366 875
-6.5872192E-1-3.4717309E+2+3.3697647E+1-3.3709985E+2B2H4O4(C) 32J 366 875

FITS FOR EST RMS LOW = 0.036811 RMS HIGH = 0.036811

4 1 2 5 4 8 0 0 0 0 0 BORON DIHYDROXIDE DIMERIC (C) 30B2H4O4\$
-337099+6+172906+6+447427+2+136487-1-325153+7+155081+3 4001500J 36631B2H4O4\$
-337099+6+172906+6+447427+2+136487-1-325153+7+155081+3 4001500J 36632B2H4O4\$

-----NOTS-----

-----EST-----

T /K	CP		S		H		SC		DS		HC		DH		SC		DS		HC		DH	
	K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	C/H-K	C/H-K	C/H-K	C/H-K	KC/H	KC/H	KC/H	KC/H	C/H-K	C/H-K	C/H-K	C/H-K	KC/H	KC/H	KC/H	KC/H
860	400	34.210	39.097	3.169	39.104	-0.007	3.171	-0.002	39.423	-0.326	3.293	-0.124										
205	500	39.140	47.272	6.842	47.262	0.010	6.837	0.005	47.114	0.158	6.756	0.086										
251	600	43.430	54.797	10.976	54.798	-0.001	10.977	-0.001	54.649	0.148	10.897	0.079										
111	700	47.090	61.773	15.505	61.778	-0.005	15.509	-0.004	61.713	0.060	15.484	0.021										
013	800	50.290	68.276	20.379	68.275	0.001	20.379	0.000	68.275	0.001	20.401	-0.022										
079	900	52.930	74.354	25.542	74.351	0.003	25.540	0.002	74.377	-0.023	25.584	-0.042										
090	1000	55.290	80.056	30.956	80.055	0.001	30.955	0.001	80.074	-0.018	30.994	-0.038										
063	1100	57.360	85.425	36.591	85.426	-0.001	36.592	-0.001	85.421	0.004	36.606	-0.015										
020	1200	59.140	90.494	42.418	90.495	-0.001	42.420	-0.002	90.465	0.029	42.403	0.015										
023	1300	60.660	95.289	48.410	95.290	-0.001	48.410	-0.000	95.244	0.045	48.375	0.035										
051	1400	61.900	99.832	54.541	99.831	0.001	54.539	0.002	99.792	0.040	54.513	0.027										
050	1500	62.860	104.137	60.781	104.137	-0.000	60.782	-0.001	104.137	0.000	60.812	-0.031										
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LITHIUM CARBONATE (C) C 1LI 20 3 0 0 0 366
 MOL. WT. = 73.880 BLOCK = 4147 NO. POINT = 22
 DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -290.640 KEY = 876
 FITS FOR NOTS RMS = 0.112859
 1 6 3 8 2 71 0 0 0 0 0 LITHIUM CARBONATE (C) 30J 366 876
 .0190567E+1+1.6253605E+2-8.7964508E+1+1.6069656E+1 400 2000 31J 366 876
 .4568634E+0-2.6588208E+2-5.9281326E+1-2.9063989E+2CLI2O3 (C) 32J 366 876

FITS FOR EST RMS LOW = 0.235941 RMS HIGH = 0.235941
 1 6 3 8 2 71 0 0 0 0 0 LITHIUM CARBONATE (C) 30CLI2O3\$
 290639+6+134957+6+498055+2+349087-2-613814+7+121389+3 4002000J 36631CLI2O3\$
 290639+6+134957+6+498055+2+349087-2-613814+7+121389+3 4002000J 36632CLI2O3\$

DH KC/M	-----NOTS-----								-----EST-----				
	T K	CP C/H-K	S C/H-K	H KC/M	SC C/H-K	DS C/H-K	HC KC/M	DH KC/M	SC C/H-K	DS C/H-K	HC KC/M	DH KC/M	
-0.124	400	26.810	28.860	2.543	28.155	0.705	2.305	0.238	30.801	-1.941	3.333	-0.790	4
0.086	500	30.820	35.259	5.418	35.761	-0.502	5.708	-0.290	35.358	-0.099	5.402	0.016	5
0.079	600	35.700	41.295	8.736	41.893	-0.598	9.073	-0.337	41.037	0.258	8.528	0.208	6
0.021	700	33.670	48.033	13.127	47.428	0.605	12.668	0.459	46.802	1.231	12.274	0.853	7
-0.022	800	38.000	52.811	16.711	52.638	0.173	16.573	0.138	52.334	0.477	16.420	0.291	8
-0.042	900	42.310	57.535	20.726	57.605	-0.070	20.793	-0.067	57.543	-0.008	20.845	-0.119	9
-0.038	1000	46.540	62.225	25.181	62.351	-0.126	25.299	-0.118	62.419	-0.194	25.475	-0.294	10
-0.015	1100	49.220	66.795	29.978	66.876	-0.081	30.049	-0.071	66.983	-0.188	30.264	-0.286	11
0.015	1200	50.830	71.152	34.986	71.178	-0.026	34.995	-0.009	71.260	-0.108	35.181	-0.195	12
0.035	1300	51.760	75.259	40.118	75.256	0.003	40.090	0.028	75.281	-0.022	40.205	-0.087	13
0.027	1400	52.420	79.120	45.329	79.113	0.007	45.295	0.034	79.071	0.049	45.319	0.010	14
-0.031	1500	52.840	82.752	50.592	82.753	-0.001	50.571	0.021	82.654	0.098	50.514	0.078	15
	1600	53.200	86.174	55.896	86.187	-0.013	55.892	0.004	86.052	0.122	55.780	0.116	16
	1700	53.400	89.405	61.226	89.426	-0.021	61.236	-0.010	89.284	0.121	61.111	0.115	17
	1800	53.600	92.463	66.576	92.487	-0.024	66.591	-0.015	92.365	0.098	66.501	0.074	18
	1900	53.800	95.367	71.946	95.386	-0.019	71.952	-0.006	95.310	0.057	71.948	-0.002	19
	2000	54.000	98.131	77.336	98.142	-0.011	77.327	0.009	98.131	0.000	77.448	-0.112	20

LITHIUM CARBONATE

(L)

C 1LI 20 3 0 0 0

366

MOL. WT. = 73.880 BLOCK = 4149 NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM(KCAL/(HOLE)) = -281.629 KEY = 877

FITS FOR NOTS RMS = 0.036912

1 6 3 8 2 71 0 0 0 0 0 LITHIUM CARBONATE (L) 20J 366 877
+9.3535675E+1-7.0768432E+1+3.7098770E+1-6.7454490E+0 400 2000 21J 366 877
-8.6163330E+0-3.3302685E+2+1.2232641E+2-2.8162890E+2CL1203 (L) 22J 366 877

FITS FOR EST RMS LOW = 0.095212 RMS HIGH = 0.095212

1 6 3 8 2 71 0 0 0 0 0 LITHIUM CARBONATE (L) 20CL1203*
-281628+6+112672+6+511081+2-326463-2-368758+7+120116+3 4002000J 36621CL1203*
-281628+6+112672+6+511081+2-326463-2-368758+7+120116+3 4002000J 36622CL1203*

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/M	K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H
790	400	26.810	37.732	2.543	38.063	-0.331	2.644	-0.101	36.946	0.786	2.211	0.332
016	500	30.820	44.131	5.418	43.697	0.434	5.197	0.221	43.875	0.256	5.331	0.087
208	600	35.700	50.167	8.736	50.244	-0.077	8.798	-0.062	50.613	-0.446	9.033	-0.297
853	700	44.320	56.387	12.776	56.537	-0.150	12.885	-0.109	56.806	-0.419	13.054	-0.278
291	800	44.320	62.305	17.208	62.292	0.013	17.196	0.012	62.423	-0.118	17.261	-0.053
119	900	44.320	67.525	21.640	67.484	0.041	21.605	0.035	67.511	0.014	21.582	0.058
294	1000	44.320	72.195	26.072	72.167	0.028	26.050	0.022	72.137	0.058	25.973	0.099
286	1100	44.320	76.419	30.504	76.409	0.010	30.500	0.004	76.362	0.057	30.406	0.098
195	1200	44.320	80.275	34.936	80.275	-0.000	34.944	-0.008	80.239	0.036	34.862	0.074
087	1300	44.320	83.823	39.368	83.826	-0.003	39.379	-0.011	83.814	0.009	39.328	0.040
010	1400	44.320	87.107	43.800	87.108	-0.001	43.808	-0.008	87.125	-0.018	43.796	0.004
078	1500	44.320	90.165	48.232	90.161	0.004	48.234	-0.002	90.203	-0.038	48.258	-0.026
116	1600	44.320	93.026	52.664	93.019	0.007	52.661	0.003	93.076	-0.050	52.709	-0.045
115	1700	44.320	95.712	57.096	95.704	0.008	57.091	0.005	95.765	-0.053	57.145	-0.049
074	1800	44.320	98.246	61.528	98.239	0.007	61.525	0.003	98.291	-0.045	61.564	-0.036
002	1900	44.320	100.642	65.960	100.637	0.005	65.961	-0.001	100.670	-0.028	65.963	-0.003
112	2000	44.320	102.915	70.392	102.910	0.005	70.393	-0.001	102.915	0.000	70.341	0.051

T
K
100 2
500 2
1000 2
1500 2
2000 3
2500 3
3000 3
3500 3
4000 3
4500 3
5000 3
5500 3
6000 3
6500 3
7000 3
7500 3
8000 3
8500 3
9000 3
9500 3
10000 3

SODIUM CYANIDE DIMERIC (G) C 2N 2NA 2 0 0 0 366
 MOL. WT.= 98.010 BLCK= 4151 NO. POINT = 62
 ATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -2.100 KEY = 878
 ITS FOR NOTS RMS = 0.021374
 6 2 7 2 11 0 0 0 0 0 SODIUM CYANIDE DIMERIC (G) 10J 366 878
 .9599075E+1+1.2944765E+0-2.7510881E-1+1.9953593E-2 400 6000 11J 366 878
 .9267578E-1-1.3644143E+1+1.1466174E+2-2.0999994E+0C2N2NA2 (G) 12J 366 878

FITS FOR EST RMS LOW = 0.034146 RMS HIGH = 0.009558
 6 2 7 2 11 0 0 0 0 0 SODIUM CYANIDE DIMERIC (G) 10C2N2NA2
 .9999+4+813581+5+304057+2+424984-3-114835+7+150066+3 4003000J 36611C2N2NA2
 .9999+4+813488+5+319968+2-302036-4-460134+7+150066+330006000J 36612C2N2NA2

DH KC/M	-----NOTS-----						-----EST-----					
	T K	CP C/H-K	S C/H-K	H KC/M	SC C/H-K	DS C/H-K	HC KC/M	DH KC/M	SC C/H-K	DS C/H-K	HC KC/M	DH KC/M
0.332	100	26.716	90.647	2.676	91.139	-0.492	2.875	-0.199	91.222	-0.575	2.913	-0.237
0.087	100	27.867	101.710	8.141	101.649	0.061	8.084	0.057	101.642	0.068	8.080	0.061
-0.297	100	28.776	109.856	13.809	109.783	0.073	13.745	0.064	109.776	0.080	13.742	0.067
-0.278	100	29.482	116.357	19.638	116.322	0.035	19.608	0.030	116.323	0.034	19.612	0.026
-0.053	200	30.002	121.781	25.589	121.770	0.011	25.586	0.003	121.776	0.005	25.596	-0.007
0.058	400	30.381	126.436	31.629	126.435	0.001	31.640	-0.011	126.443	-0.007	31.650	-0.021
0.099	600	30.659	130.512	37.735	130.514	-0.002	37.749	-0.014	130.519	-0.007	37.757	-0.022
0.098	800	30.866	134.135	43.888	134.136	-0.001	43.900	-0.012	134.138	-0.003	43.902	-0.014
0.074	1000	31.024	137.396	50.078	137.394	0.002	50.085	-0.007	137.393	0.003	50.081	-0.003
0.040	200	31.145	140.359	56.295	140.355	0.004	56.298	-0.003	140.351	0.008	56.289	0.006
0.004	400	31.241	143.073	62.534	143.067	0.006	62.533	0.001	143.063	0.010	62.522	0.012
-0.026	600	31.318	145.577	68.791	145.570	0.007	68.787	0.004	145.567	0.010	68.779	0.012
-0.045	800	31.380	147.900	75.060	147.893	0.007	75.056	0.004	147.894	0.006	75.058	0.002
-0.049	1000	31.431	150.067	81.342	150.060	0.007	81.337	0.005	150.067	0.000	81.358	-0.016
-0.036	200	31.431	150.067	81.342	150.060	0.007	81.337	0.005	150.067	0.000	81.349	-0.007
-0.003	400	31.473	152.097	87.632	152.090	0.007	87.629	0.003	152.095	0.002	87.634	-0.002
0.051	600	31.508	154.006	93.930	154.000	0.006	93.929	0.001	154.003	0.003	93.928	0.001
	800	31.538	155.807	100.235	155.802	0.005	100.236	-0.001	155.804	0.003	100.231	0.003
	1000	31.563	157.513	106.545	157.509	0.004	106.548	-0.003	157.510	0.003	106.541	0.004
	200	31.585	159.133	112.860	159.128	0.005	112.864	-0.004	159.130	0.003	112.857	0.003
	400	31.604	160.674	119.179	160.670	0.004	119.184	-0.005	160.672	0.002	119.176	0.003
	600	31.621	162.145	125.502	162.141	0.004	125.506	-0.004	162.142	0.003	125.500	0.002
	800	31.635	163.551	131.827	163.546	0.005	131.830	-0.003	163.549	0.002	131.827	0.000
	1000	31.648	164.898	138.156	164.893	0.005	138.157	-0.001	164.895	0.003	138.156	0.000
	200	31.659	166.190	144.486	166.184	0.006	144.486	0.000	166.188	0.002	144.487	-0.001
	400	31.669	167.432	150.819	167.426	0.006	150.816	0.003	167.430	0.002	150.821	-0.002
	600	31.678	168.627	157.154	168.621	0.006	157.150	0.004	168.625	0.002	157.155	-0.001
	800	31.686	169.779	163.490	169.773	0.006	163.487	0.003	169.777	0.002	163.491	-0.001
	1000	31.694	170.891	169.828	170.886	0.005	169.827	0.001	170.889	0.002	169.828	0.000
	200	31.700	171.966	176.168	171.961	0.005	176.173	-0.005	171.963	0.003	176.165	0.003

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CUPROUS CHLORIDE

(C) CL 1CU 1 0 0 0 0

366

MOL. WT.= 98.990

BLOCK= 4158

NO. POINT = 14

DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -33.000 KEY = 879

FITS FOR NOTS RMS = 0.000143

1 17 1 29 0 0 0 0 0 0 0 CUPROUS CHLORIDE (C) 30J 366 879
+1.3950285E+1+3.2545242E+0-1.9910621E+0+5.4193902E-1 400 1500 31J 366 879
-2.1664142E-1-3.8042022E+1+3.5491470E+1-3.3000000E+1CLCU (C) 32J 366 879

FITS FOR EST RMS LOW = 0.000383 RMS HIGH = 0.000383

1 17 1 29 0 0 0 0 0 0 0 CUPROUS CHLORIDE (C) 30CLCU\$
-330000+5+431966+5+150747+2+754809-3-293914+6+559792+2 4001500J 36631CLCU\$
-330000+5+431966+5+150747+2+754809-3-293914+6+559792+2 4001500J 36632CLCU\$

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DH

KC/M

0.237

0.061

0.067

0.026

0.007

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0.022

0.014

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0.012

0.012

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0.001

0.001

0.000

0.003

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	13.600	24.540	1.301	24.540	-0.000	1.301	-0.000	24.545	-0.005	1.303	-0.002
500	14.300	27.656	2.699	27.656	-0.000	2.699	0.000	27.653	0.003	2.697	0.002
600	14.700	30.300	4.149	30.300	0.000	4.149	-0.000	30.298	0.002	4.148	0.001
700	15.000	32.589	5.635	32.589	-0.000	5.635	0.000	32.589	0.000	5.635	0.000
800	15.220	34.607	7.146	34.607	0.000	7.146	-0.000	34.607	0.000	7.147	-0.001
900	15.389	36.410	8.677	36.410	0.000	8.677	-0.000	36.410	0.000	8.677	-0.000
1000	15.540	38.039	10.224	38.039	-0.000	10.224	0.000	38.039	0.000	10.224	0.000
1100	15.662	39.526	11.784	39.526	-0.000	11.784	-0.000	39.526	0.000	11.784	0.000
1200	15.777	40.894	13.356	40.894	-0.000	13.356	-0.000	40.893	0.001	13.356	0.000
1300	15.884	42.161	14.939	42.161	0.000	14.939	0.000	42.160	0.001	14.939	0.000
1400	15.983	43.342	16.532	43.341	0.001	16.532	0.000	43.341	0.001	16.532	-0.000
1500	16.075	44.447	18.135	44.447	-0.000	18.135	-0.000	44.447	0.000	18.135	-0.000

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1000

COPPER MONOCHLORIDE (G) CL 1CU 1 0 0 0 0 366
 MOL. WT. = 98.990 BLOCK = 4162 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 21.770 KEY = 881
 FITS FOR NOTS RMS = 0.001711
 1 17 1 29 0 0 0 0 0 0 0 COPPER MONOCHLORIDE (G) 10J 366 881
 +8.9483489E+0+1.0970771E-1-9.1240770E-5+5.3797775E-5 400 6000 11J 366 881
 -6.0028076E-2+1.8904663E+1+6.7153411E+1+2.1769989E+1CLCU(G) 12J 366 881

FITS FOR EST RMS LOW = 0.000511 RMS HIGH = 0.003108
 1 17 1 29 0 0 0 0 0 0 0 COPPER MONOCHLORIDE (G) 10CLCU
 +217699+5+244931+5+894016+1+112549-3-560960+5+773159+2 4003000J 36611CLCU
 +217699+5+244956+5+900994+1+102022-3-500192+6+773159+230006000J 36612CLCU

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.001	400	8.657	59.179	0.871	59.186	-0.007	0.873	-0.002	59.182	-0.003	0.873	-0.002	
-0.000	600	8.854	62.733	2.625	62.732	0.001	2.623	0.002	62.732	0.001	2.625	-0.000	
0.000	800	8.942	65.293	4.406	65.291	0.002	4.403	0.003	65.292	0.001	4.406	0.000	
0.000	1000	8.996	67.295	6.200	67.293	0.002	6.198	0.002	67.294	0.001	6.200	-0.000	
0.000	1200	9.036	68.938	8.004	68.937	0.001	8.002	0.002	68.938	0.000	8.003	0.001	
0.000	1400	9.069	70.334	9.814	70.333	0.001	9.813	0.001	70.333	0.001	9.814	-0.000	
0.000	1600	9.098	71.547	11.631	71.546	0.001	11.630	0.001	71.546	0.001	11.631	0.000	
0.000	1800	9.126	72.620	13.453	72.620	0.000	13.453	0.000	72.620	0.000	13.453	-0.000	
0.000	2000	9.151	73.583	15.281	73.583	0.000	15.281	0.000	73.582	0.001	15.281	0.000	
0.000	2200	9.176	74.456	17.114	74.456	-0.000	17.114	0.000	74.456	0.000	17.114	0.000	
-0.000	2400	9.201	75.256	18.951	75.256	0.000	18.952	-0.001	75.255	0.001	18.951	-0.000	
-0.000	2600	9.224	75.993	20.794	75.993	-0.000	20.794	-0.000	75.993	0.000	20.794	0.000	
0.000	2800	9.248	76.678	22.641	76.678	0.000	22.642	-0.001	76.677	0.001	22.641	-0.000	
0.000	3000	9.271	77.316	24.493	77.317	-0.001	24.494	-0.001	77.316	0.000	24.493	-0.000	
	3000	9.271	77.316	24.493	77.317	-0.001	24.494	-0.001	77.316	0.000	24.496	-0.003	
	3200	9.294	77.916	26.350	77.916	0.000	26.350	-0.000	77.915	0.001	26.350	-0.001	
	3400	9.317	78.480	28.211	78.480	0.000	28.211	-0.000	78.478	0.002	28.211	0.000	
	3600	9.340	79.013	30.077	79.013	-0.000	30.077	-0.000	79.011	0.002	30.076	0.001	
	3800	9.363	79.519	31.947	79.519	0.000	31.947	-0.000	79.517	0.002	31.946	0.001	
	4000	9.386	79.999	33.822	80.000	-0.001	33.822	-0.000	79.998	0.001	33.821	0.001	
	4200	9.409	80.458	35.701	80.458	-0.000	35.702	-0.001	80.456	0.002	35.701	0.000	
	4400	9.431	80.896	37.585	80.896	-0.000	37.585	-0.000	80.895	0.001	37.585	-0.000	
	4600	9.454	81.316	39.474	81.316	0.000	39.474	0.000	81.314	0.002	39.474	0.000	
	4800	9.477	81.719	41.367	81.719	0.000	41.367	0.000	81.717	0.002	41.367	-0.000	
	5000	9.499	82.106	43.265	82.106	-0.000	43.264	0.001	82.105	0.001	43.265	-0.000	
	5200	9.522	82.479	45.167	82.479	-0.000	45.166	0.001	82.478	0.001	45.167	-0.000	
	5400	9.544	82.839	47.073	82.839	0.000	47.073	-0.000	82.838	0.001	47.074	-0.001	
	5600	9.567	83.186	48.984	83.186	-0.000	48.984	-0.000	83.185	0.001	48.985	-0.001	
	5800	9.589	83.522	50.900	83.522	-0.000	50.900	0.000	83.521	0.001	50.900	0.000	
	6000	9.612	83.848	52.820	83.848	0.000	52.820	-0.000	83.846	0.002	52.819	0.001	

COPPER DICHLORIDE (C) CL 2CU 1 0 0 0 0 366
 MOL. WT.= 134.440 BLOCK= 4168 NO. POINT = 17
 DATA FROM 0 TO 1500 K HFORM(KCAL/(MOLE)) = -49.200 KEY = 882
 FITS FOR NOTS RMS = 0.000205
 17 1 29 0 0 0 0 0 0 0 COPPER DICHLORIDE (C) 30J 366 882
 1.8040237E+1+2.7061424E+0-1.2365951E+0+3.4050297E-1 400 1500 31J 366 882
 1.6520881E-1-5.5230514E+1+4.6017669E+1-4.9199996E+1CL2CU (C) 32J 366 882

COPP
 MOL
 DATA
 FITS
 3 17 3
 +3.1809
 -2.0532

FITS FOR EST RMS LOW = 0.000277 RMS HIGH = 0.000277
 17 1 29 0 0 0 0 0 0 0 COPPER DICHLORIDE (C) 30CL2CUS
 491999+5+551897+5+187261+2+116955-2-212240+6+711188+2 4001500J 36631CL2CUS
 491999+5+551897+5+187261+2+116955-2-212240+6+711188+2 4001500J 36632CL2CUS

FITS
 3 17 3
 -617999
 -617999

-----NOTS-----												-----EST-----											
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	CP	S	H	SC	DS	HC	DH	T	CP	S	H
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K	C/M-K	KC/M
400	17.940	30.994	1.791	30.995	-0.001	1.791	0.000	30.998	-0.004	1.792	-0.001	400	17.940	30.994	1.791	30.995	-0.001	1.791	0.000	400	17.940	30.994	1.791
500	18.470	35.057	3.612	35.056	0.001	3.612	-0.000	35.055	0.002	3.611	0.001	500	18.470	35.057	3.612	35.056	0.001	3.612	-0.000	500	18.470	35.057	3.612
600	18.830	38.458	5.478	38.457	0.001	5.478	-0.000	38.456	0.002	5.478	0.000	600	18.830	38.458	5.478	38.457	0.001	5.478	-0.000	600	18.830	38.458	5.478
700	19.110	41.382	7.376	41.382	-0.000	7.376	0.000	41.382	0.000	7.376	0.000	700	19.110	41.382	7.376	41.382	-0.000	7.376	0.000	700	19.110	41.382	7.376
800	19.332	43.949	9.298	43.948	0.001	9.298	0.000	43.949	0.000	9.298	-0.000	800	19.332	43.949	9.298	43.948	0.001	9.298	0.000	800	19.332	43.949	9.298
900	19.516	46.236	11.240	46.236	-0.000	11.241	-0.001	46.236	-0.000	11.241	-0.001	900	19.516	46.236	11.240	46.236	-0.000	11.241	-0.001	900	19.516	46.236	11.240
1000	19.687	48.301	13.201	48.302	-0.001	13.201	0.000	48.301	-0.000	13.201	0.000	1000	19.687	48.301	13.201	48.302	-0.001	13.201	0.000	1000	19.687	48.301	13.201
1100	19.838	50.185	15.177	50.185	-0.000	15.177	-0.000	50.185	0.000	15.177	0.000	1100	19.838	50.185	15.177	50.185	-0.000	15.177	-0.000	1100	19.838	50.185	15.177
1200	19.983	51.917	17.168	51.917	-0.000	17.168	-0.000	51.917	-0.000	17.168	0.000	1200	19.983	51.917	17.168	51.917	-0.000	17.168	-0.000	1200	19.983	51.917	17.168
1300	20.122	53.522	19.173	53.522	-0.000	19.173	-0.000	53.522	0.000	19.173	-0.000	1300	20.122	53.522	19.173	53.522	-0.000	19.173	-0.000	1300	20.122	53.522	19.173
1400	20.256	55.018	21.192	55.018	-0.000	21.192	0.000	55.018	0.000	21.192	0.000	1400	20.256	55.018	21.192	55.018	-0.000	21.192	0.000	1400	20.256	55.018	21.192
1500	20.384	56.420	23.224	56.420	-0.000	23.224	-0.000	56.420	0.000	23.224	-0.000	1500	20.384	56.420	23.224	56.420	-0.000	23.224	-0.000	1500	20.384	56.420	23.224

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 4600 31
 4800 31
 5000 31
 5200 31
 5400 31
 5600 31
 5800 31
 6000 31

COPPER MONOCHLORIDE TRIMERIC (G) CL 3CU 3 0 0 0 0 366
 MOL. WT.= 296.970 BLOCK= 4170 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -61.800 KEY = 883
 FITS FOR NOTS RMS = 0.004785
 3 17 3 29 0 0 0 0 0 0 COPPER MONOCHLORIDE TRIMERIC (G) 10J 366 883
 +3.1809066E+1-1.9271485E-4-2.4659279E-3+3.7658447E-4 400 6000 11J 366 883
 -2.0532226E-1-7.1952072E+1+1.4003776E+2-6.1799987E+1CL3CU3 (G) 12J 366 883

FITS FOR EST RMS LOW = 0.000721 RMS HIGH = 0.009504
 3 17 3 29 0 0 0 0 0 0 COPPER MONOCHLORIDE TRIMERIC (G) 10CL3CU3
 -617999+5+853261+5+317951+2-750126-7-197360+6+174985+3 4003000J 36611CL3CU3
 -17999+5+853330+5+320063+2-308848-4-156620+7+174985+330006000J 36612CL3CU3

-----NOTS-----						-----EST-----					
T	CP	S	H	SC	NS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	30.621	111.515	3.081	111.533	-0.018	3.085	-0.004	111.528	-0.013	3.087	-0.006
600	31.256	124.076	9.281	124.074	0.002	9.275	0.006	124.077	-0.001	9.281	-0.000
800	31.488	133.104	15.559	133.099	0.005	15.551	0.008	133.104	-0.000	15.558	0.001
1000	31.598	140.144	21.869	140.139	0.005	21.861	0.008	140.143	0.001	21.868	0.001
1200	31.657	145.910	28.195	145.907	0.003	28.188	0.007	145.910	-0.000	28.194	0.001
1400	31.694	150.793	34.530	150.791	0.002	34.525	0.005	150.793	-0.000	34.529	0.001
1600	31.717	155.027	40.871	155.025	0.002	40.868	0.003	155.027	0.000	40.871	0.000
1800	31.733	158.764	47.216	158.763	0.001	47.214	0.002	158.764	0.000	47.216	-0.000
2000	31.745	162.108	53.564	162.107	0.001	53.563	0.001	162.108	0.000	53.564	-0.000
2200	31.754	165.134	59.914	165.134	0.000	59.914	-0.000	165.134	-0.000	59.914	-0.000
2400	31.760	167.897	66.266	167.898	-0.001	66.266	-0.000	167.897	-0.000	66.266	0.000
2600	31.765	170.440	72.618	170.440	-0.000	72.620	-0.002	170.440	0.000	72.618	-0.000
2800	31.769	172.794	78.972	172.795	-0.001	78.974	-0.002	172.794	0.000	78.972	0.000
3000	31.773	174.986	85.326	174.987	-0.001	85.328	-0.002	174.986	0.000	85.326	-0.000
3000	31.773	174.986	85.326	174.987	-0.001	85.328	-0.002	174.986	0.000	85.333	-0.007
3200	31.775	177.036	91.681	177.037	-0.001	91.683	-0.002	177.035	0.001	91.682	-0.001
3400	31.777	178.963	98.036	178.964	-0.001	98.038	-0.002	178.960	0.003	98.035	0.001
3600	31.779	180.779	104.392	180.780	-0.001	104.394	-0.002	180.776	0.003	104.389	0.003
3800	31.781	182.497	110.748	182.498	-0.001	110.749	-0.001	182.494	0.003	110.744	0.004
4000	31.782	184.128	117.104	184.128	-0.000	117.105	-0.001	184.125	0.003	117.101	0.003
4200	31.783	185.678	123.461	185.679	-0.001	123.462	-0.001	185.676	0.002	123.458	0.003
4400	31.784	187.157	129.817	187.157	-0.000	129.818	-0.001	187.154	0.003	129.816	0.001
4600	31.785	188.570	136.174	188.570	-0.000	136.174	-0.000	188.567	0.003	136.174	0.000
4800	31.786	189.923	142.531	189.923	0.000	142.531	-0.000	189.920	0.003	142.532	-0.001
5000	31.787	191.220	148.889	191.220	-0.000	148.888	0.001	191.218	0.002	148.890	-0.001
5200	31.787	192.467	155.246	192.467	-0.000	155.245	0.001	192.465	0.002	155.248	-0.002
5400	31.788	193.667	161.604	193.667	0.000	161.603	0.001	193.665	0.002	161.605	-0.001
5600	31.788	194.823	167.961	194.823	0.000	167.961	0.000	194.821	0.002	167.962	-0.001
5800	31.789	195.938	174.319	195.938	-0.000	174.319	0.000	195.936	0.002	174.318	0.001
6000	31.789	197.016	180.677	197.016	-0.000	180.678	-0.001	197.013	0.003	180.674	0.003

SODIUM HYDROXIDE DIMERIC (G) H 2NA 20 2 0 0 0 1270

MOL. WT. = 79.990 BLOCK = 4188 NO. POINT = 62

ATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = -145.200 KEY = 886

ITS FOR NOTS RMS = 0.034556

1 2 8 2 11 0 0 0 0 0 SODIUM HYDROXIDE DIMERIC (G) 10J1270 886

.5220489E+1+3.5475711E+0-7.0767152E-1+4.8972114E-2 400 6000 11J1270 886

.5141601E+0-1.5704219E+2+9.6954727E+1-1.4519999E+2H2NA2O2 (G) 12J1270 886

ITS FOR EST RMS LOW = 0.063089 RMS HIGH = 0.009494

1 2 8 2 11 0 0 0 0 0 SODIUM HYDROXIDE DIMERIC (G) 10H2NA2O2

45199+6+749565+5+274707+2+122480-2-198284+7+132656+3 4003000J127011H2NA2O2

45199+6+749291+5+318454+2-122631-4-108533+8+132656+330006000J127012H2NA2O2

DH		-----NOTS-----												-----EST-----	
KC/M		T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		
		K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		
128	-0.118	100	20.765	79.272	2.025	79.941	-0.669	2.300	-0.275	80.208	-0.936	2.415	-0.390		
186	0.019	100	23.434	88.236	6.465	88.179	0.057	6.403	0.062	88.149	0.087	6.379	0.086		
175	0.040	100	25.157	95.230	11.335	95.130	0.100	11.246	0.089	95.092	0.138	11.219	0.116		
131	0.024	100	26.381	100.981	16.495	100.922	0.059	16.443	0.052	100.909	0.072	16.438	0.057		
133	0.002	100	27.324	105.878	21.869	105.854	0.024	21.856	0.013	105.859	0.019	21.871	-0.002		
172	-0.012	100	28.073	110.148	27.412	110.145	0.003	27.424	-0.012	110.156	-0.008	27.447	-0.035		
143	-0.017	100	28.671	113.938	33.068	113.941	-0.003	33.112	-0.024	113.951	-0.013	33.132	-0.044		
143	-0.013	100	29.151	117.343	38.872	117.347	-0.004	38.896	-0.024	117.350	-0.007	38.905	-0.033		
171	-0.005	100	29.538	120.435	44.742	120.436	-0.001	44.760	-0.018	120.431	0.004	44.754	-0.012		
127	0.003	100	29.853	123.266	50.683	123.262	0.004	50.691	-0.008	123.252	0.014	50.673	0.010		
109	0.009	100	30.110	125.875	56.680	125.868	0.007	56.680	-0.000	125.854	0.021	56.655	0.025		
116	0.010	100	30.322	128.294	62.724	128.284	0.010	62.718	0.006	128.272	0.022	62.698	0.026		
150	0.003	100	30.498	130.547	68.806	130.536	0.011	68.797	0.009	130.533	0.014	68.799	0.007		
109	-0.014	100	30.646	132.657	74.921	132.645	0.012	74.911	0.010	132.657	0.000	74.956	-0.036		
198	-0.003	100	30.646	132.657	74.921	132.645	0.012	74.911	0.010	132.657	0.000	74.929	-0.008		
151	-0.000	100	30.771	134.639	81.063	134.628	0.011	81.054	0.009	134.637	0.002	81.064	-0.002		
119	0.000	100	30.877	136.507	87.228	136.497	0.010	87.222	0.006	136.504	0.003	87.226	0.002		
198	0.001	100	30.968	138.275	93.413	138.266	0.009	93.411	0.002	138.271	0.004	93.409	0.004		
186	0.001	100	31.046	139.951	99.614	139.944	0.007	99.617	-0.003	139.948	0.003	99.610	0.004		
194	0.000	100	31.114	141.546	105.831	141.539	0.007	105.836	-0.005	141.542	0.004	105.827	0.004		
109	-0.000	100	31.173	143.065	112.059	143.059	0.006	112.067	-0.008	143.062	0.003	112.057	0.002		
132	-0.000	100	31.225	144.517	118.299	144.510	0.007	118.307	-0.008	144.514	0.003	118.298	0.001		
162	0.000	100	31.271	145.906	124.549	145.899	0.007	124.556	-0.007	145.903	0.003	124.549	0.000		
198	-0.000	100	31.312	147.237	130.808	147.230	0.007	130.811	-0.003	147.235	0.002	130.808	-0.000		
140	-0.000	100	31.348	148.516	137.074	148.508	0.008	137.073	0.001	148.514	0.002	137.075	-0.001		
188	-0.000	100	31.380	149.746	143.347	149.738	0.008	143.342	0.005	149.744	0.002	143.348	-0.001		
142	-0.000	100	31.409	150.931	149.626	150.922	0.009	149.618	0.008	150.929	0.002	149.627	-0.001		
101	-0.000	100	31.435	152.074	155.910	152.065	0.009	155.903	0.007	152.072	0.002	155.910	-0.000		
165	0.001	100	31.459	153.178	162.200	153.169	0.009	162.198	0.002	153.175	0.003	162.199	0.001		
		100	31.480	154.244	168.493	154.238	0.006	168.504	-0.011	154.242	0.002	168.491	0.002		

BERYLLIUM MONOBORATE

(G)

B 1BE 10 2

666

MOL. WT. = 51.820 BLOCK = 4201 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -115.200 KEY = 888

FITS FOR NOTS RMS = 0.013372

4 1 5 2 8 0 0 0 0 0 BERYLLIUM MONOBORATE (G) 10J 666 888
 1.8718582E+1+6.9263327E-1-1.4913481E-1+1.0920949E-2 400 6000 11J 666 898
 1.1904907E+0-1.2426690E+2+8.0687789E+1-1.1519999E+2BBEO2 (G) 12J 666 888

FITS FOR EST RMS LOW = 0.020869 RMS HIGH = 0.006007

4 1 5 2 8 0 0 0 0 0 BERYLLIUM MONOBORATE (G) 10BBEO2
 115199+6+494935+5+191473+2+225488-3-127188+7+102827+3 4003000J 66611BBEO2
 115199+6+494883+5+199916+2-177701-4-310374+7+102827+330006000J 66612BBEO2

DH		-----NOTS-----												-----EST-----			
KC/M		T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
		K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
3	-0.144	400	13.741	67.185	1.315	67.522	-0.337	1.449	-0.134	67.566	-0.381	1.470	-0.155				
4	0.040	600	15.951	73.213	4.306	73.169	0.049	4.263	0.043	73.166	0.052	4.262	0.044				
9	0.038	800	17.212	77.995	7.633	77.949	0.046	7.593	0.040	77.947	0.048	7.593	0.040				
5	0.012	000	17.980	81.925	11.158	81.905	0.020	11.141	0.017	81.907	0.018	11.145	0.013				
7	-0.005	200	18.471	85.250	14.807	85.244	0.006	14.806	0.001	85.249	0.001	14.812	-0.005				
2	-0.012	400	18.799	88.123	18.536	88.123	-0.000	18.542	-0.006	88.128	-0.005	18.549	-0.013				
0	-0.012	600	19.027	90.649	22.319	90.650	-0.001	22.328	-0.009	90.654	-0.005	22.332	-0.013				
9	-0.008	800	19.191	92.900	26.142	92.900	-0.000	26.149	-0.007	92.902	-0.002	26.150	-0.008				
3	-0.002	000	19.312	94.929	29.993	94.927	0.002	29.997	-0.004	94.927	0.002	29.994	-0.001				
7	0.004	200	19.404	96.774	33.865	96.771	0.003	33.866	-0.001	96.770	0.004	33.861	0.004				
9	0.006	400	19.475	98.466	37.753	98.462	0.004	37.752	0.001	98.460	0.006	37.746	0.007				
5	0.006	600	19.532	100.027	41.654	100.022	0.005	41.651	0.003	100.021	0.006	41.647	0.007				
6	0.001	800	19.577	101.476	45.565	101.471	0.005	45.562	0.003	101.472	0.004	45.564	0.001				
9	-0.009	000	19.614	102.828	49.484	102.823	0.005	49.481	0.003	102.828	0.000	49.494	-0.010				
4	-0.004	200	19.614	102.828	49.484	102.823	0.005	49.481	0.003	102.828	0.000	49.488	-0.004				
0	-0.001	400	19.644	104.095	53.410	104.091	0.004	53.408	0.002	104.094	0.001	53.411	-0.001				
3	0.001	600	19.670	105.286	57.342	105.283	0.003	57.341	0.001	105.285	0.001	57.340	0.001				
1	0.002	800	19.691	106.411	61.278	106.408	0.003	61.278	-0.000	106.410	0.001	61.276	0.002				
3	0.002	000	19.709	107.477	65.218	107.473	0.004	65.219	-0.001	107.475	0.002	65.215	0.003				
9	0.002	200	19.725	108.488	69.161	108.485	0.003	69.163	-0.002	108.486	0.002	69.159	0.002				
7	0.001	400	19.738	109.451	73.108	109.448	0.003	73.110	-0.002	109.449	0.002	73.106	0.002				
9	0.001	600	19.750	110.369	77.056	110.366	0.003	77.059	-0.003	110.367	0.002	77.055	0.001				
2	-0.000	800	19.760	111.247	81.007	111.244	0.003	81.009	-0.002	111.246	0.001	81.007	0.000				
7	-0.000	000	19.769	112.088	84.960	112.085	0.003	84.961	-0.001	112.087	0.001	84.960	-0.001				
4	-0.001	200	19.777	112.896	88.915	112.892	0.004	88.914	0.001	112.894	0.002	88.916	-0.001				
1	-0.001	400	19.784	113.671	92.871	113.668	0.003	92.869	0.002	113.670	0.001	92.872	-0.001				
0	-0.001	600	19.790	114.418	96.829	114.414	0.004	96.826	0.003	114.417	0.001	96.829	-0.000				
9	-0.000	800	19.796	115.138	100.787	115.134	0.004	100.785	0.002	115.137	0.001	100.788	-0.001				
9	0.001	000	19.801	115.833	104.747	115.829	0.004	104.747	0.000	115.831	0.002	104.746	0.001				
9	0.001	200	19.806	116.504	108.708	116.501	0.003	108.711	-0.003	116.502	0.002	108.706	0.002				

DIBORON MONOXIDE (G) 3 20 1 0 0 0 0 666
 MOL. WT.= 37.620 BLOCK= 4207 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 23.000 KEY = 889
 FITS FOR NOTS RMS = 0.011297
 2 5 1 8 0 0 0 0 0 0 DIBORON MONOXIDE (G) 10J 666 889
 +1.2976273E+1+5.6526970E-1-1.2243109E-1+9.0111270E-3 400 6000 11J 666 889
 -8.2785034E-1+1.6785781E+1+6.6581451E+1+2.3000000E+1B20(G) 12J 666 889

FITS FOR EST RMS LOW = 0.017708 RMS HIGH = 0.004205
 2 5 1 8 0 0 0 0 0 0 DIBORON MONOXIDE (G) 10B20
 +230000+5+346249+5+133278+2+182393-3-894256+6+821129+2 4003000J 66611B20
 +230000+5+346202+5+139896+2-116244-4-225259+7+821129+230006000J 66612B20

-----NOTS-----													
-----EST-----													
OH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.155	400	9.903	57.205	0.972	57.495	-0.290	1.089	-0.117	57.529	-0.324	1.104	-0.132	T
0.044	600	11.121	61.462	3.080	61.420	0.042	3.045	0.035	61.417	0.045	3.042	0.038	K
0.040	800	11.966	64.786	5.395	64.747	0.039	5.363	0.032	64.744	0.042	5.361	0.034	0.00
0.013	1000	12.514	67.519	7.847	67.502	0.017	7.834	0.013	67.503	0.016	7.836	0.011	0.00
0.005	1200	12.873	69.835	10.388	69.830	0.005	10.388	-0.000	69.833	0.002	10.392	-0.004	0.00
0.013	1400	13.115	71.838	12.988	71.838	-0.000	12.994	-0.006	71.842	-0.004	12.999	-0.011	700
0.013	1600	13.284	73.601	15.629	73.602	-0.001	15.636	-0.007	73.605	-0.004	15.639	-0.010	800
0.008	1800	13.405	75.173	18.298	75.173	-0.000	18.304	-0.006	75.174	-0.001	18.305	-0.007	900
0.001	2000	13.495	76.590	20.989	76.589	0.001	20.992	-0.003	76.589	0.001	20.990	-0.001	1000
0.004	2200	13.563	77.880	23.695	77.878	0.002	23.696	-0.001	77.876	0.004	23.692	0.003	1100
0.007	2400	13.616	79.063	26.413	79.059	0.004	26.412	0.001	79.057	0.006	26.407	0.006	1200
0.007	2600	13.658	80.154	29.141	80.150	0.004	29.139	0.002	80.149	0.005	29.135	0.006	1300
0.001	2800	13.692	81.168	31.876	81.164	0.004	31.873	0.003	81.164	0.004	31.875	0.001	1400
0.010	3000	13.719	82.113	34.617	82.109	0.004	34.615	0.002	82.113	0.000	34.625	-0.008	1500
0.004	3000	13.719	82.113	34.617	82.109	0.004	34.615	0.002	82.113	0.000	34.620	-0.003	
0.001	3200	13.742	82.999	37.363	82.996	0.003	37.362	0.001	82.998	0.001	37.364	-0.001	
0.001	3400	13.760	83.833	40.114	83.830	0.003	40.113	0.001	83.832	0.001	40.113	0.001	
0.002	3600	13.776	84.620	42.867	84.617	0.003	42.868	-0.001	84.618	0.002	42.866	0.001	
0.003	3800	13.790	85.365	45.624	85.362	0.003	45.625	-0.001	85.364	0.001	45.622	0.002	
0.002	4000	13.801	86.073	48.383	86.070	0.003	48.385	-0.002	86.071	0.002	48.381	0.002	
0.002	4200	13.811	86.746	51.144	86.744	0.002	51.146	-0.002	86.745	0.001	51.143	0.001	
0.001	4400	13.820	87.389	53.907	87.386	0.003	53.909	-0.002	87.388	0.001	53.907	0.000	
0.000	4600	13.828	88.004	56.672	88.001	0.003	56.673	-0.001	88.002	0.002	56.672	0.000	
0.001	4800	13.834	88.592	59.438	88.589	0.003	59.439	-0.001	88.591	0.001	59.438	-0.000	
0.001	5000	13.840	89.157	62.206	89.154	0.003	62.205	0.001	89.156	0.001	62.206	-0.000	
0.001	5200	13.845	89.700	64.974	89.697	0.003	64.973	0.001	89.699	0.001	64.975	-0.001	
0.000	5400	13.850	90.223	67.744	90.219	0.004	67.742	0.002	90.221	0.002	67.744	-0.001	
0.001	5600	13.854	90.726	70.514	90.723	0.003	70.513	0.001	90.725	0.001	70.515	-0.001	
0.001	5800	13.858	91.213	73.286	91.209	0.004	73.285	0.001	91.211	0.002	73.286	0.000	
0.002	6000	13.861	91.683	76.058	91.680	0.003	76.061	-0.003	91.681	0.002	76.057	0.001	

666

MOL. WT. = 72.940 BLOCK = 4214 NO. POINT = 14

DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -390.240 KEY = 890

FITS FOR NOTS RMS = 0.002275

4 3 9 1 71 0 0 0 0 0 LITHIUM BERYLLIUM TRIPLUORIDE (C) 30J 666 890

.6369415E+1+1.5711017E+1-8.8334341E+0+2.2082118E+0 400 1500 31J 666 890

0868988E+0-4.0216992E+2+4.3396438E+1-3.9023999E+2BEF3LI (C) 32J 666 890

PITS FOR EST RMS LOW = 0.003939 RMS HIGH = 0.003939

4 3 9 1 7 1 0 0 0 0 0 LITHIUM BERYLLIUM TRIFLUORIDE (C) 30BEF3LIS

90239+6+991380+5+321667+2+370846-2-153126+7+980467+2 4001500J 66631BEF3LIS

00239+6+991380+5+321667+2+370846-2-153126+7+980467+2 4001500J 66632BEF3LI\$

DH

RC/D

4 -0.132

2 0.038

1 0.034

6 0.011

2 -0.004

9 -0.011

9 -0.010

5 -0.007

0 - 0.001

2 0.003

7 0.006

5 0.006

5 0.001

5 -0-008

0 -0.003

4 -0.001

3 0.001

5	0.001
6	0.001

8	0.001
7	0.002

2	0.002
1	0.002

3 0.001

5	0.001
7	0.000

7	0.000
2	0.000

2	0.000
9	-0.000

6 -0.000
6 -0.000

5 -0.001

4 -0.001

5 -0.001

5	-0.001
6	0.000

6	0.000
7	0.001

7 0.901

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
000	25.200	28.244	2.414	28.256	-0.012	2.418	-0.004	28.292	-0.048	2.431	-0.017
000	27.800	34.154	5.068	34.136	0.018	5.059	0.009	34.118	0.036	5.049	0.019
000	30.000	39.426	7.962	39.431	-0.005	7.967	-0.005	39.418	0.008	7.959	0.003
000	31.640	44.180	11.049	44.186	-0.006	11.053	-0.004	44.183	-0.003	11.052	-0.003
000	32.770	48.482	14.271	48.480	0.002	14.270	0.001	48.483	-0.001	14.273	-0.002
000	33.620	52.392	17.592	52.388	0.004	17.589	0.003	52.391	0.001	17.593	-0.001
000	34.330	55.971	20.990	55.970	0.001	20.989	0.001	55.972	-0.001	20.991	-0.001
000	35.000	59.275	24.457	59.276	-0.001	24.459	-0.002	59.275	-0.000	24.458	-0.001
000	35.570	62.345	27.986	62.347	-0.002	27.988	-0.002	62.344	0.001	27.985	0.001
000	36.100	65.214	31.570	65.214	0.000	31.570	0.000	65.211	0.003	31.568	0.002
000	36.550	67.906	35.203	67.905	0.001	35.201	0.002	67.903	0.003	35.201	0.002
000	37.000	70.443	38.880	70.443	0.000	38.881	-0.001	70.443	0.000	38.882	-0.002

1
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2

LITHIUM BERYLLIUM TETRAFLUORIDE (C) BE 1P 4LI 2 0 0 0 666
 MOL. WT.= 98.880 BLOCK= 4215 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -539.000 KEY = 891
 FITS FOR NOTS RMS = 0.010244
 1 4 4 9 2 71 0 0 0 0 LITHIUM BERYLLIUM TETRAFLUORIDE (C) 30J 666 891
 +1.6251129E+1+6.4647613E+1-3.2387817E+1+6.1738662E+0 4C0 2000 31J 666 891
 -4.3562316E-1-5.4761181E+2+3.0000381E+1-5.3900000E+2BEF4LI2(C) 32J 666 891

FITS FOR EST RMS LOW = 0.064435 RMS HIGH = 0.064435
 1 4 4 9 2 71 0 0 0 0 LITHIUM BERYLLIUM TETRAFLUORIDE (C) 30BEF4LI2\$
 -539000+6+161634+6+509099+2+787209-2-431563+7+150514+3 4002000J 66631BEF4LI2\$
 -539000+6+161634+6+509099+2+787209-2-431563+7+150514+3 4002000J 66632BEF4LI2\$

	-----NOTS-----								-----EST-----			
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
'M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
017	400	35.960	39.794	3.473	39.871	-0.077	3.498	-0.025	40.715	-0.921	3.825	-0.352
019	500	39.590	48.210	7.251	48.140	0.070	7.213	0.038	48.007	0.202	7.112	0.139
003	600	43.140	55.742	11.388	55.707	0.035	11.370	0.018	55.439	0.303	11.197	0.191
003	700	46.680	62.661	15.881	62.673	-0.012	15.893	-0.012	62.484	0.177	15.773	0.108
002	800	49.760	69.105	20.711	69.122	-0.017	20.726	-0.015	69.037	0.068	20.683	0.028
001	900	52.235	75.113	25.813	75.123	-0.010	25.823	-0.010	75.113	-0.000	25.844	-0.031
001	1000	54.360	80.729	31.146	80.730	-0.001	31.146	-0.000	80.758	-0.029	31.203	-0.057
001	1100	56.063	85.992	36.669	85.986	0.006	36.663	0.006	86.023	-0.031	36.729	-0.060
001	1200	57.560	90.935	42.352	90.929	0.006	42.344	0.008	90.955	-0.020	42.398	-0.046
002	1300	58.800	95.592	48.170	95.588	0.004	48.167	0.003	95.596	-0.004	48.196	-0.026
002	1400	59.940	99.992	54.108	99.993	-0.001	54.111	-0.003	99.980	0.012	54.113	-0.005
002	1500	60.965	104.163	60.154	104.167	-0.004	60.161	-0.007	104.138	0.025	60.140	0.014
	1600	61.920	108.128	66.299	108.133	-0.005	66.306	-0.007	108.094	0.034	66.271	0.028
	1700	62.810	111.909	72.536	111.910	-0.001	72.538	-0.002	111.872	0.037	72.502	0.034
	1800	63.620	115.523	78.858	115.519	0.004	78.852	0.006	115.488	0.035	78.830	0.028
	1900	64.350	118.983	85.257	118.978	0.005	85.249	0.008	118.960	0.023	85.251	0.006
	2000	65.000	122.300	91.726	122.302	-0.002	91.731	-0.005	122.300	0.000	91.764	-0.038

LI
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DAT
FIT
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FIT
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312
312

T
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400 S
500 S
600 S
700 S
800 S
900 S
1000 S
1100 S
1200 S
1300 S
1400 S
1500 S
1600 S
1700 S
1800 S
1900 S
2000 S

LITHIUM BERYLLIUM TETRAFLUORIDE (L) BE 1P 4LI 2 0 0 0 666
 MOL. WT.= 98.880 BLOCK= 4217 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFOPM(KCAL/(MOLE)) = -531.217 KEY = 892
 FITS FOR NOTS RMS = 0.056340
 4 4 9 2 71 0 0 0 0 0 LITHIUM BERYLLIUM TETRAFLUORIDE (L) 20J 666 892
 .2636378E+2-1.1840170E+2+7.0891067E+1-1.4510101E+1 400 2000 21J 666 892
 .6136932E+0-5.9196264E+2+1.7969587E+2-5.3121679E+2+2BEF4LI2(L) 22J 666 892

FITS FOR EST RMS LOW = 0.105363 RMS HIGH = 0.105363
 4 4 9 2 71 0 0 0 0 0 LITHIUM BERYLLIUM TETRAFLUORIDE (L) 20BEF4LI2*
 31216+6+144856+6+589446+2-171022-2-168432+7+156724+3 4002000J 66621BEF4LI2*
 31216+6+144856+6+589446+2-171022-2-168432+7+156724+3 4002000J 66622BEF4LI2*

DIB
 MO
 DATA
 FITS
 2 4
 +2.513
 -1.138

FITS
 2 4
 -28789
 -28789

1
 52
 19
 31
 08
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 31
 37
 50
 46
 26
 05
 14
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 34
 28
 06
 38

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
K	C/H-K	C/H-K	KC/H	C/H-K	C/H-K	KC/H	KC/H	C/H-K	C/H-K	KC/H	KC/H				
400	35.960	49.298	3.473	48.829	0.469	3.281	0.192	47.574	1.724	2.808	0.665				
500	55.500	57.713	7.251	58.391	-0.678	7.590	-0.339	58.661	-0.948	7.784	-0.533				
600	55.500	67.832	12.801	67.784	0.048	12.750	0.051	68.207	-0.375	13.023	-0.222				
700	55.500	76.387	18.351	76.243	0.144	18.240	0.111	76.502	-0.115	18.405	-0.054				
800	55.500	83.798	23.901	83.715	0.083	23.837	0.064	83.799	-0.001	23.871	0.030				
900	55.500	90.335	29.451	90.323	0.012	29.446	0.005	90.295	0.040	29.386	0.065				
1000	55.500	96.182	35.001	96.210	-0.028	35.034	-0.033	96.137	0.045	34.930	0.070				
1100	55.500	101.472	40.551	101.509	-0.037	40.593	-0.042	101.437	0.035	40.492	0.059				
1200	55.500	106.301	46.101	106.327	-0.026	46.131	-0.030	106.284	0.017	46.063	0.038				
1300	55.500	110.744	51.651	110.752	-0.008	51.659	-0.008	110.745	-0.001	51.635	0.016				
1400	55.500	114.857	57.201	114.850	0.007	57.189	0.012	114.873	-0.016	57.206	-0.005				
1500	55.500	118.686	62.751	118.672	0.014	62.728	0.023	118.714	-0.028	62.772	-0.021				
1600	55.500	122.268	68.301	122.256	0.012	68.282	0.019	122.301	-0.033	68.332	-0.031				
1700	55.500	125.632	73.851	125.630	0.002	73.847	0.004	125.666	-0.034	73.882	-0.031				
1800	55.500	128.804	79.401	128.813	-0.009	79.415	-0.014	128.833	-0.029	79.422	-0.021				
1900	55.500	131.805	84.951	131.816	-0.011	84.970	-0.019	131.822	-0.017	84.951	0.000				
2000	55.500	134.652	90.501	134.646	0.006	90.488	0.013	134.652	0.000	90.468	0.033				

3600 2
 3800 2
 4000 2
 4200 2
 4400 2
 4600 2
 4800 2
 5000 2
 5200 2
 5400 2
 5600 2
 5800 2
 6000 2

DIBERYLLIUM OXIDE DIFLUORIDE (G) BE 2P 20 1 0 0 0 666
 MOL. WT.= 72.020 BLOCK= 4219 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -287.900 KEY = 893
 FITS FOR NOTS RMS = 0.010293
 2 4 1 8 2 9 0 0 0 0 0 DIBERYLLIUM OXIDE DIPLUORIDE (G) 10J 666 893
 +2.5132461E+1+4.3094229E-1-9.4646573E-2+7.0475079E-3 400 6000 11J 666 893
 -1.1386718E+0-2.9877563E+2+9.66C6338E+1-2.878999CE+2BE2F20 (G) 12J 666 893

FITS FOR EST RMS LOW = 0.014953 RMS HIGH = 0.007751
 2 4 1 8 2 9 0 0 0 0 0 DIBERYLLIUM OXIDE DIPLUORIDE (G) 10BE2F20
 -287899+6+661383+5+253921+2+139561-3-118513+7+125213+3 4003000J 66611BE2F20
 -287899+6+661379+5+260065+2-254062-4-290790+7+125213+330006000J 66612BE2F20

-----NOTS-----

-----EST-----

	T		S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
1	400	20.032	77.034	1.952	77.301	-0.267	2.056	-0.104	77.326	-0.292	2.070	-0.118
35	600	22.307	85.634	6.209	85.592	0.042	6.173	0.036	85.592	0.042	6.174	0.035
33	800	23.550	92.239	10.807	92.203	0.036	10.776	0.031	92.205	0.034	10.779	0.028
12	1000	24.261	97.577	15.594	97.562	0.015	15.581	0.013	97.565	0.012	15.586	0.008
34	1200	24.695	102.042	20.493	102.037	0.005	20.491	0.002	102.042	0.000	20.497	-0.004
10	1400	24.974	105.871	25.462	105.870	0.001	25.466	-0.004	105.875	-0.004	25.471	-0.009
35	1600	25.164	109.219	30.477	109.219	-0.000	30.482	-0.005	109.222	-0.003	30.486	-0.009
70	1800	25.298	112.191	35.524	112.191	0.000	35.528	-0.004	112.193	-0.002	35.529	-0.005
39	2000	25.396	114.862	40.594	114.861	0.001	40.596	-0.002	114.861	0.001	40.595	-0.001
18	2200	25.469	117.286	45.681	117.284	0.002	45.681	-0.000	117.283	0.003	45.678	0.003
16	2400	25.526	119.505	50.781	119.502	0.003	50.780	0.001	119.501	0.004	50.776	0.005
35	2600	25.570	121.550	55.890	121.547	0.003	55.889	0.001	121.546	0.004	55.886	0.004
21	2800	25.606	123.446	61.008	123.443	0.003	61.007	0.001	123.444	0.002	61.007	0.001
11	3000	25.635	125.214	66.132	125.211	0.003	66.131	0.001	125.214	0.000	66.138	-0.006
11	3000	25.635	125.214	66.132	125.211	0.003	66.131	0.001	125.214	0.000	66.138	-0.006
10	3200	25.658	126.869	71.262	126.866	0.003	71.261	0.001	126.868	0.001	71.263	-0.001
13	3400	25.678	128.425	76.395	128.423	0.002	76.396	-0.001	128.423	0.002	76.394	0.001
	3600	25.695	129.893	81.533	129.891	0.002	81.534	-0.001	129.891	0.002	81.530	0.003
	3800	25.709	131.283	86.673	131.281	0.002	86.675	-0.002	131.280	0.003	86.670	0.003
	4000	25.721	132.602	91.816	132.600	0.002	91.818	-0.002	132.600	0.002	91.813	0.003
	4200	25.731	133.857	96.961	133.855	0.002	96.963	-0.002	133.855	0.002	96.959	0.002
	4400	25.740	135.054	102.108	135.052	0.002	102.110	-0.002	135.052	0.002	102.107	0.001
	4600	25.748	136.199	107.257	136.196	0.003	107.258	-0.001	136.197	0.002	107.257	0.000
	4800	25.755	137.294	112.408	137.292	0.002	112.408	0.000	137.293	0.001	112.408	0.000
	5000	25.761	138.346	117.559	138.343	0.003	117.559	0.000	138.345	0.001	117.560	-0.001
	5200	25.766	139.356	122.712	139.354	0.002	122.711	0.001	139.355	0.001	122.713	-0.001
	5400	25.771	140.329	127.866	140.326	0.003	127.864	0.002	140.328	0.001	127.867	-0.001
	5600	25.776	141.266	133.020	141.264	0.002	133.019	0.001	141.265	0.001	133.021	-0.001
	5800	25.779	142.171	138.176	142.168	0.003	138.176	0.000	142.169	0.002	138.175	0.001
	6000	25.783	143.045	143.332	143.043	0.002	143.335	-0.003	143.043	0.002	143.330	0.002

MAG
 MO
 DATA
 FITS
 12
 .883
 .222
 FITS
 12
 13000
 13000

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 K
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 1600
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 2200
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 4000
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 4400
 4600
 4800
 5000
 5200
 5400
 5600
 5800
 6000

MAGNESIUM MONOBROMIDE (G) BR 1MG 1 0 0 0 0 666
 MOL. WT.= 104.220 BLOCK= 4225 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -13.000 KEY = 894
 FITS FOR NOTS RMS = 0.001995
 12 1 35 0 0 0 0 0 0 0 MAGNESIUM MONOBROMIDE (G) 10J 666 894
 .8836097E+0+2.0544981E-1-4.2683657E-2+6.5149106E-3 400 6000 11J 666 894
 .2221069E-2-1.5794570E+1+6.8949722E+1-1.3000000E+1BRMG(G) 12J 666 894

FITS FOR EST RMS LOW = 0.000401 RMS HIGH = 0.008989
 12 1 35 0 0 0 0 0 0 0 MAGNESIUM MONOBROMIDE (G) 10BRMG
 130000+5+245419+5+894115+1+116738-3-467200+5+791939+2 4003000J 66611BRMG
 130000+5+245383+5+771490+1+349328-3+507710+7+791939+230006000J 66612BRMG

DH KC/M	-----NOTS-----								-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
-0.118	400	8.715	61.015	0.879	61.021	-0.006	0.880	-0.001	61.018	-0.003	0.880	-0.001
0.035	400	8.884	64.586	2.641	64.586	-0.000	2.640	0.001	64.586	0.000	2.641	-0.000
0.028	400	8.962	67.153	4.427	67.152	0.001	4.424	0.003	67.153	-0.000	4.426	0.001
0.008	400	9.011	69.159	6.224	69.157	0.002	6.221	0.003	69.158	0.001	6.224	0.000
-0.004	200	9.049	70.805	8.030	70.804	0.001	8.028	0.002	70.805	0.000	8.030	0.000
-0.009	400	9.081	72.203	9.843	72.201	0.002	9.841	0.002	72.202	0.001	9.843	-0.000
-0.009	400	9.109	73.417	11.662	73.416	0.001	11.661	0.001	73.417	0.000	11.662	-0.000
-0.005	400	9.137	74.492	13.487	74.491	0.001	13.486	0.001	74.491	0.001	13.487	0.000
-0.001	400	9.163	75.456	15.317	75.456	0.000	15.317	0.000	75.455	0.001	15.317	0.000
0.003	200	9.188	76.330	17.152	76.330	-0.000	17.152	-0.000	76.330	0.000	17.152	0.000
0.005	400	9.213	77.131	18.992	77.131	0.000	18.993	-0.001	77.130	0.001	18.992	-0.000
0.004	400	9.238	77.869	20.837	77.869	-0.000	20.838	-0.001	77.869	0.000	20.837	-0.000
0.001	400	9.263	78.554	22.687	78.555	-0.001	22.688	-0.001	78.554	-0.000	22.687	-0.000
-0.006	400	9.288	79.194	24.542	79.195	-0.001	24.543	-0.001	79.194	0.000	24.542	0.000
-0.006	400	9.288	79.194	24.542	79.195	-0.001	24.543	-0.001	79.194	0.000	24.538	0.004
-0.001	200	9.314	79.795	26.402	79.795	0.000	26.403	-0.001	79.796	-0.001	26.404	-0.002
0.001	400	9.342	80.360	28.268	80.360	-0.000	28.268	-0.000	80.362	-0.002	28.271	-0.003
0.003	400	9.371	80.895	30.139	80.895	-0.000	30.139	-0.000	80.896	-0.001	30.141	-0.002
0.003	400	9.402	81.402	32.016	81.402	-0.001	32.016	-0.000	81.403	-0.001	32.017	-0.001
0.002	400	9.436	81.885	33.900	81.886	-0.001	33.900	-0.000	81.886	-0.001	33.899	0.001
0.001	200	9.473	82.347	35.791	82.347	0.000	35.791	-0.000	82.347	-0.000	35.789	0.002
0.000	400	9.514	82.788	37.690	82.789	-0.001	37.690	-0.000	82.789	-0.001	37.687	0.003
0.000	400	9.558	83.212	39.597	83.212	-0.000	39.597	-0.000	83.213	-0.001	39.595	0.002
-0.001	400	9.606	83.620	41.513	83.620	-0.000	41.513	-0.000	83.621	-0.001	41.512	0.001
-0.001	400	9.658	84.013	43.440	84.013	-0.000	43.439	0.001	84.014	-0.001	43.440	0.000
-0.001	200	9.714	84.393	45.377	84.393	-0.000	45.376	0.001	84.394	-0.001	45.378	-0.001
-0.001	400	9.774	84.761	47.325	84.761	0.000	47.325	0.000	84.762	-0.001	47.328	-0.003
0.001	400	9.838	85.117	49.286	85.117	-0.000	49.286	0.000	85.119	-0.002	49.288	-0.002
0.002	400	9.905	85.464	51.261	85.464	0.000	51.260	0.001	85.465	-0.001	51.261	0.000
	400	9.977	85.801	53.249	85.801	-0.000	53.250	-0.001	85.801	-0.000	53.245	0.004

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MAGNESIUM BROMIDE (G) BR 2MG 1 0 0 0 0 666
 MOL. WT. = 184.130 BLOCK = 4236 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -74.600 KEY = 897
 FITS FOR NOTS RMS = 0.002410
 1 12 2 35 0 0 0 0 0 0 MAGNESIUM BROMIDE (G) 10J 666 897
 +1.4902898E+1+4.7069340E-3-2.2047478E-3+2.5284942E-4 400 6000 11J 666 897
 -1.2394714E-1-7.9445617E+1+8.4912567E+1-7.4599990E+1BR2MG(G) 12J 666 897

FITS FOR EST RMS LOW = 0.000646 RMS HIGH = 0.004573
 1 12 2 35 0 0 0 0 0 0 MAGNESIUM BROMIDE (G) 10BR2MG
 -745999+5+399100+5+149008+2+900152-6-121568+6+101297+3 4003000J 66611BR2MG
 -745999+5+399132+5+150021+2-143921-4-759552+6+101297+330006000J 66612BR2MG

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.000	400	14.190	71.637	1.424	71.646	-0.009	1.426	-0.002	71.645	-0.008	1.427	-0.003	
-0.000	600	14.568	77.476	4.307	77.474	0.002	4.303	0.004	77.476	0.000	4.306	0.001	
0.000	800	14.711	81.690	7.237	81.687	0.003	7.233	0.004	81.689	0.001	7.236	0.001	
0.000	1000	14.779	84.980	10.186	84.978	0.002	10.183	0.003	84.980	-0.000	10.186	0.000	
0.000	1200	14.817	87.679	13.146	87.677	0.002	13.143	0.003	87.678	0.001	13.146	0.000	
0.000	1400	14.840	89.964	16.112	89.963	0.001	16.110	0.002	89.964	-0.000	16.112	0.000	
0.000	1600	14.855	91.947	19.082	91.946	0.001	19.080	0.002	91.947	0.000	19.081	0.001	
0.000	1800	14.865	93.697	22.054	93.697	0.000	22.052	0.002	93.697	-0.000	22.053	0.001	
0.000	2000	14.872	95.264	25.027	95.264	0.000	25.027	0.000	95.264	0.000	25.027	-0.000	
0.000	2200	14.878	96.682	28.002	96.682	0.000	28.002	-0.000	96.681	0.001	28.002	-0.000	
0.000	2400	14.882	97.976	30.978	97.976	-0.000	30.978	-0.000	97.976	-0.000	30.978	-0.000	
0.000	2600	14.885	99.168	33.955	99.168	0.000	33.955	-0.000	99.168	0.000	33.955	0.000	
0.000	2800	14.888	100.271	36.932	100.271	-0.000	36.933	-0.001	100.271	0.000	36.932	-0.000	
0.000	3000	14.890	101.298	39.910	101.298	-0.000	39.911	-0.001	101.298	0.000	39.910	-0.000	
0.000	3000	14.890	101.298	39.910	101.298	-0.000	39.911	-0.001	101.298	0.000	39.913	-0.003	
0.000	3200	14.891	102.259	42.888	102.259	-0.000	42.889	-0.001	102.258	0.001	42.889	-0.001	
0.000	3400	14.893	103.162	45.867	103.162	-0.000	45.867	-0.000	103.161	0.001	45.866	0.001	
	3600	14.894	104.013	48.845	104.014	-0.001	48.846	-0.001	104.012	0.001	48.844	0.001	
	3800	14.895	104.818	51.824	104.819	-0.001	51.825	-0.001	104.817	0.001	51.823	0.001	
	4000	14.896	105.582	54.803	105.583	-0.001	54.804	-0.001	105.581	0.001	54.802	0.001	
	4200	14.897	106.309	57.782	106.310	-0.001	57.783	-0.001	106.308	0.001	57.781	0.001	
	4400	14.897	107.002	60.762	107.002	-0.000	60.762	0.000	107.001	0.001	60.761	0.001	
	4600	14.898	107.664	63.741	107.665	-0.001	63.741	-0.000	107.663	0.001	63.741	-0.000	
	4800	14.898	108.298	66.721	108.299	-0.001	66.721	0.000	108.297	0.001	66.721	-0.000	
	5000	14.899	108.907	69.701	108.907	0.000	69.700	0.001	108.906	0.001	69.701	-0.000	
	5200	14.899	109.491	72.680	109.491	-0.000	72.680	0.000	109.490	0.001	72.681	-0.001	
	5400	14.899	110.053	75.660	110.053	-0.000	75.660	0.000	110.052	0.001	75.661	-0.001	
	5600	14.900	110.595	78.640	110.595	-0.000	78.640	0.000	110.594	0.001	78.640	-0.000	
	5800	14.900	111.118	81.620	111.118	-0.000	81.620	0.000	111.117	0.001	81.620	0.000	
	6000	14.900	111.623	84.600	111.623	-0.000	84.600	-0.000	111.622	0.001	84.599	0.001	

FORMYL UNIPOSITIVE ION (G) C 1H 10 1 1 1270 C
 MOL. WT.= 29.010 BLCK= 4242 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 199.100 KEY = 898 DA
 FITS FOR NOTS RMS = 0.023566 FI
 1 -1 1 1 1 6 1 8 0 0 0 0 FORMYL UNIPOSITIVE ION (G) 10J1270 898 1
 +1.1491556E+1+1.9187221E+0-3.9374613E-1+2.7802690E-2 400 6000 11J1270 898 +1.2
 -8.6799621E-1+1.9330718E+2+5.8801696E+1+1.9909999E+2CHO+(G) 12J1270 898 -6.9

 FITS FOR EST RMS LOW = 0.040451 RMS HIGH = 0.004477 FI
 1 -1 1 1 1 6 1 8 0 0 0 0 FORMYL UNIPOSITIVE ION (G) 10CHO+ 1
 +199099+6+346533+5+127070+2+645521-3-111459+7+757169+2 4003000J127011CHO+ +139
 +199099+6+346354+5+149447+2-765025-5-526684+7+757169+230006000J127012CHO+ +139

-----NOTS-----								-----EST-----				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	9.399	51.236	0.919	51.721	-0.485	1.119	-0.200	51.856	-0.620	1.177	-0.258	400
600	10.490	55.267	2.914	55.219	0.048	2.867	0.047	55.203	0.064	2.854	0.060	600
800	11.326	58.403	5.099	58.329	0.074	5.035	0.064	58.310	0.093	5.021	0.078	800
1000	12.010	61.006	7.435	60.967	0.039	7.402	0.033	60.961	0.045	7.400	0.035	1000
1200	12.558	63.246	9.894	63.233	0.013	9.889	0.005	63.237	0.009	9.898	-0.004	1200
1400	12.987	65.216	12.450	65.215	0.001	12.462	-0.012	65.222	-0.006	12.474	-0.024	1400
1600	13.322	66.973	15.082	66.976	-0.003	15.100	-0.018	66.981	-0.008	15.110	-0.028	1600
1800	13.584	68.558	17.774	68.560	-0.002	17.790	-0.016	68.561	-0.003	17.793	-0.019	1800
2000	13.790	70.000	20.512	70.000	0.000	20.523	-0.011	69.997	0.003	20.518	-0.006	2000
2200	13.954	71.322	23.287	71.319	0.003	23.292	-0.005	71.313	0.009	23.280	0.007	2200
2400	14.087	72.542	26.092	72.537	0.005	26.091	0.001	72.529	0.013	26.076	0.016	2400
2600	14.194	73.674	28.920	73.667	0.007	28.915	0.005	73.661	0.013	28.905	0.015	2600
2800	14.282	74.730	31.768	74.721	0.009	31.761	0.007	74.720	0.010	31.764	0.004	2800
3000	14.355	75.717	34.632	75.709	0.008	34.625	0.007	75.717	0.000	34.653	-0.021	3000
3000	14.355	75.717	34.632	75.709	0.008	34.625	0.007	75.717	0.000	34.635	-0.003	3000
3200	14.417	76.646	37.509	76.638	0.008	37.503	0.006	76.645	0.001	37.510	-0.001	3200
3400	14.468	77.522	40.398	77.514	0.008	40.394	0.004	77.520	0.002	40.397	0.001	3400
3600	14.513	78.350	43.296	78.343	0.007	43.295	0.001	78.348	0.002	43.295	0.001	3600
3800	14.550	79.135	46.203	79.130	0.005	46.204	-0.001	79.133	0.002	46.201	0.002	3800
4000	14.583	79.883	49.116	79.878	0.005	49.120	-0.004	79.881	0.002	49.115	0.001	4000
4200	14.612	80.595	52.036	80.590	0.005	52.040	-0.004	80.593	0.002	52.034	0.002	4200
4400	14.637	81.275	54.960	81.270	0.005	54.965	-0.005	81.273	0.002	54.960	0.000	4400
4600	14.658	81.926	57.890	81.921	0.005	57.894	-0.004	81.925	0.001	57.890	0.000	4600
4800	14.678	82.551	60.824	82.545	0.006	60.826	-0.002	82.549	0.002	60.824	0.000	4800
5000	14.695	83.150	63.761	83.144	0.006	63.761	0.000	83.149	0.001	63.761	-0.001	5000
5200	14.710	83.727	66.701	83.720	0.007	66.699	0.002	83.725	0.002	66.702	-0.001	5200
5400	14.724	84.282	69.645	84.275	0.007	69.641	0.004	84.281	0.001	69.645	-0.000	5400
5600	14.736	84.818	72.591	84.811	0.007	72.587	0.004	84.816	0.002	72.591	-0.000	5600
5800	14.747	85.335	75.539	85.329	0.006	75.538	0.001	85.333	0.001	75.539	0.000	5800
6000	14.757	85.835	78.490	85.831	0.004	78.497	-0.007	85.833	0.002	78.489	0.001	6000

CNN RADICAL (G) C 1N 2 0 0 0 0 666
 MOL. WT.= 40.020 BLOCK= 4248 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 139.700 KEY = 899
 FITS FOR NOTS RMS = 0.016372
 1 6 2 7 0 0 0 0 0 0 0 CNN RADICAL (G) 10J 666 899
 +1.2761167E+1+1.2190837E+0-2.5225836E-1+1.7920032E-2 400 6000 11J 666 899
 -6.9474792E-1+1.3397485E+2+6.7828323E+1+1.3969999E+2CN2(G) 12J 666 899

FITS FOR EST RMS LOW = 0.027275 RMS HIGH = 0.004523
 1 6 2 7 0 0 0 0 0 0 0 CNN RADICAL (G) 10CN2
 +139699+6+363871+5+135284+2+408594-3-848336+6+845749+2 4003000J 66611CN2
 +139699+6+363766+5+149795+2-120502-4-368128+7+845749+230006000J 66612CN2

-----NOTS-----												
-----EST-----												
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.258	400	10.803	58.427	1.067	58.774	-0.347	1.208	-0.141	58.858	-0.431	1.245	-0.178
0.060	600	11.745	62.999	3.328	62.962	0.037	3.291	0.037	62.952	0.047	3.285	0.043
0.078	800	12.416	66.474	5.747	66.421	0.053	5.701	0.046	66.410	0.064	5.694	0.053
0.035	1000	12.933	69.302	8.284	69.275	0.027	8.261	0.023	69.272	0.030	8.261	0.023
-0.004	1200	13.330	71.697	10.912	71.688	0.009	10.909	0.003	71.691	0.006	10.916	-0.004
-0.024	1400	13.633	73.776	13.610	73.775	0.001	13.618	-0.008	73.780	-0.004	13.627	-0.017
-0.028	1600	13.864	75.612	16.361	75.614	-0.002	16.372	-0.011	75.617	-0.005	16.379	-0.018
-0.019	1800	14.042	77.255	19.152	77.257	-0.002	19.162	-0.010	77.258	-0.003	19.165	-0.013
-0.006	2000	14.180	78.742	21.975	78.742	0.000	21.982	-0.007	78.740	0.002	21.979	-0.004
0.007	2200	14.290	80.099	24.822	80.097	0.002	24.825	-0.003	80.093	0.006	24.817	0.005
0.016	2400	14.377	81.346	27.689	81.342	0.003	27.688	0.001	81.338	0.008	27.679	0.010
0.015	2600	14.447	82.500	30.572	82.495	0.005	30.568	0.004	82.491	0.009	30.562	0.010
0.004	2800	14.505	83.573	33.467	83.567	0.006	33.463	0.004	83.567	0.006	33.465	0.002
-0.021	3000	14.552	84.575	36.373	84.570	0.005	36.368	0.005	84.575	0.000	36.387	-0.014
-0.003	3000	14.552	84.575	36.373	84.570	0.005	36.368	0.005	84.575	0.000	36.377	-0.004
-0.001	3200	14.592	85.516	39.288	85.511	0.005	39.284	0.004	85.515	0.001	39.288	-0.000
0.001	3400	14.626	86.402	42.209	86.397	0.005	42.207	0.002	86.400	0.002	42.209	0.000
0.001	3600	14.654	87.238	45.137	87.234	0.004	45.137	-0.000	87.236	0.002	45.136	0.001
0.002	3800	14.679	88.031	48.071	88.027	0.004	48.072	-0.001	88.029	0.002	48.069	0.002
0.001	4000	14.700	88.785	51.009	88.781	0.004	51.011	-0.002	88.783	0.002	51.007	0.002
0.002	4200	14.718	89.502	53.950	89.499	0.003	53.954	-0.004	89.501	0.001	53.949	0.001
0.000	4400	14.734	90.187	56.896	90.184	0.003	56.899	-0.003	90.186	0.001	56.895	0.001
0.000	4600	14.748	90.843	59.844	90.839	0.004	59.846	-0.002	90.841	0.002	59.844	0.000
0.000	4800	14.760	91.471	62.795	91.467	0.004	62.796	-0.001	91.469	0.002	62.795	-0.000
-0.001	5000	14.771	92.073	65.748	92.069	0.004	65.747	0.001	92.072	0.001	65.748	-0.001
-0.001	5200	14.781	92.653	68.703	92.649	0.004	68.701	0.002	92.651	0.002	68.704	-0.001
-0.000	5400	14.789	93.211	71.660	93.206	0.005	71.657	0.003	93.209	0.002	71.661	-0.001
-0.000	5600	14.797	93.749	74.619	93.744	0.005	74.616	0.003	93.747	0.002	74.619	0.000
0.000	5800	14.804	94.268	77.579	94.264	0.004	77.578	0.001	94.267	0.001	77.578	0.001
0.001	6000	14.811	94.770	80.540	94.767	0.003	80.545	-0.005	94.768	0.002	80.539	0.001

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CN RADICAL          (G)      C 1N 2 0 0 0 0      1270
MOL. WT.=      40.020      BLOCK= 4254      NO. POINT = 62
TA FROM      0 TO 6000 K      HFORM(KCAL/(MOLE)) = 113.000      KEY = 900
TS FOR NOTS      RMS =      0.007619
6 2 7 0 0 0 0 0 0 0 0 NCN RADICAL          (G)      10J1270 90
.215298E+1+.4.6473026E-1-1.1642086E-1+1.0399110E-2      400 6000      11J1270 90
.283264E-1+1.0652847E+2+.6.7802597E+1+1.1300000E+2CN2(G)      12J1270 90

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NOTS-----						EST-----					
CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
11.035	57.136	1.077	57.338	-0.202	1.156	-0.079	57.373	-0.237	1.173	-0.096	
12.416	61.892	3.433	61.859	0.033	3.405	0.028	61.857	0.035	3.404	0.029	
13.253	65.589	6.007	65.563	0.026	5.984	0.023	65.560	0.029	5.983	0.024	
13.753	68.605	8.711	68.594	0.011	8.703	0.008	68.594	0.011	8.705	0.006	
14.065	71.142	11.496	71.139	0.003	11.495	0.001	71.141	0.001	11.499	-0.003	
14.269	73.327	14.330	73.326	0.001	14.334	-0.004	73.329	-0.002	14.338	-0.008	
14.408	75.241	17.199	75.242	-0.001	17.203	-0.004	75.244	-0.003	17.206	-0.007	
14.506	76.944	20.091	76.944	0.000	20.094	-0.003	76.945	-0.001	20.095	-0.004	
14.578	78.477	23.000	78.476	0.001	23.001	-0.001	78.475	0.002	23.000	-0.000	
14.633	79.869	25.921	79.867	0.002	25.921	-0.000	79.866	0.003	25.919	0.002	
14.675	81.144	28.852	81.142	0.002	28.851	0.001	81.140	0.004	28.848	0.004	
14.708	82.320	31.790	82.318	0.002	31.789	0.001	82.316	0.004	31.787	0.003	
14.734	83.411	34.735	83.409	0.002	34.733	0.002	83.409	0.002	34.734	0.001	
14.756	84.428	37.684	84.426	0.002	37.683	0.001	84.428	0.000	37.689	-0.005	
14.756	84.428	37.684	84.426	0.002	37.683	0.001	84.428	0.000	37.683	0.001	
14.774	85.381	40.637	85.379	0.002	40.636	0.001	85.381	-0.000	40.638	-0.001	
14.790	86.277	43.593	86.275	0.002	43.593	-0.000	86.278	-0.001	43.594	-0.001	
14.803	87.123	46.552	87.121	0.002	46.553	-0.001	87.123	-0.000	46.553	-0.001	
14.816	87.924	49.514	87.922	0.002	49.515	-0.001	87.924	0.000	49.514	0.000	
14.828	88.684	52.479	88.682	0.002	52.480	-0.001	88.684	0.000	52.477	0.002	
14.841	89.408	55.446	89.406	0.002	55.447	-0.001	89.407	0.001	55.444	0.002	
14.854	90.099	58.415	90.097	0.002	58.416	-0.001	90.098	0.001	58.413	0.002	
14.868	90.759	61.388	90.757	0.002	61.388	-0.000	90.759	0.000	61.386	0.002	
14.884	91.392	64.363	91.390	0.002	64.363	0.000	91.392	0.000	64.362	0.001	
14.901	92.000	67.341	91.998	0.002	67.341	0.000	92.000	-0.000	67.341	-0.001	
14.920	92.585	70.323	92.583	0.002	70.322	0.001	92.585	-0.000	70.325	-0.002	
14.942	93.148	73.309	93.146	0.002	73.308	0.001	93.149	-0.001	73.311	-0.002	
14.966	93.692	76.300	93.690	0.002	76.299	0.001	93.692	-0.000	76.302	-0.002	
14.993	94.218	79.296	94.216	0.002	79.296	0.000	94.218	0.000	79.296	-0.000	
15.022	94.727	82.298	94.725	0.002	82.300	-0.002	94.726	0.001	82.294	0.004	

CARBON DIOXIDE UNINEGATIVE ION (G) C 10 2- 1 0 0 0 1266
 MOL. WT.= 44.010 BLOCK= 4261 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MCLE)) = -105.500 KEY = 901
 FITS FOR NOTS RMS = 0.011894
 1 -1 1 6 2 8 0 0 0 0 0 CARBON DIOXIDE UNINEGATIVE ION (G) 10J1266 901
 +1.2975780E+1+5.6577706E-1-1.2226068E-1+8.9627094E-3 400 6000 11J1266 901
 -9.2039489E-1-1.1198152E+2+6.9269577E+1-1.0550000E+2CO2- (G) 12J1266 901

FITS FOR EST RMS LOW = 0.018483 RMS HIGH = 0.004201
 1 -1 1 6 2 8 0 0 0 0 0 CARBON DIOXIDE UNINEGATIVE ION (G) 10CO2-
 -105500+6+343900+5+133264+2+183405-3-986672+6+848079+2 4003000J126611CO2-
 -105500+6+343856+5+140083+2-146050-4-243483+7+848079+230006000J126612CO2-

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.096	400	9.497	60.163	0.929	60.473	-0.310	1.052	-0.123	60.508	-0.345	1.068	-0.139	
0.029	600	10.864	64.284	2.971	64.238	0.046	2.931	0.040	64.235	0.049	2.930	0.041	
0.024	800	11.811	67.549	5.245	67.508	0.041	5.211	0.034	67.506	0.043	5.210	0.035	
0.006	1000	12.417	70.255	7.672	70.237	0.018	7.659	0.013	70.239	0.016	7.661	0.011	
-0.003	1200	12.807	72.555	10.197	72.551	0.004	10.198	-0.001	72.555	0.000	10.202	-0.005	
-0.008	1400	13.068	74.551	12.787	74.551	0.000	12.793	-0.006	74.555	-0.004	12.798	-0.011	
-0.007	1600	13.249	76.308	15.419	76.309	-0.001	15.427	-0.008	76.312	-0.004	15.430	-0.011	
-0.004	1800	13.378	77.876	18.083	77.876	-0.000	18.089	-0.006	77.878	-0.002	18.089	-0.006	
-0.000	2000	13.473	79.291	20.768	79.290	0.001	20.772	-0.004	79.290	0.001	20.770	-0.002	
0.002	2200	13.546	80.579	23.470	80.576	0.003	23.471	-0.001	80.575	0.004	23.467	0.003	
0.004	2400	13.602	81.760	26.185	81.756	0.004	26.184	0.001	81.755	0.005	26.179	0.006	
0.003	2600	13.646	82.850	28.910	82.846	0.004	28.908	0.002	82.846	0.004	28.905	0.005	
0.001	2800	13.681	83.863	31.643	83.859	0.004	31.640	0.003	83.860	0.003	31.642	0.001	
-0.005	3000	13.710	84.808	34.382	84.804	0.004	34.380	0.002	84.808	0.000	34.390	-0.008	
0.001	3000	13.710	84.808	34.382	84.804	0.004	34.380	0.002	84.808	0.000	34.386	-0.004	
-0.001	3200	13.734	85.694	37.127	85.690	0.004	37.125	0.002	85.693	0.001	37.128	-0.001	
-0.001	3400	13.753	86.527	39.876	86.523	0.004	39.875	0.001	86.526	0.001	39.875	0.001	
-0.001	3600	13.770	87.313	42.628	87.310	0.003	42.628	-0.000	87.312	0.001	42.626	0.002	
0.000	3800	13.784	88.058	45.383	88.055	0.003	45.385	-0.002	88.057	0.001	45.382	0.001	
0.002	4000	13.796	88.766	48.141	88.763	0.003	48.143	-0.002	88.764	0.002	48.140	0.001	
0.002	4200	13.807	89.430	50.902	89.436	0.003	50.904	-0.002	89.438	0.001	50.901	0.001	
0.002	4400	13.816	90.082	53.664	90.079	0.003	53.666	-0.002	90.080	0.002	53.663	0.001	
0.002	4600	13.824	90.696	56.428	90.693	0.003	56.429	-0.001	90.695	0.001	56.428	0.000	
0.001	4800	13.831	91.284	59.194	91.281	0.003	59.194	-0.000	91.283	0.001	59.194	0.000	
-0.001	5000	13.837	91.849	61.960	91.846	0.003	61.960	0.000	91.848	0.001	61.961	-0.001	
-0.002	5200	13.842	92.392	64.728	92.388	0.004	64.727	0.001	92.391	0.001	64.729	-0.001	
-0.002	5400	13.847	92.914	67.497	92.911	0.003	67.495	0.002	92.913	0.001	67.498	-0.001	
-0.002	5600	13.852	93.418	70.267	93.414	0.004	70.265	0.002	93.417	0.001	70.267	-0.000	
-0.000	5800	13.856	93.904	73.038	93.901	0.003	73.037	0.001	93.903	0.001	73.037	0.001	
0.004	6000	13.859	94.374	75.809	94.371	0.003	75.812	-0.003	94.373	0.001	75.808	0.001	

CARBON DIMERIC UNINEGATIVE ION (G) C 2- 1 0 0 0 0 1269
 MOL. WT.= 24.020 BLOCK= 4267 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 106.000 KEY = 902
 FITS FOR NOTS RMS = 0.027118
 1 -1 2 6 0 0 0 0 0 0 0 CARBON DIMERIC UNINEGATIVE ION (G) 10J1269 902
 0.7204923E+0+1.2873802E+0-4.7716654E-2-8.8013149E-3 400 6000 11J1269 902
 1.5119934E-1+1.0417131E+2+5.4848480E+1+1.0600000E+2C2-(G) 12J1269 902

FITS FOR EST RMS LOW = 0.008427 RMS HIGH = 0.011801
 1 -1 2 6 0 0 0 0 0 0 0 CARBON DIMERIC UNINEGATIVE ION (G) 10C2-
 106000+6+234517+5+744932+1+822180-3-113200+6+657829+2 4003000J126911C2-
 106000+6+234683+5+123669+2-154750-3-186845+8+657829+230006000J126912C2-

DH KC/M	-----NOTS-----								-----EST-----				
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
0.139	400	7.105	49.029	0.717	48.729	0.300	0.583	0.134	48.983	0.046	0.695	0.022	40
0.041	600	7.506	51.982	2.176	51.969	0.013	2.180	-0.004	51.971	0.011	2.173	0.003	60
0.035	800	7.897	54.197	3.718	54.244	-0.047	3.762	-0.044	54.210	-0.013	3.730	-0.012	80
0.011	1000	8.189	55.992	5.328	56.033	-0.041	5.366	-0.038	56.005	-0.013	5.340	-0.012	100
0.005	1200	8.402	57.505	6.988	57.527	-0.022	7.005	-0.017	57.510	-0.005	6.992	-0.004	120
0.011	1400	8.571	58.813	8.686	58.819	-0.006	8.682	0.004	58.813	0.000	8.682	0.004	140
0.011	1600	8.724	59.968	10.416	59.964	0.004	10.398	0.018	59.965	0.003	10.408	0.008	160
0.006	1800	8.879	61.004	12.176	60.998	0.006	12.154	0.022	61.002	0.002	12.170	0.006	180
0.002	2000	9.044	61.948	13.968	61.944	0.004	13.949	0.019	61.948	-0.000	13.966	0.002	200
0.003	2200	9.218	62.818	15.794	62.817	0.001	15.782	0.012	62.820	-0.002	15.796	-0.002	220
0.006	2400	9.398	63.628	17.656	63.631	-0.003	17.652	0.004	63.631	-0.003	17.660	-0.004	240
0.005	2600	9.580	64.387	19.553	64.393	-0.006	19.558	-0.005	64.390	-0.003	19.557	-0.004	260
0.001	2800	9.758	65.104	21.487	65.112	-0.008	21.497	-0.010	65.105	-0.002	21.488	-0.001	280
0.008	3000	9.928	65.783	23.456	65.791	-0.008	23.468	-0.012	65.783	0.000	23.452	0.004	300
0.004	3200	9.928	65.783	23.456	65.791	-0.008	23.468	-0.012	65.783	0.000	23.468	-0.012	300
0.001	3400	10.086	66.429	25.458	66.437	-0.008	25.469	-0.011	66.424	0.005	25.457	0.001	320
0.001	3600	10.230	67.045	27.490	67.052	-0.007	27.498	-0.008	67.039	0.006	27.484	0.006	340
0.002	3800	10.359	67.633	29.549	67.640	-0.007	29.554	-0.005	67.628	0.005	29.544	0.005	360
0.001	4000	10.472	68.196	31.632	68.202	-0.006	31.633	-0.001	68.192	0.004	31.630	0.002	380
0.001	4200	10.569	68.736	33.737	68.740	-0.004	33.733	0.004	68.732	0.004	33.737	0.000	400
0.001	4400	10.652	69.254	35.859	69.257	-0.003	35.853	0.006	69.250	0.004	35.861	-0.002	420
0.001	4600	10.720	69.751	37.996	69.754	-0.003	37.989	0.007	69.747	0.004	37.999	-0.003	440
0.000	4800	10.775	70.228	40.146	70.232	-0.004	40.140	0.006	70.225	0.003	40.148	-0.002	460
0.000	5000	10.819	70.688	42.306	70.692	-0.004	42.302	0.004	70.684	0.004	42.307	-0.001	480
0.001	5200	10.852	71.130	44.473	71.135	-0.005	44.472	0.001	71.126	0.004	44.473	-0.000	500
0.001	5400	10.876	71.557	46.646	71.562	-0.005	46.649	-0.003	71.552	0.005	46.645	0.001	520
0.001	5600	10.892	71.967	48.823	71.973	-0.006	48.828	-0.005	71.963	0.004	48.821	0.002	540
0.000	5800	10.901	72.364	51.002	72.370	-0.006	51.008	-0.006	72.359	0.005	51.001	0.001	560
0.001	6000	10.904	72.746	53.183	72.752	-0.006	53.184	-0.001	72.742	0.004	53.183	0.000	580
0.001	6000	10.902	73.116	55.364	73.120	-0.004	55.355	0.009	73.112	0.004	55.366	-0.002	600

CHL
MO:
DATA
BITS
9
.166
.645

FITS
9
70000
70000

	-----NOTS-----								-----EST-----					
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		
1													T	C
2	400	11.094	58.819	1.091	59.233	-0.414	1.263	-0.172	59.380	-0.562	1.325	-0.234	K	C
3	600	12.243	63.549	3.432	63.520	0.029	3.398	0.034	63.498	0.051	3.381	0.051	400	26
12	800	13.056	67.189	5.966	67.128	0.061	5.912	0.054	67.106	0.083	5.896	0.070	600	29
12	1000	13.657	70.170	8.640	70.131	0.039	8.606	0.034	70.125	0.045	8.605	0.035	800	30
14	1200	14.122	72.702	11.420	72.686	0.016	11.409	0.011	72.690	0.012	11.420	0.000	1000	30
14	1400	14.488	74.908	14.282	74.904	0.004	14.289	-0.007	74.912	-0.004	14.303	-0.021	1200	31
18	1600	14.776	76.862	17.210	76.864	-0.002	17.225	-0.015	76.870	-0.008	17.236	-0.026	1400	31
16	1800	15.001	78.616	20.188	78.619	-0.003	20.204	-0.017	78.620	-0.004	20.209	-0.021	1600	31
12	2000	15.172	80.206	23.206	80.207	-0.001	23.219	-0.013	80.203	0.003	23.214	-0.008	1800	31
12	2200	15.300	81.658	26.254	81.656	0.002	26.262	-0.008	81.649	0.009	26.248	0.006	2000	31
14	2400	15.392	82.993	29.324	82.989	0.004	29.325	-0.001	82.981	0.012	29.308	0.016	2200	31
14	2600	15.457	84.228	32.409	84.222	0.006	32.406	0.003	84.215	0.013	32.393	0.016	2400	31
11	2800	15.499	85.375	35.505	85.368	0.007	35.499	0.006	85.366	0.009	35.501	0.004	2600	31
14	3000	15.524	86.446	38.608	86.438	0.008	38.600	0.008	86.446	0.000	38.630	-0.022	2800	31
2	3000	15.524	86.446	38.608	86.438	0.008	38.600	0.008	86.446	0.000	38.609	-0.001	3000	31
1	3200	15.536	87.448	41.714	87.440	0.008	41.707	0.007	87.448	-0.000	41.715	-0.001	3000	31
6	3400	15.538	88.390	44.821	88.383	0.007	44.816	0.005	88.390	-0.000	44.822	-0.001	3200	31
5	3600	15.533	89.278	47.929	89.272	0.006	47.926	0.003	89.278	0.000	47.928	0.001	3400	31
2	3800	15.523	90.117	51.034	90.112	0.005	51.035	-0.001	90.117	-0.000	51.033	0.001	3600	31
0	4000	15.509	90.913	54.137	90.909	0.004	54.141	-0.004	90.913	0.000	54.136	0.001	3800	31
2	4200	15.492	91.670	57.238	91.665	0.005	57.243	-0.005	91.669	0.001	57.236	0.002	4000	31
3	4400	15.474	92.390	60.334	92.386	0.004	60.340	-0.006	92.390	0.000	60.332	0.002	4200	31
2	4600	15.455	93.077	63.427	93.073	0.004	63.432	-0.005	93.077	-0.000	63.426	0.001	4400	31
1	4800	15.435	93.735	66.516	93.730	0.005	66.519	-0.003	93.735	0.000	66.516	0.000	4600	31
0	5000	15.416	94.364	69.601	94.359	0.005	69.601	-0.000	94.364	-0.000	69.602	-0.001	4800	31
1	5200	15.396	94.969	72.683	94.963	0.006	72.680	0.003	94.969	0.000	72.684	-0.001	5000	31
2	5400	15.377	95.549	75.760	95.543	0.006	75.755	0.005	95.550	-0.001	75.761	-0.001	5200	31
1	5600	15.358	96.108	78.833	96.102	0.006	78.828	0.005	96.108	-0.000	78.835	-0.002	5400	31
0	5800	15.340	96.647	81.903	96.641	0.006	81.902	0.001	96.647	0.000	81.903	-0.000	5600	31
2	6000	15.323	97.167	84.970	97.163	0.004	84.978	-0.008	97.166	0.001	84.967	0.003	5800	31
													6000	31

CHLORINE PENTAFLUORIDE (G) CL 1F 5 666
 MOL. WT.= 130.440 BLOCK= 4279 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFCRM(KCAL/(MOLE)) = -57.000 KEY = 904
 FITS FOR NOTS RMS = 0.005224
 9 1 17 0 0 0 0 0 0 0 CHLORINE PENTAFLUORIDE (G) 10J 666 904
 1.1661270E+1+9.0228319E-2-2.1925739E-2+1.7860857E-3 4C0 6000 11J 666 904
 1.6459960E-1-6.9516403E+1+1.0758392E+2-5.7000000E+1CLF5 (G) 12J 666 904

COP
 NO
 DATA
 FITS
 1 9
 +1.308
 -3.007

FITS FOR EST RMS LOW = 0.003840 RMS HIGH = 0.009485
 9 1 17 0 0 0 0 0 0 0 CHLORINE PENTAFLUORIDE (G) 10CLF5
 570000+5+830332+5+317076+2+276046-4-969248+6+142608+3 4003000J 66611CLF5
 570000+5+830391+5+320088+2-313390-4-246092+7+142608+330006000J 66612CLF5

FITS
 1 9
 -46000
 -46000

T	-----NOTS-----								-----EST-----				T
	K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
34	400	26.295	81.539	2.537	81.622	-0.083	2.566	-0.029	81.624	-0.085	2.571	-0.034	400 1
51	600	29.058	92.815	8.117	92.801	0.014	8.103	0.014	92.804	0.011	8.108	0.009	500 1
70	800	30.188	101.350	14.057	101.338	0.012	14.044	0.013	101.342	0.008	14.049	0.007	600 1
135	1000	30.746	108.153	20.156	108.146	0.007	20.148	0.008	108.150	0.003	20.154	0.002	700 1
200	1200	31.058	113.789	26.339	113.785	0.004	26.334	0.005	113.789	0.000	26.340	-0.001	800 1
21	1400	31.250	118.592	32.571	118.590	0.002	32.568	0.003	118.593	-0.001	32.573	-0.002	900 1
26	1600	31.376	122.773	38.835	122.772	0.001	38.833	0.002	122.774	-0.001	38.836	-0.001	1000 1
21	1800	31.463	126.474	45.119	126.473	0.001	45.118	0.001	126.475	-0.001	45.120	-0.001	1100 1
8	2000	31.525	129.792	51.418	129.792	0.000	51.418	0.000	129.792	-0.000	51.418	-0.000	1200 1
06	2200	31.571	132.799	57.728	132.799	0.000	57.728	0.000	132.799	0.000	57.727	0.001	1300 1
16	2400	31.607	135.548	64.046	135.548	0.000	64.046	-0.000	135.547	0.001	64.045	0.001	1400 1
16	2600	31.635	138.079	70.370	138.079	0.000	70.371	-0.001	138.078	0.001	70.369	0.001	1500 1
04	2800	31.656	140.424	76.699	140.424	-0.000	76.700	-0.001	140.424	0.000	76.699	0.000	
22	3000	31.674	142.609	83.032	142.609	-0.000	83.034	-0.002	142.609	0.000	83.033	-0.001	
01	3200	31.674	142.609	83.032	142.609	-0.000	83.034	-0.002	142.609	0.000	83.039	-0.007	
01	3400	31.689	144.654	89.369	144.654	0.000	89.370	-0.001	144.652	0.002	89.370	-0.001	
01	3600	31.701	146.575	95.708	146.575	-0.000	95.710	-0.002	146.572	0.003	95.706	0.002	
01	3800	31.711	148.387	102.049	148.388	-0.001	102.051	-0.002	148.384	0.003	102.046	0.003	
01	4000	31.719	150.102	108.392	150.102	-0.000	108.394	-0.002	150.099	0.003	108.388	0.004	
02	4200	31.727	151.729	114.737	151.729	-0.000	114.738	-0.001	151.726	0.003	114.733	0.004	
02	4400	31.733	153.278	121.083	153.277	0.001	121.084	-0.001	153.274	0.004	121.080	0.003	
01	4600	31.739	154.754	127.430	154.754	0.000	127.431	-0.001	154.751	0.003	127.428	0.002	
00	4800	31.743	156.165	133.778	156.165	0.000	133.778	-0.000	156.162	0.003	133.777	0.001	
01	5000	31.747	157.516	140.127	157.516	0.000	140.127	0.000	157.514	0.002	140.127	-0.000	
01	5200	31.751	158.812	146.477	158.812	0.000	146.476	0.001	158.810	0.002	146.478	-0.001	
01	5400	31.754	160.057	152.827	160.057	0.000	152.826	0.001	160.055	0.002	152.829	-0.002	
02	5600	31.757	161.256	159.179	161.255	0.001	159.177	0.002	161.254	0.002	159.180	-0.001	
00	5800	31.760	162.411	165.530	162.410	0.001	165.529	0.001	162.408	0.003	165.531	-0.001	
03	6000	31.762	163.525	171.883	163.525	0.000	171.882	0.001	163.523	0.002	171.882	0.001	
	6200	31.764	164.602	178.235	164.602	0.000	178.236	-0.001	164.599	0.003	178.232	0.003	

COPPER MONOFLUORIDE

(C) CU 1F 1 0 0 0 0

666

MOL. WT. = 82.530

BLOCK = 4285

NO. POINT = 14

DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -46.000 KEY = 905

FITS FOR NOTS RMS = 0.000418

1 9 1 29 0 0 0 0 0 0 0 COPPER MONOFLUORIDE (C) 30J 666 905
 +1.3087045E+1+6.0535526E+0-5.0740356E+0+1.3792896E+0 400 1500 31J 666 905
 -3.0078411E-1-5.1153442E+1+2.8005187E+1-4.6000000E+1CUP(C) 32J 666 905

FITS FOR EST RMS LOW = 0.001030 RMS HIGH = 0.001030

1 9 1 29 0 0 0 0 0 0 0 COPPER MONOFLUORIDE (C) 30CUP\$
 -460000+5+402095+5+159493+2-318331-3-495622+6+487971+2 4001500J 66631CUP\$
 -460000+5+402095+5+159493+2-318331-3-495622+6+487971+2 4001500J 66632CUP\$

-----NOTS-----

-----EST-----

DE	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.034	400	12.950	18.997	1.218	18.999	-0.002	1.218	-0.000	19.010	-0.013	1.222	-0.004
0.009	500	13.820	21.987	2.559	21.985	0.002	2.558	0.001	21.979	0.008	2.555	0.004
0.007	600	14.350	24.556	3.969	24.556	0.000	3.969	-0.000	24.552	0.004	3.967	0.002
0.002	700	14.700	26.796	5.423	26.796	-0.000	5.423	0.000	26.797	-0.001	5.423	-0.000
-0.001	800	14.920	28.774	6.904	28.774	-0.000	6.905	-0.001	28.776	-0.002	6.906	-0.002
-0.002	900	15.060	30.540	8.404	30.540	-0.000	8.404	-0.000	30.541	-0.001	8.405	-0.001
-0.001	1000	15.150	32.132	9.915	32.132	0.000	9.915	0.000	32.132	0.000	9.915	0.000
-0.001	1100	15.190	33.578	11.432	33.578	0.000	11.432	0.000	33.577	0.001	11.431	0.001
-0.000	1200	15.220	34.901	12.952	34.901	-0.000	12.953	-0.001	34.900	0.001	12.952	0.000
0.001	1300	15.240	36.170	14.475	36.120	0.000	14.475	-0.000	36.120	0.000	14.475	-0.000
0.001	1400	15.250	37.250	16.000	37.249	0.001	15.999	0.001	37.250	0.000	16.000	0.000
0.001	1500	15.250	38.302	17.525	38.302	-0.000	17.525	-0.000	38.302	0.000	17.525	-0.000
0.000												
-0.001												
-0.007												
-0.001												
0.002												
0.003												
0.004												
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-0.001												
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-0.001												
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180
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120
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COPPER MONOFLUORIDE (G) CU 1F 1 0 0 0 0 666
 MOL. WT.= 82.530 BLOCK= 4287 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 12.000 KEY = 906
 FITS FOR NOTS RMS = 0.022727
 1 9 1 29 0 0 0 0 0 0 0 COPPER MONOFLUORIDE (G) 10J 666 906
 1.0386905E+1-1.1400651E+0+3.2980370E-1-1.6892492E-2 400 6000 11J 666 906
 1.1893615E-1+7.6056671E+0+6.5167098E+1+1.2000000E+1CUP(G) 12J 666 906

FITS FOR EST RMS LOW = 0.004351 RMS HIGH = 0.010696
 1 9 1 29 0 0 0 0 0 0 0 COPPER MONOFLUORIDE (G) 10CUP
 120000+5+244393+5+882960+1+187112-3-764800+5+745259+2 4003000J 66611CUP
 120000+5+244490+5+525328+1+103582-2+940984+7+745259+230006000J 66612CUP

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DII KC/M	-----NOTS-----								-----EST-----				T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
0.004	100	8.342	56.509	0.833	56.841	-0.332	0.973	-0.140	56.483	0.026	0.821	0.012	1
0.004	200	8.693	59.968	2.541	59.956	0.012	2.521	0.020	59.968	-0.000	2.542	-0.001	2
0.002	300	8.855	62.494	4.298	62.445	0.049	4.254	0.044	62.499	-0.005	4.302	-0.004	3
0.000	400	8.948	64.481	6.079	64.446	0.035	6.047	0.032	64.485	-0.004	6.083	-0.004	4
0.002	500	9.013	66.118	7.875	66.101	0.017	7.863	0.012	66.121	-0.003	7.877	-0.002	5
0.001	600	9.063	67.511	9.683	67.506	0.005	9.686	-0.003	67.512	-0.001	9.682	0.001	6
0.000	700	9.105	68.724	11.500	68.725	-0.001	11.512	-0.012	68.724	-0.000	11.498	0.002	7
0.001	800	9.143	69.799	13.325	69.802	-0.003	13.340	-0.015	69.799	0.000	13.322	0.003	8
0.000	900	9.179	70.764	15.157	70.766	-0.002	15.171	-0.014	70.764	-0.000	15.155	0.002	9
0.000	1000	9.216	71.640	16.996	71.640	-0.000	17.005	-0.009	71.641	-0.001	16.996	0.000	10
0.000	1100	9.256	72.444	18.843	72.441	0.003	18.847	-0.004	72.446	-0.002	18.845	-0.002	11
0.000	1200	9.303	73.187	20.699	73.182	0.005	20.697	0.002	73.189	-0.002	20.702	-0.003	12
0.000	1300	9.359	73.878	22.565	73.872	0.006	22.559	0.006	73.880	-0.002	22.567	-0.002	13
0.000	1400	9.426	74.526	24.443	74.519	0.007	24.435	0.008	74.526	0.000	24.439	0.004	14
0.000	1500	9.426	74.526	24.443	74.519	0.007	24.435	0.008	74.526	0.000	24.449	-0.006	15
0.000	1600	9.507	75.137	26.337	75.130	0.007	26.328	0.009	75.135	0.002	26.338	-0.001	16
0.000	1700	9.602	75.716	28.247	75.710	0.006	28.241	0.006	75.714	0.002	28.245	0.002	17
0.000	1800	9.712	76.268	30.178	76.262	0.006	30.175	0.003	76.265	0.003	30.175	0.003	18
0.000	1900	9.837	76.796	32.133	76.792	0.004	32.133	0.000	76.793	0.003	32.129	0.004	19
0.000	2000	9.976	77.304	34.114	77.300	0.004	34.117	-0.003	77.302	0.002	34.112	0.002	20
0.000	2100	10.128	77.795	36.124	77.791	0.004	36.130	-0.006	77.793	0.002	36.124	0.000	21
0.000	2200	10.289	78.270	38.166	78.266	0.004	38.172	-0.006	78.268	0.002	38.167	-0.001	22
0.000	2300	10.460	78.731	40.241	78.727	0.004	40.246	-0.005	78.729	0.002	40.243	-0.002	23
0.000	2400	10.636	79.180	42.350	79.176	0.004	42.353	-0.003	79.178	0.002	42.353	-0.003	24
0.000	2500	10.816	79.617	44.495	79.613	0.004	44.495	-0.000	79.616	0.001	44.497	-0.002	25
0.000	2600	10.997	80.045	46.677	80.040	0.005	46.674	0.003	80.043	0.002	46.676	0.001	26
0.000	2700	11.177	80.463	48.894	80.458	0.005	48.889	0.005	80.461	0.002	48.892	0.002	27
0.000	2800	11.354	80.873	51.147	80.868	0.005	51.142	0.005	80.871	0.002	51.144	0.003	28
0.000	2900	11.525	81.275	53.435	81.270	0.005	53.434	0.001	81.272	0.003	53.434	0.001	29
0.000	3000	11.690	81.668	55.757	81.665	0.003	55.765	-0.008	81.667	0.001	55.761	-0.004	30

666

NO. POINT = 19

KEY = 907

0.001755

(C) 30J 666 907

31J 666 907

32J 666 907

0.028025 RMS HIGH = 0.028025

(C) 30CUF2\$

66631CDF2\$

66632CUF2\$

[illegible]

C
DA
PI
2
+1.3
+1.6

PT
2
-686
-686

[illegible]

COPPER DIPLUORIDE

(G) CU 1F 2 0 0 0 0

666

MOL. WT. = 101.530 BLOCK = 4297 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -68.700 KEY = 909

FITS FOR NOTS RMS = 0.029402

2 9 1 29 0 0 0 0 0 0 0 COPPER DIPLUORIDE (G) 10J 666 909
 +1.3637872E+1+5.4227650E-1+1.2931746E-1-2.1879553E-2 400 6000 11J 666 909
 +1.6108703E-1-7.2665405E+1+7.7104049E+1-6.8699996E+1CUF2(G) 12J 666 909

FITS FOR EST RMS LOW = 0.018645 RMS HIGH = 0.016751

2 9 1 29 0 0 0 0 0 0 0 COPPER DIPLUORIDE (G) 10CUF2
 -686999+5+400329+5+137560+2+673088-3+399680+5+940799+2 4003000J 66611CUF2
 -686999+5+400597+5+181944+2-122077-3-189826+8+940799+230006000J 66612CUF2

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.000	400	13.199	64.723	1.304	64.331	0.392	1.133	0.171	64.490	0.233	1.206	0.098	
0.000	600	14.029	70.257	4.040	70.261	-0.004	4.055	-0.015	70.272	-0.015	4.057	-0.017	
0.000	800	14.384	74.348	6.886	74.406	-0.058	6.937	-0.051	74.388	-0.040	6.919	-0.033	
0.000	1000	14.564	77.579	9.782	77.623	-0.044	9.820	-0.038	77.603	-0.024	9.802	-0.020	
0.000	1200	14.673	80.245	12.707	80.266	-0.021	12.719	-0.012	80.252	-0.007	12.708	-0.001	
0.000	1400	14.758	82.513	15.650	82.518	-0.005	15.641	0.009	82.511	0.002	15.639	0.011	
0.000	1600	14.846	84.490	18.610	84.486	0.004	18.589	0.021	84.485	0.005	18.595	0.015	
0.000	1800	14.949	86.244	21.589	86.238	0.006	21.566	0.023	86.241	0.003	21.578	0.011	
0.000	2000	15.072	87.825	24.591	87.822	0.003	24.572	0.019	87.826	-0.001	24.588	0.003	
0.000	2200	15.213	89.268	27.620	89.269	-0.001	27.608	0.012	89.273	-0.005	27.623	-0.003	
0.000	2400	15.367	90.599	30.677	90.603	-0.004	30.674	0.002	90.605	-0.006	30.686	-0.009	
0.000	2600	15.528	91.835	33.767	91.842	-0.007	33.772	-0.005	91.841	-0.007	33.775	-0.008	
0.000	2800	15.692	92.992	36.889	93.001	-0.009	36.899	-0.010	92.996	-0.004	36.890	-0.001	
0.000	3000	15.852	94.080	40.043	94.090	-0.010	40.056	-0.013	94.080	0.000	40.033	0.010	
0.000	3000	15.852	94.080	40.043	94.090	-0.010	40.056	-0.013	94.080	0.000	40.060	-0.017	
0.000	3200	16.005	95.108	43.229	95.117	-0.009	43.241	-0.012	95.102	0.006	43.227	0.002	
0.000	3400	16.148	96.082	46.444	96.091	-0.009	46.454	-0.010	96.075	0.007	46.437	0.007	
0.000	3600	16.280	97.009	49.687	97.017	-0.008	49.693	-0.006	97.002	0.007	49.680	0.007	
0.000	3800	16.398	97.893	52.955	97.899	-0.006	52.956	-0.001	97.886	0.007	52.951	0.004	
0.000	4000	16.503	98.736	56.246	98.742	-0.006	56.242	0.004	98.731	0.005	56.245	0.001	
0.000	4200	16.595	99.544	59.556	99.549	-0.005	59.550	0.006	99.539	0.005	59.558	-0.002	
0.000	4400	16.673	100.318	62.883	100.322	-0.004	62.876	0.007	100.313	0.005	62.886	-0.003	
0.000	4600	16.739	101.060	66.224	101.065	-0.005	66.218	0.006	101.056	0.004	66.228	-0.004	
0.000	4800	16.792	101.774	69.578	101.779	-0.005	69.573	0.005	101.769	0.005	69.580	-0.002	
0.000	5000	16.834	102.460	72.941	102.466	-0.006	72.940	0.001	102.455	0.005	72.941	0.000	
0.000	5200	16.866	103.121	76.311	103.128	-0.007	76.314	-0.003	103.116	0.005	76.309	0.002	
0.000	5400	16.888	103.758	79.686	103.765	-0.007	79.692	-0.006	103.752	0.006	79.684	0.002	
0.000	5600	16.902	104.373	83.065	104.380	-0.007	83.071	-0.006	104.367	0.006	83.063	0.002	
0.000	5800	16.908	104.966	86.446	104.972	-0.006	86.448	-0.002	104.960	0.006	86.446	0.000	
0.000	6000	16.907	105.539	89.828	105.544	-0.005	89.818	0.010	105.534	0.005	89.831	-0.003	

DA
FI
1
+1.0
-1.3

FI
1
-372
-372

DH

KC/M

0.098

0.017

0.033

0.020

0.001

0.011

0.015

0.011

0.003

0.003

0.009

0.008

0.001

0.010

0.017

0.002

0.407

0.007

0.004

0.001

0.002

-0.003

0.004

-0.002

0.000

0.002

0.002

0.002

0.000

-0.003

-----NOTS-----

-----EST-----

**T
K
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1000
1100
1200
1300
1400
1500
1600
1700
1800
1900
2000**

CUPRIC OXIDE (C) CU 10 1 0 0 0 0 666
 MOL. WT.= 79.530 BLOCK= 4305 NO. POINT = 22
 DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -37.250 KEY = 911
 FITS FOR NOTS RMS = 0.000529
 1 8 1 29 0 0 0 0 0 0 CUPRIC OXIDE (C) 30J 666 911
 +1.0817521E+1+3.0291252E+0+7.4180513E-1-1.3721805E-1 400 2000 31J 666 911
 -1.3555908E-1-4.1083221E+1+2.1540588E+1-3.7250000E+1CUO(C) 32J 666 911

FITS FOR EST RMS LOW = 0.001394 RMS HIGH = 0.001394
 1 8 1 29 0 0 0 0 0 0 CUPRIC OXIDE (C) 30CUO\$
 -372500+5+462414+5+999202+1+436010-2-429440+5+446395+2 4002000J 66631CUO\$
 -372500+5+462414+5+999202+1+436010-2-429440+5+446395+2 4002000J 66632CUO\$

M	-----NOTS-----								-----EST-----			
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
56	400	11.244	13.323	1.091	13.320	0.003	1.090	0.001	13.302	0.021	1.084	0.007
44	500	11.960	15.914	2.254	15.915	-0.001	2.254	-0.000	15.919	-0.005	2.258	-0.004
35	600	12.500	18.145	3.478	18.144	0.001	3.477	0.001	18.151	-0.006	3.482	-0.004
04	700	12.980	20.108	4.752	20.107	0.001	4.751	0.001	20.111	-0.003	4.755	-0.003
15	800	13.430	21.871	6.073	21.870	0.001	6.072	0.001	21.871	-0.000	6.073	-0.000
19	900	13.870	23.478	7.438	23.478	0.000	7.438	0.000	23.477	0.001	7.437	0.001
12	1000	14.310	24.962	8.847	24.963	-0.001	8.847	-0.000	24.961	0.001	8.846	0.001
01	1100	14.750	26.347	10.300	26.348	-0.001	10.301	-0.001	26.346	0.001	10.299	0.001
08	1200	15.190	27.649	11.797	27.650	-0.001	11.798	-0.001	27.648	0.001	11.796	0.001
12	1300	15.630	28.882	13.338	28.883	-0.001	13.339	-0.001	28.882	0.000	13.338	0.000
06	1400	16.070	30.057	14.923	30.057	-0.000	14.923	-0.000	30.057	0.000	14.923	-0.000
09	1500	16.510	31.180	16.552	31.181	-0.001	16.552	-0.000	31.181	-0.001	16.552	-0.000
	1600	16.950	32.260	18.225	32.260	-0.000	18.225	0.000	32.260	-0.000	18.226	-0.001
	1700	17.390	33.301	19.942	33.301	0.000	19.942	0.000	33.301	-0.000	19.943	-0.001
	1800	17.830	34.307	21.703	34.307	-0.000	21.703	0.000	34.307	-0.000	21.703	-0.001
	1900	18.270	35.283	23.508	35.283	-0.000	23.508	0.000	35.283	0.000	23.508	-0.000
	2000	18.710	36.231	25.357	36.232	-0.001	25.357	-0.000	36.231	0.000	25.356	0.001

COPPER SULFATE (C) CU 10 4S 1 0 0 0 666
 MOL. WT. = 159.600 BLOCK = 4307 NO. POINT = 22
 DATA FROM 0 TO 2000 K HFORM (KCAL/(MOLE)) = -184.030 KEY = 912
 FITS FOR NOTS RMS = 0.002648
 4 8 1 16 1 29 0 0 0 0 0 COPPER SULFATE (C) 30J 666 912
 +3.3613143E+1+6.6342239E+0-2.6113996E+0+5.8294010E-1 400 2000 31J 666 912
 -1.4701080E+0-1.9901168E+2+5.7390167E+1-1.8402999E+2CUO4S (C) 32J 666 912

 FITS FOR EST RMS LOW = 0.003167 RMS HIGH = 0.003167
 4 8 1 16 1 29 0 0 0 0 0 C COPPER SULFATE (C) 30CUO4S\$
 -184029+6+103786+6+356974+2+270030-2-165752+7+107531+3 4002000J 66631CUO4S\$
 -184029+6+103786+6+356974+2+270030-2-165752+7+107531+3 4002000J 66632CUO4S\$

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
400	27.470	33.617	2.611	33.642	-0.025	2.618	-0.007	33.671	-0.054	2.629	-0.018				
500	30.400	40.076	5.510	40.047	0.029	5.495	0.015	40.042	0.034	5.492	0.018				
600	32.580	45.820	8.664	45.814	0.006	8.661	0.003	45.808	0.012	8.658	0.006				
700	34.160	50.966	12.005	50.972	-0.006	12.009	-0.004	50.970	-0.004	12.008	-0.003				1
800	35.300	55.606	15.481	55.609	-0.003	15.482	-0.002	55.610	-0.004	15.485	-0.004				1
900	36.100	59.811	19.052	59.811	0.000	19.051	0.001	59.813	-0.002	19.054	-0.002				1
1000	36.750	63.649	22.695	63.648	0.001	22.694	0.001	63.650	-0.001	22.696	-0.001				1
1100	37.300	67.178	26.398	67.178	0.000	26.398	0.000	67.178	-0.000	26.398	-0.000				1
1200	37.790	70.445	30.153	70.446	-0.001	30.154	-0.001	70.445	0.000	30.153	-0.000				2
1300	38.230	73.488	33.955	73.489	-0.001	33.956	-0.001	73.487	0.001	33.954	0.001				2
1400	38.630	76.336	37.798	76.337	-0.001	37.800	-0.002	76.335	0.001	37.797	0.001				2
1500	39.010	79.014	41.680	79.015	-0.001	41.682	-0.002	79.013	0.001	41.680	0.000				2
1600	39.370	81.543	45.599	81.544	-0.001	45.600	-0.001	81.543	0.000	45.599	0.000				2
1700	39.710	83.940	49.553	83.940	0.000	49.552	0.001	83.940	0.000	49.553	-0.000				2
1800	40.050	86.220	53.541	86.219	0.001	53.539	0.002	86.219	0.001	53.541	-0.000				3
1900	40.370	88.394	57.562	88.393	0.001	57.560	0.002	88.393	0.001	57.562	-0.000				
2000	40.690	90.472	61.615	90.473	-0.001	61.616	-0.001	90.472	0.000	61.615	0.000				

CUPROUS OXIDE (C) CU 20 1 0 0 0 0 666
 MOL. WT.= 143.070 BLOCK= 4309 NO. POINT = 32
 DATA FROM 0 TO 3000 K HFORM(KCAL/(MOLE)) = -40.700 KEY = 913
 FITS FOR NOTS RMS = 0.002258
 1 8 2 29 0 0 0 0 0 0 CUPROUS OXIDE (C) 30J 666 913
 +1.3070693E+1+7.4483833E+0-1.6611045E-1+2.1606743E-2 400 3000 31J 666 913
 +1.7256164E-1-4.4477813E+1+3.6406005E+1-4.0699996E+1CU20(C) 32J 666 913

FITS FOR EST RMS LOW = 0.003575 RMS HIGH = 0.003575
 1 8 2 29 0 0 0 0 0 0 CUPROUS OXIDE (C) 30CU20\$
 -406999+5+678384+5+134328+2+702883-2+976640+5+725469+2 4003000J 66631CU20\$
 -406999+5+678384+5+134328+2+702883-2+976640+5+725469+2 4003000J 66632CU20\$

	-----NOTS-----								-----EST-----			
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
018	400	16.580	26.893	1.626	26.857	0.036	1.612	0.014	26.906	-0.013	1.634	-0.008
018	600	18.040	33.919	5.101	33.930	-0.011	5.106	-0.005	33.928	-0.009	5.105	-0.004
006	800	19.220	39.269	8.826	39.264	0.005	8.820	0.006	39.258	0.011	8.816	0.010
003	1000	20.520	43.694	12.797	43.692	0.002	12.795	0.002	43.688	0.006	12.792	0.005
004	1200	21.920	47.559	17.041	47.560	-0.001	17.042	-0.001	47.558	0.001	17.042	-0.001
002	1400	23.320	51.043	21.565	51.045	-0.002	21.566	-0.001	51.044	-0.001	21.567	-0.002
001	1600	24.720	54.249	26.369	54.250	-0.001	26.370	-0.001	54.249	0.000	26.371	-0.002
000	1800	26.120	57.241	31.453	57.242	-0.001	31.454	-0.001	57.241	0.000	31.454	-0.001
000	2000	27.520	60.066	36.817	60.066	-0.001	36.818	-0.001	60.065	0.001	36.817	-0.000
001	2200	28.920	62.754	42.461	62.755	-0.001	42.461	-0.000	62.753	0.001	42.460	0.001
001	2400	30.320	65.331	48.385	65.331	-0.000	48.385	-0.000	65.329	0.002	48.384	0.001
000	2600	31.720	67.813	54.589	67.813	-0.000	54.589	0.000	67.811	0.002	54.588	0.001
000	2800	33.120	70.215	61.073	70.215	-0.000	61.073	0.000	70.214	0.001	61.073	0.000
000	3000	34.520	72.547	67.837	72.548	-0.001	67.837	0.000	72.547	0.000	67.838	-0.001
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MOL. WT. = 143.070 BLOCK = 4313 NO. POINT = 29

DATA FROM 298 TO 3000 K HFORM(KCAL/(MOLE)) = -32.029 KEY = 914

FITS FOR NOTS RMS = 0.001074

1 8 2 29 0 0 0 0 0 0 0 DICOPPER MONOXIDE (L) 20J 666 914

2.3948669E+1+9.2928290E-2-5.3240731E-2+9.5202103E-3 400 3000 21J 666 914

4.6997070E-3-3.9161026E+1+5.1877120E+1-3.2028991E+1CU20 (L) 22J 666 914

FITS FOR EST RMS LOW = 0.000385 RMS HIGH = 0.000385

1 8 2 29 0 0 0 0 0 0 0 DICOPPER MONOXIDE (L) 20CU20*

-320289+5+648439+5+240041+2-142524-5-328000+4+783119+2 4003000J 66621CU20*

-320289+5+648439+5+240041+2-142524-5-328000+4+783119+2 4003000J 66622CU20*

-----NOTS-----												
-----EST-----												
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
34 -0.008	400	24.000	29.954	2.444	29.952	0.002	2.442	0.002	29.960	-0.006	2.447	-0.003
05 -0.004	600	24.000	39.685	7.244	39.684	0.001	7.243	0.001	39.687	-0.002	7.245	-0.001
16 0.010	800	24.000	46.589	12.044	46.588	0.001	12.043	0.001	46.590	-0.001	12.044	0.000
92 0.005	1000	24.000	51.945	16.844	51.944	0.001	16.843	0.001	51.945	-0.000	16.844	0.000
42 -0.001	1200	24.000	56.321	21.644	56.320	0.001	21.644	0.000	56.321	0.000	21.644	0.000
67 -0.002	1400	24.000	60.020	26.444	60.021	-0.001	26.444	-0.000	60.020	-0.000	26.444	0.000
71 -0.002	1600	24.000	63.225	31.244	63.226	-0.001	31.245	-0.001	63.225	-0.000	31.244	0.000
54 -0.001	1800	24.000	66.052	36.044	66.053	-0.001	36.045	-0.001	66.052	-0.000	36.044	0.000
17 -0.000	2000	24.000	68.580	40.844	68.581	-0.001	40.845	-0.001	68.581	-0.001	40.844	0.000
60 0.001	2200	24.000	70.868	45.644	70.868	-0.001	45.645	-0.001	70.868	-0.000	45.644	0.000
84 0.001	2400	24.000	72.956	50.444	72.957	-0.001	50.444	-0.000	72.957	-0.001	50.444	-0.000
88 0.001	2600	24.000	74.877	55.244	74.877	-0.000	55.244	0.000	74.878	-0.001	55.244	-0.000
73 0.000	2800	24.000	76.656	60.044	76.656	0.000	60.044	0.000	76.656	-0.000	60.044	-0.000
38 -0.001	3000	24.000	78.312	64.844	78.312	0.000	64.844	-0.000	78.312	0.000	64.844	0.000

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BASIC COPPER SULFATE (C) CU 20 5S 1 0 0 0 666
MOL. WT.= 239.140 BLOCK= 4316 NO. POINT = 14
DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -221.700 KEY = 915
FITS FOR NOTS RMS = 0.001667
5 8 1 16 2 29 0 0 0 0 0 BASIC COPPER SULFATE (C) 30J 666 915
+4.5748062E+1+3.3207912E+0+4.3705244E+0-1.1462469E+0 400 1500 31J 666 915
-1.4943237E+0-2.4037950E+2+8.3855529E+1-2.2169999E+2CU2O5S(C) 32J 666 915

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FITS FOR EST      RMS LOW =      0.001995 RMS  HIGH =      0.001995
 5  8 1 16 2 29 0  0 0  0 0  0 BASIC COPPER SULFATE (C) 30CU205S$
-221699+6+152740+6+431343+2+898828-2-131166+7+154507+3 4001500J 66631CU205S$
-221699+6+152740+6+431343+2+898828-2-131166+7+154507+3 4001500J 66632CU205S$

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[illegible]

FERROUS HYDROXIDE (C) FE 1H 20 2 0 0 0 666
 MOL. WT.= 89.860 BLOCK= 4317 NO. POINT = 14
 DATA FROM 298 TO 1500 K HFCRM(KCAL/(MOLE)) = -137.200 KEY = 916
 FITS FOR NOTS RMS = 0.000337
 1 2 8 1 26 0 0 0 0 0 FERROUS HYDROXIDE (C) 30J 666 916
 .4469299E+0+4.8227722E+1-3.3753082E+1+7.9697914E+0 400 1500 31J 666 916
 .9259033E-1-1.3906295E+2+1.8981979E+1-1.3719999E+2FEH2O2 (C) 32J 666 916

FITS FOR EST RMS LOW = 0.016627 RMS HIGH = 0.016627
 2 1 2 8 1 26 0 0 0 0 0 FERROUS HYDROXIDE (C) 30FEH2O2\$
 137199+6+797768+5+305225+2+192074-3-134611+7+860193+2 4001500J 66631FEH2O2\$
 137199+6+797768+5+305225+2+192074-3-134611+7+860193+2 4001500J 66632FEH2O2\$

-----NOTS-----														-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH					
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M					
0.000	400	24.400	27.987	2.424	27.984	0.003	2.423	0.001	28.152	-0.165	2.486	-0.062					
0.001	500	25.520	33.552	4.921	33.555	-0.003	4.922	-0.001	33.468	0.084	4.874	0.047					
-0.004	600	26.600	38.302	7.527	38.301	0.001	7.527	0.000	38.229	0.073	7.488	0.039					
-0.002	700	27.600	42.480	10.239	42.479	0.001	10.238	0.001	42.457	0.023	10.232	0.007					
0.002	800	28.430	46.222	13.042	46.222	0.000	13.042	-0.000	46.230	-0.008	13.058	-0.016					
0.003	900	29.050	49.608	15.918	49.609	-0.001	15.918	-0.000	49.624	-0.016	15.940	-0.022					
0.002	1000	29.490	52.693	18.846	52.693	-0.000	18.847	-0.001	52.701	-0.008	18.861	-0.015					
-0.001	1100	29.760	55.517	21.810	55.517	-0.000	21.810	0.000	55.513	0.004	21.811	-0.001					
-0.003	1200	29.900	58.113	24.793	58.113	-0.000	24.793	-0.000	58.099	0.014	24.783	0.010					
-0.000	1300	29.960	60.509	27.787	60.509	-0.000	27.787	0.000	60.492	0.017	27.773	0.014					
0.002	1400	29.980	62.730	30.784	62.730	-0.000	30.784	0.000	62.718	0.012	30.778	0.006					
-0.000	1500	30.000	64.799	33.783	64.800	-0.001	33.783	-0.000	64.799	0.000	33.794	-0.011					

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IRON DIHYDROXIDE (G) FE 1H 20 2 0 0 0 1266
 MOL. WT. = 89.860 BLOCK = 4319 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = -79.000 KEY = 917
 FITS FOR NOTS RMS = 0.031543
 2 1 2 8 1 26 0 0 0 0 0 IRON DIHYDROXIDE (G) 10J1266 917
 +2.4003356E+1+1.4483890E+0-3.4559673E-1+2.6527687E-2 400 6000 11J1266 917
 -1.4077148E+0-9.0082458E+1+9.0671722E+1-7.9000000E+1FEH2O2(G) 12J1266 917

FITS FOR EST RMS LOW = 0.046591 RMS HIGH = 0.007950
 2 1 2 8 1 26 0 0 0 0 0 IRON DIHYDROXIDE (G) 10FEH2O2
 -790000+5+653726+5+249405+2+397229-3-157240+7+120159+3 4003000J126611FEH2O2
 -790000+5+653547+5+262906+2-562059-4-314265+7+120159+330006000J126612FEH2O2

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-----NOTS-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	19.362	72.953	1.869	73.629	-0.676	2.147	-0.278	73.701	-0.748	2.178	-0.309
600	21.397	81.245	5.973	81.174	0.071	5.902	0.071	81.163	0.082	5.896	0.077
800	22.588	87.573	10.377	87.468	0.105	10.287	0.090	87.462	0.111	10.284	0.093
1000	23.485	92.714	14.989	92.660	0.054	14.944	0.045	92.664	0.050	14.951	0.038
1200	24.156	97.058	19.756	97.041	0.017	19.752	0.004	97.051	0.007	19.764	-0.008
1400	24.643	100.820	24.639	100.821	-0.001	24.656	-0.018	100.830	-0.011	24.669	-0.030
1600	24.993	104.135	29.604	104.140	-0.005	29.628	-0.024	104.146	-0.011	29.635	-0.031
1800	25.242	107.094	34.629	107.097	-0.003	34.650	-0.021	107.098	-0.004	34.649	-0.020
2000	25.420	109.763	39.656	109.762	0.001	39.709	-0.013	109.759	0.004	39.701	-0.005
2200	25.548	112.192	44.794	112.187	0.005	44.799	-0.005	112.182	0.010	44.785	0.009
2400	25.641	114.420	49.913	114.411	0.009	49.911	0.002	114.405	0.015	49.896	0.017
2600	25.707	116.475	55.048	116.464	0.011	55.042	0.006	116.461	0.014	55.032	0.016
2800	25.756	118.382	60.195	118.371	0.011	60.186	0.009	118.373	0.009	60.192	0.003
3000	25.792	120.160	65.350	120.149	0.011	65.341	0.009	120.160	0.000	65.373	-0.023
3000	25.792	120.160	65.350	120.149	0.011	65.341	0.009	120.160	0.000	65.355	-0.005
3200	25.818	121.825	70.511	121.815	0.010	70.504	0.007	121.824	0.001	70.513	-0.002
3400	25.837	123.391	75.677	123.382	0.009	75.673	0.004	123.389	0.002	75.676	0.001
3600	25.851	124.868	80.845	124.860	0.008	80.845	-0.000	124.866	0.002	80.843	0.002
3800	25.861	126.266	86.017	126.259	0.007	86.020	-0.003	126.264	0.002	86.014	0.003
4000	25.868	127.593	91.190	127.586	0.007	91.195	-0.005	127.591	0.002	91.187	0.003
4200	25.873	128.855	96.364	128.849	0.006	96.370	-0.006	128.853	0.002	96.361	0.003
4400	25.877	130.059	101.539	130.052	0.007	101.545	-0.006	130.057	0.002	101.537	0.002
4600	25.879	131.209	106.714	131.202	0.007	106.719	-0.005	131.207	0.002	106.714	0.000
4800	25.880	132.311	111.890	132.303	0.008	111.893	-0.003	132.309	0.002	111.891	-0.001
5000	25.881	133.367	117.067	133.359	0.008	117.066	0.001	133.366	0.001	117.067	-0.000
5200	25.881	134.382	122.243	134.374	0.008	122.239	0.004	134.381	0.001	122.244	-0.001
5400	25.881	135.359	127.419	135.350	0.009	127.413	0.006	135.358	0.001	127.420	-0.001
5600	25.881	136.300	132.595	136.291	0.009	132.590	0.005	136.299	0.001	132.596	-0.001
5800	25.880	137.208	137.771	137.200	0.008	137.770	0.001	137.207	0.001	137.770	0.001
6000	25.879	138.086	142.947	138.079	0.007	142.955	-0.008	138.084	0.002	142.944	0.003

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FERROUS SULFATE (C) FE 10 4S 1 0 0 0 666
 MOL. WT.= 151.900 BLOCK= 4327 NO. POINT = 22
 DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -222.000 KEY = 919
 FITS FOR NOTS RMS = 0.002682
 4 8 1 16 1 26 0 0 0 0 0 FERROUS SULFATE (C) 30J 666 919
 +3.4018798E+1+6.6234340E+0-2.5940113E+0+5.7726216E-1 400 2000 31J 666 919
 -1.4675140E+0-2.3709580E+2+6.0688919E+1-2.2200000E+2FEO4S (C) 32J 666 919

FITS FOR EST RMS LOW = 0.003203 RMS HIGH = 0.003203
 4 8 1 16 1 26 0 0 0 0 0 FERROUS SULFATE (C) 30FEO4S\$
 -2220000+6+104896+6+361045+2+270203-2-165656+7+111276+3 4002000J 66631FEO4S\$
 -2220000+6+104896+6+361045+2+270203-2-165656+7+111276+3 4002000J 66632FEO4S\$

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.077	400	27.880	36.535	2.652	36.558	-0.023	2.659	-0.007	36.588	-0.053	2.671	-0.019	
0.051	500	30.810	43.085	5.593	43.055	0.030	5.577	0.016	43.051	0.034	5.575	0.018	
0.051	600	32.990	48.904	8.788	48.898	0.006	8.785	0.003	48.892	0.012	8.781	0.006	
0.017	700	34.570	54.113	12.170	54.120	-0.007	12.175	-0.005	54.117	-0.004	12.173	-0.003	
-0.015	800	35.710	58.808	15.687	58.812	-0.004	15.690	-0.003	58.812	-0.004	15.690	-0.003	
-0.030	900	36.510	63.061	19.299	63.061	-0.000	19.298	0.001	63.063	-0.002	19.300	-0.001	
-0.025	1000	37.160	66.943	22.983	66.942	0.001	22.982	0.001	66.943	-0.000	22.984	-0.001	
-0.008	1100	37.710	70.511	26.727	70.510	0.001	26.727	0.000	70.511	0.000	26.727	-0.000	
0.012	1200	38.200	73.813	30.523	73.814	-0.001	30.524	-0.001	73.813	-0.000	30.523	0.000	
0.022	1300	38.640	76.889	34.365	76.890	-0.001	34.367	-0.002	76.888	0.001	34.365	0.000	
0.015	1400	39.040	79.767	38.250	79.768	-0.001	38.251	-0.001	79.767	0.000	38.249	0.001	
-0.019	1500	39.420	82.473	42.173	82.475	-0.002	42.174	-0.001	82.473	-0.000	42.172	0.001	
	1600	39.780	85.029	46.133	85.030	-0.001	46.133	-0.001	85.029	-0.000	46.133	0.000	
	1700	40.120	87.451	50.128	87.451	0.000	50.127	0.001	87.451	-0.000	50.128	-0.000	
	1800	40.460	89.754	54.157	89.753	0.001	54.155	0.002	89.754	-0.000	54.157	-0.000	
	1900	40.780	91.950	58.219	91.949	0.001	58.217	0.002	91.950	-0.000	58.219	-0.000	
	2000	41.100	94.050	62.313	94.051	-0.001	62.314	-0.001	94.050	0.000	62.313	0.000	

FERRIC SULFATE

(C)

FE 20 12S 3 0 0 0

666

MOL. WT. = 399.870

BLOCK = 4329

NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -617.350 KEY = 920

FITS FOR NOTS RMS = 0.007387

919

8 3 16 2 26 0 0 0 0 FERRIC SULFATE

(C) 30J 666 920

919

-9860717E+1+1.6863571E+1-6.4771614E+0+1.4469404E+0 400 2000

31J 666 920

919

-8946075E+0-6.5725073E+2+1.5754608E+2-6.1734985E+2FE2012S3(C)

32J 666 920

FITS FOR EST RMS LOW = 0.008432 RMS HIGH = 0.008432

8 3 16 2 26 0 0 0 0 FERRIC SULFATE

(C) 30FE2012S3\$

-17349+6+276088+6+950223+2+711416-2-435867+7+290288+3 4002000J 66631FE2012S3\$

-17349+6+276088+6+950223+2+711416-2-435867+7+290288+3 4002000J 66632FE2012S3\$

-----NOTS-----

-----EST-----

	DH		T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	KC/M		K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
671	-0.019		400	73.380	93.570	6.981	93.636	-0.066	7.000	-0.019	93.709	-0.139	7.029	-0.048
575	0.018		500	81.090	110.809	14.721	110.731	0.078	14.679	0.042	110.721	0.088	14.672	0.049
781	0.006		600	86.830	126.125	23.130	126.109	0.016	23.122	0.008	126.093	0.032	23.113	0.017
173	-0.003		700	90.990	139.837	32.031	139.852	-0.015	32.043	-0.012	139.846	-0.009	32.040	-0.009
690	-0.003		800	93.990	152.193	41.287	152.202	-0.009	41.295	-0.008	152.204	-0.011	41.297	-0.010
300	-0.001		900	96.090	163.388	50.794	163.388	0.000	50.794	-0.000	163.393	-0.005	50.799	-0.005
984	-0.001		1000	97.810	173.604	60.492	173.601	0.003	60.489	0.003	173.604	-0.000	60.493	-0.001
727	-0.000		1100	99.250	182.995	70.346	182.993	0.002	70.345	0.001	182.994	0.001	70.346	0.000
523	0.000		1200	100.540	191.687	80.337	191.688	-0.001	80.338	-0.001	191.696	0.001	80.336	0.001
365	0.000		1300	101.700	199.781	90.450	199.784	-0.003	90.453	-0.003	199.779	0.002	90.448	0.002
249	0.001		1400	102.750	207.357	100.672	207.360	-0.003	100.677	-0.005	207.355	0.002	100.671	0.001
172	0.001		1500	103.750	214.480	110.998	214.483	-0.003	111.003	-0.005	214.479	0.001	110.997	0.001
133	0.000		1600	104.700	221.207	121.421	221.208	-0.001	121.423	-0.002	221.206	0.001	121.421	0.000
128	-0.000		1700	105.600	227.581	131.936	227.581	0.000	131.935	0.001	227.581	0.000	131.936	-0.000
157	-0.000		1800	106.490	233.642	142.541	233.640	0.002	142.537	0.004	233.642	0.000	142.541	-0.000
219	-0.000		1900	107.330	239.422	153.232	239.421	0.001	153.228	0.004	239.422	-0.000	153.232	-0.000
313	0.000		2000	108.180	244.949	164.007	244.951	-0.002	164.010	-0.003	244.949	0.000	164.007	0.000

PHOTON GAS (G) H 1 1
 MOL. WT.= 1.000 BLOCK= 4331 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 367.186 KEY = 921
 FITS FOR NOTS RMS = 0.001299

666

1 -1 1 1 0 0 0 0 0 0 0 PROTON GAS (G) 10J 666 921
 +4.9743776E+0-3.1062657E-3+3.6780070E-4-1.0087078E-6 400 6000 11J 666 921
 -3.0975341E-3+3.6569506E+2+3.2024810E+1+3.6718579E+2H+ (G) 12J 666 921

FITS FOR EST RMS LOW = 0.000504 RMS HIGH = 0.002005
 1 -1 1 1 0 0 0 0 0 0 0 PROTON GAS (G) 10H+
 +367185+6+134228+5+496705+1+489926-6-300000+1+374819+2 4003000J 66611H+
 +367185+6+134239+5+500478+1-533672-5-241744+6+374819+230006000J 66612H+

-----NOTS-----

-----EST-----

	DH KC/M	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
29	-0.048	400	4.968	27.472	0.506	27.475	-0.003	0.507	-0.001	27.473	-0.001	0.506	-0.000
72	0.049	600	4.968	29.486	1.500	29.486	-0.000	1.499	0.001	29.487	-0.001	1.500	0.000
13	0.017	800	4.968	30.916	2.493	30.915	0.001	2.492	0.001	30.916	0.000	2.493	-0.000
10	-0.009	1000	4.968	32.024	3.487	32.023	0.001	3.485	0.002	32.024	-0.000	3.487	0.000
37	-0.010	1200	4.968	32.930	4.480	32.929	0.001	4.479	0.001	32.930	0.000	4.480	-0.000
39	-0.005	1400	4.968	33.696	5.474	33.695	0.001	5.473	0.001	33.696	0.000	5.474	0.000
33	-0.001	1600	4.968	34.359	6.467	34.359	0.000	6.467	0.000	34.359	0.000	6.467	-0.000
16	0.000	1800	4.968	34.944	7.461	34.944	-0.000	7.461	0.000	34.944	-0.000	7.461	0.000
36	0.001	2000	4.968	35.468	8.455	35.468	0.000	8.454	0.001	35.468	0.000	8.455	0.000
18	0.002	2200	4.968	35.941	9.448	35.941	-0.000	9.448	-0.000	35.941	-0.000	9.448	-0.000
71	0.001	2400	4.968	36.373	10.442	36.374	-0.001	10.442	0.000	36.373	-0.000	10.442	0.000
37	0.001	2600	4.968	36.771	11.435	36.771	-0.000	11.435	-0.000	36.771	0.000	11.435	-0.000
21	0.000	2800	4.968	37.139	12.429	37.139	-0.000	12.429	-0.000	37.139	-0.000	12.429	-0.000
36	-0.000	3000	4.968	37.482	13.423	37.482	-0.000	13.423	0.000	37.482	0.000	13.423	0.000
11	-0.000	3000	4.968	37.482	13.423	37.482	-0.000	13.423	0.000	37.482	0.000	13.424	-0.001
32	-0.000	3200	4.968	37.803	14.416	37.803	0.000	14.416	-0.000	37.802	0.001	14.417	-0.001
17	0.000	3400	4.968	38.104	15.410	38.104	-0.000	15.410	0.000	38.103	0.001	15.410	0.000
		3600	4.968	38.388	16.403	38.388	0.000	16.403	-0.000	38.387	0.001	16.403	0.000
		3800	4.968	38.656	17.397	38.657	-0.001	17.397	0.000	38.656	0.000	17.396	0.001
		4000	4.968	38.911	18.390	38.911	-0.000	18.390	-0.000	38.911	0.000	18.390	0.000
		4200	4.968	39.154	19.384	39.154	0.000	19.384	0.000	39.153	0.001	19.384	0.000
		4400	4.968	39.385	20.378	39.385	0.000	20.377	0.001	39.384	0.001	20.377	0.001
		4600	4.968	39.606	21.371	39.606	0.000	21.371	-0.000	39.605	0.001	21.371	-0.000
		4800	4.968	39.817	22.365	39.817	-0.000	22.365	0.000	39.816	0.001	22.365	0.000
		5000	4.968	40.020	23.358	40.020	0.000	23.358	-0.000	40.019	0.001	23.359	-0.001
		5200	4.968	40.215	24.352	40.215	0.000	24.352	0.000	40.214	0.001	24.352	-0.000
		5400	4.968	40.402	25.346	40.402	-0.000	25.345	0.001	40.402	0.000	25.346	0.000
		5600	4.968	40.583	26.339	40.583	0.000	26.339	0.000	40.582	0.001	26.339	-0.000
		5800	4.968	40.757	27.333	40.757	-0.000	27.333	0.000	40.757	0.000	27.333	0.000
		6000	4.968	40.926	28.326	40.926	0.000	28.326	-0.000	40.925	0.001	28.326	0.000

HYDRONIUM ION (G) H 30 1 1 C 0 0 666 NI
 MOL. WT.= 19.020 BLOCK= 4337 NO. POINT = 59 Z
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 138.900 KEY = 922 DAT
 FITS FOR NOTS RMS = 0.043340 FIT
 1 -1 3 1 1 8 0 0 0 0 HYDRONIUM ION (G) 10J 666 922 1 -1
 1.0016816E+1+5.2247142E+(-1.0281057E+0+7.0388972E-2 400 6000 11J 666 922 +7.61
 1.0392303E+0+1.3309761E+2+5.3142776E+1+1.3889999E+2H30+ (G) 12J 666 922 -3.78

 FITS FOR EST RMS LOW = 0.083271 RMS HIGH = 0.005971 FIT
 1 -1 3 1 1 8 0 0 0 0 HYDRONIUM ION (G) 10H30+ 1 -1
 138899+6+403422+5+133511+2+181950-2-174585+7+759009+2 4003000J 66611H30+ +2366
 138899+6+402990+5+197059+2+160385-4-140971+8+759009+230006000J 66612H30+ +2366

-----NOTS-----

-----EST-----

H	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
.000	400	9.101	48.485	0.890	49.221	-0.736	1.199	-0.309	49.628	-1.143	1.370	-0.480	400
.000	600	10.604	52.465	2.863	52.424	0.041	2.808	0.055	52.374	0.091	2.767	0.096	600
.000	800	11.885	55.696	5.115	55.582	0.114	5.014	0.101	55.518	0.178	4.965	0.150	800
.000	1000	13.002	58.470	7.606	58.397	0.073	7.541	0.065	58.370	0.100	7.526	0.080	1000
.000	1200	13.994	60.931	10.308	60.900	0.031	10.290	0.018	60.902	0.029	10.305	0.003	1200
.000	1400	14.857	63.154	13.195	63.150	0.004	13.211	-0.016	63.163	-0.009	13.241	-0.046	1400
.000	1600	15.590	65.187	16.242	65.193	-0.006	16.273	-0.031	65.205	-0.018	16.301	-0.059	1600
.000	1800	16.202	67.060	19.423	67.067	-0.007	19.455	-0.032	67.070	-0.010	19.469	-0.046	1800
.000	2000	16.710	68.794	22.716	68.797	-0.003	22.740	-0.024	68.789	0.005	22.733	-0.017	2000
.000	2200	17.131	70.407	26.101	70.404	0.003	26.114	-0.013	70.388	0.019	26.088	0.013	2200
.000	2400	17.480	71.913	29.563	71.905	0.008	29.564	-0.001	71.885	0.028	29.529	0.034	2400
.000	2600	17.772	73.324	33.089	73.312	0.012	33.081	0.008	73.295	0.029	33.053	0.036	2600
.000	2800	18.016	74.651	36.669	74.637	0.014	36.655	0.014	74.630	0.021	36.658	0.011	2800
.000	3000	18.223	75.901	40.293	75.886	0.015	40.278	0.015	75.901	0.000	40.342	-0.049	3000
.001	3200	18.223	75.901	40.293	75.886	0.015	40.278	0.015	75.901	0.000	40.299	-0.006	3200
.001	3400	18.398	77.083	43.956	77.069	0.014	43.942	0.014	77.081	0.002	43.957	-0.001	3400
.000	3600	18.548	78.203	47.651	78.190	0.013	47.641	0.010	78.200	0.003	47.649	0.002	3600
.001	3800	18.677	79.266	51.374	79.255	0.011	51.369	0.005	79.264	0.002	51.371	0.003	3800
.000	4000	18.789	80.279	55.120	80.270	0.009	55.122	-0.002	80.277	0.002	55.118	0.002	4000
.000	4200	18.886	81.246	58.888	81.237	0.009	58.894	-0.006	81.243	0.003	58.886	0.002	4200
.001	4400	18.971	82.169	62.674	82.161	0.008	62.683	-0.009	82.167	0.002	62.673	0.001	4400
.000	4600	19.045	83.053	66.476	83.046	0.007	66.486	-0.010	83.052	0.001	66.475	0.001	4600
.000	4800	19.111	83.901	70.291	83.894	0.007	70.300	-0.009	83.900	0.001	70.292	-0.001	4800
.001	5000	19.170	84.716	74.120	84.707	0.008	74.125	-0.005	84.714	0.002	74.120	-0.000	5000
.000	5200	19.222	85.500	77.959	85.490	0.010	77.959	0.000	85.498	0.002	77.960	-0.001	5200
.000	5400	19.269	86.255	81.808	86.244	0.011	81.803	0.005	86.253	0.002	81.809	-0.001	5400
.000	5600	19.310	86.983	85.666	86.971	0.012	85.657	0.009	86.981	0.002	85.666	-0.000	5600
.000	5800	19.348	87.686	89.532	87.674	0.012	89.523	0.009	87.684	0.002	89.532	0.000	5800
.000	6000	19.382	88.365	93.405	88.355	0.010	93.403	0.002	88.363	0.002	93.405	0.000	6000
.000		19.413	89.023	97.285	89.015	0.008	97.299	-0.014	89.021	0.002	97.284	0.001	6000

NITRIC OXIDE UNIPOSITIVE ION (G) N 10 1 1 0 0 0 666
 MOL. WT.= 30.000 BLOCK= 4343 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 236.660 KEY = 923
 FITS FOR NOTS RMS = 0.011755
 1 -1 1 7 1 8 0 0 0 0 NITRIC OXIDE UNIPOSITIVE ION (G) 10J 666 923
 +7.6195735E+0+8.0329656E-1-1.6086483E-1+1.1534243E-2 400 6000 11J 666 923
 -3.7837219E-1+2.3342149E+2+5.5146667E+1+2.3665998E+2NO+(G) 12J 666 923

FITS FOR EST RMS LOW = 0.019228 RMS HIGH = 0.002893
 1 -1 1 7 1 8 0 0 0 0 NITRIC OXIDE UNIPOSITIVE ION (G) 10NO+
 +236659+6+221596+5+810092+1+290563-3-473024+6+653319+2 4003000J 66611NO+
 +236659+6+221526+5+899523+1+278191-4-216926+7+653319+230006000J 66612NO+

--		-----NOTS-----								-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.480	400	6.989	49.397	0.710	49.656	-0.259	0.816	-0.106	49.706	-0.309	0.838	-0.128	
0.096	600	7.191	52.263	2.125	52.234	0.029	2.097	0.028	52.227	0.036	2.093	0.032	
0.150	800	7.505	54.374	3.594	54.335	0.039	3.561	0.033	54.329	0.045	3.557	0.037	
0.080	1000	7.807	56.082	5.126	56.063	0.019	5.110	0.016	56.061	0.021	5.111	0.015	
0.003	1200	8.054	57.528	6.713	57.522	0.006	6.712	0.001	57.524	0.004	6.716	-0.003	
0.046	1400	8.245	58.784	8.344	58.784	-0.000	8.350	-0.006	58.787	-0.003	8.356	-0.012	
0.059	1600	8.392	59.895	10.008	59.897	-0.002	10.017	-0.009	59.899	-0.004	10.021	-0.013	
0.046	1800	8.506	60.891	11.698	60.891	-0.000	11.706	-0.008	60.892	-0.001	11.707	-0.009	
0.017	2000	8.595	61.792	13.409	61.791	0.001	13.414	-0.005	61.790	0.002	13.411	-0.002	
0.013	2200	8.667	62.614	15.135	62.612	0.002	15.137	-0.002	62.610	0.004	15.132	0.003	
0.034	2400	8.725	63.371	16.875	63.368	0.003	16.874	0.001	63.365	0.006	16.868	0.007	
0.036	2600	8.774	64.071	18.625	64.068	0.003	18.622	0.003	64.065	0.006	18.618	0.007	
0.011	2800	8.814	64.723	20.384	64.719	0.004	20.380	0.004	64.719	0.004	20.382	0.002	
0.049	3000	8.849	65.332	22.150	65.328	0.004	22.147	0.003	65.332	0.000	22.160	-0.010	
0.006	3000	8.849	65.332	22.150	65.328	0.004	22.147	0.003	65.332	0.000	22.153	-0.003	
0.001	3200	8.879	65.905	23.923	65.901	0.004	23.921	0.002	65.903	0.002	23.924	-0.001	
0.002	3400	8.906	66.444	25.702	66.440	0.004	25.700	0.002	66.442	0.002	25.701	0.001	
0.003	3600	8.929	66.953	27.485	66.950	0.003	27.485	0.000	66.952	0.001	27.484	0.001	
0.002	3800	8.951	67.437	29.273	67.434	0.003	29.274	-0.001	67.435	0.002	29.272	0.001	
0.002	4000	8.970	67.896	31.065	67.894	0.002	31.067	-0.002	67.895	0.001	31.064	0.001	
0.001	4200	8.988	68.334	32.861	68.332	0.002	32.863	-0.002	68.333	0.001	32.860	0.001	
0.001	4400	9.004	68.753	34.660	68.750	0.003	34.663	-0.003	68.752	0.001	34.660	0.000	
0.001	4600	9.019	69.154	36.463	69.151	0.003	36.464	-0.001	69.152	0.002	36.463	0.000	
0.000	4800	9.033	69.538	38.268	69.535	0.003	38.269	-0.001	69.536	0.002	38.268	-0.000	
0.001	5000	9.047	69.907	40.076	69.904	0.003	40.076	0.000	69.905	0.002	40.076	-0.000	
0.001	5200	9.060	70.262	41.887	70.259	0.003	41.885	0.002	70.261	0.001	41.887	-0.000	
0.000	5400	9.072	70.604	43.700	70.601	0.003	43.698	0.002	70.603	0.001	43.700	-0.000	
0.000	5600	9.084	70.934	45.515	70.931	0.003	45.513	0.002	70.933	0.001	45.516	-0.001	
0.000	5800	9.095	71.253	47.333	71.250	0.003	47.333	0.000	71.252	0.001	47.333	0.000	
0.001	6000	9.106	71.562	49.153	71.559	0.003	49.156	-0.003	71.560	0.002	49.152	0.001	

ANDALUSITE (C) AL 20 5SI 1 967
 MOL. WT. = 162.040 BLOCK = 4349 NO. POINT = 32
 DATA FROM 0 TO 3000 K HFORM(KCAL/(MOLE)) = -619.520 KEY = 924
 FITS FOR NOTS RMS = 0.002354
 5 8 2 13 1 14 0 0 0 0 0 ANDALUSITE (C) 30J 967 924
 +4.2340515E+1+5.2956123E+0+1.7565459E-1-3.4769460E-2 400 3000 31J 967 924
 -1.3948364E+0-6.3703979E+2+6.4155258E+1-6.1951977E+2AL205SI(C) 32J 967 924

KYANI
 MOL.
 DATA F
 FITS F
 5 8 2
 +4.31444
 -1.55754

FITS FOR EST RMS LOW = 0.005617 RMS HIGH = 0.005617
 5 8 2 13 1 14 0 0 0 0 0 ANDALUSITE (C) 30AL205SI\$
 -619519+6+134677+6+422507+2+555359-2-142017+7+127111+3 4003000J 96731AL205SI\$
 -619519+6+134677+6+422507+2+555359-2-142017+7+127111+3 4003000J 96732AL205SI\$

FITS F
 5 8 2
 -620059+
 -620059+

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T			
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/		
400	35.747	31.854	3.334	31.849	0.005	3.330	0.004	31.901	-0.047	3.356	-0.022	400	35.		
600	41.710	47.675	11.178	47.670	0.005	11.174	0.004	47.677	-0.002	11.178	0.000	600	42.		
800	44.484	60.086	19.820	60.084	0.002	19.817	0.003	60.079	0.007	19.814	0.006	800	45.		
1000	46.377	70.225	28.914	70.225	0.000	28.913	0.001	70.219	0.006	28.909	0.005	1000	46.		
1200	47.916	78.820	38.347	78.820	-0.000	38.347	0.000	78.816	0.004	38.344	0.003	1200	48.		
1400	49.289	86.311	48.069	86.312	-0.001	48.070	-0.001	86.309	0.002	48.069	0.000	1400	49.		
1600	50.574	92.977	58.057	92.978	-0.001	58.058	-0.001	92.976	0.001	58.058	-0.001	1600	51.		
1800	51.806	99.005	68.295	99.007	-0.002	68.297	-0.002	99.005	-0.000	68.298	-0.003	1800	52.		
2000	53.007	104.526	78.777	104.528	-0.002	78.779	-0.002	104.526	0.000	78.780	-0.003	2000	53.		
2200	54.186	109.634	89.497	109.635	-0.001	89.498	-0.001	109.633	0.001	89.498	-0.001	2200	54.		
2400	55.345	114.398	100.450	114.399	-0.001	100.451	-0.001	114.396	0.002	100.449	0.001	2400	55.		
2600	56.484	118.873	111.634	118.874	-0.001	111.633	0.001	118.871	0.002	111.630	0.004	2600	57.		
2800	57.603	123.100	123.043	123.101	-0.001	123.041	0.002	123.098	0.002	123.040	0.003	2800	58.		
3000	58.702	127.112	134.673	127.113	-0.001	134.674	-0.001	127.112	0.000	134.678	-0.005	3000	59.		

RYANITE (C) AL 20 SSI 1 967
 MOL. WT. = 162.040 BLOCK = 4352 NO. POINT = 32
 DATA FROM 0 TO 3000 K HFORM(KCAL/(MOLE)) = -620.060 KEY = 925
 FITS FOR NOTS RMS = 0.003602
 5 8 2 13 1 14 0 0 0 0 0 KYANITE (C) 30J 967 925
 +4.3144454E+1+5.2990398E+0+7.1729362E-2-2.2351797E-3 400 3000 31J 967 925
 -1.5575408E+0-6.3834155E+2+6.2041015E+1-6.2005981E+2AL205SI(C) 32J 967 925

FITS FOR EST RMS LOW = 0.004670 RMS HIGH = 0.004670
 5 8 2 13 1 14 0 0 0 0 0 KYANITE (C) 30AL205SI\$
 -620059+6+136114+6+428269+2+558851-2-148612+7+125724+3 4003000J 96731AL205SI\$
 -620059+6+136114+6+428269+2+558851-2-148612+7+125724+3 4003000J 96732AL205SI\$

DH	T	CP		S	h	SC		DS		HC	DH	SC		DS		HC	DH
		K	C/M-K			C/M-K	KC/M	C/M-K	C/M-K			KC/M	C/M-K	C/M-K	KC/M		
-0.022	400	35.439	29.519	3.304	29.501	0.018	3.295	0.009	29.464	0.055	3.283	0.021					
0.000	600	42.120	45.350	11.158	45.357	-0.007	11.160	-0.002	45.367	-0.017	11.169	-0.011					
0.006	800	45.000	57.904	19.899	57.892	0.012	19.888	0.011	57.902	0.002	19.897	0.002					
0.005	1000	46.896	68.153	29.092	68.154	-0.001	29.093	-0.001	68.158	-0.005	29.097	-0.005					
0.003	1200	48.558	76.853	38.641	76.857	-0.004	38.645	-0.004	76.857	-0.004	38.644	-0.003					
0.000	1400	49.919	84.443	48.491	84.442	0.001	48.489	0.002	84.440	0.003	48.486	0.005					
-0.001	1600	51.178	91.190	58.600	91.190	-0.000	58.600	0.000	91.187	0.003	58.595	0.005					
-0.003	1800	52.414	97.289	68.959	97.291	-0.002	68.962	-0.003	97.288	0.001	68.957	0.002					
-0.003	2000	53.628	102.875	79.564	102.877	-0.002	79.566	-0.002	102.875	0.000	79.564	0.000					
-0.001	2200	54.809	108.042	90.408	108.043	-0.001	90.409	-0.001	108.042	-0.000	90.409	-0.001					
0.001	2400	55.980	112.861	101.487	112.862	-0.001	101.487	-0.000	112.862	-0.001	101.488	-0.001					
0.004	2600	57.141	117.388	112.799	117.388	-0.000	112.798	0.001	117.388	-0.000	112.801	-0.002					
0.003	2800	58.293	121.664	124.343	121.665	-0.001	124.342	0.001	121.665	-0.001	124.343	0.000					
-0.005	3000	59.434	125.725	136.116	125.726	-0.001	136.117	-0.001	125.725	0.000	136.114	0.002					

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MULLITE (C) AL 60 13SI 2 967
MOL. WT. = 426.050 BLOCK = 4355 NO. POINT = 32
DATA FROM 0 TO 3000 K HFORM(KCAL/(MOLE)) = 1629.830 KEY = 926
ITS FOR NOTS RMS = 0.011835
 8 6 13 2 14 0 0 0 0 0 MULLITE (C) 30J 967 926
.1426591E+2+1.8157409E+1-6.2453670E+0+1.1152715E+0 400 3000 31J 967 926
.6831054E+0-1.6797751E+3+1.7425914E+2-1.6298298E+3AL6013SI2(C) 32J 967 926

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FITS FOR EST      RMS LOW =          0.082061 RMS   HIGH =          0.082061
    8 6 13 2 14 0  0 0  0 0  0 MULLITE                                     (C) 30AL6013SI2$
+2982+7+342420+6+120575+3+707789-2-509184+7+336455+3 4003000J 96731AL6013SI2$
+2982+7+342420+6+120575+3+707789-2-509184+7+336455+3 4003000J 96732AL6013SI2$

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DH	NOTS						EST					
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.021	93.390	90.882	8.767	90.980	-0.098	8.795	-0.028	90.734	0.148	8.673	0.094	
-0.011	109.900	132.283	29.299	132.244	0.039	29.274	0.025	132.199	0.084	29.252	0.047	
0.002	118.100	165.134	52.177	165.138	-0.004	52.180	-0.003	165.208	-0.074	52.237	-0.060	
-0.005	122.700	192.016	76.288	192.007	0.009	76.279	0.009	192.097	-0.081	76.353	-0.065	
-0.003	125.626	214.652	101.127	214.653	-0.001	101.130	-0.003	214.718	-0.066	101.176	-0.049	
0.005	128.154	234.212	126.512	234.221	-0.009	126.525	-0.013	234.252	-0.040	126.526	-0.014	
0.005	130.097	251.461	152.352	251.460	0.001	152.349	0.003	251.463	-0.002	152.309	0.042	
0.002	131.737	266.880	178.536	266.880	0.000	178.536	0.000	266.872	0.008	178.477	0.059	
0.000	133.360	280.844	205.046	280.846	-0.002	205.050	-0.004	280.842	0.002	204.999	0.047	
-0.001	134.876	293.624	231.868	293.628	-0.004	231.874	-0.006	293.639	-0.015	231.856	0.012	
-0.001	136.494	305.429	259.003	305.432	-0.003	259.009	-0.006	305.462	-0.033	259.034	-0.031	
-0.002	138.212	316.421	286.472	316.422	-0.001	286.470	0.001	316.463	-0.042	286.524	-0.052	
0.000	140.030	326.730	314.295	326.728	0.002	314.286	0.009	326.763	-0.033	314.322	-0.027	
0.002	141.950	336.456	342.491	336.458	-0.003	342.497	-0.006	336.456	0.000	342.421	0.070	

BERYLLIUM ORTHOBORATE (C) B 2BE 30 6 966
 MOL. WT. = 144.650 BLOCK = 4359 NO. POINT = 29
 DATA FROM 298 TO 3000 K HFORM(KCAL/(MOLE)) = -741.960 KEY = 927
 FITS FOR NOTS RMS = 0.050564
 3 4 2 5 6 8 0 0 0 0 0 BERYLLIUM ORTHOBORATE (C) 30J 966 927
 +7.3454818E+1+1.1685485E+0+1.3493996E-1+9.9341332E-2 400 3000 31J 966 927
 -6.7588195E+0-7.8420922E+2+8.1526397E+1-7.4195996E+2B2BE306(C) 32J 966 927

FITS FOR EST RMS LOW = 0.079807 RMS HIGH = 0.079807
 3 4 2 5 6 8 0 0 0 0 0 BERYLLIUM ORTHOBORATE (C) 30B2BE306\$
 -741959+6+188807+6+703872+2+331383-2-585364+7+167612+3 4003000J 96631B2BE306\$
 -741959+6+188807+6+703872+2+331383-2-585364+7+167612+3 4003000J 96632B2BE306\$

T /M	-----NOTS-----												-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M				
094	400	41.830	35.033	3.845	35.822	-0.789	4.127	-0.282	35.141	-0.108	3.836	0.009				
047	600	54.160	54.451	13.506	54.124	0.327	13.312	0.194	54.181	0.270	13.367	0.139				
060	800	63.290	71.369	25.312	71.411	-0.042	25.370	-0.058	71.536	-0.167	25.469	-0.157				
065	1000	68.420	86.112	38.545	86.175	-0.063	38.618	-0.073	86.259	-0.147	38.680	-0.135				
049	1200	70.840	98.825	52.498	98.822	0.003	52.499	-0.001	98.860	-0.035	52.510	-0.013				
014	1400	72.230	109.856	66.813	109.925	0.031	66.779	0.034	109.834	0.022	66.753	0.060				
042	1600	73.310	119.573	81.369	119.548	0.025	81.345	0.024	119.546	0.027	81.302	0.067				
059	1800	74.380	128.268	96.137	128.260	0.008	96.140	-0.003	128.259	0.009	96.099	0.038				
047	2000	75.400	136.158	111.116	136.158	-0.000	111.134	-0.018	136.166	-0.008	111.111	0.005				
012	2200	76.400	143.393	126.298	143.391	0.002	126.312	-0.014	143.410	-0.017	126.314	-0.016				
031	2400	77.300	150.079	141.669	150.071	0.008	141.670	-0.001	150.101	-0.022	141.694	-0.025				
052	2600	78.180	156.301	157.215	156.290	0.011	157.208	0.007	156.323	-0.022	157.241	-0.026				
027	2800	79.070	162.126	172.939	162.116	0.010	172.933	0.006	162.142	-0.016	172.947	-0.008				
070	3000	80.000	167.613	188.845	167.607	0.006	188.853	-0.008	167.613	0.000	188.807	0.038				

BEI
 MC
 DATA
 FITS
 -1
 .438
 .805
 FITS
 -1
 7636
 7639
 T
 K
 200
 400
 600
 800
 1000
 1200
 1400
 1600
 1800
 2000
 2200
 2400
 2600
 2800
 3000

BERYLLIUM HYDRIDE UNIPCSITIVE ION(G) BE 1H 1 1 966
 MOL. WT.= 10.020 BLOCK= 4362 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 276.400 KEY = 928
 FITS FOR NOTS RMS = 0.021581
 -1 1 1 1 4 0 0 0 0 0 BERYLLIUM HYDRIDE UNIPOSITIVE ION(G) 10J 966 928
 .4382963E+0+2.7917981E-1-2.3604143E-2+7.2949789E-3 400 6000 11J 966 928
 .8056640E-1+2.7242846E+2+4.9019790E+1+2.7639990E+2BEH+ (G) 12J 966 928

FITS FOR EST RMS LOW = 0.015636 RMS HIGH = 0.004172
 -1 1 1 1 4 0 0 0 0 0 BERYLLIUM HYDRIDE UNIPOSITIVE ION(G) 10BEH+
 76399+6+227425+5+819275+1+366842-3-463248+6+591269+2 4003000J 96611BEH+
 76399+6+227358+5+638699+1+699551-3+657697+7+591269+230006000J 96612BEH+

H C/M	-----NOTS-----								-----EST-----				T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
.009	400	7.030	42.816	0.713	43.212	-0.396	0.877	-0.164	43.088	-0.272	0.824	-0.111	400
.139	400	7.307	45.713	2.143	45.679	0.034	2.108	0.035	45.678	0.035	2.113	0.030	500
.157	400	7.673	47.865	3.641	47.807	0.058	3.591	0.050	47.827	0.038	3.610	0.031	600
.135	400	8.000	49.613	5.210	49.580	0.033	5.181	0.029	49.599	0.014	5.199	0.011	700
.013	200	8.258	51.096	6.836	51.082	0.014	6.830	0.006	51.095	0.001	6.841	-0.005	800
.060	400	8.457	52.384	8.509	52.382	0.002	8.516	-0.007	52.388	-0.004	8.519	-0.010	900
.067	600	8.612	53.524	10.216	53.526	-0.002	10.230	-0.014	53.528	-0.004	10.227	-0.011	1000
.038	800	8.735	54.546	11.951	54.548	-0.002	11.966	-0.015	54.547	-0.001	11.958	-0.007	1100
.005	400	8.836	55.471	13.709	55.472	-0.001	13.720	-0.011	55.470	0.001	13.710	-0.001	1200
.016	200	8.921	56.318	15.465	56.316	0.002	15.491	-0.006	56.315	0.003	15.481	0.004	1300
.025	400	8.996	57.097	17.277	57.093	0.004	17.278	-0.001	57.093	0.004	17.271	0.006	1400
.026	600	9.065	57.820	19.083	57.814	0.006	19.080	0.003	57.816	0.004	19.078	0.005	1500
.008	400	9.131	58.494	20.903	58.488	0.006	20.897	0.006	58.492	0.002	20.902	0.001	1600
.038	400	9.198	59.127	22.736	59.119	0.008	22.729	0.007	59.127	0.000	22.743	-0.007	1700
	400	9.198	59.127	22.736	59.119	0.008	22.729	0.007	59.127	0.000	22.736	0.000	1800
	200	9.267	59.722	24.582	59.715	0.007	24.575	0.007	59.723	-0.001	24.584	-0.002	1900
	400	9.340	60.286	26.443	60.280	0.006	26.438	0.005	60.287	-0.001	26.444	-0.001	2000
	400	9.419	60.822	28.319	60.817	0.005	28.316	0.003	60.823	-0.001	28.319	0.000	2100
	400	9.505	61.334	30.211	61.329	0.005	30.211	-0.000	61.334	-0.000	30.210	0.001	2200
	400	9.597	61.824	32.121	61.819	0.005	32.124	-0.003	61.824	0.000	32.119	0.002	2300
	400	9.696	62.294	34.050	62.290	0.004	34.055	-0.005	62.294	-0.000	34.049	0.001	
	400	9.801	62.748	36.000	62.744	0.004	36.005	-0.005	62.748	-0.000	35.999	0.001	
	400	9.912	63.186	37.971	63.182	0.004	37.975	-0.004	63.186	-0.000	37.971	0.000	
	400	10.027	63.610	39.965	63.606	0.004	39.967	-0.002	63.611	-0.001	39.965	-0.000	
	400	10.147	64.022	41.982	64.017	0.005	41.982	-0.000	64.023	-0.001	41.983	-0.001	
	400	10.269	64.422	44.024	64.417	0.005	44.021	0.003	64.423	-0.001	44.025	-0.001	
	400	10.393	64.812	46.090	64.806	0.006	46.085	0.005	64.813	-0.001	46.090	-0.001	
	400	10.517	65.192	48.181	65.187	0.005	48.176	0.005	65.193	-0.001	48.181	0.000	
	400	10.641	65.564	50.297	65.558	0.006	50.295	0.002	65.564	0.000	50.296	0.001	
	400	10.763	65.926	52.437	65.923	0.003	52.444	-0.007	65.927	-0.001	52.437	0.000	

BERYLLIUM SULFATE, GAMMA

(C)

BE 10 4S 1

966

MOL. WT.= 105.070

BLOCK= 4373

NO. POINT = 22

DATA FROM 298 TO 2300 K HFORM(KCAL/(MOLE)) = -282.061 KEY = 931

FITS FOR NOTS RMS = 0.020252

1 4 4 8 1 16 0 0 0 0 0 BERYLLIUM SULFATE, GAMMA (C) 30J 966 931
 -3.0734344E+1+1.2209359E+2-6.3899093E+1+1.1164459E+1 400 2300 31J 966 931
 +2.8729248E+0-2.6873413E+2-3.2387237E+1-2.8206079E+2BEO4S (C) 32J 966 931

FITS FOR EST RMS LOW = 0.207978 RMS HIGH = 0.207978

1 4 4 8 1 16 0 0 0 0 0 BERYLLIUM SULFATE, GAMMA (C) 30BEO4SS
 -282060+6+117659+6+504266+2-120123-3-759552+7+111837+3 4002300J 96631BEO4SS
 -282060+6+117659+6+504266+2-120123-3-759552+7+111837+3 4002300J 96632BEO4SS

H C/M	-----NOTS-----								-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
.217	400	24.828	30.756	2.322	30.760	-0.004	2.326	-0.004	33.859	-3.103	3.539	-1.217
.183	500	27.810	36.632	4.961	36.695	-0.063	4.987	-0.026	36.554	0.078	4.778	0.183
.584	600	30.310	41.923	7.866	41.881	0.042	7.836	0.030	41.095	0.828	7.282	0.584
.520	700	32.980	46.793	11.029	46.730	0.063	10.986	0.043	46.057	0.736	10.509	0.520
.281	800	35.800	51.380	14.467	51.359	0.021	14.456	0.011	50.962	0.418	14.186	0.281
.030	900	38.730	55.765	18.193	55.796	-0.031	18.225	-0.032	55.644	0.121	18.163	0.030
.131	1000	41.690	60.004	22.220	60.042	-0.038	22.258	-0.038	60.054	-0.050	22.351	-0.131
.193	1100	43.759	64.080	26.497	64.094	-0.014	26.510	-0.013	64.189	-0.109	26.690	-0.193
.194	1200	45.222	67.953	30.950	67.947	0.006	30.940	0.010	68.064	-0.111	31.144	-0.194
.159	1300	46.258	71.616	35.526	71.602	0.014	35.507	0.019	71.698	-0.082	35.684	-0.159
.104	1400	46.984	75.072	40.190	75.060	0.012	40.174	0.016	75.113	-0.041	40.294	-0.104
.042	1500	47.480	78.331	44.915	78.327	0.004	44.909	0.006	78.330	0.001	44.957	-0.042
.015	1600	47.802	81.407	49.680	81.409	-0.002	49.684	-0.004	81.368	0.039	49.665	0.015
.062	1700	47.970	84.310	54.470	84.316	-0.006	54.480	-0.010	84.244	0.066	54.408	0.062
.087	1800	48.000	87.053	59.269	87.060	-0.007	59.281	-0.012	86.973	0.080	59.182	0.087
.089	1900	48.000	89.649	64.069	89.654	-0.005	64.078	-0.009	89.567	0.082	63.980	0.089
.070	2000	48.000	92.111	68.869	92.111	-0.000	68.869	0.000	92.039	0.072	68.799	0.070
.032	2100	43.000	94.453	73.669	94.448	0.005	73.658	0.011	94.399	0.054	73.637	0.032
.020	2200	48.000	96.685	78.469	96.680	0.005	78.456	0.013	96.656	0.029	78.489	-0.020
.085	2300	48.000	98.819	83.269	98.824	-0.005	83.279	-0.010	98.819	0.000	83.354	-0.085

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FERROUS BROMIDE (C) BR 2FE 1 0 0 0 0 966 IRO
 MOL. WT.= 215.660 BLOCK= 4375 NO. POINT = 14 MO
 DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -59.500 KEY = 932 DATA
 FITS FOR NOTS RMS = 0.008029 FITS
 26 2 35 0 0 0 0 0 0 0 FERROUS BROMIDE (C) 30J 966 932 1 26
 .0815475E+1-4.5293121E+1+3.9252243E+1-1.0387023E+1 400 1500 31J 966 932 +2.543
 .5285634E+0-7.4811889E+1+8.7163024E+1-5.9500000E+1BR 2FE (C) 32J 966 932 -5.493

 FITS FOR EST RMS LOW = 0.012171 RMS HIGH = 0.012171 FITS
 26 2 35 0 0 0 0 0 0 0 FERROUS BROMIDE (C) 30BR2FES 1 26
 95000+5+711995+5+175436+2+529173-2+114587+6+887029+2 4001500J 96631BR2FES -5043C
 95000+5+711995+5+175436+2+529173-2+114587+6+887029+2 4001500J 96632BR2FES -5043C

-----NOTS-----												-----EST-----					
T	CP	S	H	SC	ES	HC	DH	SC	DS	HC	DH	T					
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K					
400	19.718	39.331	1.981	39.342	-0.011	1.983	-0.002	39.244	0.087	1.948	0.033	400	2				
500	20.250	43.788	3.979	43.756	0.032	3.965	0.014	43.817	-0.029	3.998	-0.019	500	2				
600	20.782	47.527	6.031	47.578	-0.051	6.062	-0.031	47.615	-0.088	6.082	-0.051	600	2				
700	21.314	50.924	8.235	50.889	0.035	8.210	0.025	50.890	0.034	8.207	0.028	700	2				
800	21.846	53.805	10.353	53.803	0.002	10.393	0.000	53.790	0.015	10.379	0.014	800	2				
900	22.378	56.409	12.605	56.416	-0.007	12.611	-0.006	56.404	0.005	12.599	0.006	900	2				
1000	22.910	58.794	14.869	58.798	-0.004	14.873	-0.004	58.795	-0.001	14.869	0.000	1000	2				
1100	23.442	61.003	17.187	61.002	0.001	17.185	0.002	61.006	-0.003	17.189	-0.002	1100	2				
1200	23.974	63.065	19.557	63.062	0.003	19.554	0.003	63.069	-0.004	19.561	-0.004	1200	2				
1300	24.506	65.005	21.981	65.004	0.001	21.980	0.001	65.009	-0.004	21.984	-0.003	1300	2				
1400	25.038	66.841	24.459	66.842	-0.001	24.461	-0.002	66.843	-0.002	24.459	-0.000	1400	2				
1500	25.570	68.586	26.989	68.586	0.000	26.988	0.001	68.586	0.000	26.986	0.003	1500	2				
												1600	2				
												1700	2				
												1800	2				
												1900	2				
												2000	2				

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IRON DIBROMIDE (L) BR 2FE 1 966
 MOL. WT.= 215.660 BLOCK= 4376 NO. POINT = 19
 DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -50.431 KEY = 933
 FITS FOR NOTS RMS = 0.000872
 1 26 2 35 0 0 0 0 0 0 0 IRON DIBROMIDE (L) 20J 966 933
 +2.5430557E+1+2.2613477E-1-2.098487CE-1+5.8672562E-2 400 2000 21J 966 933
 -5.4931640E-4-5.8022384E+1+7.1201553E+1-5.0430999E+1BR2FE(L) 22J 966 933

 FITS FOR EST RMS LOW = 0.000100 RMS HIGH = 0.000100
 1 26 2 35 0 0 0 0 0 0 0 IRON DIBROMIDE (L) 20BR2FE*
 -504309+5+688958+5+255028+2-147746-5-115200+4+993559+2 4002000J 96621BR2FE*
 -504309+5+688958+5+255028+2-147746-5-115200+4+993559+2 4002000J 96622BR2FE*

	-----NOTS-----								-----EST-----			
DH	T	CP	S	H	SC	ES	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.033	400	25.500	47.977	2.597	47.976	0.001	2.596	0.001	47.977	-0.000	2.597	-0.000
0.019	500	25.500	53.667	5.147	53.665	0.002	5.145	0.002	53.667	0.000	5.147	-0.000
0.051	600	25.500	58.316	7.697	58.314	0.002	7.695	0.002	58.316	0.000	7.697	0.000
0.028	700	25.500	62.247	10.247	62.245	0.002	10.246	0.001	62.246	0.001	10.247	0.000
0.014	800	25.500	65.652	12.797	65.651	0.001	12.796	0.001	65.651	0.001	12.797	0.000
0.006	900	25.500	68.655	15.347	68.655	-0.000	15.347	0.000	68.655	0.000	15.347	0.000
0.000	1000	25.500	71.342	17.897	71.343	-0.001	17.897	-0.000	71.342	0.000	17.897	0.000
0.002	1100	25.500	73.772	20.447	73.773	-0.001	20.448	-0.001	73.772	-0.000	20.447	0.000
0.004	1200	25.500	75.991	22.997	75.992	-0.001	22.998	-0.001	75.991	0.000	22.997	0.000
0.003	1300	25.500	78.032	25.547	78.033	-0.001	25.548	-0.001	78.032	0.000	25.547	0.000
0.000	1400	25.500	79.922	28.097	79.923	-0.001	28.098	-0.001	79.922	0.000	28.097	0.000
0.003	1500	25.500	81.681	30.647	81.682	-0.001	30.647	-0.000	81.681	-0.000	30.647	0.000
	1600	25.500	83.327	33.197	83.327	-0.000	33.197	0.000	83.327	0.000	33.197	0.000
	1700	25.500	84.873	35.747	84.873	-0.000	35.746	0.001	84.873	0.000	35.747	0.000
	1800	25.500	86.331	38.297	86.331	0.000	38.296	0.001	86.330	0.001	38.297	0.000
	1900	25.500	87.709	40.847	87.709	-0.000	40.846	0.001	87.709	0.000	40.847	0.000
	2000	25.500	89.017	43.397	89.018	-0.001	43.397	-0.000	89.017	0.000	43.397	0.000

IRON DIBROMIDE DIMERIC

(G) BR 4FE 2

966

MOL. WT.= 431.330 BLOCK= 4385 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -60.500 KEY = 935

FITS FOR NOTS RMS = 0.020537

2 26 4 35 0 0 0 0 0 0 IRON DIBROMIDE DIMERIC (G) 10J 966 935
 +2.9424057E+1+2.8915691E+0-7.0461612E-1+5.2070870E-2 400 6000 11J 966 935
 +2.0654296E-1-6.8753829E+1+1.5906858E+2-6.0500000E+1BR4FE2(G) 12J 966 935

FITS FOR EST RMS LOW = 0.033722 RMS HIGH = 0.012805

2 26 4 35 0 0 0 0 0 0 IRON DIBROMIDE DIMERIC (G) 10BR4FE2
 -605000+5+877034+5+316780+2+586898-3-271072+6+197357+3 4003000J 96611BR4FE2
 -605000+5+876805+5+343545+2-289318-3-245888+7+197357+330006000J 96612BR4FE2

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	ES	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.133	400	31.479	132.522	3.195	132.564	-0.042	3.216	-0.021	132.836	-0.314	3.334	-0.139	
0.014	600	31.659	145.326	9.512	145.363	-0.037	9.528	-0.016	145.327	-0.001	9.502	0.010	
0.045	800	31.759	154.447	15.854	154.438	0.009	15.838	0.016	154.393	0.054	15.807	0.047	
0.034	1000	31.888	161.547	22.218	161.522	0.025	22.188	0.030	161.503	0.044	22.180	0.038	
0.009	1200	32.063	167.376	28.612	167.354	0.022	28.586	0.026	167.354	0.022	28.600	0.012	
-0.012	1400	32.270	172.333	35.045	172.322	0.011	35.032	0.013	172.330	0.003	35.056	-0.011	
-0.022	1600	32.482	176.656	41.521	176.653	0.003	41.520	0.001	176.661	-0.005	41.543	-0.022	
-0.020	1800	32.681	180.494	48.037	180.496	-0.002	48.046	-0.009	180.499	-0.005	48.060	-0.023	
-0.010	2000	32.850	183.946	54.591	183.951	-0.005	54.603	-0.012	183.946	0.000	54.603	-0.012	
0.003	2200	32.985	187.084	61.175	187.088	-0.004	61.187	-0.012	187.076	0.008	61.173	0.002	
0.013	2400	33.084	189.958	67.783	189.961	-0.003	67.791	-0.008	189.946	0.012	67.768	0.015	
0.016	2600	33.149	192.609	74.407	192.610	-0.001	74.409	-0.002	192.595	0.014	74.389	0.018	
0.006	2800	33.185	195.068	81.041	195.066	0.002	81.039	0.002	195.057	0.011	81.034	0.007	
-0.021	3000	33.197	197.358	87.679	197.355	0.003	87.674	0.005	197.358	0.000	87.703	-0.024	
0.001	3200	33.197	197.358	87.679	197.355	0.003	87.674	0.005	197.358	0.000	87.681	-0.002	
-0.002	3400	33.190	199.500	94.318	199.497	0.003	94.312	0.006	199.501	-0.001	94.321	-0.003	
-0.002	3600	33.167	201.511	100.954	201.509	0.002	100.949	0.005	201.512	-0.001	100.956	-0.002	
-0.001	3800	33.134	203.406	107.584	203.404	0.002	107.581	0.003	203.406	-0.000	107.584	0.000	
0.000	4000	33.094	205.197	114.207	205.196	0.001	114.207	0.000	205.196	0.001	114.205	0.002	
0.002	4200	33.048	206.893	120.822	206.893	0.000	120.824	-0.002	206.892	0.001	120.818	0.004	
0.002	4400	33.000	208.504	127.426	208.505	-0.001	127.431	-0.005	208.503	0.001	127.422	0.004	
0.002	4600	32.950	210.038	134.021	210.039	-0.001	134.027	-0.006	210.037	0.001	134.017	0.004	
0.001	4800	32.899	211.502	140.606	211.502	-0.000	140.612	-0.006	211.501	0.001	140.604	0.002	
0.001	5000	32.849	212.901	147.181	212.901	0.000	147.185	-0.004	212.901	0.000	147.180	0.001	
-0.001	5200	32.801	214.241	153.746	214.240	0.001	153.747	-0.001	214.241	-0.000	153.747	-0.001	
-0.002	5400	32.753	215.527	160.301	215.525	0.002	160.299	0.002	215.527	0.000	160.304	-0.003	
-0.002	5600	32.708	216.762	166.848	216.760	0.002	166.842	0.006	216.762	-0.000	166.851	-0.003	
-0.001	5800	32.665	217.951	173.385	217.949	0.002	173.379	0.006	217.951	0.000	173.387	-0.002	
0.000	6000	32.623	219.096	179.914	219.095	0.001	179.911	0.003	219.096	0.000	179.913	0.001	
0.003		32.584	220.201	186.434	220.202	-0.001	186.443	-0.009	220.200	0.001	186.429	0.005	

COPPER MONOXIDE (G) CU 10 1 0 0 0 0 670
 MOL. WT. = 79.530 BLOCK = 4391 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 58.900 KEY = 936
 FITS FOR NOTS RMS = 0.022365
 8 1 29 0 0 0 0 0 0 0 COPPER MONOXIDE (G) 10J 670 936
 .1586923E+0+1.5222511E+0-3.7916207E-1+3.1552389E-2 400 6000 11J 670 936
 .4070129E-1+5.6152313E+1+6.5297241E+1+5.8899993E+1CUO(G) 12J 670 936

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FITS FOR EST RMS LOW = 0.027279 RMS HIGH = 0.007327
 8 1 29 C 0 0 0 0 0 0 0 COPPER MONOXIDE (G) 10CUO
 .89999+5+258774+5+917318+1+385869-3-316816+6+774189+2 4003000J 67011CUO
 .38999+5+258570+5+930209+1+160414-3+366892+7+774189+230006000J 67012CUO

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DH		-----NOTS-----						-----EST-----						T
KC/M		CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
-0.139	0	8.689	58.601	0.877	58.840	-0.239	0.981	-0.104	58.905	-0.304	1.008	-0.131	40	
0.010	00	8.862	62.161	2.634	62.172	-0.011	2.630	0.004	62.152	0.009	2.617	0.017	60	
0.047	00	8.982	64.727	4.419	64.688	0.039	4.381	0.038	64.675	0.052	4.374	0.045	80	
0.038	00	9.126	66.746	6.229	66.711	0.035	6.194	0.035	66.710	0.036	6.199	0.030	100	
0.012	00	9.301	68.425	8.071	68.405	0.020	8.054	0.017	68.412	0.013	8.066	0.005	120	
-0.011	00	9.486	69.873	9.950	69.867	0.006	9.950	-0.000	69.874	-0.001	9.963	-0.013	140	
-0.022	00	9.658	71.151	11.865	71.153	-0.002	11.877	-0.012	71.157	-0.006	11.885	-0.020	160	
-0.023	00	9.805	72.298	13.812	72.302	-0.004	13.828	-0.016	72.301	-0.003	13.829	-0.017	180	
-0.012	00	9.922	73.337	15.785	73.340	-0.003	15.800	-0.015	73.336	0.001	15.792	-0.007	200	
0.002	00	10.009	74.287	17.778	74.288	-0.001	17.788	-0.010	74.280	0.007	17.775	0.003	220	
0.015	00	10.071	75.161	19.787	75.159	0.002	19.790	-0.003	75.150	0.011	19.775	0.012	240	
0.018	00	10.112	75.968	21.805	75.965	0.003	21.803	0.002	75.958	0.010	21.792	0.013	260	
0.007	00	10.138	76.719	23.831	76.713	0.006	23.824	0.007	76.712	0.007	23.827	0.004	280	
-0.024	00	10.154	77.419	25.860	77.413	0.006	25.852	0.008	77.419	0.000	25.877	-0.017	300	
-0.002	00	10.154	77.419	25.860	77.413	0.006	25.852	0.008	77.419	0.000	25.857	0.003	300	
-0.003	00	10.162	78.075	27.892	78.068	0.007	27.884	0.008	78.076	-0.001	27.893	-0.001	320	
-0.002	00	10.167	78.691	29.925	78.685	0.006	29.918	0.007	78.693	-0.002	29.927	-0.002	340	
0.000	00	10.170	79.272	31.958	79.267	0.005	31.955	0.003	79.273	-0.001	31.960	-0.002	360	
0.002	00	10.174	79.822	33.993	79.818	0.004	33.993	0.000	79.823	-0.001	33.993	0.000	380	
0.004	00	10.178	80.344	36.028	80.341	0.003	36.031	-0.003	80.345	-0.001	36.026	0.002	400	
0.004	00	10.186	80.841	38.064	80.838	0.003	38.069	-0.005	80.841	-0.000	38.062	0.002	420	
0.004	00	10.196	81.315	40.102	81.312	0.003	40.108	-0.006	81.315	-0.000	40.100	0.002	440	
0.002	00	10.209	81.768	42.143	81.766	0.002	42.148	-0.005	81.769	-0.001	42.141	0.002	460	
0.001	00	10.226	82.203	44.186	82.200	0.003	44.190	-0.004	82.204	-0.001	44.186	0.000	480	
-0.001	00	10.245	82.621	46.233	82.617	0.004	46.234	-0.001	82.622	-0.001	46.234	-0.001	500	
-0.003	00	10.268	83.023	48.285	83.019	0.004	48.282	0.003	83.024	-0.001	48.286	-0.001	520	
-0.003	00	10.294	83.411	50.341	83.407	0.004	50.336	0.005	83.413	-0.002	50.343	-0.002	540	
-0.002	00	10.322	83.786	52.402	83.781	0.005	52.397	0.005	83.787	-0.001	52.404	-0.002	560	
0.001	00	10.352	84.149	54.470	84.145	0.004	54.468	0.002	84.150	-0.001	54.470	0.000	580	
0.005	00	10.384	84.500	56.543	84.498	0.002	56.552	-0.009	84.501	-0.001	56.540	0.003	600	

COPPER DIATOMIC

(G) CU 2

966

MOL. WT.= 127.080 BLCK= 4397 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 116.000 KEY = 937

FITS FOR NOTS RMS = 0.006561

2 29 0 0 0 0 0 0 0 0 COPPER DIATOMIC (G) 10J 966 937
 +9.2247962E+0-3.9050340E-2+3.8489755E-2+1.2319693E-3 400 600J 11J 966 937
 -1.1369323E-1+1.1295860E+2+6.8523391E+1+1.1600000E+2CU2(G) 12J 966 937

FITS FOR EST RMS LOW = 0.000849 RMS HIGH = 0.004757

2 29 0 0 0 0 0 0 0 0 COPPER DIATOMIC (G) 10CU2
 +116000+6+248675+5+892585+1+181612-3-176480+5+787329+2 4003000J 96611CU2
 +116000+6+248671+5+728288+1+527810-3+568916+7+787329+230006000J 96612CU2

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
1	400	8.868	60.334	0.898	60.414	-0.080	0.930	-0.032	60.330	0.004	0.896	0.002
7	600	8.901	63.954	2.684	63.953	0.001	2.679	0.005	63.955	-0.001	2.684	-0.000
5	800	9.044	66.547	4.487	66.535	0.012	4.475	0.012	66.548	-0.001	4.488	-0.001
10	1000	9.092	68.570	6.301	68.561	0.009	6.291	0.010	68.572	-0.002	6.301	-0.000
5	1200	9.134	70.232	8.123	70.226	0.006	8.118	0.005	70.233	-0.001	8.123	-0.000
13	1400	9.173	71.643	9.954	71.640	0.003	9.953	0.001	71.643	-0.000	9.954	0.000
0	1600	9.211	72.870	11.792	72.870	0.000	11.794	-0.002	72.870	-0.000	11.792	0.000
7	1800	9.247	73.957	13.638	73.958	-0.001	13.641	-0.003	73.957	-0.000	13.637	0.001
7	2000	9.284	74.933	15.491	74.934	-0.001	15.495	-0.004	74.933	-0.000	15.491	0.000
13	2200	9.320	75.820	17.351	75.820	-0.000	17.354	-0.003	75.820	-0.000	17.351	-0.000
2	2400	9.357	76.632	19.219	76.632	-0.000	19.221	-0.002	76.633	-0.001	19.219	-0.000
3	2600	9.395	77.383	21.094	77.382	0.001	21.094	-0.000	77.383	-0.000	21.095	-0.001
14	2800	9.435	78.080	22.977	78.079	0.001	22.976	0.001	78.081	-0.001	22.977	-0.000
17	3000	9.477	78.733	24.868	78.731	0.002	24.866	0.002	78.733	0.000	24.868	0.000
13	3000	9.477	78.733	24.868	78.731	0.002	24.866	0.002	78.733	0.000	24.867	0.001
11	3200	9.523	79.346	26.768	79.344	0.002	26.766	0.002	79.347	-0.001	26.770	-0.002
12	3400	9.573	79.925	28.678	79.923	0.002	28.676	0.002	79.926	-0.001	28.679	-0.001
12	3600	9.628	80.473	30.598	80.472	0.001	30.597	0.001	80.474	-0.001	30.598	-0.000
10	3800	9.687	80.995	32.529	80.994	0.001	32.529	0.000	80.996	-0.001	32.528	0.001
12	4000	9.752	81.494	34.473	81.493	0.001	34.474	-0.001	81.494	-0.000	34.471	0.002
12	4200	9.822	81.971	36.430	81.971	0.000	36.432	-0.002	81.972	-0.001	36.429	0.001
12	4400	9.897	82.430	38.402	82.430	0.000	38.404	-0.002	82.430	-0.000	38.401	0.001
12	4600	9.976	82.872	40.389	82.871	0.001	40.391	-0.002	82.872	-0.000	40.388	0.001
10	4800	10.059	83.298	42.393	83.297	0.001	42.394	-0.001	83.299	-0.001	42.393	0.000
11	5000	10.147	83.711	44.413	83.710	0.001	44.413	-0.000	83.711	-0.000	44.414	-0.001
11	5200	10.237	84.110	46.452	84.109	0.001	46.451	0.001	84.111	-0.001	46.453	-0.001
12	5400	10.329	84.498	48.508	84.497	0.001	48.506	0.002	84.499	-0.001	48.509	-0.001
12	5600	10.423	84.876	50.583	84.874	0.002	50.581	0.002	84.876	-0.000	50.584	-0.001
10	5800	10.519	85.243	52.678	85.242	0.001	52.677	0.001	85.244	-0.001	52.677	0.001
13	6000	10.615	85.601	54.791	85.601	0.000	54.794	-0.003	85.602	-0.001	54.789	0.002

IRON DIIODIDE

(G) FE 1I 2

MOL. WT. = 309.650 BLOCK = 4413 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 21.000 KEY = 941

FITS FOR NOTS RMS = 0.021147

940 1 26 2 53 0 0 0 0 0 0 0 IRON DIIODIDE (G) 10J 966 941
 940 +1.3668532E+1+1.9381608E+0-4.9924206E-1+3.8174897E-2 400 6000 11J 966 941
 940 -4.6325683E-2+1.6850173E+1+9.9672500E+1+2.1C00000E+1FEI2 (G) 12J 966 941

FITS FOR EST RMS LOW = 0.032045 RMS HIGH = 0.007398

1 26 2 53 0 0 0 0 0 0 0 IRON DIIODIDE (G) 10FEI2
 +210000+5+419011+5+151653+2+355747-3-342736+6+118607+3 4003000J 96611FEI2
 +210000+5+418789+5+166207+2-189524-3-898560+5+118607+330C06000J 96612FEI2

-----NOTS-----													
-----EST-----													
M	DH KC/M	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
.750	-0.000	400	14.698	87.828	1.490	88.029	-0.201	1.578	-0.088	88.178	-0.350	1.641	-0.151
.450	-0.000	600	14.819	93.815	4.444	93.830	-0.015	4.443	0.001	93.804	0.011	4.425	0.019
.150	0.000	800	14.911	98.090	7.416	98.056	0.034	7.382	0.034	98.029	0.061	7.365	0.051
.850	0.000	1000	15.046	101.430	10.411	101.397	0.033	10.377	0.034	101.388	0.042	10.376	0.035
.550	0.000	1200	15.222	104.189	13.438	104.169	0.020	13.419	0.019	104.172	0.017	13.430	0.008
.250	0.000	1400	15.411	106.550	16.501	106.542	0.008	16.499	0.002	106.549	0.001	16.515	-0.014
.950	0.000	1600	15.588	108.619	19.601	108.620	-0.001	19.610	-0.009	108.625	-0.006	19.624	-0.023
.650	0.000	1800	15.738	110.464	22.734	110.468	-0.004	22.749	-0.015	110.468	-0.004	22.754	-0.020
.350	0.000	2000	15.856	112.129	25.894	112.132	-0.003	25.908	-0.014	112.127	0.002	25.904	-0.010
.050	0.000	2200	15.939	113.644	29.074	113.646	-0.002	29.084	-0.010	113.636	0.008	29.070	0.004
.750	0.000	2400	15.993	115.033	32.268	115.033	0.000	32.272	-0.004	115.021	0.012	32.254	0.014
.450	0.000	2600	16.021	116.315	35.470	116.312	0.003	35.468	0.002	116.302	0.013	35.454	0.016
.150	0.000	2800	16.029	117.503	38.675	117.498	0.005	38.670	0.005	117.493	0.010	38.670	0.005
.850	0.000	3000	16.021	118.608	41.880	118.603	0.005	41.873	0.007	118.608	0.000	41.901	-0.021
.550	0.000	3000	16.021	118.608	41.880	118.603	0.005	41.873	0.007	118.608	0.000	41.879	0.001
.250	0.000	3200	16.001	119.642	45.082	119.636	0.006	45.075	0.007	119.642	-0.000	45.084	-0.002
.950	0.000	3400	15.972	120.611	48.280	120.606	0.005	48.274	0.006	120.611	-0.000	48.281	-0.001
		3600	15.938	121.523	51.471	121.519	0.004	51.468	0.003	121.523	-0.000	51.471	-0.000
		3800	15.901	122.384	54.655	122.380	0.004	54.655	0.000	122.383	0.001	54.654	0.001
		4000	15.861	123.198	57.831	123.196	0.002	57.834	-0.003	123.198	0.000	57.829	0.002
		4200	15.820	123.971	60.999	123.969	0.002	61.004	-0.005	123.971	0.000	60.997	0.002
		4400	15.780	124.706	64.159	124.704	0.002	64.165	-0.006	124.706	0.000	64.157	0.002
		4600	15.740	125.407	67.311	125.405	0.002	67.316	-0.005	125.406	0.001	67.309	0.002
		4800	15.701	126.076	70.455	126.073	0.003	70.458	-0.004	126.076	0.000	70.455	0.000
		5000	15.664	126.716	73.592	126.713	0.003	73.592	-0.000	126.716	-0.000	73.592	-0.000
		5200	15.628	127.330	76.721	127.326	0.004	76.718	0.003	127.330	0.000	76.722	-0.001
		5400	15.594	127.919	79.843	127.915	0.004	79.838	0.005	127.919	-0.000	79.845	-0.002
		5600	15.561	128.485	82.959	128.481	0.004	82.953	0.006	128.486	-0.001	82.960	-0.001
		5800	15.530	129.031	86.068	129.027	0.004	86.066	0.002	129.031	0.000	86.068	0.000
		6000	15.501	129.557	89.171	129.555	0.002	89.179	-0.008	129.556	0.001	89.168	0.003

IRON DIIODIDE DIMERIC

(G)

FE 2I 4

966

MOL. WT. = 619.310 BLOCK = 4420 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 2.000 KEY = 942

FITS FOR NOTS RMS = 0.022328

26 4 53 0 0 0 0 0 0 0 IRON DIIODIDE DIMERIC

(G) 10J 966 942

.9818649E+1+2.6571674E+0-6.6483736E-1+4.9972757E-2 400 6000

11J 966 942

.6435546E-2-6.6215057E+0+1.6585821E+2+2.0000000E+0FE2I4 (G)

12J 966 942

FITS FOR EST RMS LOW = 0.035907 RMS HIGH = 0.012927

26 4 53 0 0 0 0 0 0 0 IRON DIIODIDE DIMERIC

(G) 10FE2I4

00000+4+878188+5+318881+2+511698-3-331296+6+204044+3 4003000J 96611FE2I4

00000+4+877957+5+341646+2-268653-3-150937+7+204044+330006000J 96612FE2I4

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
1 -0.151	100	31.561	139.115	3.206	139.245	-0.130	3.264	-0.058	139.480	-0.365	3.366	-0.160
5 0.019	100	31.699	151.942	9.535	151.970	-0.028	9.541	-0.006	151.937	0.005	9.519	0.016
5 0.051	100	31.797	161.074	15.884	161.051	0.023	15.855	0.029	161.011	0.063	15.830	0.054
6 0.035	100	31.939	168.184	22.256	168.151	0.033	22.220	0.036	168.136	0.048	22.217	0.039
10 0.008	100	32.129	174.023	28.663	174.000	0.023	28.637	0.026	174.002	0.021	28.652	0.011
5 -0.014	100	32.343	178.992	35.110	178.981	0.011	35.100	0.010	178.989	0.003	35.123	-0.013
24 -0.023	100	32.554	183.325	41.600	183.323	0.002	41.603	-0.003	183.330	-0.005	41.625	-0.025
4 -0.020	100	32.744	187.170	48.130	187.173	-0.003	48.142	-0.012	187.174	-0.004	48.153	-0.023
4 -0.010	100	32.900	190.628	54.695	190.633	-0.005	54.709	-0.014	190.627	0.001	54.707	-0.012
0 0.004	100	33.019	193.770	61.287	193.773	-0.003	61.299	-0.012	193.761	0.009	61.284	0.003
4 0.014	100	33.102	196.647	67.900	196.648	-0.001	67.907	-0.007	196.633	0.014	67.885	0.015
4 0.016	100	33.152	199.299	74.526	199.297	0.002	74.527	-0.001	199.283	0.016	74.507	0.018
0 0.005	100	33.175	201.756	81.159	201.753	0.003	81.155	0.004	201.745	0.011	81.152	0.007
1 -0.021	100	33.176	204.045	87.794	204.041	0.004	87.788	0.006	204.045	0.000	87.819	-0.025
9 0.001	100	33.176	204.045	87.794	204.041	0.004	87.788	0.006	204.045	0.000	87.796	-0.002
4 -0.002	100	33.159	206.186	94.428	206.182	0.004	94.421	0.007	206.186	-0.000	94.431	-0.003
1 -0.001	100	33.130	208.195	101.057	208.192	0.003	101.051	0.006	208.195	-0.000	101.058	-0.001
1 -0.000	100	33.092	210.088	107.679	210.085	0.003	107.676	0.003	210.087	0.001	107.679	0.000
4 0.001	100	33.048	211.876	114.294	211.874	0.002	114.293	0.001	211.875	0.001	114.291	0.003
9 0.002	100	33.000	213.570	120.898	213.569	0.001	120.901	-0.003	213.568	0.002	120.894	0.004
7 0.002	100	32.950	215.179	127.493	215.178	0.001	127.499	-0.006	215.177	0.002	127.489	0.004
7 0.002	100	32.900	216.711	134.078	216.710	0.001	134.085	-0.007	216.709	0.002	134.075	0.003
9 0.002	100	32.849	218.172	140.653	218.171	0.001	140.659	-0.006	218.170	0.002	140.651	0.002
5 0.000	100	32.800	219.569	147.218	219.568	0.001	147.222	-0.004	219.568	0.001	147.217	0.000
2 -0.000	100	32.752	220.907	153.774	220.905	0.002	153.774	0.000	220.906	0.001	153.775	-0.001
2 -0.001	100	32.706	222.191	160.319	222.188	0.003	160.316	0.003	222.190	0.001	160.322	-0.003
5 -0.002	100	32.662	223.424	166.856	223.421	0.003	166.850	0.006	223.424	0.000	166.859	-0.003
0 -0.001	100	32.620	224.611	173.384	224.608	0.003	173.378	0.006	224.611	0.000	173.387	-0.003
8 0.000	100	32.581	225.755	179.905	225.753	0.002	179.902	0.003	225.754	0.001	179.904	0.001
8 0.003	100	32.543	226.859	186.417	226.859	0.000	186.426	-0.009	226.857	0.002	186.411	0.006

LITHIUM OXYNITRIDE (G) LI 1N 10 1
 MOL. WT.= 36.940 BLCK= 4426 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 43.000 KEY = 943
 PITS FOR NOTS RMS = 0.004911

966

342

1 7 1 8 1 71 0 0 0 0 0 LITHIUM OXYNITRIDE (G) 10J 966 943

342

+1.3600695E+1+1.9017362E-1-4.1788671E-2+3.1148912E-3 400 6000 11J 966 943

342

-5.0505065E-1+3.7452545E+1+7.2774002E+1+4.300000E+1LINO (G) 12J 966 943

PITS FOR EST RMS LOW = 0.006850 RMS HIGH = 0.004280
 1 7 1 8 1 71 0 0 0 0 0 LITHIUM OXYNITRIDE (G) 10LINO
 +430000+5+359687+5+137131+2+622605-4-524336+6+881559+2 4003000J 96611LINO
 +430000+5+359694+5+140119+2-149314-4-144902+7+881559+230006000J 96612LINO

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
366 -0.160	400	11.373	61.839	1.122	61.963	-0.124	1.170	-0.048	61.973	-0.134	1.175	-0.053	
519 0.016	600	12.351	66.654	3.503	66.635	0.019	3.486	0.017	66.635	0.019	3.487	0.016	
830 0.054	800	12.897	70.290	6.033	70.273	0.017	6.018	0.015	70.274	0.016	6.020	0.013	
217 0.039	1000	13.212	73.204	8.647	73.197	0.007	8.640	0.007	73.199	0.005	8.643	0.004	
652 0.011	1200	13.404	75.632	11.310	75.629	0.003	11.309	0.001	75.632	0.000	11.312	-0.002	
123 -0.013	1400	13.529	77.708	14.004	77.707	0.001	14.005	-0.001	77.710	-0.002	14.008	-0.004	
625 -0.025	1600	13.613	79.520	16.719	79.520	-0.000	16.721	-0.002	79.522	-0.002	16.723	-0.004	
153 -0.023	1800	13.672	81.127	19.448	81.127	0.000	19.449	-0.001	81.128	-0.001	19.450	-0.002	
707 -0.012	2000	13.716	82.570	22.187	82.569	0.001	22.188	-0.001	82.570	0.000	22.187	-0.000	
284 0.003	2200	13.749	83.879	24.934	83.878	0.001	24.934	0.000	83.878	0.001	24.932	0.002	
885 0.015	2400	13.774	85.076	27.686	85.075	0.001	27.686	0.000	85.075	0.001	27.684	0.002	
507 0.018	2600	13.793	86.180	30.443	86.178	0.002	30.442	0.001	86.178	0.002	30.441	0.002	
152 0.007	2800	13.809	87.203	33.203	87.201	0.002	33.202	0.001	87.202	0.001	33.202	0.000	
819 -0.025	3000	13.822	88.156	35.966	88.154	0.002	35.966	0.000	88.156	0.000	35.969	-0.003	
796 -0.002	3000	13.822	88.156	35.966	88.154	0.002	35.966	0.000	88.156	0.000	35.969	-0.003	
431 -0.003	3200	13.833	89.048	38.732	89.047	0.001	38.731	0.001	89.048	0.000	38.732	-0.000	
058 -0.001	3400	13.841	89.887	41.499	89.886	0.001	41.499	-0.000	89.886	0.001	41.498	0.001	
679 0.000	3600	13.849	90.678	44.268	90.677	0.001	44.269	-0.001	90.677	0.001	44.267	0.001	
291 0.003	3800	13.855	91.427	47.038	91.426	0.001	47.039	-0.001	91.426	0.001	47.037	0.001	
894 0.004	4000	13.860	92.138	49.810	92.137	0.001	49.811	-0.001	92.137	0.001	49.808	0.002	
489 0.004	4200	13.865	92.814	52.582	92.814	0.000	52.583	-0.001	92.813	0.001	52.581	0.001	
075 0.003	4400	13.869	93.460	55.356	93.459	0.001	55.357	-0.001	93.458	0.002	55.355	0.001	
651 0.002	4600	13.872	94.076	58.130	94.075	0.001	58.130	-0.000	94.075	0.001	58.130	0.000	
217 0.000	4800	13.875	94.667	60.905	94.665	0.002	60.905	0.000	94.666	0.001	60.905	0.000	
775 -0.001	5000	13.878	95.233	63.680	95.232	0.001	63.680	0.000	95.232	0.001	63.681	-0.001	
322 -0.003	5200	13.880	95.777	66.456	95.776	0.001	66.455	0.001	95.777	0.000	66.457	-0.001	
859 -0.003	5400	13.883	96.301	69.232	96.300	0.001	69.231	0.001	96.301	0.000	69.233	-0.001	
387 -0.003	5600	13.885	96.806	72.009	96.805	0.001	72.008	0.001	96.805	0.001	72.009	-0.000	
904 0.001	5800	13.886	97.293	74.786	97.292	0.001	74.786	0.000	97.292	0.001	74.786	0.000	
411 0.006	6000	13.888	97.764	77.563	97.763	0.001	77.564	-0.001	97.763	0.001	77.562	0.001	

OXYGEN DIATOMIC UNINEGATIVE ION (G) 0 2- 1

1266

MOL. WT.= 31.990 BLOCK= 4432 NO. POINT = 59

DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = -11.390 KEY = 944

FITS FOR NOTS RMS = 0.002807

-1 2 8 0 0 0 0 0 0 OXYGEN DIATOMIC UNINEGATIVE ION (G) 10J1266 944

.7155494E+0+2.4180495E-1-4.3288819E-2+4.1800849E-3 400 6000 11J1266 944

.8454589E-1-1.4830032E+1+5.9145782E+1-1.1389999E+102-(G) 12J1266 944

FITS FOR EST RMS LOW = 0.004073 RMS HIGH = 0.004397

-1 2 8 0 0 0 0 0 0 OXYGEN DIATOMIC UNINEGATIVE ION (G) 1002-

13899+5+235864+5+882551+1+117481-3-305184+6+693049+2 4003000J12661102-

13899+5+235845+5+864148+1+137037-3+774624+6+693049+230006000J12661202-

-----NOTS-----													
-----EST-----													
DH	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	SC	DH
KC/M	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	KC/M
5 -0.053	7.529	52.074	0.750	52.142	-0.068	0.776	-0.026	52.154	-0.080	0.782	-0.032	52.154	-0.032
7 0.016	8.079	55.238	2.314	55.226	0.012	2.304	0.010	55.226	0.012	2.305	0.009	55.226	0.009
3 0.013	8.414	57.613	3.967	57.604	0.009	3.959	0.008	57.603	0.010	3.959	0.008	57.603	0.008
3 0.004	8.615	59.514	5.671	59.510	0.004	5.668	0.003	59.510	0.004	5.669	0.002	59.510	0.002
2 -0.002	8.744	61.096	7.408	61.095	0.001	7.407	0.001	61.096	0.000	7.409	-0.001	61.096	-0.001
8 -0.004	8.832	62.451	9.166	62.451	0.000	9.166	-0.000	62.452	-0.001	9.168	-0.002	62.452	-0.001
3 -0.004	8.898	63.635	10.939	63.635	0.000	10.940	-0.001	63.635	-0.000	10.941	-0.002	63.635	-0.001
0 -0.002	8.948	64.686	12.724	64.686	0.000	12.725	-0.001	64.686	0.000	12.725	-0.001	64.686	-0.001
7 -0.000	8.990	65.631	14.518	65.631	0.000	14.518	-0.000	65.630	0.001	14.518	-0.000	65.630	-0.000
2 0.002	9.025	66.490	16.319	66.489	0.001	16.319	-0.000	66.488	0.002	16.319	0.000	66.488	0.000
4 0.002	9.055	67.276	18.128	67.276	0.000	18.127	0.001	67.275	0.001	18.126	0.002	67.275	0.001
1 0.002	9.083	68.002	19.941	68.001	0.001	19.941	-0.000	68.001	0.001	19.940	0.001	68.001	0.001
2 0.000	9.108	68.676	21.761	68.676	0.000	21.760	0.001	68.675	0.001	21.760	0.001	68.675	0.001
9 -0.003	9.132	69.305	23.585	69.305	0.000	23.585	0.000	69.305	0.000	23.586	-0.001	69.305	0.000
9 -0.003	9.132	69.305	23.585	69.305	0.000	23.585	0.000	69.305	0.000	23.585	0.000	69.305	0.000
2 -0.000	9.154	69.896	25.413	69.895	0.001	25.413	-0.000	69.895	0.001	25.414	-0.001	69.895	-0.001
8 0.001	9.176	70.451	27.246	70.451	0.000	27.247	-0.001	70.451	0.000	27.247	-0.001	70.451	-0.001
7 0.001	9.197	70.976	29.084	70.976	0.000	29.084	-0.000	70.976	0.000	29.084	0.000	70.976	0.000
7 0.001	9.219	71.474	30.925	71.474	0.000	30.926	-0.001	71.474	0.000	30.925	0.000	71.474	0.000
8 0.002	9.240	71.948	32.771	71.947	0.001	32.772	-0.001	71.947	0.001	32.770	0.001	71.947	0.001
1 0.001	9.261	72.399	34.621	72.398	0.001	34.622	-0.001	72.398	0.001	34.620	0.001	72.398	0.001
5 0.001	9.283	72.830	36.476	72.830	0.000	36.476	-0.000	72.829	0.001	36.475	0.001	72.829	0.001
0 0.000	9.306	73.243	38.335	73.243	0.000	38.335	0.000	73.243	0.000	38.334	0.001	73.243	0.000
5 0.000	9.330	73.640	40.198	73.639	0.001	40.198	-0.000	73.639	0.001	40.198	-0.000	73.639	-0.000
11 -0.001	9.355	74.021	42.067	74.021	0.000	42.067	0.000	74.021	0.000	42.067	-0.000	74.021	-0.000
7 -0.001	9.381	74.389	43.940	74.388	0.001	43.940	0.000	74.388	0.001	43.941	-0.001	74.388	0.001
3 -0.001	9.408	74.743	45.819	74.743	0.000	45.819	0.000	74.743	0.000	45.820	-0.001	74.743	0.000
9 -0.000	9.436	75.086	47.703	75.085	0.001	47.703	0.000	75.086	0.000	47.704	-0.001	75.086	0.000
16 0.000	9.465	75.417	49.594	75.417	0.000	49.594	0.000	75.417	-0.000	49.594	0.000	75.417	0.000
2 0.001	9.496	75.739	51.490	75.738	0.001	51.491	-0.001	75.738	0.001	51.488	0.002	75.738	0.001

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[illegible]

TUNGSTEN OXIDE WO2.90 (C) O 3W 1 966 TUN
 MOL. WT.= 230.240 BLCK= 4441 NO. POINT = 29 MC
 DATA FROM 298 TO 3000 K HFORM(KCAL/(MOLE)) = -196.000 KEY = 946 DATA
 ITS FOR NOTS RMS = 0.002017 FITS
 8 1 74 0 0 0 0 0 0 TUNGSTEN OXIDE WO2.90 (C) 30J 966 946 3 8
 .2890213E+1+.8.1406974E-1+.7.9103332E-1-9.8016798E-2 400 3000 31J 966 946 +2.362
 .8432617E-1-2.0510052E+2+4.1304687E+1-1.9600000E+2O3W(C) 32J 966 946 -7.626

 ITS FOR EST RMS LOW = 0.013986 RMS HIGH = 0.013986 FITS
 8 1 74 0 0 0 0 0 0 TUNGSTEN OXIDE WO2.90 (C) 3003W\$ 3 8
 16000+6+685855+5+210651+2+288513-2-321168+6+716099+2 4003000J 9663103W\$ -19955
 16000+6+685895+5+210651+2+288513-2-321168+6+716099+2 4003000J 9663203W\$ -19955

M	-----NOTS-----								-----EST-----				T
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		
38	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
15	19.200	22.857	1.850	22.856	0.001	1.848	0.002	22.650	0.207	1.764	0.086	400 1	
08	21.730	31.184	5.974	31.186	-0.002	5.974	-0.000	31.211	-0.027	5.998	-0.024	600 2	
00	22.940	37.622	10.455	37.619	0.003	10.453	0.002	37.653	-0.031	10.481	-0.026	800 2	
01	23.720	42.827	15.124	42.824	0.003	15.120	0.004	42.840	-0.013	15.133	-0.009	1000 2	
01	24.350	47.203	19.926	47.206	-0.003	19.929	-0.003	47.209	-0.006	19.927	-0.001	1200 2	
04	24.990	51.006	24.862	51.006	-0.000	24.862	0.000	51.003	0.003	24.852	0.010	1400 2	
04	25.530	54.379	29.914	54.378	0.001	29.913	0.001	54.374	0.005	29.902	0.012	1600 2	
02	26.130	57.420	35.080	57.421	-0.001	35.081	-0.001	57.419	0.001	35.074	0.006	1800 2	
01	26.730	60.204	40.366	60.205	-0.001	40.368	-0.002	60.206	-0.002	40.365	0.001	2000 2	
02	27.330	62.780	45.772	62.781	-0.001	45.773	-0.001	62.784	-0.004	45.775	-0.003	2200 2	
03	27.930	65.184	51.298	65.184	-0.000	51.298	0.000	65.188	-0.004	51.303	-0.005	2400 2	
01	28.530	67.443	56.944	67.443	-0.000	56.943	0.001	67.447	-0.004	56.949	-0.005	2600 2	
03	29.130	69.579	62.710	69.580	-0.001	62.710	0.000	69.582	-0.003	62.711	-0.001	2800 2	
	29.730	71.610	68.596	71.610	0.000	68.596	0.000	71.610	0.000	68.589	0.007	3000 3	

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---DH		-----NOTS-----								-----EST-----				T
KC/M		CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	
		C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
0.097		39.407	110.510	3.852	110.566	-0.056	3.909	-0.017	110.562	-0.052	3.913	-0.022	400	
-0.023		41.642	126.990	12.036	126.980	0.010	12.023	0.013	126.985	0.005	12.032	0.004	600	
-0.031		42.515	139.106	20.463	139.095	0.011	20.450	0.013	139.102	0.004	20.460	0.003	800	
-0.017		42.937	148.643	29.013	148.635	0.008	29.002	0.011	148.642	0.001	29.012	0.001	1000	
-0.000		43.171	156.494	37.626	156.489	0.005	37.618	0.008	156.494	0.000	37.626	0.000	1200	
0.013		43.314	163.160	46.276	163.157	0.003	46.270	0.006	163.161	-0.001	46.276	-0.000	1400	
0.015		43.408	168.951	54.948	168.948	0.003	54.945	0.003	168.951	-0.000	54.949	-0.001	1600	
0.008		43.472	174.067	63.637	174.066	0.001	63.634	0.003	174.068	-0.001	63.637	-0.000	1800	
0.001		43.519	178.650	72.336	178.649	0.001	72.335	0.001	178.650	-0.000	72.336	0.000	2000	
-0.004		43.553	182.800	81.043	182.799	0.001	81.043	-0.000	182.799	0.000	81.043	0.000	2200	
-0.006		43.579	186.590	89.757	186.591	-0.001	89.758	-0.001	186.590	-0.000	89.756	0.001	2400	
-0.005		43.600	190.079	98.475	190.080	-0.001	98.476	-0.001	190.079	-0.000	98.474	0.001	2600	
-0.001		43.616	193.311	107.196	193.312	-0.001	107.199	-0.003	193.311	-0.000	107.196	-0.000	2800	
0.008		43.629	196.321	115.921	196.322	-0.001	115.923	-0.002	196.321	0.000	115.921	-0.000	3000	
		43.629	196.321	115.921	196.322	-0.001	115.923	-0.002	196.321	0.000	115.931	-0.010	3000	
		43.640	199.137	124.648	199.138	-0.001	124.651	-0.003	199.135	0.002	124.650	-0.002	3200	
		43.648	201.783	133.376	201.784	-0.001	133.379	-0.003	201.779	0.004	133.375	0.001	3400	
		43.656	204.278	142.107	204.279	-0.001	142.110	-0.003	204.273	0.005	142.103	0.004	3600	
		43.662	206.638	150.839	206.639	-0.001	150.841	-0.002	206.634	0.004	150.834	0.005	3800	
		43.668	208.878	159.572	208.879	-0.001	159.574	-0.002	208.874	0.004	159.567	0.005	4000	
		43.672	211.009	168.306	211.009	-0.000	168.307	-0.001	211.004	0.005	168.302	0.004	4200	
		43.676	213.040	177.041	213.041	-0.001	177.042	-0.001	213.037	0.003	177.038	0.003	4400	
		43.680	214.982	185.776	214.982	-0.000	185.777	-0.001	214.978	0.004	185.775	0.000	4600	
		43.683	216.841	194.513	216.841	-0.000	194.512	0.001	216.838	0.003	194.513	-0.000	4800	
		43.686	218.624	203.249	218.625	-0.001	203.249	0.000	218.621	0.003	203.251	-0.002	5000	
		43.688	220.338	211.987	220.338	0.000	211.986	0.001	220.335	0.003	211.989	-0.002	5200	

TRITUNGSTEN OCTAOXIDE

(G) O 8W 3

966

MOL. WT. = 679.540 BLOCK = 4454 NO. POINT = 62

DATA FROM C TO 6000 K HFORM (KCAL/(MOLE)) = -408.700 KEY = 949

FITS FOR NOTS RMS = 0.010610

8 8 3 74 0 0 0 0 0 0 TRITUNGSTEN OCTAOXIDE (G) 10J 966 949
+6.13324P9E+1+1.8061287E-1-4.3707121E-2+3.5560335E-3 400 6000 11J 966 949
-1.4721679E+0-4.3161621E+2+1.8485453E+2-4.086995E+208W3 (G) 12J 966 949

FITS FOR EST RMS LOW = 0.007910 RMS HIGH = 0.018466

8 8 3 74 0 0 0 0 0 0 TRITUNGSTEN OCTAOXIDE (G) 1008W3
-408699+6+162063+6+614173+2+591474-4-147894+7+252693+3 4003000J 9661108W3
-408699+6+162075+6+620236+2-613155-4-446796+7+252693+330006000J 9661208W3

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
022	400	53.445	133.157	5.251	133.326	-0.169	5.311	-0.060	133.330	-0.173	5.321	-0.070
004	600	57.403	155.699	16.397	155.670	0.029	16.366	0.031	155.677	0.022	16.378	0.019
003	800	59.101	172.475	28.068	172.450	0.025	28.041	0.027	172.458	0.017	28.053	0.014
001	1000	59.956	185.765	39.982	185.751	0.014	39.965	0.017	185.759	0.006	39.978	0.004
000	1200	60.442	196.743	52.026	196.735	0.008	52.016	0.010	196.743	0.000	52.028	-0.002
000	1400	60.741	206.084	64.147	206.080	0.004	64.141	0.006	206.086	-0.002	64.151	-0.004
001	1600	60.939	214.209	76.316	214.206	0.003	76.313	0.003	214.210	-0.001	76.320	-0.004
000	1800	61.076	221.395	88.518	221.393	0.002	88.517	0.001	221.396	-0.001	88.521	-0.003
000	2000	61.175	227.835	100.744	227.834	0.001	100.744	0.000	227.835	0.000	100.744	-0.000
000	2200	61.248	233.670	112.987	233.669	0.001	112.987	-0.000	233.668	0.002	112.985	0.002
001	2400	61.304	239.001	125.242	239.001	-0.000	125.243	-0.001	239.000	0.001	125.240	0.002
001	2600	61.348	243.910	137.508	243.910	-0.000	137.510	-0.002	243.909	0.001	137.506	0.002
000	2800	61.383	248.458	149.781	248.458	-0.000	149.783	-0.002	248.457	0.001	149.780	0.001
000	3000	61.411	252.694	162.060	252.694	-0.000	162.064	-0.004	252.694	0.000	162.063	-0.003
010	3000	61.411	252.694	162.060	252.694	-0.000	162.064	-0.004	252.694	0.000	162.075	-0.015
002	3200	61.434	256.658	174.345	256.658	-0.000	174.349	-0.004	256.654	0.004	174.349	-0.004
001	3400	61.453	260.383	186.633	260.384	-0.001	186.638	-0.005	260.377	0.006	186.631	0.002
004	3600	61.469	263.896	198.926	263.896	-0.000	198.930	-0.004	263.889	0.007	198.920	0.006
005	3800	61.483	267.220	211.221	267.220	-0.000	211.225	-0.004	267.213	0.007	211.214	0.007
005	4000	61.494	270.374	223.519	270.374	-0.000	223.522	-0.003	270.367	0.007	223.512	0.007
004	4200	61.504	273.374	235.818	273.375	-0.001	235.821	-0.003	273.368	0.006	235.813	0.005
003	4400	61.513	276.236	248.120	276.236	0.000	248.122	-0.002	276.229	0.006	248.117	0.003
000	4600	61.520	278.970	260.424	278.970	0.000	260.424	-0.000	278.965	0.005	260.422	0.001
000	4800	61.527	281.589	272.728	281.588	0.001	272.728	0.000	281.583	0.006	272.729	-0.001
002	5000	61.533	284.100	285.034	284.100	0.000	285.033	0.001	284.095	0.004	285.036	-0.002
002	5200	61.538	286.514	297.341	286.513	0.001	297.339	0.002	286.509	0.005	297.344	-0.003
001	5400	61.543	288.836	309.650	288.836	0.000	309.647	0.003	288.832	0.004	309.652	-0.002
001	5600	61.547	291.075	321.959	291.074	0.001	321.957	0.002	291.070	0.005	321.960	-0.001
001	5800	61.551	293.234	334.268	293.234	0.000	334.267	0.000	293.229	0.005	334.267	0.001
004	6000	61.554	295.321	346.579	295.321	-0.000	346.581	-0.002	295.315	0.006	346.574	0.005

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TITANIUM BETA PHASE                (C)      TI 1                                966
MOL. WT. = 47.900      BLCK = 4460      NO. POINT = 24
DATA FROM 298 TO 2500 K HFCRM(KCAL/(MOLE)) = 1.433 KEY = 950
ITS FOR NOTS RMS = C.002276
22 0 0 0 0 0 0 0 0 0 C TITANIUM BETA PHASE                (C) 30J 966 950
.3100509E+0-3.6101970E+0+2.7463016E+0-4.2569947E-1 400 2500 31J 966 950
.0467281E-1-1.5265798E+0+1.8754318E+1+1.4329996E+0TI(C) 32J 966 950

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FITS FOR EST      RMS LOW =      0.016682 RMS HIGH =      0.016682
 22 0 0 0 0 0 0 0 0 0 0 TITANIUM BETA PHASE (C) 30TIS
43299+4+218860+5+401403+1+225109-2+440487+6+255921+2 4002500J 96631TIS
43299+4+218860+5+401403+1+225109-2+440487+6+255921+2 4002500J 96632TIS

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[illegible]

CCH RADICAL (G) C 2H 1 1266
 MOL. WT.= 25.030 BLOCK= 4463 NO. POINT = 62
 DATA FROM C TO 6000 K HFORM(KCAL/(MOLE)) = 114.000 KEY = 952
 FITS FOR NOTS RMS = 0.016973
 1 1 2 6 0 0 0 0 0 0 CCH RADICAL (G) 10J1266 952
 +9.8507966E+0+2.9120750E+0-4.0836757E-1+1.6289964E-2 400 6000 11J1266 952
 -2.0156860E-1+1.1023242E+2+5.9453063E+1+1.1400000E+2C2H(G) 12J1266 952

FITS FOR EST RMS LOW = 0.019867 RMS HIGH = 0.009926
 1 1 2 6 0 0 0 0 0 0 CCH RADICAL (G) 10C2H
 +114000+6+356140+5+117829+2+124059-2-732848+6+773269+2 4003000J126611C2H
 +114000+6+356143+5+186584+2-308224-3-225542+8+773269+230006000J126612C2H

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
1	400	9.655	52.276	0.946	52.189	0.087	0.901	0.045	52.609	-0.333	1.083	-0.137
0	600	10.716	56.404	2.989	56.376	0.028	2.974	0.015	56.363	0.041	2.953	0.036
3	800	11.523	59.602	5.216	59.614	-0.012	5.229	-0.013	59.555	0.047	5.178	0.038
7	1000	12.176	62.246	7.588	62.267	-0.021	7.609	-0.021	62.227	0.019	7.574	0.014
9	1200	12.701	64.514	10.078	64.529	-0.015	10.091	-0.013	64.511	0.007	10.082	-0.004
7	1400	13.129	66.505	12.662	66.511	-0.006	12.663	-0.001	66.508	-0.003	12.674	-0.012
4	1600	13.492	68.282	15.325	68.281	0.001	15.316	0.009	68.286	-0.004	15.337	-0.012
7	1800	13.813	69.890	18.056	69.886	0.004	18.042	0.014	69.892	-0.002	18.064	-0.008
4	2000	14.109	71.361	20.849	71.357	0.004	20.835	0.014	71.360	0.001	20.852	-0.003
7	2200	14.386	72.719	23.698	72.717	0.002	23.689	0.009	72.715	0.004	23.696	0.002
5	2400	14.648	73.982	26.602	73.983	-0.001	26.598	0.004	73.976	0.006	26.596	0.006
2	2600	14.893	75.165	29.557	75.167	-0.002	29.558	-0.001	75.158	0.007	29.549	0.008
7	2800	15.119	76.277	32.558	76.281	-0.004	32.564	-0.006	76.272	0.005	32.555	0.003
1	3000	15.324	77.327	35.603	77.332	-0.005	35.611	-0.008	77.327	0.000	35.614	-0.011
4	3000	15.324	77.327	35.603	77.332	-0.005	35.611	-0.008	77.327	0.000	35.614	-0.011
8	3200	15.506	78.322	38.686	78.327	-0.005	38.694	-0.008	78.318	0.004	38.685	0.001
9	3400	15.665	79.267	41.804	79.271	-0.004	41.810	-0.006	79.262	0.005	41.799	0.005
7	3600	15.801	80.166	44.951	80.170	-0.004	44.955	-0.004	80.161	0.005	44.946	0.005
5	3800	15.915	81.023	48.123	81.026	-0.003	48.123	-0.001	81.019	0.004	48.120	0.003
1	4000	16.007	81.842	51.315	81.844	-0.002	51.313	0.002	81.838	0.004	51.314	0.001
3	4200	16.080	82.625	54.524	82.627	-0.002	54.520	0.004	82.621	0.004	54.525	-0.001
7	4400	16.136	83.374	57.746	83.376	-0.002	57.742	0.004	83.371	0.003	57.747	-0.001
	4600	16.177	84.093	60.978	84.094	-0.001	60.973	0.005	84.089	0.004	60.979	-0.001
	4800	16.203	84.782	64.216	84.784	-0.002	64.213	0.003	84.778	0.004	64.217	-0.001
	5000	16.219	85.444	67.458	85.446	-0.002	67.458	0.000	85.440	0.004	67.458	-0.000
	5200	16.224	86.080	70.703	86.083	-0.003	70.704	-0.001	86.076	0.004	70.702	0.001
	5400	16.221	86.692	73.947	86.695	-0.003	73.951	-0.004	86.688	0.004	73.946	0.001
	5600	16.212	87.282	77.191	87.285	-0.003	77.194	-0.003	87.278	0.004	77.190	0.001
	5800	16.196	87.851	80.432	87.853	-0.002	80.432	-0.000	87.847	0.004	80.431	0.001
	6000	16.177	88.399	83.669	88.401	-0.002	83.664	0.005	88.396	0.003	83.670	-0.001

TUNGSTEN HEXACHLORIDE, BETA (C) CL 6W 1 0 0 0 0 1266
 MOL. WT. = 396.560 BLOCK = 447C NO. POINT = 14
 DATA FROM 298 TO 1500 K BFORM (KCAL/(MOLE)) = -136.921 KEY = 953
 FITS FOR NOTS RMS = 0.000260
 6 17 1 74 0 0 0 0 0 0 0 TUNGSTEN HEXACHLORIDE, BETA (C) 30J1266 953
 +4.4588882E+1+1.0292786E+C-9.1280847E-1+2.7307653E-1 400 1500 31J1266 953
 +2.2277832E-2-1.5018280E+2+1.2087100E+2-1.3692098E+2CL6W (C) 32J1266 953

FITS FOR EST RMS LOW = 0.000207 RMS HIGH = 0.000207
 6 17 1 74 0 0 0 0 0 0 0 TUNGSTEN HEXACHLORIDE, BETA (C) 30CL6W\$
 -136920+6+121569+6+450169+2-112167-4-444800+4+170954+3 4001500J126631CL6W\$
 -136920+6+121569+6+450169+2-112167-4-444800+4+170954+3 4001500J126632CL6W\$

-----NOTS-----												-----EST-----											
T	CF	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	CF	S	H	SC	DS	HC	DH	T	CF	S	H
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M-K	C/M-K	KC/M
400	45.000	80.290	4.583	80.290	0.000	4.583	0.000	80.293	-0.003	4.584	-0.001	400	45.000	80.290	4.583	80.290	0.000	4.583	0.000	400	45.000	80.290	4.583
500	45.000	90.332	9.083	90.332	0.000	9.083	0.000	90.332	0.000	9.083	-0.000	500	45.000	90.332	9.083	90.332	0.000	9.083	0.000	500	45.000	90.332	9.083
600	45.000	98.536	13.583	98.536	0.000	13.583	0.000	98.536	0.000	13.583	0.000	600	45.000	98.536	13.583	98.536	0.000	13.583	0.000	600	45.000	98.536	13.583
700	45.000	105.473	18.083	105.473	0.000	18.083	0.000	105.472	0.001	18.083	0.000	700	45.000	105.473	18.083	105.473	0.000	18.083	0.000	700	45.000	105.473	18.083
800	45.000	111.482	22.583	111.482	0.000	22.583	0.000	111.481	0.001	22.583	0.000	800	45.000	111.482	22.583	111.482	0.000	22.583	0.000	800	45.000	111.482	22.583
900	45.000	116.782	27.083	116.782	-0.000	27.083	-0.000	116.782	0.000	27.083	0.000	900	45.000	116.782	27.083	116.782	-0.000	27.083	0.000	900	45.000	116.782	27.083
1000	45.000	121.523	31.583	121.524	-0.001	31.583	-0.000	121.523	-0.000	31.583	0.000	1000	45.000	121.523	31.583	121.524	-0.001	31.583	0.000	1000	45.000	121.523	31.583
1100	45.000	125.812	36.083	125.813	-0.001	36.083	-0.000	125.812	-0.000	36.083	-0.000	1100	45.000	125.812	36.083	125.813	-0.001	36.083	-0.000	1100	45.000	125.812	36.083
1200	45.000	129.728	40.583	129.728	0.000	40.583	-0.000	129.728	0.000	40.583	-0.000	1200	45.000	129.728	40.583	129.728	0.000	40.583	-0.000	1200	45.000	129.728	40.583
1300	45.000	133.330	45.083	133.330	0.000	45.083	0.000	133.330	0.000	45.083	-0.000	1300	45.000	133.330	45.083	133.330	0.000	45.083	-0.000	1300	45.000	133.330	45.083
1400	45.000	136.664	49.583	136.664	-0.000	49.583	0.000	136.664	-0.000	49.583	-0.000	1400	45.000	136.664	49.583	136.664	-0.000	49.583	-0.000	1400	45.000	136.664	49.583
1500	45.000	139.769	54.083	139.769	-0.000	54.083	-0.000	139.769	0.000	54.083	0.000	1500	45.000	139.769	54.083	139.769	-0.000	54.083	0.000	1500	45.000	139.769	54.083

TUNGSTEN HEXACHLORIDE, BETA (C) 30J1266 953 10 17
 +6.75
 -4.84
 FIT
 10 17
 -2075
 -2075

TUNGSTEN PENTACHLORIDE DIMERIC (G) CL10W 2
 MOL. WT. = 722.230 BLOCK = 4471 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -207.600 KEY = 954
 FITS FOR NOTS RMS = 0.010467

1266

10 17 2 74 0 0 0 0 0 0 0 TUNGSTEN PENTACHLORIDE DIMERIC (G) 10J1266 954
 +6.7592941E+1-2.9921620E-3-3.9587058E-3+6.5633282E-4 400 6000 11J1266 954
 -4.8413085E-1-2.2931996E+2+2.4978439E+2-2.0759999E+2CL10W2(G) 12J1266 954

FITS FOR EST RMS LOW = 0.001400 RMS HIGH = 0.020308
 10 17 2 74 0 0 0 0 0 0 0 TUNGSTEN PENTACHLORIDE DIMERIC (G) 10CL10W2
 -207599+6+181180+6+675558+2+228788-5-465616+6+324045+3 4003000J126611CL10W2
 -207599+6+181196+6+680384+2-690367-4-356736+7+324045+330006000J126612CL10W2

-----NOTS-----

-----EST-----

DH KC/M	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
-0.001	400	64.828	189.319	6.520	189.361	-0.042	6.527	-0.007	189.351	-0.032	6.534	-0.014
-0.000	600	66.283	215.934	19.658	215.926	0.008	19.642	0.016	215.934	-0.000	19.657	0.001
0.000	800	66.830	235.088	32.976	235.076	0.012	32.958	0.018	235.087	0.001	32.975	0.001
0.000	1000	67.090	250.032	46.371	250.022	0.010	46.354	0.017	250.031	0.001	46.370	0.001
0.000	1200	67.233	262.278	59.805	262.270	0.008	59.791	0.014	262.277	0.001	59.804	0.001
0.000	1400	67.320	272.649	73.261	272.643	0.006	73.250	0.011	272.648	0.001	73.260	0.001
0.000	1600	67.377	281.642	86.731	281.639	0.003	86.723	0.008	281.641	0.001	86.730	0.000
-0.000	1800	67.416	289.580	100.210	289.579	0.001	100.205	0.005	289.580	0.000	100.210	-0.000
-0.000	2000	67.444	296.685	113.696	296.685	0.000	113.694	0.002	296.684	0.001	113.696	-0.000
-0.000	2200	67.465	303.114	127.187	303.115	-0.001	127.187	-0.000	303.113	0.000	127.187	-0.000
-0.000	2400	67.480	308.985	140.682	308.986	-0.001	140.683	-0.001	308.984	0.001	140.682	0.000
0.000	2600	67.493	314.387	154.179	314.389	-0.002	154.182	-0.003	314.386	0.001	154.179	-0.000
	2800	67.502	319.389	167.679	319.391	-0.002	167.682	-0.003	319.388	0.001	167.679	0.000
	3000	67.510	324.046	181.180	324.049	-0.003	181.184	-0.004	324.046	0.000	181.180	-0.000
	3000	67.510	324.046	181.180	324.049	-0.003	181.184	-0.004	324.046	0.000	181.197	-0.017
	3200	67.517	328.403	194.683	328.406	-0.003	194.687	-0.004	328.399	0.004	194.687	-0.004
	3400	67.522	332.497	208.187	332.499	-0.002	208.191	-0.004	332.490	0.007	208.184	0.003
	3600	67.527	336.356	221.691	336.359	-0.003	221.696	-0.005	336.349	0.007	221.685	0.006
	3800	67.530	340.007	235.197	340.010	-0.003	235.201	-0.004	339.999	0.008	235.189	0.008
	4000	67.534	343.471	248.703	343.473	-0.002	248.706	-0.003	343.463	0.008	248.696	0.007
	4200	67.536	346.766	262.210	346.768	-0.002	262.212	-0.002	346.759	0.007	262.205	0.005
	4400	67.539	349.908	275.718	349.910	-0.002	275.718	-0.000	349.901	0.007	275.714	0.003
	4600	67.541	352.911	289.226	352.912	-0.001	289.226	0.000	352.904	0.007	289.225	0.001
	4800	67.543	355.785	302.734	355.786	-0.001	302.733	0.001	355.779	0.006	302.735	-0.001
	5000	67.544	358.542	316.243	358.543	-0.001	316.241	0.002	358.536	0.006	316.245	-0.002
	5200	67.546	361.192	329.752	361.193	-0.001	329.750	0.002	361.186	0.006	329.755	-0.003
	5400	67.547	363.741	343.261	363.742	-0.001	343.259	0.002	363.735	0.006	343.264	-0.003
	5600	67.548	366.197	356.771	366.198	-0.001	356.769	0.002	366.191	0.006	356.772	-0.001
	5800	67.549	368.568	370.281	368.569	-0.001	370.280	0.001	368.561	0.007	370.280	0.001
	6000	67.550	370.858	383.791	370.859	-0.001	383.792	-0.001	370.850	0.008	383.785	0.006

$$\begin{array}{r} 1 \\ + 1. \\ - 2. \end{array}$$
$$\begin{array}{r} 1 \\ +00 \\ +00 \end{array}$$

NOTS		EST										
DH	CP	S	H	SC	DS	NC	DH	SC	DS	HC	DH	T
KC/M	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
0.014	22.905	75.327	2.157	76.117	-0.790	2.481	-0.324	76.379	-1.052	2.594	-0.437	40
0.001	27.410	85.560	7.235	85.482	0.077	7.156	0.079	85.453	0.107	7.135	0.100	60
0.001	29.962	93.825	12.993	93.709	0.116	12.891	0.102	93.673	0.152	12.866	0.127	80
0.001	31.625	100.701	19.162	100.635	0.066	19.106	0.056	100.624	0.077	19.103	0.059	100
0.001	32.821	106.578	25.613	106.553	0.025	25.601	0.012	106.560	0.018	25.617	-0.004	120
0.001	33.722	111.708	32.271	111.705	0.003	32.287	-0.016	111.717	-0.009	32.311	-0.040	140
0.000	34.416	116.258	39.088	116.262	-0.004	39.114	-0.026	116.272	-0.014	39.134	-0.046	160
0.000	34.957	120.344	46.027	120.348	-0.004	46.053	-0.026	120.351	-0.007	46.061	-0.034	180
0.000	35.386	124.050	53.063	124.050	-0.000	53.081	-0.018	124.045	0.005	53.075	-0.012	200
0.000	35.728	127.440	60.176	127.435	0.005	60.184	-0.008	127.424	0.016	60.165	0.011	220
0.000	36.005	130.561	67.350	130.552	0.009	67.350	0.000	130.538	0.023	67.324	0.026	240
0.000	36.231	133.452	74.575	133.441	0.011	74.568	0.007	133.429	0.023	74.548	0.027	260
0.000	36.418	136.144	81.840	136.131	0.013	81.830	0.010	136.129	0.015	81.833	0.007	280
0.000	36.573	138.662	89.140	138.649	0.013	89.129	0.011	138.662	0.000	89.177	-0.037	300
0.017	36.573	138.662	89.140	138.649	0.013	89.129	0.011	138.662	0.000	89.149	-0.009	320
0.004	36.704	141.027	96.468	141.014	0.012	96.459	0.009	141.024	0.003	96.470	-0.002	340
0.003	36.815	143.255	103.820	143.244	0.011	103.814	0.006	143.251	0.003	103.818	0.002	360
0.006	36.909	145.362	111.192	145.352	0.010	111.191	0.001	145.358	0.004	111.188	0.004	380
0.008	36.990	147.360	118.583	147.351	0.009	118.585	-0.002	147.356	0.004	118.578	0.005	400
0.007	37.061	149.259	125.988	149.251	0.008	125.994	-0.006	149.255	0.004	125.984	0.004	
0.005	37.122	151.069	133.406	151.062	0.007	133.414	-0.008	151.065	0.004	133.403	0.003	
0.003	37.175	152.797	140.836	152.790	0.007	140.844	-0.008	152.793	0.004	140.834	0.002	
0.001	37.223	154.451	148.276	154.443	0.008	148.283	-0.007	154.447	0.004	148.275	0.000	
0.001	37.264	156.036	155.725	156.027	0.009	155.728	-0.003	156.033	0.003	155.725	-0.000	
0.002	37.301	157.558	163.181	157.548	0.010	163.181	0.000	157.555	0.003	163.183	-0.002	
0.003	37.335	159.021	170.645	159.011	0.010	170.640	0.005	159.018	0.003	170.647	-0.002	
0.003	37.364	160.431	178.115	160.420	0.011	178.107	0.008	160.428	0.003	178.116	-0.001	
0.001	37.391	161.790	185.590	161.780	0.010	185.583	0.007	161.787	0.003	185.591	-0.001	
0.001	37.415	163.103	193.071	163.093	0.010	193.069	0.002	163.099	0.004	193.070	0.001	
0.006	37.437	164.372	200.556	164.364	0.008	200.567	-0.011	164.368	0.004	200.553	0.003	

MOLYBDENUM (L) MO 1 0 0 0 0 0 1266
 MOL. WT. = 95.940 BLOCK = 4494 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 7.076 KEY = 958
 FITS FOR NOTS RMS = 0.167547
 42 0 0 0 0 0 0 0 0 0 MOLYBDENUM (L) 20J1266 958
 1.2674646E+0+6.6034603E+0-1.6073246E+0+1.2643551E-1 400 6000 21J1266 958
 1.5307617E-1+7.4397993E+0+1.0912363E+1+7.0759992E+0MO (L) 22J1266 958
 FITS FOR EST RMS LOW = 0.319087 RMS HIGH = 0.319087
 42 0 0 0 0 0 0 0 0 0 MOLYBDENUM (L) 20MO*
 1.7599+4+220104+5+105307+2-698425-4-389446+7+260519+2 4006000J126621MO*
 1.7599+4+220104+5+105307+2-698425-4-389446+7+260519+2 4006000J126622MO*

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
3.914	100	6.050	10.993	0.601	11.788	-0.795	0.983	-0.382	16.969	-5.976	3.377	-2.776	1
0.151	100	6.380	13.517	1.848	13.734	-0.217	1.946	-0.098	14.464	-0.947	2.231	-0.383	1
-0.853	100	6.552	15.377	3.143	15.300	0.077	3.038	0.105	15.113	0.264	2.705	0.438	1
-0.927	100	6.698	16.855	4.467	16.678	0.177	4.276	0.191	16.353	0.502	3.825	0.642	10
-0.670	200	6.927	18.094	5.827	17.930	0.164	5.651	0.176	17.664	0.430	5.266	0.561	11
-0.317	400	7.274	19.187	7.246	19.085	0.102	7.152	0.094	18.915	0.272	6.891	0.355	11
0.019	100	7.684	20.184	8.741	20.159	0.025	8.761	-0.020	20.074	0.110	8.628	0.113	11
0.278	100	8.140	21.115	10.323	21.162	-0.047	10.465	-0.142	21.141	-0.026	10.440	-0.117	11
0.423	100	10.000	21.998	11.999	22.101	-0.103	12.249	-0.250	22.122	-0.124	12.303	-0.304	20
0.436	200	10.000	22.951	13.999	22.983	-0.032	14.099	-0.100	23.028	-0.077	14.203	-0.204	21
0.322	400	10.000	23.821	15.999	23.811	0.010	16.002	-0.003	23.866	-0.045	16.130	-0.131	21
0.132	100	10.000	24.621	17.999	24.589	0.032	17.948	0.051	24.645	-0.024	18.076	-0.077	21
-0.064	100	10.000	25.362	19.999	25.322	0.040	19.925	0.074	25.371	-0.009	20.038	-0.039	21
-0.201	100	10.000	26.052	21.999	26.012	0.040	21.925	0.074	26.052	0.000	22.010	-0.011	30
-0.251	200	10.000	26.698	23.999	26.662	0.036	23.940	0.059	26.691	0.007	23.992	0.007	30
-0.223	400	10.000	27.304	25.999	27.275	0.029	25.962	0.037	27.294	0.010	25.981	0.018	31
-0.120	100	10.000	27.876	27.999	27.853	0.023	27.987	0.012	27.864	0.012	27.974	0.025	31
0.054	100	10.000	28.416	29.999	28.400	0.016	30.009	-0.010	28.404	0.012	29.972	0.027	31
0.299	100	10.000	28.929	31.999	28.917	0.012	32.025	-0.026	28.917	0.012	31.972	0.027	31
	200	10.000	29.417	33.999	29.407	0.010	34.034	-0.035	29.405	0.012	33.975	0.024	40
	100	10.000	29.882	35.999	29.873	0.009	36.035	-0.036	29.872	0.010	35.979	0.020	41
	100	10.000	30.327	37.999	30.316	0.011	38.028	-0.029	30.317	0.010	37.983	0.016	41
	100	10.000	30.752	39.999	30.738	0.014	40.014	-0.015	30.744	0.008	39.989	0.010	41
	100	10.000	31.161	41.999	31.143	0.018	41.997	0.002	31.153	0.008	41.994	0.005	41
	100	10.000	31.553	43.999	31.532	0.021	43.981	0.018	31.546	0.007	43.999	0.000	50
	100	10.000	31.930	45.999	31.907	0.023	45.970	0.029	31.925	0.005	46.003	-0.004	51
	100	10.000	32.294	47.999	32.271	0.023	47.972	0.027	32.289	0.005	48.007	-0.008	51
	100	10.000	32.645	49.999	32.626	0.019	49.993	0.006	32.640	0.005	50.009	-0.010	51
	100	10.000	32.984	51.999	32.973	0.011	52.043	-0.044	32.979	0.005	52.011	-0.012	51

MOLYBDENUM MONATOMIC (G) MO 1 0 0 0 0 0 1266
 MCL. WT.= 95.940 BLOCK= 4500 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 157.300 KEY = 959
 FITS FOR NOTS RMS = 0.088365
 1 42 0 0 0 0 0 0 0 0 0 MOLYBDENUM MONATOMIC (G) 10J1266 959
 +1.3982502E+1-9.0777130E+0+2.8789777E+0-2.2357279E-1 400 6000 11J1266 959
 -2.1270141E+0+1.4818959E+2+5.5979125E+1+1.5729998E+2MO (G) 12J1266 959

FITS FOR EST RMS LOW = 0.053131 RMS HIGH = 0.176176
 1 42 0 0 0 0 0 0 0 0 0 MOLYBDENUM MONATOMIC (G) 10MO
 +157299+6+140751+5+332305+1+872111-3+602417+6+551999+2 4003000J126611MO
 +157299+6+142299+5+182767+1+236844-2-303184+8+551999+230006000J126612MO

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-2.776	400	4.968	44.920	0.506	46.408	-1.488	1.134	-0.628	44.388	0.532	0.275	0.231	
-0.383	600	4.968	46.935	1.500	46.846	0.089	1.390	0.110	46.955	-0.020	1.529	-0.029	
0.438	800	4.968	48.364	2.493	48.142	0.222	2.298	0.195	48.452	-0.088	2.567	-0.074	
0.642	1000	4.968	49.472	3.487	49.330	0.142	3.364	0.123	49.537	-0.065	3.539	-0.052	
0.561	1200	4.970	50.378	4.480	50.318	0.060	4.448	0.032	50.410	-0.032	4.496	-0.016	
0.355	1400	4.977	51.145	5.475	51.135	0.010	5.507	-0.032	51.152	-0.007	5.459	0.016	
0.113	1600	4.998	51.810	6.472	51.822	-0.012	6.536	-0.064	51.806	0.004	6.439	0.033	
-0.117	1800	5.043	52.401	7.476	52.416	-0.015	7.544	-0.068	52.396	0.005	7.442	0.034	
-0.304	2000	5.125	52.937	8.492	52.943	-0.006	8.546	-0.054	52.939	-0.002	8.471	0.021	
-0.204	2200	5.254	53.431	9.529	53.426	0.005	9.559	-0.030	53.443	-0.012	9.530	-0.001	
-0.131	2400	5.440	53.895	10.597	53.880	0.015	10.602	-0.005	53.916	-0.021	10.618	-0.021	
-0.077	2600	5.689	54.340	11.709	54.316	0.024	11.692	0.017	54.365	-0.025	11.738	-0.029	
-0.039	2800	6.005	54.773	12.877	54.743	0.030	12.847	0.030	54.791	-0.018	12.890	-0.013	
-0.011	3000	6.391	55.200	14.116	55.169	0.031	14.080	0.036	55.200	0.000	14.075	0.041	
0.007	3000	6.391	55.200	14.116	55.169	0.031	14.080	0.036	55.200	0.000	14.230	-0.114	
0.018	3200	6.847	55.627	15.438	55.596	0.031	15.406	0.032	55.588	0.039	15.432	0.006	
0.025	3400	7.368	56.057	16.859	56.030	0.027	16.836	0.023	56.003	0.054	16.804	0.055	
0.027	3600	7.949	56.494	18.389	56.471	0.023	18.380	0.009	56.440	0.054	18.332	0.057	
0.027	3800	8.580	56.941	20.042	56.921	0.020	20.046	-0.004	56.892	0.049	20.007	0.035	
0.024	4000	9.248	57.398	21.824	57.381	0.017	21.839	-0.015	57.357	0.041	21.821	0.003	
0.020	4200	9.938	57.866	23.742	57.850	0.016	23.764	-0.022	57.832	0.034	23.767	-0.025	
0.016	4400	10.635	58.344	25.799	58.329	0.015	25.822	-0.023	58.314	0.030	25.842	-0.043	
0.010	4600	11.320	58.832	27.995	58.816	0.016	28.013	-0.018	58.803	0.029	28.039	-0.044	
0.005	4800	11.978	59.328	30.326	59.309	0.019	30.334	-0.008	59.296	0.032	30.356	-0.030	
0.000	5000	12.592	59.829	32.783	59.809	0.020	32.780	0.003	59.792	0.036	32.790	-0.007	
-0.004	5200	13.150	60.334	35.359	60.312	0.022	35.346	0.013	60.292	0.042	35.339	0.020	
-0.008	5400	13.642	60.840	38.039	60.817	0.023	38.021	0.018	60.794	0.046	37.999	0.040	
-0.010	5600	14.061	61.344	40.810	61.321	0.023	40.796	0.014	61.298	0.046	40.769	0.041	
-0.012	5800	14.403	61.844	43.658	61.823	0.021	43.657	0.001	61.803	0.041	43.648	0.010	
	6000	14.669	62.337	46.567	62.320	0.017	46.589	-0.022	62.309	0.028	46.634	-0.067	

MOLYBDENUM UNIPOSITIVE ION (G) MO 1 1 1266
 MOL. WT.= 95.940 BLOCK= 4507 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 322.823 KEY = 960
 FITS FOR NOTS RMS = 0.066923
 1 -1 1 42 0 0 0 0 0 0 0 MOLYBDENUM UNIPOSITIVE ION (G) 10J1266 960 4
 1.4331750E+1-9.9491767E+0+3.3238248E+0-2.8425121E-1 400 6000 11J1266 960 +2
 1.9910430E+0+3.1384375E+2+5.6450408E+1+3.2282299E+2MO+(G) 12J1266 960 -4

FITS FOR EST RMS LOW = 0.060546 RMS HIGH = 0.197000
 1 -1 1 42 0 0 0 0 0 0 0 MOLYBDENUM UNIPOSITIVE ION (G) 10MO+ 4
 322822+6+140435+5+324631+1+893489-3+646927+6+548799+2 4003000J126611MO+ -3
 322822+6+142346+5+116192+2+655437-3-743296+8+548799+230006000J126612MO+ -3

DH KC/M	-----NOTS-----								-----EST-----				
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
0.231	400	4.968	44.614	0.506	45.821	-1.207	1.004	-0.498	44.030	0.584	0.252	0.254	4
-0.029	500	4.968	46.628	1.500	46.503	0.125	1.377	0.123	46.648	-0.020	1.530	-0.030	5
-0.074	600	4.968	48.057	2.493	47.864	0.193	2.329	0.164	48.154	-0.097	2.574	-0.081	6
-0.052	700	4.968	49.166	3.487	49.064	0.102	3.406	0.081	49.239	-0.073	3.546	-0.059	7
-0.016	800	4.969	50.072	4.480	50.045	0.027	4.482	-0.002	50.108	-0.036	4.499	-0.019	8
0.016	900	4.972	50.838	5.474	50.849	-0.011	5.524	-0.050	50.847	-0.009	5.458	0.016	9
0.033	1000	4.986	51.503	6.470	51.523	-0.020	6.533	-0.063	51.498	0.005	6.433	0.037	10
0.034	1100	5.020	52.091	7.470	52.105	-0.014	7.522	-0.052	52.086	0.005	7.431	0.039	11
0.021	1200	5.091	52.624	8.480	52.625	-0.001	8.508	-0.028	52.625	-0.001	8.456	0.024	12
-0.001	1300	5.214	53.114	9.510	53.103	0.011	9.511	-0.001	53.127	-0.013	9.510	0.000	13
-0.021	1400	5.405	53.575	10.570	53.555	0.020	10.551	0.019	53.599	-0.024	10.594	-0.024	14
-0.029	1500	5.672	54.018	11.677	53.993	0.025	11.647	0.030	54.046	-0.028	11.711	-0.034	15
-0.013	1600	6.022	54.451	12.845	54.425	0.026	12.814	0.031	54.472	-0.021	12.861	-0.016	
0.041	1700	6.452	54.880	14.091	54.857	0.023	14.067	0.024	54.880	0.000	14.044	0.047	
-0.114	1800	6.452	54.880	14.091	54.857	0.023	14.067	0.024	54.880	0.000	14.235	-0.144	
0.006	1900	6.956	55.313	15.431	55.293	0.020	15.418	0.013	55.261	0.052	15.416	0.015	
0.055	2000	7.522	55.751	16.877	55.736	0.015	16.878	-0.001	55.682	0.069	16.806	0.071	
0.057	2100	8.132	56.198	18.442	56.186	0.012	18.454	-0.012	56.130	0.068	18.375	0.067	
0.035	2200	8.769	56.655	20.132	56.644	0.011	20.150	-0.018	56.595	0.060	20.097	0.035	
0.003	2300	9.411	57.121	21.950	57.110	0.010	21.968	-0.018	57.071	0.050	21.954	-0.004	
-0.025	2400	10.039	57.595	23.896	57.584	0.011	23.909	-0.013	57.553	0.042	23.930	-0.034	
-0.043	2500	10.632	58.076	25.963	58.063	0.013	25.969	-0.006	58.038	0.038	26.013	-0.050	
-0.044	2600	11.176	58.561	28.145	58.546	0.015	28.142	0.003	58.522	0.039	28.193	-0.048	
-0.030	2700	11.658	59.047	30.430	59.030	0.017	30.420	0.010	59.004	0.043	30.459	-0.029	
-0.007	2800	12.067	59.532	32.804	59.514	0.018	32.791	0.013	59.483	0.049	32.806	-0.002	
0.020	2900	12.401	60.012	35.252	59.995	0.017	35.243	0.009	59.958	0.054	35.227	0.025	
0.040	3000	12.658	60.485	37.759	60.470	0.015	37.758	0.001	60.428	0.057	37.716	0.043	
0.041	3100	12.839	60.948	40.310	60.935	0.013	40.317	-0.007	60.892	0.056	40.269	0.041	
0.010	3200	12.950	61.401	42.890	61.388	0.013	42.898	-0.008	61.350	0.051	42.882	0.008	
-0.067	3300	12.996	61.841	45.485	61.825	0.016	45.476	0.009	61.803	0.038	45.552	-0.067	


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SODIUM SULFATE PHASE III (C) NA 20 4S 1 0 0 0 1266
MOL. WT. = 142.040 BLOCK = 4515 NO. POINT = 11
DATA FROM 298 TO 1200 K HFORM(KCAL/(MOLE)) = -331.005 KEY = 962
FITS FOR NOTS RMS = 0.001307
 8 2 11 1 16 0 0 0 0 0 0 SODIUM SULFATE PHASE III (C) 30J1266 962
.7519378E+0+1.3846994E+2-1.1841773E+2+3.4523651E+1 400 1200 31J1266 962
.2622375E-1-3.3936865E+2-1.4301605E+0-3.3100488E+2NA204S(C) 32J1266 962

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FITS FOR EST RMS LOW = 0.013303 RMS HIGH = 0.013303
 8 2 11 1 16 0 0 0 0 0 SODIUM SULFATE PHASE III (C) 30NA204S\$
 21004+6+148997+6+598610+2-118250-3-442100+7+153347+3 4001200J126631NA204S\$
 21004+6+148997+6+598610+2-118250-3-442100+7+153347+3 4001200J126632NA204S\$

069

.042

015

C 18

004
C09

013
010

.013

SODIUM SULFATE PHASE I (C) NA 20 45 1 0 0 0 1266
MOL. WT.= 142.040 BLCK= 4516 NO. POINT = 19
DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -330.096 KEY = 963
FITS FOR NOTS RMS = 0.005838
4 8 2 11 1 16 0 0 0 0 0 SODIUM SULFATE PHASE I (C) 30J1266 963
+8.5286254E+0+6.1374389E+1-2.8016006E+1+4.2953987E+0 400 2000 31J1266 963
+1.9681243E+0-3.2892578E+2+4.0835861E+1-3.3009594E+2NA204S(C) 32J1266 963

FITS FOR EST RMS LOW = 0.111743 RMS HIGH = 0.111743
4 8 2 11 1 16 0 0 0 0 0 SODIUM SULFATE PHASE I (C) 30NA204S\$
-330095+6+140185+6+473192+2+432871-2-299638+7+147977+3 4002000J126631NA204S\$
-330095+6+140185+6+473192+2+432871-2-299638+7+147977+3 4002000J126632NA204S\$

	-----NOTS-----								-----EST-----				
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	C
036	400	39.868	49.313	4.015	49.271	0.042	4.001	0.014	50.577	-1.264	4.515	-0.500	39
051	500	40.790	58.305	8.047	58.352	-0.047	8.070	-0.023	58.198	0.107	7.943	0.104	40
07	600	41.920	65.840	12.182	65.837	0.003	12.177	0.005	65.427	0.413	11.915	0.267	41
017	700	43.243	72.399	16.438	72.375	0.024	16.420	0.018	72.050	0.349	16.214	0.224	43
017	800	44.796	78.272	20.838	78.263	0.009	20.831	0.007	78.085	0.187	20.736	0.102	44
003	900	46.581	83.649	25.405	83.657	-0.008	25.412	-0.007	83.600	0.049	25.420	-0.015	46
010	1000	48.190	88.640	30.143	88.650	-0.010	30.153	-0.010	88.667	-0.027	30.230	-0.087	48
011	1100	49.570	93.299	35.033	93.303	-0.004	35.036	-0.003	93.350	-0.051	35.144	-0.111	50.
008	1200	50.640	97.659	40.045	97.659	-0.000	40.043	0.002	97.702	-0.043	40.147	-0.102	51
	1300	51.570	101.750	45.157	101.750	0.000	45.155	0.002	101.768	-0.018	45.228	-0.071	53
	1400	52.300	105.600	50.351	105.601	-0.001	50.351	-0.000	105.586	0.014	50.379	-0.028	54.
	1500	52.917	109.230	55.613	109.232	-0.002	55.616	-0.003	109.185	0.045	55.596	0.017	54.
	1600	53.390	112.661	60.930	112.663	-0.002	60.931	-0.001	112.591	0.070	60.874	0.056	55
	1700	53.696	115.907	66.285	115.909	-0.002	66.285	-0.000	115.826	0.081	66.210	0.075	55
	1800	53.900	118.983	71.666	118.983	-0.000	71.664	0.002	118.908	0.075	71.602	0.064	55.
	1900	54.001	121.900	77.062	121.901	-0.001	77.060	0.002	121.851	0.049	77.047	0.015	55
	2000	54.000	124.671	82.463	124.673	-0.002	82.464	-0.001	124.671	0.000	82.544	-0.081	56.

TUNGSTEN UNIPOSITIVE ION (G) W 1 1 1266 SILIC
 MOL. WT.= 183.850 BLOCK= 4523 NO. POINT = 59 MOL.
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 388.918 KEY = 966 DATA FR
 FITS FOR NOTS RMS = 0.051315 FITS FO
 1 -1 1 74 0 0 0 0 0 0 TUNGSTEN UNIPOSITIVE ION (G) 10J1266 966 1 6 1 1
 1.3037752E+1-4.3138580E+0+1.2517948E+0-1.0437303E-1 400 6000 11J1266 966 +1.070857
 1.9125976E+0+3.8020874E+2+5.3125167E+1+3.8891796E+2W+(G) 12J1266 966 -6.192626

 FITS FOR EST RMS LOW = 0.019849 RMS HIGH = 0.066588 FITS FO
 1 -1 1 74 0 0 0 0 0 0 TUNGSTEN UNIPOSITIVE ION (G) 10W+ 1 6 1 1
 188917+6+207915+5+867531+1-132041-3-851168+6+593249+2 4003000J126611W+ -175000+5
 188917+6+208492+5+110853+2-864521-4-264948+8+593249+230006000J126612W+ -175000+5

-----NOTS-----												-----EST-----	
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/M
400	5.471	44.478	0.537	45.528	-1.050	0.968	-0.431	44.801	-0.323	0.664	-0.127	400	8.1
600	6.380	46.870	1.723	46.751	0.119	1.611	0.112	46.814	0.056	1.676	0.047	600	9.9
800	7.078	48.808	3.073	48.642	0.166	2.934	0.139	48.767	0.041	3.038	0.035	800	10.9
1000	7.553	50.442	4.540	50.359	0.083	4.475	0.065	50.437	0.005	4.537	0.003	1000	11.5
1200	7.877	51.849	6.085	51.831	0.018	6.091	-0.006	51.862	-0.013	6.101	-0.016	1200	11.9
1400	8.081	53.080	7.682	53.092	-0.012	7.727	-0.045	53.094	-0.014	7.700	-0.018	1400	12.2
1600	8.189	54.167	9.311	54.184	-0.017	9.363	-0.052	54.175	-0.008	9.320	-0.009	1600	12.5
1800	8.223	55.134	10.953	55.144	-0.010	10.992	-0.039	55.136	-0.002	10.951	0.002	1800	12.7
2000	8.214	56.001	12.597	55.999	0.002	12.615	-0.018	55.999	0.002	12.588	0.009	2000	12.8
2200	8.190	56.782	14.238	56.771	0.011	14.235	0.003	56.781	0.001	14.229	0.009	2200	12.9
2400	8.173	57.494	15.874	57.476	0.018	15.857	0.017	57.495	-0.001	15.871	0.003	2400	13.0
2600	8.179	58.148	17.508	58.128	0.020	17.485	0.023	58.152	-0.004	17.513	-0.005	2600	13.1
2800	8.218	58.756	19.147	58.736	0.020	19.125	0.022	58.760	-0.004	19.153	-0.006	2800	13.2
3000	8.292	59.325	20.798	59.307	0.018	20.782	0.016	59.325	0.000	20.792	0.006	3000	13.3
3200	8.292	59.325	20.798	59.307	0.018	20.782	0.016	59.325	0.000	20.849	-0.051	3200	13.3
3400	8.399	59.863	22.466	59.848	0.015	22.459	0.007	59.845	0.018	22.461	0.005	3400	13.4
3600	8.534	60.377	24.159	60.364	0.013	24.161	-0.002	60.352	0.025	24.134	0.025	3600	13.5
3800	8.688	60.869	25.881	60.858	0.011	25.889	-0.008	60.844	0.025	25.857	0.024	3800	13.5
4000	8.853	61.343	27.635	61.333	0.010	27.647	-0.012	61.322	0.021	27.623	0.012	4000	13.6
4200	9.020	61.801	29.423	61.791	0.010	29.434	-0.011	61.784	0.017	29.424	-0.001		
4400	9.180	62.245	31.243	62.235	0.010	31.251	-0.008	62.230	0.015	31.255	-0.012		
4600	9.327	62.676	33.094	62.664	0.012	33.098	-0.004	62.662	0.014	33.111	-0.017		
4800	9.455	63.093	34.972	63.081	0.012	34.971	0.001	63.079	0.014	34.988	-0.016		
5000	9.561	63.498	36.875	63.484	0.014	36.870	0.005	63.483	0.015	36.884	-0.009		
5200	9.641	63.890	38.795	63.876	0.014	38.789	0.006	63.873	0.017	38.796	-0.001		
5400	9.696	64.269	40.729	64.256	0.013	40.724	0.005	64.250	0.019	40.721	0.008		
5600	9.724	64.636	42.672	64.623	0.013	42.670	0.002	64.616	0.020	42.657	0.015		
5800	9.729	64.990	44.617	64.977	0.013	44.619	-0.002	64.970	0.020	44.604	0.013		
6000	9.711	65.331	46.562	65.319	0.012	46.565	-0.003	65.313	0.018	46.560	0.002		
6200	9.674	65.659	48.501	65.647	0.012	48.499	0.002	65.645	0.014	48.522	-0.021		

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SILICON CARBIDE, BETA (C) C 1SI 1 0 0 0 0 367
MOL. WT.= 40.090 BLOCK= 4529 NO. POINT = 42
DATA FROM C TO 4000 K HFORM(KCAL/(MOLE)) = -17.500 KEY = 967
FITS FOR NOTS RMS = 0.004086
1 6 1 14 0 0 0 0 0 0 0 SILICON CARBIDE, BETA (C) 30J 367 967
+1.0708570E+1+1.9559030E+0-4.9955034E-1+4.8867657E-2 400 4000 31J 367 967
-6.1926269E-1-2.2704467E+1+1.3318363E+1-1.7500000E+1CSI(C) 32J 367 967

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FITS FOR EST      RMS LOW =      C.031751 RMS  HIGH =      0.031751
 1  6  1 14  0  0  0  0  0  0  0 SILICON CARBIDE, BETA      (C)30CSI$
-175000+5+324153+5+125490+2+298961-3-117006+7+291769+2 4004000J 36731CSI$
-175000+5+324153+5+125490+2+298961-3-117006+7+291769+2 4004000J 36732CSI$

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[illegible]

SILICON CARBIDE (G) C 1SI 1 367 D

MOL. WT.= 40.090 BLOCK= 4533 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 172.000 KEY = 968 DA

FITS FOR NOTS RMS = 0.008002 FI

1 6 1 14 0 0 0 0 0 0 0 SILICCN CARBIDE (G) 10J 367 968 1

+8.1455240E+0+9.4268643E-1-1.8026876E-1+1.1883929E-2 400 6000 11J 367 968 +1.5

+6.6545104E-1+1.7127354E+2+6.2792190E+1+1.7200000E+2CSI(G) 12J 367 968 -4.9

FITS FOR EST RMS LOW = 0.010723 RMS HIGH = 0.003240 FI

1 6 1 14 0 0 0 0 0 0 0 SILICCN CARBIDE (G) 10CSI 1

+172000+6+203549+5+876848+1+325371-3+527648+6+738259+2 4003000J 36711CSI +128

+172000+6+263514+5+100443+2-166914-4-231872+7+738259+230006000J 36712CSI +128

-----NOTS-----								-----EST-----				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	10.574	53.813	1.016	53.612	0.201	0.940	0.076	53.693	0.120	0.976	0.040	400
600	10.610	58.180	3.170	58.241	-0.061	3.209	-0.039	58.229	-0.049	3.201	-0.031	600
800	9.972	61.140	5.225	61.153	-0.013	5.230	-0.005	61.137	0.003	5.221	0.004	800
1000	9.620	63.323	7.179	63.316	0.007	7.168	0.011	63.308	0.015	7.165	0.014	1000
1200	9.483	65.062	9.087	65.055	0.007	9.075	0.012	65.052	0.010	9.078	0.009	1200
1400	9.455	66.521	10.980	66.517	0.004	10.972	0.008	66.517	0.004	10.979	0.001	1400
1600	9.477	67.784	12.872	67.784	-0.000	12.870	0.002	67.785	-0.001	12.877	-0.005	1600
1800	9.520	68.903	14.772	68.905	-0.002	14.774	-0.002	68.904	-0.001	14.778	-0.006	1800
2000	9.567	69.909	16.681	69.912	-0.003	16.684	-0.003	69.909	0.000	16.685	-0.004	2000
2200	9.614	70.823	18.599	70.826	-0.003	18.602	-0.003	70.821	0.002	18.599	-0.000	2200
2400	9.655	71.661	20.526	71.664	-0.003	20.528	-0.002	71.658	0.003	20.523	0.003	2400
2600	9.692	72.435	22.461	72.437	-0.002	22.462	-0.001	72.431	0.004	22.456	0.005	2600
2800	9.723	73.155	24.402	73.156	-0.001	24.402	-0.000	73.152	0.003	24.400	0.002	2800
3000	9.749	73.826	26.349	73.828	-0.002	26.349	0.000	73.826	0.000	26.355	-0.006	3000
3000	9.749	73.826	26.349	73.828	-0.002	26.349	0.000	73.826	0.000	26.351	-0.002	3000
3200	9.771	74.456	28.301	74.458	-0.002	28.300	0.001	74.455	0.001	28.302	-0.001	3200
3400	9.790	75.049	30.258	75.051	-0.002	30.257	0.001	75.048	0.001	30.257	0.001	3400
3600	9.806	75.609	32.217	75.611	-0.002	32.217	0.000	75.608	0.001	32.216	0.001	3600
3800	9.820	76.140	34.180	76.141	-0.001	34.180	0.000	76.138	0.002	34.179	0.001	3800
4000	9.831	76.644	36.145	76.646	-0.002	36.146	-0.001	76.643	0.001	36.144	0.001	4000
4200	9.841	77.124	38.113	77.126	-0.002	38.113	-0.000	77.122	0.001	38.112	0.001	4200
4400	9.850	77.582	40.082	77.584	-0.002	40.083	-0.001	77.581	0.001	40.081	0.001	4400
4600	9.857	78.020	42.052	78.022	-0.002	42.053	-0.001	78.019	0.001	42.052	-0.000	4600
4800	9.863	78.439	44.024	78.441	-0.002	44.025	-0.001	78.438	0.001	44.024	-0.000	4800
5000	9.868	78.842	45.997	78.844	-0.002	45.997	-0.000	78.841	0.001	45.997	-0.001	5000
5200	9.872	79.229	47.971	79.231	-0.002	47.971	0.000	79.228	0.001	47.972	-0.001	5200
5400	9.875	79.602	49.946	79.603	-0.001	49.945	0.001	79.601	0.001	49.946	-0.000	5400
5600	9.878	79.961	51.921	79.962	-0.001	51.920	0.001	79.960	0.001	51.921	-0.000	5600
5800	9.881	80.308	53.897	80.309	-0.001	53.897	0.000	80.307	0.001	53.897	0.000	5800
6000	9.883	80.643	55.874	80.645	-0.002	55.875	-0.001	80.642	0.001	55.873	0.001	6000

DISILICON CARBIDE

(G) C 1SI 2

367

MOL. WT.= 68.180 BLOCK= 4539 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 128.000 KEY = 969

FITS FOR NOTS RMS = 0.056116

1 6 2 14 0 0 0 0 0 0 0 DISILICON CARBIDE (G) 10J 367 969
 +1.5732592E+1-2.1698646E+0+1.1051168E+0-1.1271709E-1 400 6000 11J 367 969
 -4.9925231E-1+1.2172001E+2+7.4802963E+1+1.2800000E+2CSI2(G) 12J 367 969

FITS FOR EST RMS LOW = 0.035586 RMS HIGH = 0.063528

1 6 2 14 0 0 0 0 0 0 0 DISILICON CARBIDE (G) 10CSI2
 +128000+6+389406+5+130869+2+902739-3-672800+5+895549+2 4003000J 36711CSI2
 +128000+6+390225+5+225219+2-434971-3-508991+8+895549+230006000J 36712CSI2

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
0.040	400	12.082	61.322	1.195	61.166	0.156	1.110	0.085	61.045	0.277	1.070	0.125
-0.031	600	13.057	66.422	3.717	66.349	0.073	3.677	0.040	66.416	0.006	3.722	-0.005
0.004	800	13.652	70.267	6.392	70.281	-0.014	6.413	-0.021	70.320	-0.053	6.438	-0.046
0.014	1000	14.019	73.356	9.162	73.398	-0.042	9.207	-0.045	73.402	-0.046	9.201	-0.039
0.009	1200	14.254	75.934	11.991	75.972	-0.038	12.031	-0.040	75.958	-0.024	12.005	-0.014
0.001	1400	14.416	78.144	14.859	78.166	-0.022	14.878	-0.019	78.150	-0.006	14.850	0.009
-0.005	1600	14.543	80.077	17.755	80.084	-0.007	17.751	0.004	80.074	0.003	17.732	0.023
-0.006	1800	14.666	81.797	20.676	81.793	0.004	20.653	0.023	81.793	0.004	20.651	0.025
-0.004	2000	14.806	83.349	23.623	83.340	0.009	23.591	0.032	83.351	-0.002	23.608	0.015
-0.000	2200	14.978	84.768	26.601	84.760	0.008	26.570	0.031	84.777	-0.009	26.602	-0.001
0.003	2400	15.188	86.080	29.616	86.075	0.005	29.594	0.022	86.095	-0.015	29.632	-0.016
0.005	2600	15.436	87.306	32.678	87.306	0.000	32.669	0.009	87.322	-0.016	32.698	-0.020
0.002	2800	15.719	88.460	35.793	88.465	-0.005	35.798	-0.005	88.472	-0.012	35.801	-0.008
-0.006	3000	16.025	89.555	38.967	89.564	-0.009	38.983	-0.016	89.555	0.000	38.941	0.026
-0.002	3000	16.025	89.555	38.967	89.564	-0.009	38.983	-0.016	89.555	0.000	39.023	-0.056
-0.001	3200	16.345	90.599	42.204	90.610	-0.011	42.227	-0.023	90.579	0.020	42.197	0.007
0.001	3400	16.667	91.600	45.506	91.611	-0.011	45.529	-0.023	91.574	0.026	45.478	0.028
0.001	3600	16.980	92.561	48.870	92.571	-0.010	48.889	-0.019	92.536	0.025	48.847	0.023
0.001	3800	17.274	93.487	52.296	93.495	-0.008	52.306	-0.010	93.466	0.021	52.285	0.011
0.001	4000	17.541	94.380	55.778	94.385	-0.005	55.778	-0.000	94.362	0.018	55.780	-0.002
0.001	4200	17.776	95.242	59.311	95.245	-0.003	59.301	0.010	95.226	0.016	59.322	-0.011
0.001	4400	17.975	96.073	62.886	96.075	-0.002	62.870	0.016	96.059	0.014	62.902	-0.016
-0.000	4600	18.137	96.876	66.498	96.877	-0.001	66.480	0.018	96.861	0.015	66.512	-0.014
-0.000	4800	18.263	97.651	70.139	97.653	-0.002	70.124	0.015	97.634	0.017	70.146	-0.007
-0.001	5000	18.352	98.398	73.801	98.402	-0.004	73.794	0.007	98.380	0.018	73.800	0.001
-0.001	5200	18.409	99.119	77.477	99.125	-0.006	77.481	-0.004	99.100	0.019	77.469	0.008
-0.000	5400	18.436	99.815	81.162	99.822	-0.007	81.176	-0.014	99.794	0.021	81.150	0.012
-0.000	5600	18.437	100.485	84.850	100.493	-0.008	84.867	-0.017	100.465	0.020	84.839	0.011
0.000	5800	18.415	101.132	88.536	101.138	-0.006	88.543	-0.007	101.113	0.019	88.534	0.002
0.001	6000	18.374	101.756	92.215	101.756	-0.000	92.189	0.026	101.740	0.016	92.233	-0.018

SILICON DICARBIDE (G) C 2SI 1 367
 MOL. WT. = 52.100 BLOCK = 4552 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 147.000 KEY = 971
 FITS FOR NOTS RMS = 0.033202
 2 6 1 14 0 0 0 0 0 0 0 SILICCN DICARBIDE (G) 10J 367 971
 +1.7048171E+1-3.0986919E+0+1.2417030E+0-1.1489051E-1 400 6000 11J 367 971
 -1.0786285E+0+1.3898034E+2+7.3586761E+1+1.4700000E+2C2SI (G) 12J 367 971

FITS FOR EST RMS LOW = 0.025490 RMS HIGH = 0.071851
 2 6 1 14 0 0 0 0 0 0 0 SILICON DICARBIDE (G) 10C2SI
 +147000+6+383663+5+133887+2+704593-3-301008+6+876359+2 4003000J 36711C2SI
 +147000+6+384455+5+197969+2-566317-5-412368+8+876359+230006000J 36712C2SI

-----NOTS-----												
-----EST-----												
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.051	400	11.671	59.869	1.151	60.194	-0.325	1.274	-0.123	59.751	0.118	1.094	0.057
0.015	600	12.729	64.817	3.599	64.732	0.085	3.535	0.064	64.798	0.019	3.591	0.008
0.012	800	13.403	68.579	6.218	68.524	0.055	6.176	0.042	68.608	-0.029	6.242	-0.024
0.004	1000	13.831	71.619	8.944	71.610	0.009	8.943	0.001	71.652	-0.033	8.971	-0.027
-0.002	1200	14.109	74.167	11.740	74.179	-0.012	11.762	-0.022	74.188	-0.021	11.754	-0.014
-0.004	1400	14.298	76.357	14.582	76.372	-0.015	14.607	-0.025	76.365	-0.008	14.579	0.003
-0.004	1600	14.438	78.276	17.456	78.285	-0.009	17.472	-0.016	78.275	0.001	17.441	0.015
-0.002	1800	14.557	79.983	20.356	79.984	-0.001	20.359	-0.003	79.981	0.002	20.338	0.018
-0.001	2000	14.677	81.523	23.279	81.518	0.005	23.270	0.009	81.524	-0.001	23.266	0.013
0.001	2200	14.815	82.928	26.228	82.920	0.008	26.212	0.016	82.934	-0.006	26.226	0.002
0.002	2400	14.980	84.224	29.206	84.215	0.009	29.190	0.016	84.235	-0.011	29.217	-0.011
0.002	2600	15.178	85.431	32.222	85.424	0.007	32.209	0.013	85.444	-0.013	32.237	-0.015
0.000	2800	15.409	86.564	35.280	86.559	0.005	35.274	0.006	86.574	-0.010	35.287	-0.007
-0.002	3000	15.669	87.636	38.387	87.634	0.002	38.389	-0.002	87.636	0.000	38.366	0.021
-0.001	3000	15.669	87.636	38.387	87.634	0.002	38.389	-0.002	87.636	0.000	38.446	-0.059
-0.001	3200	15.951	88.656	41.549	88.656	0.000	41.557	-0.008	88.635	0.021	41.542	0.007
-0.000	3400	16.247	89.632	44.768	89.633	-0.001	44.781	-0.013	89.604	0.028	44.740	0.028
0.000	3600	16.548	90.569	48.048	90.570	-0.001	48.060	-0.012	90.542	0.027	48.022	0.026
0.001	3800	16.845	91.472	51.387	91.472	-0.000	51.397	-0.010	91.448	0.024	51.374	0.013
0.002	4000	17.129	92.343	54.785	92.342	0.001	54.790	-0.005	92.323	0.020	54.786	-0.001
0.002	4200	17.393	93.185	58.238	93.183	0.002	58.236	0.001	93.168	0.017	58.250	-0.012
0.001	4400	17.633	94.000	61.741	93.996	0.004	61.734	0.007	93.984	0.016	61.758	-0.017
0.001	4600	17.843	94.789	65.289	94.784	0.005	65.279	0.010	94.772	0.017	65.305	-0.016
0.001	4800	18.022	95.552	68.876	95.548	0.004	68.866	0.010	95.534	0.018	68.886	-0.010
-0.001	5000	18.168	96.291	72.495	96.287	0.004	72.489	0.006	96.271	0.020	72.496	-0.001
-0.002	5200	18.283	97.006	76.141	97.003	0.003	76.141	0.000	96.984	0.022	76.132	0.009
-0.001	5400	18.367	97.697	79.807	97.696	0.001	79.813	-0.006	97.675	0.022	79.792	0.015
-0.001	5600	18.423	98.366	83.486	98.366	0.000	83.496	-0.010	98.344	0.022	83.472	0.014
0.000	5800	18.452	99.013	87.174	99.012	0.001	87.179	-0.005	98.993	0.020	87.171	0.003
0.003	6000	18.458	99.639	90.865	99.634	0.005	90.851	0.014	99.623	0.016	90.887	-0.022

DISILICON NITRIDE (G) N 1SI 2 367
 MOL. WT.= 70.170 BLOCK= 4559 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 95.000 KEY = 973
 FITS FOR NOTS RMS = 0.003816
 1 7 2 14 0 0 0 0 0 0 0 DISILICON NITRIDE (G) 10J 367 973
 1.4784921E+1+9.9445521E-2-3.6087926E-2+5.0569884E-3 400 6000 11J 367 973
 4.0013122E-1+8.9367752E+1+7.7241058E+1+9.5000000E+1NSI2(G) 12J 367 973

FITS FOR EST RMS LOW = 0.003080 RMS HIGH = 0.006697
 1 7 2 14 0 0 0 0 0 0 0 DISILICON NITRIDE (G) 10NSI2
 950000+5+390821+5+148229+2+262919-4-397392+6+936879+2 4003000J 36711NSI2
 950000+5+390804+5+140828+2+162912-3+264908+7+936879+230006000J 36712NSI2

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0H

	-----NOTS-----								-----EST-----				
KC/M	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
.057	400	12.803	64.910	1.262	64.981	-0.071	1.289	-0.027	64.973	-0.063	1.287	-0.025	400
.008	600	13.755	70.307	3.931	70.298	0.009	3.921	0.010	70.298	0.009	3.923	0.008	500
.024	800	14.202	74.333	6.732	74.323	0.010	6.722	0.010	74.326	0.007	6.726	0.006	600
.027	1000	14.435	77.530	9.598	77.524	0.006	9.592	0.006	77.527	0.003	9.596	0.002	700
.014	1200	14.571	80.175	12.499	80.172	0.003	12.497	0.002	80.174	0.001	12.500	-0.001	800
.003	1400	14.656	82.428	15.423	82.426	0.002	15.422	0.001	82.428	-0.000	15.424	-0.001	900
.015	1600	14.712	84.389	18.360	84.388	0.001	18.360	0.000	84.389	0.000	18.361	-0.001	1000
.018	1800	14.751	86.124	21.306	86.124	0.000	21.307	-0.001	86.124	0.000	21.307	-0.001	1100
.013	2000	14.780	87.680	24.260	87.679	0.001	24.261	-0.001	87.679	0.001	24.260	0.000	1200
.002	2200	14.801	89.089	27.218	89.089	-0.000	27.219	-0.001	89.089	0.000	27.217	0.001	1300
.011	2400	14.817	90.378	30.180	90.378	0.000	30.180	-0.000	90.377	0.001	30.179	0.001	1400
.015	2600	14.830	91.564	33.145	91.564	-0.000	33.145	0.000	91.564	0.000	33.144	0.001	1500
.007	2800	14.841	92.664	36.112	92.663	0.001	36.112	0.000	92.663	0.001	36.112	0.000	1600
.021	3000	14.851	93.688	39.081	93.688	0.000	39.081	0.000	93.688	0.000	39.082	-0.001	1700
.059	3200	14.851	93.688	39.081	93.688	0.000	39.081	0.000	93.688	0.000	39.080	0.001	1800
.007	3400	14.860	94.647	42.052	94.646	0.001	42.052	-0.000	94.647	-0.000	42.053	-0.001	1900
.028	3600	14.869	95.548	45.025	95.548	0.000	45.025	-0.000	95.548	-0.000	45.026	-0.001	2000
.026	3800	14.879	96.398	48.000	96.398	0.000	48.000	-0.000	96.398	-0.000	48.000	0.000	2100
.013	4000	14.890	97.203	50.977	97.203	0.000	50.977	-0.000	97.203	0.000	50.976	0.001	2200
.001	4200	14.903	97.967	53.956	97.967	0.000	53.957	-0.001	97.967	0.000	53.954	0.002	2300
.012	4400	14.918	98.695	56.938	98.694	0.001	56.939	-0.001	98.694	0.001	56.936	0.002	2400
.017	4600	14.934	99.389	59.923	99.389	0.000	59.924	-0.001	99.388	0.001	59.921	0.002	2500
.016	4800	14.953	100.053	62.912	100.053	0.000	62.913	-0.001	100.053	0.000	62.911	0.001	
.010	5000	14.975	100.690	65.905	100.690	0.000	65.905	-0.000	100.690	0.000	65.904	0.001	
.001	5200	14.999	101.302	68.902	101.301	0.001	68.902	0.000	101.302	0.000	68.903	-0.001	
.009	5400	15.025	101.891	71.904	101.890	0.001	71.904	0.000	101.891	0.000	71.906	-0.002	
.015	5600	15.053	102.458	74.912	102.457	0.001	74.911	0.001	102.458	-0.000	74.914	-0.002	
.014	5800	15.084	103.006	77.926	103.005	0.001	77.925	0.001	103.006	-0.000	77.927	-0.001	
.003	6000	15.116	103.536	80.946	103.535	0.001	80.946	0.000	103.536	0.000	80.946	0.000	
.022	6200	15.151	104.049	83.973	104.049	0.000	83.974	-0.001	104.049	0.000	83.970	0.003	

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TITANIUM MONOXIDE, BETA (C) O 1TI 1 367
MOL. WT. = 63.890 BLOCK = 4566 NO. POINT = 24
DATA FROM 298 TO 2500 K HFORM(KCAL/(MOLE)) = -123.872 KEY = 974
FITS FOR NOTS RMS = 0.026830
1 8 1 22 0 0 0 0 0 0 0 TITANIUM MONOXIDE, BETA (C) 30J 367 974
+7.1464376E+0+1.3999645E+1-7.0479812E+0+1.3214912E+0 400 2500 31J 367 974
-3.9094543E-1-1.2757723E+2+1.5814752E+1-1.2387199E+20TI(C) 32J 367 974

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FITS FOR EST RMS LOW = 0.033115 RMS HIGH = 0.033115

1 8 1 22 0 0 0 0 0 0 0 TITANIUM MONOXIDE, BETA (C) 300TIS

-123871+6+436395+5+147867+2+151385-2-123043+7+456737+2 4002500J 367310TIS

-123871+6+436395+5+147867+2+151385-2-123043+7+456737+2 4002500J 367320TIS

[illegible]

TRITITANIUM PENTAOXIDE, BETA (C) O 5TI 3 C C C O 367 T
 MOL. WT.= 223.690 BLOCK= 4568 NO. POINT = 27
 DATA FROM O TO 2500 K HFORM(KCAL/(MOLE)) = -585.354 KEY = 975 DA
 FITS FOR NCIS RMS = 0.002792 FI
 8 3 22 C O O O O O O TRITITANIUM PENTAOXIDE, BETA (C) 30J 367 975 5
 .1580032E+1+8.4631328E+0-2.9618793E-1+6.4720213E-2 400 2500 31J 367 975 +5.5
 .4146728E-3-5.9809619E+2+8.3769561E+1-5.8535375E+205TI3 (C) 32J 367 975 -2.0

FITS FOR EST RMS LOW = 0.000629 RMS HIGH = 0.000629 FI
 8 3 22 C O O O O O O TRITITANIUM PENTAOXIDE, BETA (C) 3005TI3\$ 5
 85353+6+148679+6+417763+2+803817-2-510400+4+154071+3 4002500J 3673105TI3\$ -560
 85353+6+148679+6+417763+2+803817-2-510400+4+154071+3 4002500J 3673205TI3\$ -560

H C/M	-----NOTS-----												T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
.129	400	44.984	49.006	4.540	49.004	0.002	4.537	0.003	49.013	-0.007	4.543	-0.003	400
.062	500	45.789	59.130	9.079	59.127	0.003	9.075	0.004	59.133	-0.003	9.080	-0.001	600
.103	600	46.593	67.550	13.698	67.546	0.004	13.694	0.004	67.550	-0.000	13.698	-0.000	800
.070	700	47.397	74.792	18.397	74.788	0.004	18.394	0.003	74.792	-0.000	18.397	0.000	1000
.005	800	48.201	81.174	23.177	81.171	0.003	23.174	0.003	81.173	0.001	23.177	0.000	1200
.101	900	49.005	86.897	28.037	86.895	0.002	28.035	0.002	86.897	0.000	28.037	0.000	1400
.048	1000	49.809	92.102	32.978	92.101	0.001	32.977	0.001	92.102	0.000	32.977	0.001	1600
.015	1100	50.614	96.887	37.999	96.888	-0.001	37.999	-0.000	96.887	0.000	37.999	0.000	1800
.005	1200	51.418	101.326	43.101	101.327	-0.001	43.102	-0.001	101.325	0.001	43.100	0.001	2000
.015	1300	52.222	105.473	48.283	105.475	-0.002	48.285	-0.002	105.473	0.000	48.282	0.001	2200
.017	1400	53.026	109.373	53.545	109.375	-0.002	53.548	-0.003	109.372	0.001	53.545	0.000	2400
.017	1500	53.830	113.059	58.888	113.061	-0.002	58.891	-0.003	113.058	0.001	58.888	0.000	2600
.013	1600	54.634	116.558	64.311	116.561	-0.003	64.314	-0.003	116.558	0.000	64.311	-0.000	2800
.007	1700	55.439	119.895	69.815	119.897	-0.002	69.817	-0.002	119.894	0.001	69.815	0.000	3000
.002	1800	56.243	123.086	75.399	123.088	-0.002	75.401	-0.002	123.086	0.000	75.399	0.000	3200
.003	1900	57.047	126.149	81.063	126.150	-0.001	81.064	-0.001	126.148	0.001	81.063	-0.001	3400
.006	2000	57.851	129.095	86.808	129.096	-0.001	86.808	-0.000	129.095	0.000	86.808	-0.000	3600
.008	2100	58.655	131.937	92.634	131.938	-0.001	92.633	0.001	131.937	0.000	92.634	0.000	3800
.007	2200	59.459	134.684	98.539	134.684	-0.000	98.538	0.001	134.684	-0.000	98.539	-0.000	4000
.004	2300	60.264	137.345	104.526	137.345	-0.000	104.524	0.002	137.345	-0.000	104.526	0.000	
.000	2400	61.068	139.927	110.592	139.927	-0.000	110.591	0.001	139.927	0.000	110.592	-0.000	
.008	2500	61.872	142.436	116.739	142.438	-0.002	116.741	-0.002	142.436	0.000	116.739	0.000	

TUNGSTEN MONOBROMIDE (G) BR 1W 1
 MOL. WT. = 263.750 BLOCK = 4575 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 140.100 KEY = 977
 ITS FOR NOTS RMS = 0.015164
 35 1 74 0 0 0 0 0 0 0 TUNGSTEN MONOBROMIDE (G) 10J 667 977
 .0281853E+1-1.2714452E+0+5.4002988E-1-4.7013878E-2 400 6000 11J 667 977
 .8122558E-1+1.3611675E+2+7.6642028E+1+1.4009999E+2BRW(G) 12J 667 977

ITS FOR EST RMS LOW = 0.005407 RMS HIGH = 0.036105
 35 1 74 0 0 0 0 0 0 0 TUNGSTEN MONOBROMIDE (G) 10BRW
 .099+6+251791+5+844581+1+5C0228-3+670560+5+861569+2 4003000J 66711BRW
 .099+6+252119+5+103593+2+345709-3-144498+8+861569+230006000J 66712BRW

DH KC/M	-----NOTS-----								-----EST-----				T K
	I	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
-0.014	00	8.767	67.685	0.886	67.946	-0.261	0.994	-0.108	67.633	0.052	0.864	0.022	400
-0.004	00	8.895	71.268	2.654	71.250	0.018	2.632	0.022	71.274	-0.006	2.659	-0.005	600
-0.001	00	8.961	73.837	4.440	73.793	0.044	4.401	0.039	73.844	-0.008	4.446	-0.006	800
0.001	00	9.025	75.843	6.239	75.816	0.027	6.214	0.025	75.848	-0.005	6.242	-0.003	1000
0.002	00	9.102	77.495	8.051	77.485	0.010	8.046	0.005	77.498	-0.003	8.052	-0.001	1200
0.002	00	9.189	78.905	9.880	78.905	-0.000	9.888	-0.008	78.906	-0.001	9.879	0.000	1400
0.001	00	9.279	80.137	11.727	80.142	-0.005	11.741	-0.014	80.138	-0.001	11.725	0.002	1600
0.001	00	9.369	81.236	13.592	81.239	-0.003	13.605	-0.013	81.236	0.000	13.589	0.003	1800
0.001	00	9.458	82.227	15.474	82.228	-0.001	15.482	-0.008	82.228	-0.001	15.472	0.002	2000
0.000	00	9.549	83.133	17.375	83.131	0.002	17.377	-0.002	83.134	-0.001	17.374	0.001	2200
0.000	00	9.646	83.968	19.294	83.964	0.004	19.291	0.003	83.970	-0.002	19.296	-0.002	2400
-0.000	00	9.753	84.744	21.234	84.739	0.005	21.227	0.007	84.747	-0.003	21.237	-0.003	2600
-0.000	00	9.872	85.471	23.196	85.466	0.005	23.189	0.007	85.474	-0.003	23.198	-0.002	2800
-0.000	00	10.005	86.157	25.184	86.152	0.005	25.178	0.006	86.157	0.000	25.179	0.005	3000
-0.000	00	10.005	86.157	25.184	86.152	0.005	25.178	0.006	86.157	0.000	25.212	-0.028	3000
-0.000	00	10.151	86.807	27.199	86.803	0.004	27.196	0.003	86.797	0.010	27.197	0.002	3200
-0.000	00	10.307	87.427	29.245	87.424	0.003	29.245	0.000	87.414	0.013	29.232	0.013	3400
-0.000	00	10.471	88.021	31.322	88.018	0.003	31.325	-0.003	88.008	0.013	31.309	0.013	3600
0.000	00	10.638	88.591	33.433	88.589	0.002	33.437	-0.004	88.580	0.011	33.426	0.007	3800
	00	10.805	89.141	35.578	89.139	0.002	35.582	-0.004	89.132	0.009	35.577	0.001	4000
	00	10.969	89.673	37.755	89.670	0.003	37.758	-0.003	89.664	0.009	37.760	-0.005	4200
	00	11.127	90.186	39.965	90.184	0.002	39.967	-0.002	90.179	0.007	39.973	-0.008	4400
	00	11.275	90.684	42.205	90.681	0.003	42.205	-0.000	90.677	0.007	42.213	-0.008	4600
	00	11.411	91.167	44.474	91.164	0.003	44.472	0.002	91.159	0.008	44.479	-0.005	4800
	00	11.535	91.636	46.769	91.632	0.004	46.766	0.003	91.626	0.010	46.770	-0.001	5000
	00	11.645	92.090	49.087	92.086	0.004	49.085	0.002	92.080	0.010	49.083	0.004	5200
	00	11.741	92.531	51.426	92.528	0.003	51.425	0.001	92.521	0.010	51.418	0.008	5400
	00	11.822	92.960	53.783	92.957	0.003	53.783	0.000	92.949	0.011	53.775	0.008	5600
	00	11.889	93.376	56.154	93.373	0.003	56.155	-0.001	93.366	0.010	56.152	0.002	5800
	00	11.943	93.780	58.537	93.777	0.003	58.537	-0.000	93.773	0.007	58.549	-0.012	6000

TUNGSTEN MONOCHLORIDE

(G) CL 1W 1

667

MOL. WT. = 219.300 BLOCK = 4587 NO. POINT = 62

ATA FROM C TO 6000 K HFORM(KCAL/(MOLE)) = 132.300 KEY = 979

ITS FOR NOTS RMS = 0.015184

17 1 74 0 0 0 0 0 0 TUNGSTEN MONOCHLORIDE

(G) 10J 667 979

.0280009E+1-1.2765598E+0+5.4032456E-1-4.7056913E-2 400 6000

11J 667 979

.1329956E-1+1.2821717E+2+7.3913391E+1+1.3229998E+2CLW(G)

12J 667 979

FITS FOR EST RMS LOW = 0.005191 RMS HIGH = 0.036243

17 1 74 0 0 0 0 0 0 TUNGSTEN MONOCHLORIDE

(G) 10CLW

32299+6+250612+5+844580+1+494794-3+339040+5+834139+2 4003000J 66711CLW

32299+6+250943+5+103639+2+339918-3-145094+8+834139+230006000J 66712CLW

DH KC/M	-----NOTS-----												-----EST-----		T R
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M			
0.006	00	8.582	65.054	0.863	65.317	-0.263	0.972	-0.109	65.006	0.048	0.842	0.021			40
-0.002	00	8.802	68.583	2.604	68.564	0.019	2.582	0.022	68.588	-0.005	2.609	-0.005			60
-0.001	00	8.904	71.130	4.376	71.086	0.044	4.337	0.039	71.138	-0.008	4.381	-0.005			80
0.001	00	8.985	73.126	6.165	73.098	0.028	6.141	0.024	73.131	-0.005	6.168	-0.003			100
0.001	00	9.071	74.771	7.970	74.761	0.010	7.965	0.005	74.775	-0.004	7.972	-0.002			120
0.001	00	9.164	76.177	9.794	76.177	-0.000	9.802	-0.008	76.179	-0.002	9.793	0.001			140
0.000	00	9.257	77.406	11.636	77.411	-0.005	11.650	-0.014	77.407	-0.001	11.634	0.002			160
-0.000	00	9.349	78.502	13.497	78.506	-0.004	13.510	-0.013	78.503	-0.001	13.494	0.003			180
0.000	00	9.439	79.492	15.375	79.493	-0.001	15.383	-0.008	79.492	-0.000	15.373	0.002			200
-0.001	200	9.530	80.395	17.272	80.394	0.001	17.274	-0.002	80.397	-0.002	17.271	0.001			220
0.000	400	9.627	81.229	19.188	81.225	0.004	19.184	0.004	81.231	-0.002	19.189	-0.001			240
-0.000	600	9.734	82.004	21.124	81.998	0.006	21.117	0.007	82.007	-0.003	21.127	-0.003			260
0.000	800	9.854	82.729	23.082	82.724	0.005	23.075	0.007	82.732	-0.003	23.084	-0.002			280
-0.001	00	9.986	83.414	25.066	83.408	0.006	25.060	0.006	83.414	0.000	25.061	0.005			300
-0.001	200	9.986	83.414	25.066	83.408	0.006	25.060	0.006	83.414	0.000	25.094	-0.028			300
-0.001	400	10.131	84.063	27.078	84.058	0.005	27.075	0.003	84.053	0.010	27.076	0.002			320
0.000	600	10.287	84.681	29.119	84.678	0.003	29.119	-0.000	84.669	0.012	29.106	0.013			340
0.000	800	10.450	85.274	31.193	85.271	0.003	31.195	-0.002	85.261	0.013	31.180	0.013			360
0.001	00	10.616	85.843	33.299	85.841	0.002	33.303	-0.004	85.832	0.011	33.292	0.007			380
0.001	20	10.783	86.392	35.439	86.390	0.002	35.443	-0.004	86.383	0.009	35.439	0.000			400
0.001	40	10.946	86.922	37.612	86.920	0.002	37.616	-0.004	86.914	0.008	37.618	-0.006			420
0.001	60	11.102	87.435	39.817	87.432	0.003	39.819	-0.002	87.428	0.007	39.826	-0.009			440
-0.000	80	11.250	87.932	42.053	87.929	0.003	42.053	0.000	87.925	0.007	42.061	-0.008			460
-0.001	00	11.385	88.414	44.316	88.410	0.004	44.315	0.001	88.406	0.008	44.322	-0.006			480
-0.000	20	11.508	88.881	46.606	88.877	0.004	46.604	0.002	88.872	0.009	46.607	-0.001			500
-0.001	40	11.617	89.334	48.919	89.331	0.003	48.917	0.002	89.325	0.009	48.915	0.004			520
-0.000	60	11.712	89.775	51.252	89.771	0.004	51.251	0.001	89.764	0.011	51.245	0.007			540
0.000	80	11.792	90.202	53.603	90.199	0.003	53.603	0.000	90.192	0.010	53.595	0.008			560
0.001	00	11.858	90.617	55.968	90.614	0.003	55.969	-0.001	90.608	0.009	55.966	0.002			580
	20	11.911	91.020	58.345	91.017	0.003	58.345	0.000	91.013	0.007	58.357	-0.012			600

MAGNESIUM HYDROXIDE (G) H 2MG 10 2 0 0 0 667
 MOL. WT.= 58.320 BLCK= 4594 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFOPM(KCAL/(MOLE)) = -136.300 KEY = 980
 FITS FOR NCTS RMS = 0.033318
 2 1 2 8 1 12 0 0 0 0 0 MAGNESIUM HYDROXIDE (G) 10J 667 980
 +2.0492675E+1+2.9626789E+0-6.0235315E-1+4.2252779E-2 400 6000 11J 667 980
 -1.3151855E+0-1.4608531E+2+8.4349716E+1-1.3629998E+2H2MGO2(G) 12J 667 980

FITS FOR EST RMS LOW = 0.058223 RMS HIGH = 0.007670
 2 1 2 8 1 12 0 0 0 0 0 MAGNESIUM HYDROXIDE (G) 10H2MGO2
 -136299+6+609394+5+223683+2+100606-2-169796+7+113504+3 4003000J 66711H2MGO2
 -136299+6+609140+5+259077+2-138385-4-854246+7+113504+330006000J 66712H2MGO2

T	-----NOTS-----												-----EST-----			
	K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M				
21	400	16.927	70.157	1.650	70.820	-0.663	1.924	-0.274	71.031	-0.874	2.014	-0.364				
05	600	18.962	77.439	5.255	77.380	0.059	5.194	0.061	77.354	0.085	5.173	0.082				
05	800	20.320	83.090	9.191	82.989	0.101	9.102	0.089	82.958	0.132	9.080	0.111				
03	1000	21.356	87.740	13.362	87.683	0.057	13.314	0.048	87.673	0.067	13.311	0.051				
02	1200	22.176	91.709	17.719	91.688	0.021	17.710	0.009	91.693	0.016	17.723	-0.004				
01	1400	22.824	95.178	22.221	95.177	0.001	22.237	-0.016	95.186	-0.008	22.256	-0.035				
02	1600	23.336	98.261	26.839	98.265	-0.004	26.864	-0.025	98.273	-0.012	26.880	-0.041				
03	1800	23.739	101.034	31.548	101.037	-0.003	31.572	-0.024	101.039	-0.005	31.577	-0.029				
02	2000	24.060	103.552	36.330	103.552	0.000	36.346	-0.016	103.547	0.005	36.339	-0.009				
01	2200	24.317	105.858	41.168	105.853	0.005	41.176	-0.008	105.844	0.014	41.158	0.010				
01	2400	24.525	107.983	46.053	107.975	0.008	46.052	0.001	107.963	0.020	46.030	0.023				
03	2600	24.694	109.953	50.975	109.943	0.010	50.969	0.006	109.933	0.020	50.952	0.023				
02	2800	24.834	111.788	55.929	111.777	0.011	55.919	0.010	111.774	0.014	55.923	0.006				
05	3000	24.951	113.505	60.908	113.494	0.011	60.898	0.010	113.505	0.000	60.939	-0.031				
28	3000	24.951	113.505	60.908	113.494	0.011	60.898	0.010	113.505	0.000	60.914	-0.006				
02	3200	25.049	115.119	65.908	115.108	0.011	65.899	0.009	115.117	0.002	65.909	-0.001				
13	3400	25.131	116.640	70.926	116.630	0.010	70.921	0.005	116.637	0.003	70.924	0.002				
13	3600	25.202	118.079	75.960	118.070	0.009	75.958	0.002	118.075	0.004	75.957	0.003				
07	3800	25.263	119.443	81.006	119.435	0.008	81.009	-0.003	119.439	0.004	81.003	0.003				
00	4000	25.315	120.740	86.064	120.733	0.007	86.070	-0.006	120.737	0.003	86.061	0.003				
06	4200	25.361	121.976	91.132	121.970	0.006	91.139	-0.007	121.973	0.003	91.130	0.002				
09	4400	25.401	123.157	96.208	123.150	0.007	96.216	-0.008	123.154	0.003	96.207	0.001				
08	4600	25.436	124.287	101.292	124.280	0.007	101.298	-0.006	124.284	0.003	101.292	0.000				
06	4800	25.467	125.370	106.383	125.363	0.007	106.386	-0.003	125.368	0.002	106.383	0.000				
01	5000	25.495	126.410	111.479	126.402	0.008	111.479	0.000	126.408	0.002	111.480	-0.001				
04	5200	25.520	127.411	116.580	127.402	0.009	116.576	0.004	127.408	0.003	116.581	-0.001				
07	5400	25.542	128.374	121.687	128.365	0.009	121.680	0.007	128.372	0.002	121.688	-0.001				
08	5600	25.562	129.304	126.797	129.294	0.010	126.791	0.006	129.301	0.003	126.797	-0.000				
02	5800	25.580	130.201	131.911	130.192	0.009	131.910	0.001	130.198	0.003	131.910	0.001				
12	6000	25.596	131.068	137.029	131.062	0.006	137.039	-0.010	131.065	0.003	137.027	0.002				

MERCURIC OXIDE (G) HG 10 1 667
 MOL. WT. = 216.580 BLOCK = 4600 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFOEM(KCAL/(MOLE)) = 10.000 KEY = 981
 FITS FOR NOTS RMS = 0.001676
 8 1 80 0 0 0 0 0 0 0 MERCURIC OXIDE (G) 10J 667 981
 .9190406E+0+.1.2311470E-1-4.3670795E-3+3.7658447E-4 400 6000 11J 667 981
 .3603210E-1+6.9087066E+0+6.7214569E+1+1.0000000E+1HGO(G) 12J 667 981
 FITS FOR EST RMS LOW = 0.000877 RMS HIGH = 0.003022
 8 1 80 0 0 0 0 0 0 0 MERCURIC OXIDE (G) 10HGO
 100000+5+242332+5+892577+1+111571-3-135872+6+773739+2 4003000J 66711HGO
 100000+5+242352+5+900508+1+971681-4-554688+6+773739+230006000J 66712HGO

H C/M	-----NOTS-----								-----EST-----				T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
.364	000	8.236	59.500	0.821	59.516	-0.016	0.826	-0.005	59.516	-0.016	0.827	-0.006	400
.082	000	8.620	62.923	2.512	62.921	0.002	2.509	0.003	62.922	0.001	2.511	0.001	500
.111	000	8.798	65.431	4.256	65.428	0.003	4.253	0.003	65.429	0.002	4.255	0.001	600
.051	000	8.898	67.405	6.026	67.404	0.001	6.024	0.002	67.405	-0.000	6.026	0.000	700
.004	200	8.964	69.034	7.813	69.033	0.001	7.811	0.002	69.034	-0.000	7.813	-0.000	800
.035	400	9.012	70.419	9.611	70.419	0.000	9.610	0.001	70.420	-0.001	9.611	0.000	900
.041	600	9.052	71.625	11.417	71.625	-0.000	11.416	0.001	71.626	-0.001	11.417	-0.000	1000
.029	800	9.086	72.694	13.231	72.693	0.001	13.230	0.001	72.694	0.000	13.231	-0.000	1100
.009	000	9.116	73.652	15.051	73.652	-0.000	15.051	0.000	73.653	-0.001	15.051	-0.000	1200
.010	200	9.144	74.523	16.877	74.523	0.000	16.877	-0.000	74.523	0.000	16.877	0.000	1300
.023	400	9.170	75.319	18.709	75.319	-0.000	18.709	0.000	75.320	-0.001	18.708	0.001	1400
.023	600	9.195	76.054	20.545	76.054	-0.000	20.545	-0.000	76.055	-0.001	20.545	0.000	1500
.006	800	9.220	76.737	22.387	76.737	0.000	22.387	0.000	76.737	0.000	22.387	0.000	1600
.031	000	9.244	77.374	24.233	77.374	0.000	24.233	-0.000	77.374	0.000	24.233	-0.000	1700
.006	000	9.244	77.374	24.233	77.374	0.000	24.233	-0.000	77.374	0.000	24.235	-0.002	1800
.001	200	9.267	77.971	26.084	77.971	-0.000	26.085	-0.001	77.971	0.000	26.085	-0.001	1900
.002	400	9.290	78.533	27.940	78.534	-0.001	27.940	-0.000	78.533	0.000	27.940	0.000	2000
.003	600	9.313	79.065	29.800	79.065	-0.000	29.801	-0.001	79.064	0.000	29.799	0.001	2100
.003	800	9.335	79.569	31.665	79.569	-0.000	31.665	-0.000	79.569	0.000	31.664	0.001	2200
.002	000	9.358	80.049	33.534	80.049	0.000	33.535	-0.001	80.048	0.001	33.533	0.001	2300
.001	200	9.380	80.506	35.408	80.506	0.000	35.408	-0.000	80.505	0.001	35.407	0.001	2400
.000	400	9.402	80.943	37.286	80.943	0.000	37.286	-0.000	80.942	0.001	37.286	0.000	2500
.000	600	9.424	81.361	39.169	81.361	-0.000	39.169	0.000	81.361	0.000	39.169	0.000	
.001	800	9.446	81.763	41.056	81.763	0.000	41.056	0.000	81.752	0.001	41.056	0.000	
.001	000	9.468	82.149	42.947	82.149	0.000	42.947	0.000	82.148	0.001	42.948	-0.001	
.001	200	9.489	82.520	44.843	82.520	-0.000	44.843	0.000	82.520	-0.000	44.843	-0.000	
.000	400	9.511	82.879	46.743	82.879	0.000	46.743	0.000	82.879	0.000	46.743	-0.000	
.001	600	9.533	83.225	48.647	83.225	-0.000	48.647	0.000	83.225	0.000	48.647	-0.000	
.001	800	9.554	83.560	50.556	83.560	-0.000	50.556	0.000	83.560	0.000	50.556	0.000	
.002	000	9.576	83.884	52.469	83.884	-0.000	52.469	-0.000	83.884	0.000	52.468	0.001	

MAGN
MOI
DATA
FITS
3 8 1
+1.5553
-1.0058

FITS
3 8 1
-357941
-357941

T	K	C
400	25	
600	28	
800	29	
1000	31	
1200	31	
1400	39	
1600	39	
1800	39	
2000	39	
2200	39	
2400	39	
2600	39	
2800	39	
3000	39	
3200	39	
3400	39	
3600	39	
3800	39	
4000	39	

MAGNESIUM METATITANATE (L) MG 10 3TI 1 967
 MOL. WT. = 120.210 BLCCK = 4612 NO. POINT = 39
 DATA FROM 298 TO 4000 K HFORM(KCAL/(MOLE)) = -357.942 KEY = 984
 FITS FOR NOTS RMS = 0.246885
 3 8 1 12 1 22 0 0 0 0 0 MAGNESIUM METATITANATE (L) 20J 967 984
 +1.5553527E+1+2.7165527E+1-9.9988174E+0+1.1834831E+0 400 4000 21J 967 984
 -1.0058593E+0-3.6553833E+2+3.6186172E+1-3.5794189E+2MGO3TI(L) 22J 967 984

FITS FOR EST RMS LOW = 0.351626 RMS HIGH = 0.351626
 3 8 1 12 1 22 0 0 0 0 0 MAGNESIUM METATITANATE (L) 20MGO3TI*
 -357941+6+955490+5+417312+2-618470-3-696064+7+100491+3 4004000J 96721MGO3TI*
 -357941+6+955490+5+417312+2-618470-3-696064+7+100491+3 4004000J 96722MGO3TI*

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.422	400	25.154	33.492	2.414	35.169	-1.677	3.107	-0.693	39.381	-5.889	4.863	-2.449	
0.138	600	28.311	44.371	7.801	44.223	0.148	7.620	0.181	44.093	0.278	7.347	0.454	
0.574	800	29.967	52.762	13.643	52.236	0.526	13.211	0.432	51.745	1.017	12.706	0.937	
0.125	1000	31.056	59.572	19.751	59.250	0.322	19.509	0.242	58.976	0.596	19.201	0.550	
0.058	1200	31.891	65.311	26.049	65.452	-0.141	26.319	-0.270	65.397	-0.086	26.251	-0.202	
0.109	1400	39.000	70.768	33.156	70.991	-0.223	33.510	-0.354	71.065	-0.297	33.608	-0.452	
0.096	1600	39.000	75.976	40.956	75.975	0.001	40.977	-0.021	76.098	-0.122	41.147	-0.191	
0.054	1800	39.000	80.570	48.756	80.484	0.086	48.635	0.121	80.604	-0.034	48.800	-0.044	
0.008	2000	39.000	84.679	56.556	84.582	0.097	56.415	0.141	84.673	0.006	56.524	0.032	
0.030	2200	39.000	88.396	64.356	88.321	0.075	64.261	0.095	88.376	0.020	64.294	0.062	
0.049	2400	39.000	91.789	72.156	91.744	0.045	72.130	0.026	91.769	0.020	72.092	0.064	
0.043	2600	39.000	94.911	79.956	94.890	0.021	79.990	-0.034	94.896	0.015	79.906	0.050	
0.007	2800	39.000	97.801	87.756	97.793	0.008	87.823	-0.067	97.794	0.007	87.727	0.029	
0.061	3000	39.000	100.492	95.556	100.483	0.009	95.620	-0.064	100.492	0.000	95.549	0.007	
	3200	39.000	103.009	103.356	102.989	0.020	103.387	-0.031	103.015	-0.006	103.367	-0.011	
	3400	39.000	105.373	111.156	105.339	0.034	111.139	0.017	105.382	-0.009	111.177	-0.021	
	3600	39.000	107.602	118.956	107.557	0.045	118.902	0.054	107.611	-0.009	118.976	-0.020	
	3800	39.000	109.711	126.756	109.669	0.042	126.715	0.041	109.716	-0.005	126.763	-0.007	
	4000	39.000	111.711	134.556	111.699	0.012	134.628	-0.072	111.710	0.001	134.535	0.021	

MOLYBDENUM MONOXIDE (G) MO 10 1 667

MOL. WT.= 111.530 BLOCK= 4616 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 92.500 KEY = 985

FITS FOR NOTS RMS = 0.014006

8 1 42 0 0 0 0 0 0 0 MOLYBDENUM MONOXIDE (G) 10J 667 985

.8716382E+0-8.3745777E-1+2.4763655E-1-1.4482364E-2 400 6000 11J 667 985

.9284362E-1+8.8255706E+1+6.7164810E+1+9.2500000E+1MOO(G) 12J 667 985

FITS FOR EST RMS LOW = 0.003324 RMS HIGH = 0.008541

8 1 42 0 0 0 0 0 0 0 MOLYBDENUM MONOXIDE (G) 10MOO

25000+5+237040+5+877727+1+118294-3-191312+6+765139+2 4003000J 66711MOO

25000+5+237128+5+682061+1+613155-3+406187+7+765139+230006000J 66712MOO

-----		-----NOTS-----								-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
53 -2.449	100	7.782	59.101	0.774	59.344	-0.243	0.875	-0.101	59.108	-0.007	0.775	-0.001	
47 0.454	100	8.291	62.364	2.386	62.348	0.016	2.367	0.019	62.359	0.005	2.383	0.003	
36 0.937	100	8.556	64.789	4.074	64.754	0.035	4.042	0.032	64.791	-0.002	4.075	-0.001	
31 0.550	100	8.703	66.716	5.801	66.693	0.023	5.780	0.021	66.720	-0.004	5.804	-0.003	
51 -0.202	100	8.794	68.311	7.551	68.301	0.010	7.545	0.006	68.314	-0.003	7.553	-0.002	
38 -0.452	100	8.855	69.672	9.317	69.669	0.003	9.320	-0.003	69.673	-0.001	9.317	0.000	
47 -0.191	100	8.898	70.857	11.092	70.858	-0.001	11.101	-0.009	70.858	-0.001	11.091	0.001	
30 -0.044	100	8.933	71.907	12.875	71.909	-0.002	12.885	-0.010	71.907	-0.000	12.873	0.002	
24 0.032	100	8.962	72.850	14.665	72.851	-0.001	14.673	-0.008	72.850	-0.000	14.663	0.002	
34 0.062	200	8.990	73.705	16.460	73.705	0.000	16.465	-0.005	73.706	-0.001	16.459	0.001	
32 0.064	400	9.020	74.489	18.261	74.486	0.003	18.262	-0.001	74.490	-0.001	18.262	-0.001	
36 0.050	100	9.054	75.212	20.068	75.208	0.003	20.066	0.002	75.214	-0.002	20.070	-0.002	
27 0.029	100	9.095	75.885	21.883	75.880	0.005	21.879	0.004	75.886	-0.001	21.885	-0.002	
49 0.007	100	9.143	76.514	23.707	76.509	0.005	23.702	0.005	76.514	0.000	23.704	0.003	
57 -0.011	100	9.143	76.514	23.707	76.509	0.005	23.702	0.005	76.514	0.000	23.713	-0.006	
77 -0.021	100	9.200	77.105	25.541	77.101	0.004	25.536	0.005	77.104	0.001	25.542	-0.001	
76 -0.020	100	9.267	77.665	27.387	77.661	0.004	27.384	0.003	77.663	0.002	27.385	0.002	
53 -0.007	100	9.342	78.197	29.248	78.193	0.004	29.247	0.001	78.194	0.003	29.245	0.003	
35 0.021	100	9.427	78.704	31.125	78.701	0.003	31.126	-0.001	78.702	0.002	31.122	0.003	
	100	9.519	79.190	33.020	79.188	0.002	33.022	-0.002	79.188	0.002	33.018	0.002	
	100	9.619	79.657	34.933	79.655	0.002	34.937	-0.004	79.655	0.002	34.933	-0.000	
	100	9.723	80.107	36.867	80.104	0.003	36.871	-0.004	80.105	0.002	36.869	-0.002	
	100	9.832	80.541	38.823	80.539	0.002	38.826	-0.003	80.540	0.001	38.825	-0.002	
	100	9.943	80.962	40.800	80.959	0.003	40.802	-0.002	80.961	0.001	40.802	-0.002	
	100	10.055	81.370	42.800	81.367	0.003	42.800	0.000	81.369	0.001	42.801	-0.001	
	100	10.166	81.767	44.822	81.763	0.004	44.820	0.002	81.765	0.002	44.822	0.000	
	100	10.276	82.153	46.866	82.149	0.004	46.863	0.003	82.151	0.002	46.865	0.001	
	100	10.383	82.528	48.932	82.525	0.003	48.929	0.003	82.526	0.002	48.930	0.002	
	100	10.487	82.894	51.019	82.891	0.003	51.018	0.001	82.893	0.001	51.018	0.001	
	100	10.585	83.252	53.127	83.249	0.003	53.131	-0.004	83.250	0.002	53.129	-0.002	

MOLYBDENUM TRIOXIDE (L) MO 10 3 0 0 0 0 667

MOL. WT. = 143.930 BLOCK = 4627 NO. POINT = 19

DATA FROM 298 TO 2000 K HFORM(KCAL/(MOLE)) = -168.555 KEY = 988

FITS FOR NOTS RMS = 0.064331

3 8 1 42 0 0 0 0 0 0 0 MOLYBDENUM TRIOXIDE (L) 20J 667 988
+3.6004226E+1+4.9303665E+0-9.4876813E+0+2.9818906E+0 400 2000 21J 667 988
-4.0841979E+0-1.9127136E+2+5.2006958E+1-1.6855499E+2MOO3(L) 22J 667 988

FITS FOR EST RMS LOW = 0.081470 RMS HIGH = 0.081470

3 8 1 42 0 0 0 0 0 0 0 MOLYBDENUM TRIOXIDE (L) 20MOO3*
-168554+6+764858+5+362685+2-279467-2-341760+7+879875+2 4002000J 66721MOO3*
-168554+6+764858+5+362685+2-279467-2-341760+7+879875+2 4002000J 66722MOO3*

-----NOTS-----													
-----EST-----													
-----	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
DH	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
KC/M													
7 0.018	400	19.860	32.541	1.935	33.057	-0.516	2.107	-0.172	32.666	-0.125	1.945	-0.010	
3 -0.014	500	20.973	37.098	3.979	36.623	0.475	3.722	0.257	36.635	0.463	3.737	0.242	
6 -0.011	600	21.935	41.007	6.125	40.753	0.254	5.994	0.131	40.880	0.127	6.071	0.054	
9 -0.002	700	30.342	44.461	8.367	44.800	-0.339	8.623	-0.256	44.932	-0.471	8.703	-0.336	
2 0.005	800	30.342	48.512	11.401	48.581	-0.069	11.456	-0.055	48.678	-0.166	11.510	-0.109	
3 0.007	900	30.342	52.086	14.435	52.054	0.032	14.406	0.029	52.110	-0.024	14.424	0.011	
6 0.004	1000	30.342	55.283	17.469	55.230	0.053	17.420	0.049	55.251	0.032	17.406	0.063	
2 0.001	1100	30.342	58.175	20.503	58.133	0.042	20.466	0.037	58.132	0.043	20.429	0.074	
3 -0.002	1200	30.342	60.815	23.538	60.792	0.023	23.523	0.015	60.782	0.033	23.475	0.063	
1 -0.005	1300	30.342	63.243	26.572	63.238	0.005	26.578	-0.006	63.230	0.013	26.534	0.038	
7 -0.003	1400	30.342	65.492	29.606	65.495	-0.003	29.624	-0.018	65.499	-0.007	29.595	0.011	
0 0.004	1500	30.342	67.585	32.640	67.590	-0.005	32.660	-0.020	67.610	-0.025	32.654	-0.014	
	1600	30.342	69.544	35.674	69.542	0.002	35.686	-0.012	69.579	-0.035	35.706	-0.032	
	1700	30.342	71.383	38.709	71.374	0.009	38.706	0.003	71.422	-0.039	38.746	-0.037	
	1800	30.342	73.117	41.743	73.101	0.016	41.729	0.014	73.152	-0.035	41.772	-0.029	
	1900	30.342	74.758	44.777	74.742	0.016	44.764	0.013	74.779	-0.021	44.782	-0.005	
	2000	30.342	76.314	47.811	76.311	0.003	47.822	-0.011	76.314	0.000	47.774	0.037	

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2 8
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[illegible]

PERCHLOROETHANE

(G) C 2CL 6

967

MOL. WT. = 236.740 BLCK = 4642 NO. POINT = 61

ATA FROM 100 TO 6000 K HFORM (KCAL/(MOLE)) = -32.080 KEY = 993

FITS FOR NOTS RMS = 0.017447

6 6 17 0 0 0 0 0 0 0 PERCHLOROETHANE (G) 10J 967 993

.5149963E+1-8.0364322E-1+9.6550643E-2-3.6851484E-3 400 6000 11J 967 993

.7387695E+0-5.0682525E+1+1.4203291E+2-3.2079986E+1C2CL6 (G) 12J 967 993

FITS FOR EST RMS LOW = 0.016256 RMS HIGH = 0.013262

6 6 17 0 0 0 0 0 0 0 PERCHLOROETHANE (G) 10C2CL6

20799+5+114606+6+446387+2-385527-3-159368+7+189725+3 4003000J 96711C2CL6

20799+5+114614+6+434737+2-958339-4+779264+6+189725+330006000J 96712C2CL6

-----NOTS-----													
-----EST-----													
DH	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	SC	DH
KC/M	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	KC/M
3 -0.119	36.677	105.355	3.573	105.782	-0.427	3.742	-0.169	105.677	-0.322	3.703	-0.130		
0 0.035	40.142	120.981	11.305	120.919	0.062	11.248	0.057	120.933	0.048	11.264	0.041		
2 0.028	41.714	132.769	19.507	132.704	0.065	19.450	0.057	132.729	0.040	19.474	0.033		
8 0.008	42.551	142.176	27.941	142.146	0.030	27.916	0.025	142.165	0.011	27.934	0.007		
9 -0.004	43.024	149.979	36.502	149.971	0.008	36.501	0.001	149.983	-0.004	36.511	-0.009		
9 -0.009	43.296	156.633	45.136	156.634	-0.001	45.147	-0.011	156.640	-0.007	45.149	-0.013		
4 -0.009	43.435	162.424	53.811	162.426	-0.002	53.821	-0.010	162.428	-0.004	53.819	-0.008		
0 -0.005	43.478	167.543	62.502	167.542	0.001	62.509	-0.007	167.543	-0.000	62.505	-0.003		
0 -0.001	43.500	172.125	71.200	172.122	0.003	71.202	-0.002	172.123	0.002	71.197	0.003		
9 0.003	43.461	176.269	79.896	176.264	0.005	79.894	0.002	176.266	0.003	79.891	0.005		
4 0.005	43.423	180.049	88.585	180.044	0.005	88.582	0.003	180.046	0.003	88.581	0.004		
2 0.005	43.385	183.523	97.266	183.518	0.005	97.263	0.003	183.522	0.001	97.265	0.001		
2 0.001	43.348	186.737	105.939	186.732	0.005	105.938	0.001	186.736	0.001	105.940	-0.001		
2 -0.007	43.311	189.726	114.605	189.722	0.004	114.605	0.000	189.726	0.000	114.607	-0.002		
2 -0.006	43.311	189.726	114.605	189.722	0.004	114.605	0.000	189.726	0.000	114.615	-0.010		
7 -0.002	43.271	192.520	123.263	192.516	0.004	123.264	-0.001	192.518	0.002	123.266	-0.003		
7 0.001	43.233	195.143	131.913	195.139	0.004	131.915	-0.002	195.139	0.004	131.912	0.001		
3 0.003	43.198	197.613	140.556	197.609	0.004	140.559	-0.003	197.608	0.005	140.552	0.004		
3 0.003	43.165	199.947	149.193	199.944	0.003	149.196	-0.003	199.942	0.005	149.188	0.005		
7 0.003	43.135	202.161	157.823	202.158	0.003	157.827	-0.004	202.156	0.005	157.818	0.005		
3 0.003	43.109	204.265	166.447	204.261	0.004	166.451	-0.004	204.260	0.005	166.443	0.004		
2 0.002	43.085	206.269	175.067	206.266	0.003	175.069	-0.002	206.265	0.004	175.064	0.003		
3 0.001	43.063	208.184	183.681	208.180	0.003	183.683	-0.002	208.180	0.004	183.680	0.001		
6 -0.000	43.041	210.016	192.292	210.012	0.004	192.292	0.000	210.013	0.003	192.292	0.000		
1 -0.001	43.021	211.773	200.898	211.769	0.004	200.897	0.001	211.769	0.004	200.899	-0.001		
6 -0.001	43.002	213.460	209.500	213.456	0.004	209.498	0.002	213.457	0.003	209.502	-0.002		
3 -0.002	42.985	215.083	218.099	215.078	0.005	218.096	0.003	215.079	0.004	218.101	-0.002		
0 -0.000	42.969	216.646	226.694	216.641	0.005	226.692	0.002	216.642	0.004	226.695	-0.001		
9 0.000	42.954	218.153	235.286	218.149	0.004	235.286	-0.000	218.149	0.004	235.286	0.000		
7 0.004	42.941	219.609	243.876	219.606	0.003	243.879	-0.003	219.605	0.004	243.872	0.004		

967

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FITS FOR EST  RMS LOW =      0.133464 RMS  HIGH =      0.133464
1 27 0  0 0  0 0  0 0  0 0  COBALT                                     (C) 30C0$
000000+0+233932+5+135007+2-192837-2-185929+7+260968+2 4002500J 96731C0$
000000+0+233932+5+135007+2-192837-2-185929+7+260968+2 4002500J 96732C0$

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[illegible]

COBALT (L) CO 1
 MOL. WT. = 58.930 BLOCK = 4657 NO. POINT = 39
 DATA FROM 298 TO 4000 K HFORM(KCAL/(MOLE)) = 4.303 KEY = 996
 FITS FOR NOTS RMS = 0.028482
 27 0 0 0 0 0 0 0 0 0 0 COBALT (L) 20J 967 996
 .0576511E+1-1.8697390E-1-8.7471008E-2+2.1741420E-2 400 4000 21J 967 996
 .2718048E+0-2.2696475E+0+1.7903839E+1+4.3029994E+0CO (L) 22J 967 996

FITS FOR EST RMS LOW = 0.038555 RMS HIGH = 0.038555
 27 0 0 0 0 0 0 0 0 0 0 COBALT (L) 20CO*
 .10299+4+243870+5+102237+2-135828-3-105838+7+288339+2 4004000J 96721CO*
 .10299+4+243870+5+102237+2-135828-3-105838+7+288339+2 4004000J 96722CO*

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
18	6.340	11.593	0.625	12.105	-0.512	0.821	-0.196	11.836	-0.243	0.699	-0.074				
2	7.090	14.312	1.971	14.140	0.172	1.853	0.118	14.117	0.195	1.848	0.123				
10	7.750	16.434	3.450	16.362	0.072	3.405	0.045	16.388	0.046	3.433	0.017				
4	8.840	18.274	5.103	18.314	-0.040	5.157	-0.054	18.344	-0.070	5.188	-0.085				
10	9.560	19.978	6.974	19.997	-0.019	7.004	-0.030	20.019	-0.041	7.027	-0.053				
19	9.640	21.458	8.894	21.457	0.001	8.899	-0.005	21.471	-0.013	8.910	-0.016				
15	9.680	22.749	10.828	22.739	0.010	10.819	0.009	22.745	0.004	10.820	0.008				
16	9.680	23.889	12.764	23.877	0.012	12.752	0.012	23.879	0.010	12.745	0.019				
16	9.680	24.909	14.700	24.899	0.010	14.692	0.008	24.898	0.011	14.679	0.021				
10	9.680	25.832	16.636	25.824	0.008	16.633	0.003	25.822	0.010	16.619	0.017				
5	9.680	26.674	18.572	26.668	0.006	18.574	-0.002	26.667	0.007	18.561	0.011				
5	9.680	27.449	20.508	27.444	0.005	20.513	-0.005	27.445	0.004	20.504	0.004				
11	9.680	28.166	22.444	28.162	0.004	22.449	-0.005	28.164	0.001	22.446	-0.002				
15	9.680	28.834	24.380	28.829	0.005	24.383	-0.003	28.834	0.000	24.387	-0.007				
7	9.680	29.459	26.316	29.453	0.006	26.317	-0.001	29.460	-0.001	26.326	-0.010				
2	9.680	30.045	28.252	30.039	0.006	28.250	0.002	30.046	-0.001	28.261	-0.009				
7	9.680	30.599	30.188	30.592	0.007	30.184	0.004	30.599	0.000	30.194	-0.006				
18	9.680	31.122	32.124	31.116	0.006	32.122	0.002	31.120	0.002	32.122	0.002				
13	9.680	31.619	34.060	31.614	0.005	34.065	-0.005	31.614	0.005	34.047	0.013				

COB
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 DATA
 FITS
 1 27
 +7.465
 -4.376
 FITS
 1 27
 +10150
 +10150

COBALT MONATOMIC (G) CO 1 0 0 0 0 0 967
 MOL. WT. = 58.930 BLOCK = 4661 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 101.500 KEY = 997
 FITS FOR NOTS RMS = 0.021223
 1 27 0 0 0 0 0 0 0 0 COBALT MONATOMIC (G) 10J 967 997
 +7.4692087E+0-7.6067340E-1+1.2592005E-1+7.8107649E-4 400 6000 11J 967 997
 -4.3765258E-1+9.8190277E+1+5.0634292E+1+1.0150000E+2CO (G) 12J 967 997

FITS FOR EST RMS LOW = 0.006133 RMS HIGH = 0.008531
 1 27 0 0 0 0 0 0 0 0 COBALT MONATOMIC (G) 10CO
 +101500+6+169791+5+658410+1-920335-4-158752+6+571629+2 4003000J 96711CO
 +101500+6+169723+5+241071+1+786542-3+142405+8+571629+230006000J 96712CO

-----NOTS-----								-----EST-----				
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
4	400	5.857	44.548	0.579	44.864	-0.316	0.714	-0.135	44.623	-0.075	0.611	-0.032
3	600	6.188	47.000	1.791	46.993	0.007	1.773	0.018	46.999	0.001	1.787	0.004
7	800	6.259	48.793	3.038	48.741	0.052	2.991	0.047	48.778	0.015	3.024	0.014
5	1000	6.291	50.193	4.292	50.156	0.037	4.259	0.033	50.184	0.009	4.285	0.007
3	1200	6.329	51.343	5.554	51.326	0.017	5.543	0.011	51.342	0.001	5.555	-0.001
6	1400	6.363	52.321	6.824	52.318	0.003	6.830	-0.006	52.324	-0.003	6.829	-0.005
8	1600	6.383	53.172	8.099	53.175	-0.003	8.114	-0.015	53.175	-0.003	8.104	-0.005
9	1800	6.385	53.924	9.376	53.928	-0.004	9.393	-0.017	53.926	-0.002	9.379	-0.003
1	2000	6.374	54.597	10.652	54.599	-0.002	10.665	-0.013	54.596	0.001	10.652	0.000
7	2200	6.355	55.203	11.925	55.203	0.000	11.932	-0.007	55.202	0.001	11.923	0.002
1	2400	6.332	55.755	13.193	55.752	0.003	13.195	-0.002	55.754	0.001	13.191	0.002
4	2600	6.312	56.261	14.458	56.256	0.005	14.454	0.004	56.261	0.000	14.457	0.001
2	2800	6.298	56.729	15.719	56.722	0.007	15.712	0.007	56.728	0.001	15.719	-0.000
7	3000	6.293	57.163	16.978	57.156	0.007	16.970	0.008	57.163	0.000	16.979	-0.001
0	3000	6.293	57.163	16.978	57.156	0.007	16.970	0.008	57.163	0.000	16.972	0.006
9	3200	6.300	57.569	18.237	57.563	0.006	18.230	0.007	57.572	-0.003	18.239	-0.002
6	3400	6.319	57.952	19.498	57.946	0.006	19.493	0.005	57.955	-0.003	19.502	-0.004
2	3600	6.351	58.314	20.765	58.308	0.006	20.763	0.002	58.316	-0.002	20.767	-0.002
3	3800	6.396	58.658	22.040	58.654	0.004	22.040	-0.000	58.660	-0.002	22.040	0.000
	4000	6.453	58.988	23.324	58.984	0.004	23.327	-0.003	58.989	-0.001	23.323	0.001
	4200	6.523	59.304	24.622	59.301	0.003	24.626	-0.004	59.305	-0.001	24.619	0.003
	4400	6.605	59.609	25.934	59.606	0.003	25.940	-0.006	59.611	-0.002	25.932	0.002
	4600	6.697	59.905	27.264	59.902	0.003	27.269	-0.005	59.907	-0.002	27.263	0.001
	4800	6.798	60.192	28.614	60.188	0.004	28.616	-0.002	60.194	-0.002	28.613	0.001
	5000	6.907	60.472	29.984	60.467	0.005	29.984	-0.000	60.474	-0.002	29.985	-0.001
	5200	7.024	60.745	31.377	60.740	0.005	31.375	0.002	60.747	-0.002	31.379	-0.002
	5400	7.147	61.012	32.794	61.007	0.005	32.790	0.004	61.015	-0.003	32.796	-0.002
	5600	7.275	61.275	34.236	61.269	0.006	34.232	0.004	61.277	-0.002	34.238	-0.002
	5800	7.406	61.532	35.704	61.527	0.005	35.703	0.001	61.534	-0.002	35.704	-0.000
	6000	7.541	61.786	37.199	61.782	0.004	37.206	-0.007	61.787	-0.001	37.196	0.003

MOL. WT.= 58.930 BLOCK= 4667 NO. POINT = 59

DATA FROM 298 TO 6000 K HFOPM(KCAL/(MOLE)) = 284.341 KEY = 998

FITS FOR NOTS RMS = 0.022163

1 -1 1 27 0 0 0 0 0 0 0 0 COBALT UNIPOSITIVE ION	(G)	10J	967	998
+7.6277513E+0-4.6400260E-1+2.7007933E-2+1.7958367E-3 400 6000		11J	967	998
-6.3787841E-1+2.8047363E+2+4.9827758E+1+2.8434082E+2CO+(G)		12J	967	998

FITS FOR EST RMS LOW = 0.021611 RMS HIGH = 0.002967

1	-1	1	27	0	0	0	0	0	0	0	COBALT UNIPOSITIVE ION	(G) 10Co+
+284340	+6	+174351	+5	+728358	+1	-244674	-3	-515392	+6	+569969	+2	4003000J 96711Co+
+284340	+6	+174270	+5	+603003	+1	+241288	-5	+374872	+7	+569969	+230006000J	96712Co+

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	RC	DH	
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
400	5.642	44.209	0.559	44.648	-0.439	0.742	-0.183	44.539	-0.330	0.696	-0.137	4
600	6.015	46.579	1.730	46.544	0.035	1.691	0.039	46.549	0.030	1.699	0.031	6
800	6.201	48.336	2.953	48.262	0.074	2.889	0.064	48.282	0.054	2.906	0.047	8
1000	6.375	49.738	4.210	49.697	0.041	4.176	0.034	49.714	0.024	4.190	0.020	10
1200	6.538	50.915	5.502	50.904	0.011	5.500	0.002	50.914	0.001	5.507	-0.005	12
1400	6.656	51.932	6.822	51.936	-0.004	6.839	-0.017	51.940	-0.008	6.839	-0.017	14
1600	6.717	52.826	8.160	52.832	-0.006	8.182	-0.022	52.833	-0.007	8.176	-0.016	16
1800	6.728	53.618	9.505	53.622	-0.004	9.523	-0.018	53.621	-0.003	9.514	-0.009	18
2000	6.704	54.326	10.849	54.325	0.001	10.858	-0.009	54.324	0.002	10.849	-0.000	20
2200	6.660	54.963	12.186	54.959	0.004	12.187	-0.001	54.958	0.005	12.180	0.006	22
2400	6.606	55.540	13.512	55.533	0.007	13.508	0.004	55.535	0.005	13.504	0.008	24
2600	6.551	56.067	14.828	56.059	0.008	14.821	0.007	56.062	0.005	14.822	0.006	26
2800	6.497	56.550	16.133	56.542	0.008	16.125	0.008	56.548	0.002	16.133	0.000	28
3000	6.448	56.997	17.427	56.989	0.008	17.420	0.007	56.997	0.000	17.435	-0.008	30
3200	6.448	56.997	17.427	56.989	0.008	17.420	0.007	56.997	0.000	17.427	-0.000	32
3400	6.404	57.411	18.712	57.404	0.007	18.707	0.005	57.412	-0.001	18.713	-0.001	34
3600	6.364	57.798	19.989	57.792	0.006	19.987	0.002	57.799	-0.001	19.989	-0.000	36
3800	6.330	58.161	21.258	58.156	0.005	21.259	-0.001	58.161	-0.000	21.258	-0.000	38
4000	6.300	58.503	22.521	58.498	0.005	22.524	-0.003	58.503	0.000	22.521	0.000	40
4200	6.275	58.825	23.779	58.820	0.005	23.782	-0.003	58.825	-0.000	23.778	0.001	42
4400	6.252	59.131	25.031	59.126	0.005	25.035	-0.004	59.131	0.000	25.031	0.000	44
4600	6.233	59.421	26.280	59.416	0.005	26.283	-0.003	59.421	-0.000	26.279	0.001	46
4800	6.217	59.698	27.525	59.693	0.005	27.527	-0.002	59.698	-0.000	27.524	0.001	48
5000	6.203	59.962	28.767	59.957	0.005	28.768	-0.001	59.962	-0.000	28.767	0.000	50
5200	6.191	60.215	30.006	60.209	0.006	30.005	0.001	60.215	-0.000	30.006	-0.000	52
5400	6.180	60.458	31.243	60.452	0.006	31.241	0.002	60.458	-0.000	31.244	-0.001	54
5600	6.172	60.691	32.478	60.685	0.006	32.475	0.003	60.691	-0.000	32.479	-0.001	56
5800	6.165	60.915	33.712	60.909	0.006	33.709	0.003	60.915	-0.000	33.712	-0.000	58
6000	6.160	61.131	34.944	61.126	0.005	34.944	0.000	61.132	-0.001			

ALUMINUM HYDROXIDE UNIPOS. ION (G) AL 1H 10 1 1 1267
 MOL. WT.= 43.980 BLOCK= 4673 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 130.000 KEY = 999
 FITS FOR NOTS RMS = 0.016973
 1 -1 1 1 1 8 1 13 0 0 0 0 ALUMINUM HYDROXIDE UNIPOS. ION (G) 10J1267 999
 +1.1790554E+1+1.6885471E+0-3.3790218E-1+2.3428931E-2 400 6000 11J1267 999
 -8.2957458E-1+1.2408895E+2+6.5029953E+1+1.3000000E+2ALHO+ (G) 12J1267 999

FITS FOR EST RMS LOW = 0.030608 RMS HIGH = 0.004534
 1 -1 1 1 1 8 1 13 0 0 0 0 ALUMINUM HYDROXIDE UNIPOS. ION (G) 10ALHO+
 +130000+6+347910+5+128615+2+581235-3-105185+7+817909+2 4003000J126711ALHO+
 +130000+6+347778+5+149345+2-674187-5-522172+7+817909+230006000J126712ALHO+

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.137	400	9.079	57.138	0.871	57.468	-0.330	1.007	-0.136	57.594	-0.456	1.061	-0.190	
0.031	600	10.643	61.142	2.857	61.113	0.029	2.826	0.031	61.099	0.043	2.815	0.042	
0.047	800	11.586	64.343	5.087	64.294	0.049	5.043	0.044	64.276	0.067	5.030	0.057	
0.020	1000	12.229	67.001	7.472	66.972	0.029	7.447	0.025	66.966	0.035	7.444	0.028	
-0.005	1200	12.713	69.275	9.968	69.264	0.011	9.962	0.006	69.267	0.008	9.969	-0.001	
-0.017	1400	13.090	71.264	12.550	71.263	0.001	12.556	-0.006	71.269	-0.005	12.567	-0.017	
-0.016	1600	13.389	73.033	15.199	73.035	-0.002	15.211	-0.012	73.039	-0.006	15.220	-0.021	
-0.009	1800	13.626	74.624	17.901	74.626	-0.002	17.913	-0.012	74.627	-0.003	17.917	-0.016	
-0.000	2000	13.816	76.070	20.646	76.070	-0.000	20.655	-0.009	76.068	0.002	20.652	-0.006	
0.006	2200	13.970	77.394	23.425	77.392	0.002	23.429	-0.004	77.387	0.007	23.420	0.005	
0.008	2400	14.095	78.615	26.232	78.612	0.003	26.232	-0.000	78.605	0.010	26.220	0.012	
0.006	2600	14.198	79.748	29.062	79.743	0.005	29.059	0.003	79.737	0.011	29.049	0.013	
0.000	2800	14.283	80.803	31.910	80.797	0.006	31.905	0.005	80.796	0.007	31.907	0.003	
-0.008	3000	14.354	81.791	34.774	81.785	0.006	34.769	0.005	81.791	0.000	34.791	-0.017	
-0.000	3000	14.354	81.791	34.774	81.785	0.006	34.769	0.005	81.791	0.000	34.778	-0.004	
-0.001	3200	14.414	82.719	37.651	82.714	0.005	37.647	0.004	82.718	0.001	37.652	-0.001	
-0.000	3400	14.465	83.595	40.539	83.590	0.005	40.536	0.003	83.593	0.002	40.538	0.001	
-0.000	3600	14.509	84.423	43.437	84.418	0.005	43.436	0.001	84.421	0.002	43.435	0.002	
0.000	3800	14.547	85.208	46.342	85.204	0.004	46.343	-0.001	85.207	0.001	46.341	0.001	
0.001	4000	14.579	85.955	49.255	85.952	0.003	49.258	-0.003	85.954	0.001	49.254	0.001	
0.000	4200	14.608	86.667	52.174	86.664	0.003	52.178	-0.004	86.666	0.001	52.173	0.001	
0.001	4400	14.632	87.347	55.098	87.344	0.003	55.102	-0.004	87.346	0.001	55.097	0.001	
0.001	4600	14.654	87.998	58.027	87.995	0.003	58.030	-0.003	87.997	0.001	58.027	0.000	
0.000	4800	14.674	88.623	60.959	88.619	0.004	60.961	-0.002	88.621	0.002	60.960	-0.001	
-0.000	5000	14.691	89.222	63.896	89.218	0.004	63.896	0.000	89.221	0.001	63.897	-0.001	
-0.001	5200	14.707	89.798	66.836	89.794	0.004	66.834	0.002	89.797	0.001	66.837	-0.001	
-0.001	5400	14.720	90.354	69.779	90.349	0.005	69.775	0.004	90.353	0.001	69.779	-0.000	
-0.000	5600	14.733	90.889	72.724	90.885	0.004	72.721	0.003	90.888	0.001	72.724	-0.000	
-0.000	5800	14.744	91.406	75.672	91.402	0.004	75.671	0.001	91.405	0.001	75.671	0.001	
0.001	6000	14.754	91.906	78.621	91.903	0.003	78.626	-0.005	91.905	0.001	78.620	0.001	

ALUMINUM HYDROXIDE UNINEG. ION (G) AL 1H 10 1- 1 1267
 MOL. WT.= 43.980 BLOCK= 4679 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = -55.000 KEY = 1000
 FITS FOR NOTS RMS = 0.014730
 -1 1 1 1 8 1 13 0 0 0 ALUMINUM HYDROXIDE UNINEG. ION (G) 10J12671000
 948447E+1+1.5972986E+0-3.1848818E-1+2.2035568E-2 400 6000 11J12671000
 5731201E-1-5.9855621E+1+6.7917175E+1-5.5000000E+1ALHO- (G) 12J12671000

BCROI
 MOL
 DATA
 FITS
 1 -1 1
 +4.7664
 +5.0033

FITS FOR EST RMS LOW = 0.027236 RMS HIGH = 0.004219
 -1 1 1 1 8 1 13 0 0 0 ALUMINUM HYDROXIDE UNINEG. ION (G) 10ALHO-
 0000+5+329636+5+119633+2+551043-3-768912+6+835379+2 4003000J126711ALHO-
 0000+5+329510+5+139251+2-431479-5-471888+7+835379+230006000J126712ALHO-

FITS
 1 -1 1
 +325606
 +325606

/M	-----NOTS-----								-----EST-----				T	C
	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M			
190														
042	0	9.454	59.972	0.927	60.241	-0.269	1.038	-0.111	60.360	-0.389	1.089	-0.162	400	4
057	0	10.489	64.019	2.930	64.001	0.018	2.908	0.022	63.986	0.033	2.896	0.034	600	4
028	0	11.131	67.131	5.096	67.089	0.042	5.059	0.037	67.071	0.060	5.046	0.050	800	4
001	0	11.603	69.667	7.371	69.641	0.026	7.348	0.023	69.635	0.032	7.345	0.026	1000	4
017	0	11.984	71.818	9.731	71.807	0.011	9.725	0.006	71.808	0.010	9.731	-0.000	1200	4
021	0	12.296	73.689	12.160	73.687	0.002	12.165	-0.005	73.692	-0.003	12.176	-0.016	1400	4
016	0	12.550	75.348	14.646	75.350	-0.002	14.656	-0.010	75.354	-0.006	14.665	-0.019	1600	4
006	0	12.756	76.839	17.177	76.841	-0.002	17.187	-0.010	76.841	-0.003	17.192	-0.015	1800	4
005	0	12.923	78.192	19.746	78.192	-0.000	19.753	-0.007	78.190	0.002	19.751	-0.005	2000	4
012	0	13.060	79.430	22.344	79.429	0.001	22.348	-0.004	79.423	0.007	22.340	0.004	2200	4
013	0	13.172	80.571	24.968	80.568	0.003	24.968	-0.000	80.562	0.009	24.957	0.011	2400	4
003	0	13.265	81.629	27.612	81.625	0.004	27.609	0.003	81.620	0.009	27.601	0.011	2600	4
017	0	13.342	82.615	30.273	82.611	0.004	30.269	0.004	82.609	0.006	30.270	0.003	2800	4
004	0	13.406	83.538	32.948	83.533	0.005	32.943	0.005	83.538	0.000	32.964	-0.016	3000	4
001	0	13.406	83.538	32.948	83.533	0.005	32.943	0.005	83.538	0.000	32.951	-0.003	3000	4
001	0	13.461	84.405	35.634	84.400	0.005	35.631	0.003	84.404	0.001	35.635	-0.001	3200	4
002	0	13.507	85.223	38.331	85.218	0.005	38.329	0.002	85.221	0.002	38.331	0.000	3400	4
001	0	13.547	85.996	41.037	85.992	0.004	41.036	0.001	85.994	0.002	41.035	0.002	3600	4
001	0	13.581	86.729	43.750	86.726	0.003	43.751	-0.001	86.728	0.001	43.748	0.002	3800	4
001	0	13.611	87.427	46.469	87.424	0.003	46.472	-0.003	87.425	0.002	46.468	0.001	4000	4
001	0	13.637	88.091	49.194	88.089	0.002	49.197	-0.004	88.090	0.001	49.193	0.001	4200	4
000	0	13.660	88.726	51.924	88.724	0.002	51.927	-0.003	88.725	0.001	51.923	0.001	4400	4
001	0	13.680	89.334	54.658	89.331	0.003	54.661	-0.003	89.333	0.001	54.658	0.000	4600	4
001	0	13.698	89.917	57.396	89.913	0.003	57.397	-0.001	89.915	0.002	57.396	-0.000	4800	4
001	0	13.714	90.476	60.137	90.473	0.003	60.137	-0.000	90.475	0.001	60.138	-0.001	5000	5
000	0	13.728	91.014	62.881	91.010	0.004	62.879	0.002	91.013	0.001	62.882	-0.001	5200	5
000	0	13.741	91.533	65.628	91.529	0.004	65.625	0.003	91.531	0.002	65.629	-0.001	5400	5
001	0	13.752	92.032	68.378	92.029	0.003	68.375	0.003	92.031	0.001	68.378	0.000	5600	5
001	0	13.763	92.515	71.129	92.512	0.003	71.128	0.001	92.514	0.001	71.129	0.000	5800	5
001	0	13.772	92.982	73.883	92.979	0.003	73.888	-0.005	92.981	0.001	73.882	0.001	6000	5

BORON UNIPOSITIVE ION

(G) B 1 1

1270

MOL. WT. = 10.810 BLOCK = 4685 NO. POINT = 59

DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 325.607 KEY = 1001

FITS FOR NOTS RMS = 0.003084

1 -1 1 5 0 0 0 0 0 0 0 BORON UNIPOSITIVE ION (G) 10J12701001
 +4.7664785E+0+2.0022082E-1-6.6762387E-2+7.3097720E-3 400 6000 11J12701001
 +5.0033569E-2+3.2430004E+2+3.8957077E+1+3.2560693E+2B+ (G) 12J12701001

FITS FOR EST RMS LOW = 0.000504 RMS HIGH = 0.010311

1 -1 1 5 0 0 0 0 0 0 0 BORON UNIPOSITIVE ION (G) 10B+
 +325606+6+134228+5+496705+1+489926-6-300000+1+445559+2 4003000J127011B+
 +325606+6+134172+5+412337+1+147143-3+403137+7+445559+230006000J127012B+

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.162	400	4.968	34.546	0.506	34.508	0.038	0.489	0.017	34.547	-0.001	0.506	-0.000
0.034	600	4.968	36.560	1.500	36.561	-0.001	1.501	-0.001	36.561	-0.001	1.500	0.000
0.050	800	4.968	37.989	2.493	37.994	-0.005	2.497	-0.004	37.990	-0.001	2.493	-0.000
0.026	1000	4.968	39.098	3.487	39.101	-0.003	3.489	-0.002	39.098	-0.000	3.487	0.000
-0.000	1200	4.968	40.004	4.480	40.005	-0.001	4.481	-0.001	40.004	0.000	4.480	-0.000
-0.016	1400	4.968	40.770	5.474	40.770	0.000	5.473	0.001	40.770	0.000	5.474	0.000
-0.019	1600	4.968	41.433	6.467	41.432	0.001	6.465	0.002	41.433	0.000	6.467	-0.000
-0.015	1800	4.968	42.018	7.461	42.017	0.001	7.459	0.002	42.018	-0.000	7.461	0.000
-0.005	2000	4.968	42.541	8.455	42.541	-0.000	8.453	0.002	42.542	-0.001	8.455	0.000
0.004	2200	4.968	43.015	9.448	43.015	0.000	9.447	0.001	43.015	-0.000	9.448	-0.000
0.011	2400	4.968	43.447	10.442	43.448	-0.001	10.441	0.001	43.447	-0.000	10.442	0.000
0.011	2600	4.968	43.845	11.435	43.846	-0.001	11.436	-0.001	43.845	-0.000	11.435	-0.000
0.003	2800	4.968	44.213	12.429	44.214	-0.001	12.430	-0.001	44.213	-0.000	12.429	-0.000
-0.016	3000	4.968	44.556	13.423	44.557	-0.001	13.424	-0.001	44.556	0.000	13.423	0.000
-0.003	3000	4.968	44.556	13.423	44.557	-0.001	13.424	-0.001	44.556	0.000	13.417	0.006
-0.001	3200	4.968	44.876	14.416	44.877	-0.001	14.418	-0.002	44.879	-0.003	14.417	-0.001
0.000	3400	4.969	45.178	15.410	45.179	-0.001	15.411	-0.001	45.181	-0.003	15.413	-0.003
0.002	3600	4.969	45.462	16.404	45.463	-0.001	16.405	-0.001	45.464	-0.002	16.407	-0.003
0.002	3800	4.970	45.730	17.398	45.731	-0.001	17.398	-0.000	45.733	-0.003	17.399	-0.001
0.001	4000	4.973	45.985	18.392	45.986	-0.001	18.392	0.000	45.987	-0.002	18.392	0.000
0.001	4200	4.976	46.228	19.387	46.229	-0.001	19.386	0.001	46.230	-0.002	19.385	0.002
0.001	4400	4.981	46.460	20.382	46.460	-0.000	20.382	0.000	46.461	-0.001	20.380	0.002
0.000	4600	4.989	46.681	21.379	46.682	-0.001	21.378	0.001	46.683	-0.002	21.377	0.002
-0.000	4800	4.999	46.894	22.378	46.894	-0.000	22.377	0.001	46.895	-0.001	22.376	0.002
-0.001	5000	5.012	47.098	23.379	47.099	-0.001	23.379	0.000	47.100	-0.002	23.379	0.000
-0.001	5200	5.030	47.295	24.383	47.296	-0.001	24.383	-0.000	47.297	-0.002	24.384	-0.001
-0.001	5400	5.052	47.485	25.391	47.486	-0.001	25.392	-0.001	47.488	-0.003	25.394	-0.003
0.000	5600	5.080	47.669	26.404	47.670	-0.001	26.405	-0.001	47.672	-0.003	26.407	-0.003
0.000	5800	5.113	47.848	27.424	47.849	-0.001	27.424	0.000	47.850	-0.002	27.424	-0.000
0.001	6000	5.152	48.022	28.450	48.023	-0.001	28.449	0.001	48.023	-0.001	28.446	0.004

MONOFLUOROACETYLENE (G) C 2H 1F 1 1267
 MOL. WT.= 44.020 BLOCK= 4691 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 30.000 KEY =1002
 FITS FOR NOTS RMS = 0.025721
 1 1 2 6 1 9 0 0 0 0 0 MONOFLUOROACETYLENE (G) 10J12671002
 1.7011032E+1+2.1563224E+0-4.4111663E-1+3.1084358E-2 400 6000 11J12671002
 1.0832672E+0+2.1891143E+1+7.1116409E+1+3.0000000E+1C2HF(G) 12J12671002

FITS FOR EST RMS LOW = 0.044411 RMS HIGH = 0.006190
 1 1 2 6 1 9 0 0 0 0 0 MONOFLUOROACETYLENE (G) 10C2HF
 300000+5+496794+5+183770+2+727435-3-136132+7+946379+2 4003000J126711C2HF
 300000+5+496607+5+209323+2-118373-4-626662+7+946379+230006000J126712C2HF

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DH KC/M	-----NOTS-----								-----EST-----				T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
0.000	400	13.907	59.215	1.350	59.742	-0.527	1.567	-0.217	59.897	-0.682	1.633	-0.283	40
0.000	600	15.570	65.199	4.313	65.148	0.051	4.261	0.052	65.130	0.069	4.247	0.066	60
0.000	800	16.664	69.836	7.542	69.756	0.080	7.472	0.070	69.736	0.100	7.457	0.085	80
0.000	1000	17.494	73.648	10.962	73.604	0.044	10.924	0.038	73.599	0.049	10.923	0.039	100
0.000	1200	18.139	76.897	14.528	76.882	0.015	14.522	0.006	76.887	0.010	14.532	-0.004	120
0.000	1400	18.639	79.732	18.207	79.731	0.001	18.220	-0.013	79.740	-0.008	18.234	-0.027	140
0.000	1600	19.028	82.248	21.976	82.251	-0.003	21.995	-0.019	82.258	-0.010	22.006	-0.030	160
0.000	1800	19.331	84.507	25.813	84.510	-0.003	25.830	-0.017	84.512	-0.005	25.834	-0.021	180
0.000	2000	19.570	86.557	29.704	86.556	0.001	29.715	-0.011	86.554	0.003	29.711	-0.007	200
0.000	2200	19.760	88.431	33.637	88.427	0.004	33.642	-0.005	88.421	0.010	33.630	0.007	220
0.000	2400	19.913	90.157	37.605	90.151	0.006	37.604	0.001	90.143	0.014	37.588	0.017	240
0.000	2600	20.038	91.756	41.601	91.748	0.008	41.596	0.005	91.742	0.014	41.584	0.017	260
0.000	2800	20.141	93.245	45.619	93.236	0.009	45.612	0.007	93.236	0.009	45.615	0.004	280
0.000	3000	20.226	94.638	49.656	94.629	0.009	49.648	0.008	94.638	0.000	49.679	-0.023	300
0.006	3000	20.226	94.638	49.656	94.629	0.009	49.648	0.008	94.638	0.000	49.661	-0.005	300
0.001	3200	20.297	95.945	53.708	95.937	0.008	53.702	0.006	95.944	0.001	53.709	-0.001	320
0.003	3400	20.357	97.178	57.774	97.170	0.008	57.770	0.004	97.176	0.002	57.773	0.001	340
0.003	3600	20.409	98.343	61.851	98.336	0.007	61.850	0.001	98.341	0.002	61.849	0.002	360
0.001	3800	20.453	99.447	65.937	99.441	0.006	65.939	-0.002	99.446	0.001	65.935	0.002	380
0.000	4000	20.491	100.497	70.032	100.492	0.005	70.036	-0.004	100.496	0.001	70.029	0.003	400
0.002	4200	20.524	101.498	74.133	101.493	0.005	74.138	-0.005	101.496	0.002	74.132	0.001	420
0.002	4400	20.553	102.454	78.241	102.448	0.006	78.246	-0.005	102.452	0.002	78.240	0.001	440
0.002	4600	20.579	103.368	82.354	103.362	0.006	82.359	-0.005	103.366	0.002	82.354	0.000	460
0.000	4800	20.601	104.244	86.472	104.238	0.006	86.474	-0.002	104.243	0.001	86.473	-0.001	480
0.001	5000	20.621	105.085	90.594	105.079	0.006	90.594	-0.000	105.084	0.001	90.595	-0.001	500
0.003	5200	20.639	105.895	94.721	105.888	0.007	94.717	0.004	105.893	0.002	94.721	-0.000	520
0.003	5400	20.655	106.674	98.850	106.667	0.007	98.845	0.005	106.673	0.001	98.851	-0.001	540
0.000	5600	20.669	107.425	102.982	107.418	0.007	102.978	0.004	107.424	0.001	102.983	-0.001	560
0.000	5800	20.682	108.151	107.118	108.146	0.007	107.116	0.002	108.149	0.002	107.117	0.001	580
0.004	6000	20.694	108.852	111.255	108.647	0.005	111.263	-0.008	108.851	0.001	111.254	0.001	600

POTASSIUM MONOXIDE UNINEG. ION (G) K 10 1- 1 1267
 MOL. WT.= 55.100 BLOCK= 4698 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = -33.000 KEY =1003
 FITS FOR NOTS RMS = 0.001730
 1 -1 1 8 1 19 0 0 0 0 0 POTASSIUM MONOXIDE UNINEG. ION (G) 10J12671003
 +8.9512948E+0+2.1586763E-1+7.3340255E-4-2.6898880E-5 400 6000 11J12671003
 -4.6707153E-2-3.5829391E+1+6.4587936E+1-3.3000000E+1KO-(G) 12J12671003

FITS FOR EST RMS LOW = 0.000583 RMS HIGH = 0.003273
 1 -1 1 8 1 19 0 0 0 0 0 POTASSIUM MONOXIDE UNINEG. ION (G) 10KO-
 -330000+5+250169+5+894217+1+220624-3-433280+5+750749+2 4003000J126711KO-
 -330000+5+250193+5+901669+1+209778-3-519120+6+750749+230006000J126712KO-

-----NOTS-----								-----EST-----				
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.283	400	8.776	56.614	0.885	56.618	-0.004	0.885	-0.000	56.617	-0.003	0.886	-0.001
0.066	600	8.956	60.211	2.660	60.210	0.001	2.658	0.002	60.211	-0.000	2.660	-0.000
0.085	800	9.051	62.802	4.462	62.800	0.002	4.459	0.003	62.802	0.000	4.462	0.000
0.039	1000	9.119	64.829	6.279	64.828	0.001	6.277	0.002	64.829	-0.000	6.279	0.000
-0.004	1200	9.177	66.497	8.109	66.496	0.001	8.107	0.002	66.497	0.000	8.109	0.000
-0.027	1400	9.229	67.915	9.949	67.915	0.000	9.948	0.001	67.915	-0.000	9.949	-0.000
-0.030	1600	9.278	69.151	11.800	69.150	0.001	11.799	0.001	69.151	-0.000	11.800	-0.000
-0.021	1800	9.326	70.246	13.661	70.246	-0.000	13.660	0.001	70.247	-0.001	13.661	0.000
-0.007	2000	9.373	71.231	15.530	71.231	-0.000	15.530	-0.000	71.232	-0.001	15.530	-0.000
0.007	2200	9.419	72.127	17.410	72.127	-0.000	17.409	0.001	72.127	-0.000	17.410	0.000
0.017	2400	9.464	72.948	19.298	72.949	-0.001	19.298	0.000	72.949	-0.001	19.298	0.000
0.017	2600	9.510	73.708	21.195	73.708	-0.000	21.196	-0.001	73.708	0.000	21.195	-0.000
0.004	2800	9.555	74.414	23.102	74.414	-0.000	23.102	-0.000	74.414	-0.000	23.102	0.000
-0.023	3000	9.599	75.075	25.017	75.075	-0.000	25.017	-0.000	75.075	0.000	25.017	0.000
-0.005	3000	9.599	75.075	25.017	75.075	-0.000	25.017	-0.000	75.075	0.000	25.019	-0.002
-0.001	3200	9.644	75.696	26.941	75.696	-0.000	26.942	-0.001	75.695	0.001	26.942	-0.001
0.001	3400	9.689	76.282	28.875	76.282	-0.000	28.875	-0.000	76.281	0.001	28.874	0.001
0.002	3600	9.733	76.837	30.817	76.837	-0.000	30.817	-0.000	76.836	0.001	30.816	0.001
0.002	3800	9.778	77.364	32.768	77.365	-0.001	32.768	-0.000	77.363	0.001	32.767	0.001
0.003	4000	9.822	77.867	34.728	77.867	-0.000	34.728	-0.000	77.866	0.001	34.727	0.001
0.001	4200	9.867	78.347	36.697	78.348	-0.001	36.697	-0.000	78.346	0.001	36.696	0.001
0.001	4400	9.911	78.807	38.675	78.808	-0.001	38.675	0.000	78.807	0.000	38.674	0.001
0.000	4600	9.955	79.249	40.661	79.249	-0.000	40.661	-0.000	79.248	0.001	40.661	-0.000
-0.001	4800	10.000	79.674	42.657	79.674	0.000	42.657	0.000	79.673	0.001	42.657	-0.000
-0.001	5000	10.044	80.083	44.661	80.083	0.000	44.661	-0.000	80.082	0.001	44.662	-0.001
-0.000	5200	10.088	80.477	46.675	80.478	-0.001	46.674	0.001	80.477	0.000	46.675	-0.000
-0.001	5400	10.133	80.859	48.697	80.859	-0.000	48.696	0.001	80.858	0.001	48.697	-0.000
-0.001	5600	10.177	81.228	50.728	81.228	-0.000	50.727	0.001	81.228	0.000	50.728	0.000
0.001	5800	10.221	81.586	52.767	81.586	-0.000	52.767	-0.000	81.585	0.001	52.767	-0.000
0.001	6000	10.265	81.933	54.816	81.934	-0.001	54.816	0.000	81.933	0.000	54.815	0.001

MA
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+4.89
+1.82

FIT
1 -1
+2130
+2130

/M	T	-----NOTS-----								-----EST-----				T
		CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		
	K	C/M K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
001	000	8.131	49.925	0.809	49.945	-0.020	0.816	-0.007	49.945	-0.020	0.818	-0.009	400	
000	000	8.564	53.315	2.484	53.311	0.004	2.480	0.004	53.312	0.003	2.482	0.002	600	
000	000	8.773	55.810	4.220	55.807	0.003	4.216	0.004	55.808	0.002	4.218	0.002	800	
000	000	8.893	57.782	5.988	57.780	0.002	5.985	0.003	57.781	0.001	5.987	0.001	1000	
000	000	8.972	59.411	7.775	59.410	0.001	7.773	0.002	59.410	0.001	7.775	0.000	1200	
000	000	9.032	60.799	9.575	60.798	0.001	9.574	0.001	60.798	0.001	9.576	-0.001	1400	
000	000	9.080	62.008	11.387	62.007	0.001	11.386	0.001	62.008	0.000	11.387	-0.000	1600	
000	000	9.121	63.080	13.207	63.079	0.000	13.207	0.000	63.079	0.001	13.207	-0.000	1800	
000	000	9.159	64.043	15.035	64.043	0.000	15.035	0.000	64.042	0.001	15.035	-0.000	2000	
000	000	9.193	64.917	16.870	64.917	-0.000	16.870	-0.000	64.917	0.000	16.870	-0.000	2200	
000	000	9.226	65.719	18.712	65.719	0.000	18.712	-0.000	65.718	0.001	18.712	0.000	2400	
000	000	9.257	66.458	20.561	66.458	-0.000	20.561	0.000	66.458	0.000	20.560	0.001	2600	
000	000	9.287	67.145	22.415	67.146	-0.001	22.415	-0.000	67.145	-0.000	22.415	0.000	2800	
002	000	9.317	67.787	24.275	67.787	-0.000	24.276	-0.001	67.787	0.000	24.276	-0.001	3000	
001	000	9.317	67.787	24.275	67.787	-0.000	24.276	-0.001	67.787	0.000	24.278	-0.003	3000	
001	000	9.346	68.389	26.142	68.390	-0.001	26.142	-0.000	68.389	0.000	26.142	-0.000	3200	
001	000	9.374	68.957	28.014	68.957	-0.000	28.014	-0.000	68.956	0.001	28.014	0.000	3400	
001	000	9.403	69.494	29.892	69.494	0.000	29.892	0.000	69.492	0.002	29.891	0.001	3600	
001	000	9.430	70.003	31.775	70.003	0.000	31.775	-0.000	70.001	0.002	31.774	0.001	3800	
001	000	9.458	70.487	33.664	70.487	-0.000	33.664	-0.000	70.486	0.001	33.663	0.001	4000	
000	000	9.486	70.949	35.558	70.949	-0.000	35.558	-0.000	70.948	0.001	35.557	0.001	4200	
000	000	9.513	71.391	37.458	71.391	-0.000	37.458	-0.000	71.390	0.001	37.458	0.000	4400	
000	000	9.540	71.815	39.363	71.815	0.000	39.363	-0.000	71.814	0.001	39.363	-0.000	4600	
001	000	9.567	72.221	41.274	72.221	-0.000	41.274	0.000	72.220	0.001	41.274	-0.000	4800	
000	000	9.594	72.612	43.190	72.612	-0.000	43.190	0.000	72.611	0.001	43.191	-0.001	5000	
000	000	9.621	72.989	45.112	72.989	-0.000	45.111	0.001	72.988	0.001	45.112	-0.000	5200	
000	000	9.648	73.353	47.039	73.353	0.000	47.038	0.001	73.352	0.001	47.039	-0.000	5400	
000	000	9.675	73.704	48.971	73.704	-0.000	48.971	0.000	73.703	0.001	48.971	-0.000	5600	
001	000	9.702	74.044	50.909	74.044	-0.000	50.909	0.000	74.043	0.001	50.909	0.000	5800	
	000	9.729	74.373	52.852	74.374	-0.001	52.852	-0.000	74.372	0.001	52.851	0.001	6000	

MAGNESIUM UNIPOSITIVE ION

(G) MG 1 1

1270

MOL. WT.= 24.310 BLOCK= 4710 NO. POINT = 59

DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 213.087 KEY =1005

FITS FOR NOTS RMS = 0.001691

1 -1 1 12 0 0 0 0 0 0 0 MAGNESIUM UNIPOSITIVE ION (G) 10J12701005
+4.8908462E+0+7.9326629E-2-2.7256686E-2+3.0678184E-3 40) 6000 11J12701005
+1.8218994E-2+2.1167001E+2+4.2834274E+1+2.1308699E+2MG+ (G) 12J12701005

FITS FOR EST RMS LCW = 0.000504 RMS HIGH = 0.004979

1 -1 1 12 0 0 0 0 0 0 0 MAGNESIUM UNIPOSITIVE ION (G) 10MG+
+213086+6+134228+5+496705+1+489926-6-300000+1+483489+2 4003000J127011MG+
+213086+6+134211+5+462082+1+617697-4+159072+7+483489+230006000J127012MG+

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
09	400	4.968	38.339	0.506	38.326	0.013	0.500	0.006	38.340	-0.001	0.506	-0.000
02	600	4.968	40.353	1.500	40.354	-0.001	1.500	0.000	40.354	-0.001	1.500	0.000
02	800	4.968	41.782	2.493	41.784	-0.002	2.494	-0.001	41.783	-0.001	2.493	-0.000
01	1000	4.968	42.891	3.487	42.892	-0.001	3.487	0.000	42.891	-0.000	3.487	0.000
00	1200	4.968	43.797	4.480	43.797	0.000	4.480	0.000	43.797	0.000	4.480	-0.000
01	1400	4.968	44.563	5.474	44.562	0.001	5.473	0.001	44.563	0.000	5.474	0.000
00	1600	4.968	45.226	6.467	45.226	0.000	6.466	0.001	45.226	0.000	6.467	-0.000
00	1800	4.968	45.811	7.461	45.811	0.000	7.460	0.001	45.811	-0.000	7.461	0.000
00	2000	4.968	46.335	8.455	46.334	0.001	8.454	0.001	46.335	0.000	8.455	0.000
00	2200	4.968	46.808	9.448	46.808	-0.000	9.448	0.000	46.808	-0.000	9.448	-0.000
00	2400	4.968	47.240	10.442	47.240	-0.001	10.442	0.000	47.240	-0.000	10.442	0.000
01	2600	4.968	47.638	11.435	47.638	-0.000	11.436	-0.001	47.638	-0.000	11.435	-0.000
00	2800	4.968	48.006	12.429	48.007	-0.001	12.430	-0.001	48.006	-0.000	12.429	-0.000
01	3000	4.968	48.349	13.423	48.349	-0.000	13.423	-0.000	48.349	0.000	13.423	0.000
03	3000	4.968	48.349	13.423	48.349	-0.000	13.423	-0.000	48.349	0.000	13.421	0.002
00	3200	4.968	48.669	14.416	48.670	-0.001	14.417	-0.001	48.670	-0.001	14.417	-0.001
00	3400	4.968	48.971	15.410	48.971	-0.000	15.410	-0.000	48.972	-0.001	15.411	-0.001
01	3600	4.969	49.255	16.403	49.255	-0.000	16.404	-0.001	49.256	-0.001	16.404	-0.001
01	3800	4.969	49.523	17.397	49.524	-0.001	17.398	-0.001	49.524	-0.001	17.397	-0.000
01	4000	4.970	49.778	18.391	49.779	-0.001	18.391	-0.000	49.779	-0.001	18.391	0.000
01	4200	4.972	50.021	19.386	50.021	-0.000	19.385	0.001	50.021	-0.000	19.384	0.002
00	4400	4.975	50.252	20.380	50.252	-0.000	20.380	0.000	50.252	-0.000	20.379	0.001
00	4600	4.978	50.473	21.376	50.474	-0.001	21.375	0.001	50.474	-0.001	21.374	0.002
00	4800	4.983	50.685	22.372	50.686	-0.001	22.371	0.001	50.686	-0.001	22.371	0.001
01	5000	4.989	50.889	23.369	50.889	-0.000	23.369	0.000	50.890	-0.001	23.369	-0.000
00	5200	4.998	51.085	24.368	51.085	-0.000	24.368	0.000	51.085	-0.000	24.368	-0.000
00	5400	5.008	51.274	25.368	51.274	0.000	25.368	-0.000	51.274	-0.000	25.369	-0.001
00	5600	5.020	51.456	26.371	51.456	-0.000	26.371	-0.000	51.457	-0.001	26.372	-0.001
00	5800	5.034	51.632	27.376	51.633	-0.001	27.376	-0.000	51.633	-0.001	27.376	-0.000
01	6000	5.051	51.803	28.385	51.803	-0.000	28.384	0.001	51.803	-0.000	28.383	0.002

SO
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FIT:
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3800
4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000
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10
10

SODIUM MONOXIDE UNINEGATIVE ION (G) NA 10 1- 1 1267
 MOL. WT.= 38.990 BLOCK= 4716 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = -29.000 KEY =1006
 FITS FOR NOTS RMS = 0.001689
 -1 1 8 1 11 0 0 0 0 0 SODIUM MONOXIDE UNINEGATIVE ION (G) 10J12671006
 .9420680E+0+2.0967781E-1-1.2984385E-3+1.5063380E-4 400 6000 11J12671006
 .7642211E-2-3.1892776E+1+6.2362365E+1-2.9000000E+1NAO-(G) 12J12671006

FITS FOR EST RMS LOW = 0.000488 RMS HIGH = 0.003208
 -1 1 8 1 11 0 0 0 0 0 SODIUM MONOXIDE UNINEGATIVE ION (G) 10NAO-
 .90000+5+248901+5+893957+1+207792-3-653440+5+728139+2 4003000J126711NAO-
 .90000+5+248927+5+900963+1+197189-3-506192+6+728139+230006000J126712NAO-

/H	-----NOTS-----												T
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
.000	400	8.644	54.457	0.868	54.464	-0.007	0.870	-0.002	54.462	-0.005	0.870	-0.002	400
.000	600	8.885	58.015	2.625	58.014	0.001	2.623	0.002	58.015	0.000	2.625	0.000	600
.000	800	9.003	60.589	4.415	60.587	0.002	4.412	0.003	60.588	0.001	4.414	0.001	800
.000	1000	9.081	62.607	6.224	62.605	0.002	6.221	0.003	62.606	0.001	6.223	0.001	1000
.000	1200	9.143	64.268	8.046	64.267	0.001	8.044	0.002	64.268	0.000	8.046	-0.000	1200
.000	1400	9.197	65.682	9.880	65.681	0.001	9.879	0.001	65.681	0.001	9.880	-0.000	1400
.000	1600	9.247	66.913	11.725	66.912	0.001	11.724	0.001	66.913	0.000	11.725	0.000	1600
.000	1800	9.294	68.005	13.579	68.004	0.001	13.578	0.001	68.005	0.000	13.579	0.000	1800
.000	2000	9.339	68.986	15.442	68.986	-0.000	15.442	0.000	68.986	-0.000	15.442	0.000	2000
.000	2200	9.383	69.878	17.314	69.878	-0.000	17.314	-0.000	69.878	-0.000	17.314	-0.000	2200
.000	2400	9.427	70.697	19.195	70.697	0.000	19.195	-0.000	70.697	0.000	19.195	-0.000	2400
.000	2600	9.470	71.453	21.085	71.453	-0.000	21.085	-0.000	71.453	0.000	21.085	0.000	2600
.000	2800	9.513	72.156	22.983	72.157	-0.001	22.984	-0.001	72.156	-0.000	22.983	-0.000	2800
.000	3000	9.556	72.814	24.890	72.815	-0.001	24.891	-0.001	72.814	0.000	24.890	-0.000	3000
.002	3200	9.556	72.814	24.890	72.815	-0.001	24.891	-0.001	72.814	0.000	24.893	-0.003	3200
.001	3400	9.598	73.432	26.806	73.433	-0.001	26.806	-0.000	73.431	0.001	26.806	-0.000	3400
.001	3600	9.640	74.015	28.730	74.016	-0.001	28.730	-0.000	74.014	0.001	28.729	0.001	3600
.001	3800	9.682	74.568	30.662	74.568	0.000	30.662	-0.000	74.566	0.002	30.661	0.001	3800
.000	4000	9.724	75.092	32.602	75.093	-0.001	32.603	-0.001	75.091	0.001	32.601	0.001	4000
.002	4200	9.766	75.592	34.551	75.592	-0.000	34.552	-0.001	75.591	0.001	34.550	0.001	4200
.001	4400	9.808	76.070	36.509	76.070	0.000	36.509	0.000	76.068	0.002	36.508	0.001	4400
.002	4600	9.850	76.527	38.474	76.527	0.000	38.475	-0.001	76.526	0.001	38.474	-0.000	4600
.001	4800	9.891	76.966	40.449	76.966	0.000	40.449	0.000	76.964	0.002	40.448	0.001	4800
.000	5000	9.933	77.387	42.431	77.388	-0.001	42.431	0.000	77.386	0.001	42.431	-0.000	5000
.000	5200	9.975	77.794	44.422	77.794	0.000	44.421	0.001	77.793	0.001	44.422	-0.000	5200
.001	5400	10.016	78.186	46.421	78.186	0.000	46.420	0.001	78.185	0.001	46.421	-0.000	5400
.001	5600	10.058	78.565	48.428	78.565	0.000	48.428	0.000	78.564	0.001	48.429	-0.001	5600
.000	5800	10.099	78.931	50.444	78.931	-0.000	50.444	0.000	78.930	0.001	50.444	-0.000	5800
.002	6000	10.141	79.286	52.468	79.286	-0.000	52.468	0.000	79.285	0.001	52.468	0.000	6000
		10.182	79.631	54.500	79.631	0.000	54.500	-0.000	79.629	0.002	54.499	0.001	

1267

NO. POINT = 59

KEY = 1007

0.021013

(G) 10J12671007

11J12671007

12J12671007

0.005592

(G) 10TI+

126711TI+

126712TI+

NOTS-----EST-----													
DH	T	CP	S	H	SC	DS	HC	C	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	C/M-K	KC/M	KC/M	
0	-0.002	400	6.245	45.692	0.637	45.313	0.379	0.477	0.160	45.428	0.264	0.529	0.108
5	0.000	600	6.060	48.196	1.871	48.225	-0.029	1.901	-0.030	48.228	-0.032	1.900	-0.029
4	0.001	800	5.812	49.904	3.057	49.957	-0.053	3.102	-0.045	49.940	-0.036	3.088	-0.031
3	0.001	1000	5.633	51.180	4.200	51.211	-0.031	4.225	-0.025	51.195	-0.015	4.212	-0.012
5	-0.000	1200	5.529	52.197	5.315	52.210	-0.013	5.320	-0.005	52.199	-0.002	5.312	0.003
0	-0.000	1400	5.481	53.045	6.416	53.047	-0.002	6.407	0.009	53.041	0.004	6.405	0.011
5	0.000	1600	5.475	53.776	7.511	53.774	0.002	7.495	0.016	53.772	0.004	7.500	0.011
9	0.000	1800	5.499	54.422	8.608	54.420	0.002	8.592	0.016	54.420	0.002	8.601	0.007
2	0.000	2000	5.547	55.004	9.712	55.003	0.001	9.700	0.012	55.005	-0.001	9.711	0.001
4	-0.000	2200	5.613	55.536	10.828	55.538	-0.002	10.821	0.007	55.539	-0.003	10.831	-0.003
5	-0.000	2400	5.690	56.027	11.958	56.032	-0.005	11.957	0.001	56.032	-0.005	11.964	-0.006
5	0.000	2600	5.773	56.486	13.104	56.492	-0.006	13.108	-0.004	56.490	-0.004	13.109	-0.005
3	-0.000	2800	5.860	56.917	14.267	56.924	-0.007	14.275	-0.008	56.919	-0.002	14.268	-0.001
0	-0.000	3000	5.946	57.324	15.448	57.332	-0.008	15.456	-0.008	57.324	0.000	15.441	0.007
3	-0.003	3000	5.946	57.324	15.448	57.332	-0.008	15.456	-0.008	57.324	0.000	15.454	-0.006
5	-0.000	3200	6.029	57.711	16.646	57.718	-0.007	16.653	-0.007	57.708	0.003	16.645	0.001
9	0.001	3400	6.107	58.079	17.859	58.086	-0.007	17.865	-0.006	58.075	0.004	17.857	0.002
1	0.001	3600	6.179	58.430	19.088	58.436	-0.006	19.091	-0.003	58.427	0.003	19.086	0.002
1	0.001	3800	6.243	58.766	20.330	58.771	-0.005	20.330	-0.000	58.763	0.003	20.329	0.001
0	0.001	4000	6.300	59.087	21.585	59.092	-0.005	21.582	0.003	59.085	0.002	21.585	0.000
3	0.001	4200	6.351	59.396	22.850	59.400	-0.004	22.846	0.004	59.394	0.002	22.851	-0.001
4	-0.000	4400	6.394	59.692	24.125	59.697	-0.005	24.119	0.006	59.690	0.002	24.126	-0.001
3	0.001	4600	6.432	59.978	25.407	59.982	-0.004	25.403	0.004	59.975	0.003	25.408	-0.001
1	-0.000	4800	6.463	60.252	26.697	60.257	-0.005	26.694	0.003	60.249	0.003	26.697	-0.000
2	-0.000	5000	6.490	60.516	27.992	60.521	-0.005	27.992	0.000	60.514	0.002	27.992	-0.000
1	-0.000	5200	6.513	60.771	29.293	60.777	-0.006	29.295	-0.002	60.769	0.002	29.292	0.001
9	-0.001	5400	6.533	61.018	30.597	61.023	-0.005						

1267

NO. POINT = 32

1.706 KEY =1008

0.000579

(C) 30J12671008

31J12671008

32J12671008

0.000573

(C) 302RS

1267312RS

126732ZRS

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T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	5.999	12.897	0.605	12.894	0.003	0.604	0.001	12.899	-0.002	0.606	-0.001
500	6.221	15.372	1.827	15.372	-0.000	1.827	-0.000	15.372	-0.000	1.827	-0.000
600	6.443	17.192	3.094	17.192	-0.000	3.094	0.000	17.192	0.000	3.094	0.000
700	6.665	18.653	4.404	18.653	-0.000	4.404	-0.000	18.653	-0.000	4.404	-0.000
800	6.886	19.888	5.760	19.888	0.000	5.759	0.001	19.888	-0.000	5.760	0.000
900	7.108	20.966	7.159	20.966	-0.000	7.159	-0.000	20.966	-0.000	7.159	-0.000
1000	7.330	21.930	8.603	21.930	-0.000	8.603	-0.000	21.930	-0.000	8.603	0.000
1100	7.552	22.806	10.091	22.806	-0.000	10.092	-0.001	22.806	-0.000	10.091	-0.000
1200	7.774	23.613	11.624	23.614	-0.001	11.624	-0.000	23.613	-0.000	11.624	0.000
1300	7.995	24.365	13.201	24.365	0.000	13.201	0.000	24.365	0.000	13.201	0.000
1400	8.217	25.070	14.822	25.070	0.000	14.822	0.000	25.070	0.000	14.822	0.000
1500	8.439	25.736	16.487	25.736	-0.000	16.487	-0.000	25.736	-0.000	16.487	-0.000
1600	8.661	26.370	18.197	26.370	0.000	18.197	-0.000	26.370	0.000	18.197	-0.000
1700	8.883	26.975	19.952	26.975	-0.000	19.952	0.000	26.975	0.000	19.952	0.000

	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
000	5.999	12.897	0.605	12.894	0.003	0.604	0.001	12.899	-0.002	0.606	-0.001
000	6.221	15.372	1.827	15.372	-0.000	1.827	-0.000	15.372	-0.000	1.827	-0.000
000	6.443	17.192	3.094	17.192	-0.000	3.094	0.000	17.192	0.000	3.094	0.000
000	6.665	18.653	4.404	18.653	-0.000	4.404	-0.000	18.653	-0.000	4.404	-0.000
000	6.886	19.888	5.760	19.888	0.000	5.759	0.001	19.888	-0.000	5.760	0.000
000	7.108	20.966	7.159	20.966	-0.000	7.159	-0.000	20.966	-0.000	7.159	-0.000
000	7.330	21.930	8.603	21.930	-0.000	8.603	-0.000	21.930	-0.000	8.603	0.000
000	7.552	22.806	10.091	22.806	-0.000	10.092	-0.001	22.806	-0.000	10.091	-0.000
000	7.774	23.613	11.624	23.614	-0.001	11.624	-0.000	23.613	-0.000	11.624	0.000
000	7.995	24.365	13.201	24.365	0.000	13.201	0.000	24.365	0.000	13.201	0.000
000	8.217	25.070	14.822	25.070	0.000	14.822	0.000	25.070	0.000	14.822	0.000
000	8.439	25.736	16.487	25.736	-0.000	16.487	-0.000	25.736	-0.000	16.487	-0.000
000	8.661	26.370	18.197	26.370	0.000	18.197	-0.000	26.370	0.000	18.197	-0.000
000	8.883	26.975	19.952	26.975	-0.000	19.952	0.000	26.975	0.000	19.952	0.000

ZIRCONIUM UNIPOSITIVE ION (G) ZR 1 1 1270
 MOL. WT.= 91.220 BLOCK= 4731 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 307.604 KEY =1009
 FITS FOR NOTS RMS = 0.012189
 1 -1 1 40 0 0 0 0 0 0 0 ZIRCONIUM UNIPOSITIVE ION (G) 10J12701009
 +7.1343860E+0-2.8137421E-1+2.9095128E-2+2.3166666E-4 400 6000 11J12701009
 -2.3611450E-1+3.0497583E+2+5.2016540E+1+3.0760375E+2ZR+ (G) 12J12701009

FITS FOR EST RMS LCW = 0.012269 RMS HIGH = 0.003651
 1 -1 1 40 0 0 0 0 0 0 0 ZIRCONIUM UNIPOSITIVE ION (G) 10ZR+
 +307603+6+178613+5+690102+1-113175-3-161808+6+591609+2 4003000J127011ZR+
 +307603+6+178575+5+604753+1+659568-4+257456+7+591609+230006000J127012ZR+

---				-----NOTS-----				-----EST-----				
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.001	400	6.759	45.854	0.690	46.107	-0.253	0.794	-0.104	46.047	-0.193	0.769	-0.079
-0.000	600	6.576	48.561	2.023	48.536	0.025	1.998	0.025	48.542	0.019	2.004	0.019
0.000	800	6.498	50.438	3.328	50.393	0.045	3.290	0.038	50.406	0.032	3.300	0.028
-0.000	1000	6.535	51.891	4.630	51.868	0.023	4.612	0.018	51.878	0.013	4.620	0.010
0.000	1200	6.601	53.088	5.944	53.083	0.005	5.944	-0.000	53.089	-0.001	5.948	-0.004
-0.000	1400	6.652	54.110	7.270	54.112	-0.002	7.280	-0.010	54.115	-0.005	7.280	-0.010
0.000	1600	6.674	55.000	8.603	55.003	-0.003	8.615	-0.012	55.004	-0.004	8.612	-0.009
-0.000	1800	6.673	55.786	9.938	55.788	-0.002	9.946	-0.008	55.788	-0.002	9.942	-0.004
0.000	2000	6.655	56.488	11.271	56.487	0.001	11.275	-0.004	56.487	0.001	11.270	0.001
0.000	2200	6.628	57.121	12.599	57.118	0.003	12.599	0.000	57.119	0.002	12.596	0.003
0.000	2400	6.599	57.697	13.922	57.693	0.004	13.919	0.003	57.694	0.003	13.918	0.004
-0.000	2600	6.571	58.224	15.239	58.219	0.005	15.234	0.005	58.222	0.002	15.236	0.003
-0.000	2800	6.546	58.710	16.550	58.705	0.005	16.546	0.004	58.709	0.001	16.551	-0.001
0.000	3000	6.526	59.161	17.858	59.156	0.005	17.854	0.004	59.161	0.000	17.861	-0.003
	3000	6.526	59.161	17.858	59.156	0.005	17.854	0.004	59.161	0.000	17.858	0.000
	3200	6.509	59.581	19.161	59.578	0.003	19.159	0.002	59.582	-0.001	19.162	-0.001
	3400	6.496	59.975	20.461	59.972	0.003	20.461	0.000	59.976	-0.001	20.462	-0.001
	3600	6.486	60.346	21.759	60.344	0.002	21.760	-0.001	60.347	-0.001	21.760	-0.001
	3800	6.479	60.697	23.056	60.694	0.003	23.058	-0.002	60.697	-0.000	23.056	0.000
	4000	6.474	61.029	24.351	61.026	0.003	24.353	-0.002	61.029	-0.000	24.350	0.001
	4200	6.471	61.345	25.646	61.342	0.003	25.648	-0.002	61.345	-0.000	25.645	0.001
	4400	6.470	61.646	26.940	61.643	0.003	26.941	-0.001	61.646	-0.000	26.939	0.001
	4600	6.471	61.933	28.234	61.931	0.002	28.235	-0.001	61.934	-0.001	28.233	0.001
	4800	6.474	62.209	29.528	62.206	0.003	29.528	-0.000	62.209	-0.000	29.528	0.000
	5000	6.478	62.473	30.823	62.470	0.003	30.823	0.000	62.474	-0.001	30.824	-0.001
	5200	6.484	62.727	32.120	62.724	0.003	32.118	0.002	62.728	-0.001	32.120	-0.000
	5400	6.492	62.972	33.417	62.969	0.003	33.415	0.002	62.973	-0.001	33.418	-0.001
	5600	6.501	63.209	34.716	63.205	0.004	34.715	0.001	63.209	-0.000	34.717	-0.001
	5800	6.512	63.437	36.018	63.434	0.003	36.017	0.001	63.437	-0.000	36.018	0.000
	6000	6.524	63.658	37.321	63.655	0.003	37.323	-0.002	63.658	0.000	37.320	0.001

ALL
MO
DATE
PIT:
1 - 1
+1.489
-1.778

FIT:
1 -1
+11000
+11000

-----EST-----

M	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
79	400	8.582	58.489	0.862	58.502	-0.013	0.866	-0.004	58.493	-0.004	0.864	-0.002	400
19	600	8.815	62.021	2.605	62.021	0.000	2.604	0.001	62.020	0.001	2.605	0.000	600
28	800	8.918	64.572	4.380	64.570	0.002	4.377	0.003	64.571	0.001	4.379	0.001	800
10	1000	8.979	66.569	6.170	66.567	0.002	6.167	0.003	66.569	0.000	6.170	0.000	1000
04	1200	9.023	68.210	7.970	68.208	0.002	7.968	0.002	68.210	0.000	7.970	-0.000	1200
10	1400	9.058	69.604	9.778	69.603	0.001	9.776	0.002	69.603	0.001	9.778	-0.000	1400
09	1600	9.088	70.815	11.593	70.815	0.000	11.592	0.001	70.815	0.000	11.593	0.000	1600
04	1800	9.116	71.887	13.414	71.887	-0.000	13.413	0.001	71.887	-0.000	13.413	0.001	1800
01	2000	9.142	72.849	15.239	72.849	-0.000	15.240	-0.001	72.849	0.000	15.239	-0.000	2000
03	2200	9.167	73.722	17.070	73.722	-0.000	17.071	-0.001	73.721	0.001	17.070	-0.000	2200
04	2400	9.192	74.521	18.906	74.521	0.000	18.907	-0.001	74.520	0.001	18.906	-0.000	2400
03	2600	9.216	75.257	20.747	75.257	-0.000	20.748	-0.001	75.257	0.000	20.747	-0.000	2600
01	2800	9.240	75.941	22.593	75.941	-0.000	22.593	-0.000	75.941	0.000	22.593	0.000	2800
03	3000	9.264	76.579	24.443	76.579	-0.000	24.443	-0.000	76.579	0.000	24.443	0.000	3000
00	3000	9.264	76.579	24.443	76.579	-0.000	24.443	-0.000	76.579	0.000	24.440	0.003	3000
01	3200	9.289	77.178	26.298	77.178	-0.000	26.298	-0.000	77.179	-0.001	26.300	-0.002	3200
01	3400	9.315	77.742	28.159	77.742	0.000	28.159	0.000	77.743	-0.001	28.161	-0.002	3400
01	3600	9.343	78.275	30.025	78.275	-0.000	30.025	0.000	78.276	-0.001	30.026	-0.001	3600
00	3800	9.373	78.781	31.896	78.781	-0.000	31.896	-0.000	78.782	-0.001	31.896	-0.000	3800
01	4000	9.405	79.263	33.774	79.263	0.000	33.774	0.000	79.263	0.000	33.773	0.001	4000
01	4200	9.440	79.722	35.658	79.723	-0.001	35.659	-0.001	79.722	-0.001	35.656	0.002	4200
01	4400	9.477	80.162	37.550	80.163	-0.001	37.550	-0.000	80.162	-0.000	37.548	0.002	4400
00	4600	9.518	80.585	39.449	80.585	0.000	39.450	-0.001	80.585	0.000	39.448	0.001	4600
01	4800	9.563	80.991	41.357	80.991	0.000	41.358	-0.001	80.991	0.000	41.357	0.000	4800
00	5000	9.611	81.382	43.275	81.382	0.000	43.275	0.000	81.382	-0.000	43.275	-0.000	5000
01	5200	9.662	81.760	45.202	81.760	0.000	45.202	0.000	81.761	-0.001	45.203	-0.001	5200
01	5400	9.716	82.126	47.140	82.125	0.001	47.139	0.001	82.126	-0.000	47.141	-0.001	5400
01	5600	9.773	82.480	49.088	82.480	0.000	49.088	0.000	82.481	-0.001	49.090	-0.002	5600
00	5800	9.833	82.824	51.049	82.824	0.000	51.049	0.000	82.824	-0.000	51.049	-0.000	5800
01	6000	9.896	83.158	53.022	83.158	-0.000	53.023	-0.001	83.158	-0.000	53.019	0.003	6000

ALUMINUM DICHLORIDE UNIPOS. ION (G) AL 1CL 2 1

668

MOL. WT.= 97.880 BLOCK= 4743 NO. POINT = 59

DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 110.000 KEY =1011

PITS FOR NOTS RMS = 0.002461

1 -1 1 13 2 17 0 0 0 0 0 ALUMINUM DICHLORIDE UNIPOS. ION (G) 10J 6681011
 +1.4892128E+1+1.0536596E-2-3.2750777E-3+3.1740684E-4 400 6000 11J 6681011
 -1.7781066E-1+1.0498608E+2+8.0049804E+1+1.1000000E+2ALCL2+ (G) 12J 6681011

PITS FOR EST RMS LOW = 0.000734 RMS HIGH = 0.004600

1 -1 1 13 2 17 0 0 0 0 0 ALUMINUM DICHLORIDE UNIPOS. ION (G) 10ALCL2+
 +110000+6+397452+5+148946+2+266294-5-177056+6+964399+2 4003000J 66811ALCL2+
 +110000+6+397485+5+150059+2-149456-4-846592+6+964399+230006000J 66812ALCL2+

M	-----NOTS-----								-----EST-----			
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
02	400	13.882	66.951	1.385	66.964	-0.013	1.388	-0.003	66.965	-0.014	1.391	-0.006
00	600	14.410	72.698	4.224	72.695	0.003	4.219	0.005	72.698	0.000	4.223	0.001
01	800	14.617	76.876	7.129	76.873	0.003	7.125	0.004	76.875	0.001	7.128	0.001
00	1000	14.718	80.150	10.064	80.148	0.002	10.060	0.004	80.150	0.000	10.063	0.001
00	1200	14.773	82.839	13.013	82.837	0.002	13.011	0.002	82.839	0.000	13.013	-0.000
00	1400	14.808	85.119	15.972	85.118	0.001	15.970	0.002	85.119	-0.000	15.972	0.000
00	1600	14.830	87.098	18.936	87.097	0.001	18.934	0.002	87.098	-0.000	18.936	0.000
01	1800	14.845	88.845	21.903	88.845	0.000	21.902	0.001	88.846	-0.001	21.903	-0.000
00	2000	14.856	90.410	24.873	90.410	0.000	24.873	0.000	90.410	-0.000	24.873	-0.000
00	2200	14.864	91.826	27.846	91.826	-0.000	27.845	0.001	91.827	-0.001	27.845	0.001
00	2400	14.871	93.120	30.819	93.120	-0.000	30.819	-0.000	93.120	-0.000	30.819	0.000
00	2600	14.876	94.310	33.794	94.311	-0.001	33.794	0.000	94.311	-0.001	33.793	0.001
00	2800	14.879	95.413	36.769	95.413	-0.000	36.770	-0.001	95.413	-0.000	36.769	0.000
00	3000	14.883	96.440	39.745	96.440	-0.000	39.746	-0.001	96.440	0.000	39.745	-0.000
03	3000	14.883	96.440	39.745	96.440	-0.000	39.746	-0.001	96.440	0.000	39.749	-0.004
02	3200	14.885	97.400	42.722	97.401	-0.001	42.723	-0.001	97.400	0.000	42.723	-0.001
02	3400	14.887	98.303	45.699	98.303	-0.000	45.700	-0.001	98.302	0.001	45.699	0.000
01	3600	14.889	99.154	48.677	99.154	-0.000	48.678	-0.001	99.153	0.001	48.676	0.001
00	3800	14.891	99.959	51.655	99.959	-0.000	51.656	-0.001	99.958	0.001	51.653	0.002
01	4000	14.892	100.723	54.633	100.723	0.000	54.634	-0.001	100.721	0.002	54.632	0.001
02	4200	14.893	101.449	57.612	101.449	-0.000	57.612	-0.000	101.448	0.001	57.611	0.001
02	4400	14.894	102.142	60.590	102.142	-0.000	60.591	-0.001	102.141	0.001	60.590	0.000
01	4600	14.895	102.804	63.569	102.804	-0.000	63.569	-0.000	102.803	0.001	63.569	-0.000
00	4800	14.895	103.438	66.548	103.438	-0.000	66.548	-0.000	103.437	0.001	66.548	-0.001
00	5000	14.896	104.046	69.528	104.046	-0.000	69.527	0.001	104.045	0.001	69.528	0.000
01	5200	14.897	104.630	72.507	104.630	-0.000	72.506	0.001	104.630	0.000	72.507	-0.000
01	5400	14.897	105.193	75.486	105.193	0.000	75.486	0.000	105.192	0.001	75.487	-0.001
02	5600	14.898	105.734	78.466	105.734	-0.000	78.465	0.001	105.734	0.000	78.466	0.000
00	5800	14.898	106.257	81.445	106.257	-0.000	81.445	-0.000	106.256	0.001	81.445	0.000
03	6000	14.898	106.762	84.425	106.762	-0.000	84.425	-0.000	106.761	0.001	84.424	0.001

ALUMINUM MONOFLUORIDE UNIPOS. ION(G) AL 1F 1 1 668
 MOL. WT.= 45.970 BLOCK= 4755 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 161.000 KEY =1013
 FITS FOR NOTS RMS = 0.001769
 1 -1 1 9 1 13 0 0 0 0 0 ALUMINUM MONOFLUORIDE UNIPOS. ION(G) 10J 6681013
 +8.8025636E+0+2.6491069E-1-5.2606243E-2+6.5848454E-3 40J 6000 11J 6681013
 -1.3391113E-1+1.5793621E+2+6.2835617E+1+1.6100000E+2ALF+(G) 12J 6681013

FITS FOR EST RMS LOW = 0.001018 RMS HIGH = 0.008824
 1 -1 1 9 1 13 0 0 0 0 0 ALUMINUM MONOFLUORIDE UNIPOS. ION(G) 10ALF+
 +161000+6+242401+5+891871+1+129108-3-156160+6+731309+2 40C3000J 66811ALF+
 +161000+6+242364+5+799028+1+297834-3+393603+7+731309+230006000J 66812ALF+

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.005	400	8.144	55.283	0.811	55.290	-0.007	0.812	-0.001	55.304	-0.021	0.819	-0.008	
0.001	600	8.569	58.677	2.488	58.675	0.002	2.485	0.003	58.675	0.002	2.486	0.002	
0.001	800	8.772	61.173	4.224	61.172	0.001	4.222	0.002	61.172	0.001	4.222	0.002	
0.001	1000	8.887	63.144	5.991	63.143	0.001	5.989	0.002	63.144	0.000	5.990	0.001	
-0.000	1200	8.963	64.772	7.776	64.771	0.001	7.775	0.001	64.772	0.000	7.777	-0.001	
-0.000	1400	9.019	66.158	9.575	66.157	0.001	9.573	0.002	66.158	-0.000	9.575	-0.000	
0.000	1600	9.065	67.365	11.383	67.365	0.000	11.382	0.001	67.366	-0.001	11.384	-0.001	
-0.000	1800	9.104	68.435	13.200	68.435	0.000	13.199	0.001	68.436	-0.001	13.201	-0.001	
0.000	2000	9.139	69.396	15.025	69.396	0.000	15.024	0.001	69.396	-0.000	15.025	0.000	
-0.000	2200	9.171	70.269	16.856	70.269	0.000	16.856	0.000	70.269	0.000	16.856	0.000	
-0.000	2400	9.202	71.068	18.693	71.068	-0.000	18.693	-0.000	71.068	-0.000	18.693	0.000	
-0.000	2600	9.231	71.806	20.536	71.806	0.000	20.537	-0.001	71.806	0.000	20.536	-0.000	
-0.000	2800	9.259	72.491	22.385	72.491	-0.000	22.386	-0.001	72.491	-0.000	22.385	-0.000	
0.000	3000	9.287	73.131	24.240	73.131	0.000	24.240	-0.001	73.131	0.000	24.240	-0.000	
-0.003	3000	9.287	73.131	24.240	73.131	0.000	24.240	-0.001	73.131	0.000	24.236	0.004	
-0.001	3200	9.315	73.731	26.100	73.731	-0.000	26.101	-0.001	73.733	-0.002	26.101	-0.001	
0.001	3400	9.343	74.296	27.966	74.297	-0.001	27.966	-0.000	74.299	-0.003	27.968	-0.002	
0.002	3600	9.372	74.831	29.837	74.831	-0.000	29.838	-0.001	74.833	-0.002	29.839	-0.002	
0.002	3800	9.402	75.339	31.715	75.339	0.000	31.715	0.000	75.340	-0.001	31.715	-0.000	
0.002	4000	9.434	75.822	33.598	75.822	-0.000	33.598	-0.000	75.823	-0.001	33.597	0.001	
0.001	4200	9.468	76.283	35.488	76.283	-0.000	35.488	-0.000	76.284	-0.001	35.486	0.002	
0.000	4400	9.504	76.724	37.386	76.724	-0.000	37.385	0.000	76.725	-0.001	37.383	0.003	
0.001	4600	9.543	77.147	39.290	77.148	-0.001	39.290	-0.000	77.149	-0.002	39.288	0.002	
-0.000	4800	9.585	77.554	41.203	77.555	-0.001	41.203	0.000	77.556	-0.002	41.202	0.001	
-0.001	5000	9.630	77.947	43.124	77.947	0.000	43.124	-0.000	77.948	-0.001	43.125	-0.001	
-0.001	5200	9.679	78.325	45.055	78.325	-0.000	45.055	0.000	78.327	-0.002	45.057	-0.002	
-0.000	5400	9.732	78.692	46.996	78.692	0.000	46.996	0.000	78.694	-0.002	46.998	-0.002	
-0.001	5600	9.788	79.047	48.948	79.047	0.000	48.948	0.000	79.048	-0.001	48.950	-0.002	
0.000	5800	9.848	79.391	50.912	79.391	-0.000	50.912	0.000	79.393	-0.002	50.912	0.000	
0.001	6000	9.911	79.726	52.888	79.726	-0.000	52.888	-0.000	79.727	-0.001	52.884	0.004	

ALUMINUM MONOXIDE UNIPOSITIVE ION(G) AL 10 1 1 670
 MOL. WT.= 42.980 BLOCK= 4773 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 239.000 KEY =1016
 FITS FOR NOTS RMS = 0.090786
 -1 1 8 1 13 0 0 0 0 0 ALUMINUM MONOXIDE UNIPOSITIVE ION(G) 10J 6701016
 1.7575927E+1-5.4587173E+0+1.2285737E+0-9.0611577E-2 400 6000 11J 6701016
 7.6596069E-1+2.3076161E+2+6.8039215E+1+2.3900000E+2ALO+ (G) 12J 6701016

FITS FOR EST RMS LOW = 0.136558 RMS HIGH = 0.003166
 -1 1 8 1 13 0 0 0 0 0 ALUMINUM MONOXIDE UNIPOSITIVE ION(G) 10ALO+
 39000+6+292939+5+140406+2-161969-2-105440+6+756979+2 4003000J 67011ALO+
 239000+6+293721+5+876798+1+122560-3+528556+7+756979+230006000J 67012ALO+

T C/M	-----NOTS-----								-----EST-----				T K
	K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
.027	400	8.271	53.382	0.805	52.241	1.141	0.296	0.509	51.942	1.440	0.176	0.629	400
.008	600	10.523	57.129	2.669	57.064	0.065	2.687	-0.018	57.128	0.001	2.734	-0.065	600
.006	800	12.590	60.470	5.001	60.726	-0.256	5.233	-0.232	60.780	-0.310	5.272	-0.271	800
.002	1000	13.141	63.365	7.599	63.548	-0.183	7.761	-0.162	63.559	-0.194	7.762	-0.163	1000
.001	1200	12.689	65.730	10.191	65.792	-0.062	10.221	-0.030	65.779	-0.049	10.196	-0.005	1200
.002	1400	11.984	67.633	12.659	67.627	0.006	12.602	0.057	67.610	0.023	12.570	0.089	1400
.001	1600	11.351	69.191	14.990	69.164	0.027	14.904	0.086	69.154	0.037	14.883	0.107	1600
.001	1800	10.863	70.498	17.209	70.477	0.021	17.131	0.078	70.480	0.018	17.133	0.076	1800
.000	2000	10.504	71.623	19.344	71.616	0.007	19.293	0.051	71.632	-0.009	19.320	0.024	2000
.001	2200	10.243	72.611	21.417	72.619	-0.008	21.397	0.020	72.644	-0.033	21.443	-0.026	2200
.001	2400	10.054	73.494	23.446	73.513	-0.019	23.452	-0.006	73.540	-0.046	23.502	-0.056	2400
.000	2600	9.915	74.293	25.442	74.319	-0.026	25.466	-0.024	74.339	-0.046	25.497	-0.055	2600
.001	2800	9.814	75.024	27.414	75.053	-0.029	27.447	-0.033	75.054	-0.030	27.428	-0.014	2800
.003	3000	9.740	75.698	29.369	75.728	-0.030	29.403	-0.034	75.698	0.000	29.294	0.075	3000
.000	3200	9.740	75.698	29.369	75.728	-0.030	29.403	-0.034	75.698	0.000	29.372	-0.003	3200
.001	3400	9.685	76.325	31.311	76.353	-0.028	31.339	-0.028	76.324	0.001	31.312	-0.001	3400
.001	3600	9.646	76.911	33.244	76.936	-0.025	33.262	-0.018	76.909	0.002	33.243	0.001	3600
.001	3800	9.618	77.461	35.170	77.483	-0.022	35.177	-0.007	77.460	0.001	35.169	0.001	3800
.001	4000	9.599	77.981	37.092	77.999	-0.018	37.088	0.004	77.979	0.002	37.091	0.001	4000
.001	4200	9.587	78.473	39.010	78.489	-0.016	38.997	0.013	78.471	0.002	39.009	0.001	4200
.001	4400	9.580	78.940	40.927	78.956	-0.016	40.909	0.018	78.939	0.001	40.927	0.000	4400
.001	4600	9.578	79.386	42.843	79.401	-0.015	42.824	0.019	79.385	0.001	42.843	0.000	4600
.000	4800	9.580	79.812	44.759	79.827	-0.015	44.743	0.016	79.811	0.001	44.759	0.000	4800
.001	5000	9.585	80.220	46.675	80.237	-0.017	46.666	0.009	80.218	0.001	46.676	-0.001	5000
.001	5200	9.592	80.611	48.593	80.630	-0.019	48.593	0.000	80.610	0.001	48.593	-0.000	5200
.001	5400	9.601	80.987	50.512	81.008	-0.021	50.521	-0.009	80.986	0.001	50.513	-0.001	5400
.000	5600	9.612	81.350	52.433	81.372	-0.022	52.449	-0.016	81.349	0.001	52.434	-0.001	5600
.000	5800	9.624	81.700	54.357	81.722	-0.022	54.372	-0.015	81.699	0.001	54.357	-0.000	5800
.001	6000	9.637	82.038	56.283	82.057	-0.019	56.286	-0.003	82.036	0.002	56.283	0.000	6000
	6000	9.652	82.365	58.212	82.380	-0.015	58.187	0.025	82.363	0.002	58.212	0.000	6000

ALUMINUM DIOXIDE (G) AL 10 2 1268
 MOL. WT.= 58.980 BLOCK= 4779 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -44.000 KEY = 1017
 FITS FOR NOTS RMS = 0.006354
 2 8 1 13 0 0 0 0 0 0 ALUMINUM DIOXIDE (G) 10J12681017
 +1.4956055E+1-5.7593703E-2+6.6480003E-3+2.4585584E-3 400 6000 11J12681017
 -4.9644470E-1-4.9941970E+1+7.4543716E+1-4.4000000E+1AL02 (G) 12J12681017

FITS FOR EST RMS LOW = 0.003011 RMS HIGH = 0.005445
 2 8 1 13 0 0 0 0 0 0 ALUMINUM DIOXIDE (G) 10AL02
 -440000+5+389438+5+148029+2+345058-4-439856+6+908829+2 4003000J126811AL02
 -440000+5+389439+5+137621+2+247604-3+322944+7+908829+230006000J126812AL02

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.629	400	12.550	62.253	1.231	62.369	-0.116	1.277	-0.046	62.317	-0.064	1.257	-0.026	
-0.065	600	13.619	67.572	3.862	67.560	0.012	3.849	0.013	67.562	0.010	3.854	0.008	
-0.271	800	14.119	71.567	6.642	71.551	0.016	6.626	0.016	71.560	0.007	6.636	0.006	
-0.163	1000	14.381	74.748	9.494	74.738	0.010	9.485	0.009	74.747	0.001	9.493	0.001	
-0.005	1200	14.532	77.385	12.387	77.380	0.005	12.383	0.004	77.385	-0.000	12.388	-0.001	
0.089	1400	14.627	79.633	15.303	79.631	0.002	15.303	-0.000	79.634	-0.001	15.305	-0.002	
0.107	1600	14.690	81.590	18.236	81.590	0.000	18.237	-0.001	81.591	-0.001	18.237	-0.001	
0.076	1800	14.734	83.323	21.178	83.323	-0.000	21.181	-0.003	83.323	-0.000	21.179	-0.001	
0.024	2000	14.766	84.877	24.128	84.877	-0.000	24.131	-0.003	84.877	0.000	24.128	0.000	
-0.026	2200	14.790	86.286	27.084	86.285	0.001	27.086	-0.002	86.285	0.001	27.083	0.001	
-0.056	2400	14.809	87.573	30.044	87.573	0.000	30.045	-0.001	87.573	0.000	30.043	0.001	
-0.055	2600	14.825	88.759	33.007	88.758	0.001	33.007	-0.000	88.759	0.000	33.007	0.000	
-0.014	2800	14.840	89.859	35.974	89.857	0.002	35.973	0.001	89.858	0.001	35.974	0.000	
0.075	3000	14.855	90.883	38.943	90.881	0.002	38.942	0.001	90.883	0.000	38.944	-0.001	
-0.003	3000	14.855	90.883	38.943	90.881	0.002	38.942	0.001	90.883	0.000	38.944	-0.001	
-0.001	3200	14.871	91.842	41.916	91.841	0.001	41.915	0.001	91.842	-0.000	41.917	-0.001	
0.001	3400	14.888	92.744	44.892	92.743	0.001	44.891	0.001	92.744	-0.000	44.892	-0.000	
0.001	3600	14.908	93.596	47.871	93.595	0.001	47.871	-0.000	93.595	0.001	47.871	0.000	
0.001	3800	14.930	94.402	50.855	94.401	0.001	50.856	-0.001	94.402	0.000	50.854	0.001	
0.001	4000	14.956	95.169	53.844	95.168	0.001	53.845	-0.001	95.168	0.001	53.842	0.002	
0.000	4200	14.984	95.899	56.837	95.898	0.001	56.839	-0.002	95.899	0.000	56.836	0.001	
0.000	4400	15.016	96.597	59.837	96.596	0.001	59.839	-0.002	96.596	0.001	59.836	0.001	
0.000	4600	15.050	97.265	62.844	97.264	0.001	62.845	-0.001	97.265	0.000	62.843	0.001	
-0.001	4800	15.087	97.907	65.858	97.906	0.001	65.858	-0.000	97.906	0.001	65.858	0.000	
-0.000	5000	15.127	98.523	68.879	98.522	0.001	68.879	0.000	98.523	-0.000	68.880	-0.001	
-0.001	5200	15.168	99.117	71.908	99.116	0.001	71.907	0.001	99.117	-0.000	71.909	-0.001	
-0.001	5400	15.211	99.691	74.946	99.689	0.002	74.944	0.002	99.690	0.001	74.947	-0.001	
-0.000	5600	15.255	100.245	77.993	100.243	0.002	77.991	0.002	100.244	0.001	77.994	-0.001	
0.000	5800	15.300	100.781	81.048	100.779	0.002	81.048	0.000	100.780	0.001	81.048	-0.000	
0.000	6000	15.346	101.300	84.113	101.299	0.001	84.116	-0.003	101.300	0.000	84.111	0.002	

ALUMINUM DIOXIDE UNINEGATIVE ION (G) AL 10 2- 1 1268
 MOL. WT.= 58.980 BLOCK= 4785 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = -145.000 KEY =1018
 FITS FOR NOTS RMS = 0.004387
 1 -1 2 8 1 13 0 0 0 0 0 ALUMINUM DIOXIDE UNINEGATIVE ION (G) 10J12681018
 1.4653810E+1+1.5683901E-1-3.5181004E-2+2.6737498E-3 400 6000 11J12681018
 1.4812622E-1-1.5102030E+2+7.0673568E+1-1.4500000E+2AL02- (G) 12J12681018

FITS FOR EST RMS LOW = 0.005884 RMS HIGH = 0.004514
 1 -1 2 8 1 13 0 0 0 0 0 ALUMINUM DIOXIDE UNINEGATIVE ION (G) 10AL02-
 145000+6+385695+5+147459+2+503709-4-563424+6+871399+2 4003000J126811AL02-
 145000+6+385703+5+149979+2-137250-4-138572+7+871399+230006000J126812AL02-

	-----NOTS-----								-----EST-----				
/M	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
026	400	12.066	58.910	1.181	59.019	-0.109	1.223	-0.042	59.027	-0.117	1.228	-0.047	400
008	600	13.255	64.055	3.727	64.037	0.018	3.711	0.016	64.038	0.017	3.713	0.014	600
006	800	13.866	67.961	6.445	67.947	0.014	6.432	0.013	67.948	0.013	6.434	0.011	800
001	1000	14.201	71.094	9.255	71.088	0.006	9.249	0.006	71.090	0.004	9.252	0.003	1000
001	1200	14.400	73.702	12.117	73.700	0.002	12.115	0.002	73.702	-0.000	12.118	-0.001	1200
002	1400	14.526	75.932	15.010	75.932	0.000	15.011	-0.001	75.933	-0.001	15.013	-0.003	1400
001	1600	14.611	77.878	17.924	77.878	0.000	17.925	-0.001	77.879	-0.001	17.927	-0.003	1600
001	1800	14.670	79.602	20.853	79.602	0.000	20.854	-0.001	79.603	-0.001	20.855	-0.002	1800
000	2000	14.713	81.150	23.791	81.150	0.000	23.792	-0.001	81.150	0.000	23.792	-0.001	2000
001	2200	14.746	82.554	26.737	82.553	0.001	26.738	-0.001	82.553	0.001	26.736	0.001	2200
001	2400	14.770	83.839	29.689	83.838	0.001	29.689	0.000	83.837	0.002	29.687	0.002	2400
000	2600	14.790	85.022	32.645	85.021	0.001	32.645	0.000	85.020	0.002	32.644	0.001	2600
000	2800	14.805	86.118	35.605	86.117	0.001	35.605	0.000	86.117	0.001	35.605	0.000	2800
001	3000	14.818	87.140	38.567	87.139	0.001	38.567	-0.000	87.140	0.000	38.570	-0.003	3000
001	3200	14.818	87.140	38.567	87.139	0.001	38.567	-0.000	87.140	0.000	38.570	-0.003	3200
001	3400	14.828	88.097	41.532	88.096	0.001	41.532	0.000	88.096	0.001	41.533	-0.001	3400
000	3600	14.837	88.996	44.498	88.995	0.001	44.499	-0.001	88.995	0.001	44.498	0.000	3600
000	3800	14.844	89.844	47.466	89.843	0.001	47.467	-0.001	89.843	0.001	47.465	0.001	3800
001	4000	14.850	90.647	50.436	90.646	0.001	50.437	-0.001	90.645	0.002	50.434	0.002	4000
002	4200	14.855	91.409	53.406	91.408	0.001	53.407	-0.001	91.407	0.002	53.405	0.001	4200
001	4400	14.860	92.134	56.378	92.133	0.001	56.379	-0.001	92.132	0.002	56.377	0.001	4400
001	4600	14.864	92.825	59.350	92.824	0.001	59.351	-0.001	92.824	0.001	59.349	0.001	4600
001	4800	14.867	93.486	62.323	93.485	0.001	62.324	-0.001	93.485	0.001	62.323	-0.000	4800
000	5000	14.870	94.119	65.297	94.118	0.001	65.297	0.000	94.117	0.002	65.297	-0.000	5000
001	5200	14.873	94.726	68.271	94.725	0.001	68.271	0.000	94.725	0.001	68.272	-0.001	5200
001	5400	14.875	95.309	71.246	95.308	0.001	71.245	0.001	95.308	0.001	71.247	-0.001	5400
001	5600	14.877	95.870	74.221	95.869	0.001	74.220	0.001	95.869	0.001	74.222	-0.001	5600
001	5800	14.879	96.412	77.197	96.411	0.001	77.196	0.001	96.410	0.002	77.197	-0.000	5800
000	6000	14.881	96.934	80.173	96.933	0.001	80.173	0.000	96.932	0.001	80.173	0.000	6000
002	6000	14.882	97.438	83.149	97.438	0.000	83.150	-0.001	97.437	0.001	83.148	0.001	6000

DIALUMINUM MONOXIDE UNIPOS. ION (G) AL 20 1 1

668

MOL. WT.= 69.960 BLCK= 4791 NO. POINT = 59

DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 146.000 KEY =1019

FITS FOR NOTS RMS = 0.003181

1 -1 1 8 2 13 0 0 0 0 0 DIALUMINUM MONOXIDE UNIPOS. ION (G) 10J 6681019
 +1.3776226E+1+8.5268557E-2-1.9425127E-2+1.4955783E-3 400 6000 11J 6681019
 -4.0681457E-1+1.4064758E+2+7.7414474E+1+1.4600000E+2AL2O+ (G) 12J 6681019

FITS FOR EST RMS LOW = 0.003315 RMS HIGH = 0.004308

1 -1 1 8 2 13 0 0 0 0 0 DIALUMINUM MONOXIDE UNIPOS. ION (G) 10AL2O+
 +146000+6+363521+5+138222+2+282422-4-413152+6+927539+2 4003000J 66811AL2O+
 +146000+6+363539+5+140072+2-142501-4-114990+7+927539+230006000J 66812AL2O+

-----NOTS-----														-----EST-----			
TH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH					
(C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M					
0.047	400	11.754	66.029	1.157	66.095	-0.066	1.182	-0.025	66.098	-0.069	1.185	-0.028					
0.014	600	12.714	71.001	3.616	70.990	0.011	3.605	0.011	70.991	0.010	3.608	0.008					
0.011	800	13.175	74.729	6.210	74.720	0.009	6.201	0.009	74.722	0.007	6.204	0.006					
0.003	1000	13.419	77.698	8.872	77.694	0.004	8.867	0.005	77.696	0.002	8.870	0.002					
0.001	1200	13.561	80.158	11.571	80.157	0.001	11.569	0.002	80.158	-0.000	11.572	-0.001					
0.003	1400	13.650	82.256	14.293	82.255	0.001	14.292	0.001	82.257	-0.001	14.295	-0.002					
0.003	1600	13.709	84.083	17.029	84.082	0.001	17.029	0.000	84.083	-0.000	17.031	-0.002					
0.002	1800	13.750	85.700	19.775	85.700	0.000	19.775	-0.000	85.700	-0.000	19.776	-0.001					
0.001	2000	13.780	87.150	22.528	87.150	0.000	22.528	-0.000	87.150	0.000	22.528	-0.000					
0.001	2200	13.802	88.465	25.286	88.464	0.001	25.286	-0.000	88.464	0.001	25.286	0.000					
0.002	2400	13.819	89.666	28.048	89.666	-0.000	28.048	-0.000	89.666	0.000	28.047	0.001					
0.001	2600	13.832	90.773	30.814	90.773	0.000	30.814	0.000	90.772	0.001	30.813	0.001					
0.000	2800	13.843	91.799	33.581	91.798	0.001	33.581	-0.000	91.798	0.001	33.581	-0.000					
0.003	3000	13.852	92.754	36.351	92.754	0.000	36.351	0.000	92.754	0.000	36.352	-0.001					
0.003	3000	13.852	92.754	36.351	92.754	0.000	36.351	0.000	92.754	0.000	36.354	-0.003					
0.001	3200	13.859	93.648	39.122	93.648	0.000	39.122	-0.000	93.647	0.001	39.123	-0.001					
0.000	3400	13.864	94.489	41.894	94.488	0.001	41.895	-0.001	94.487	0.002	41.893	0.001					
0.001	3600	13.869	95.281	44.667	95.281	0.000	44.668	-0.001	95.280	0.001	44.666	0.001					
0.002	3800	13.874	96.031	47.442	96.031	0.000	47.443	-0.001	96.030	0.001	47.440	0.002					
0.001	4000	13.877	96.743	50.217	96.743	0.000	50.218	-0.001	96.741	0.002	50.215	0.002					
0.001	4200	13.880	97.420	52.993	97.420	0.000	52.993	-0.000	97.419	0.001	52.992	0.001					
0.001	4400	13.883	98.066	55.769	98.065	0.001	55.769	-0.000	98.065	0.001	55.768	0.001					
0.000	4600	13.885	98.683	58.546	98.683	0.000	58.546	0.000	98.682	0.001	58.546	0.000					
0.000	4800	13.887	99.274	61.323	99.274	0.000	61.323	0.000	99.273	0.001	61.323	-0.000					
0.001	5000	13.889	99.841	64.101	99.840	0.001	64.100	0.001	99.840	0.001	64.101	-0.000					
0.001	5200	13.891	100.386	66.878	100.385	0.001	66.878	0.000	100.385	0.001	66.879	-0.001					
0.001	5400	13.892	100.910	69.657	100.909	0.001	69.656	0.001	100.909	0.001	69.657	-0.000					
0.000	5600	13.893	101.415	72.435	101.415	0.000	72.435	0.000	101.414	0.001	72.435	-0.000					
0.000	5800	13.894	101.903	75.214	101.902	0.001	75.214	0.000	101.902	0.001	75.214	0.000					
0.001	6000	13.895	102.374	77.993	102.373	0.001	77.993	-0.000	102.372	0.002	77.992	0.001					

DIALUMINUM DIOXIDE UNIPOS. ION (G) AL 20 2 1 668 BO
 MOL. WT.= 85.960 BLOCK= 4797 NO. POINT = 59 M
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 131.000 KEY =1020 DAT
 FITS FOR NOTS RMS = 0.005227 FIT
 -1 2 8 2 13 0 0 0 0 0 DIALUMINUM DIOXIDE UNIPOS. ION (G) 10J 6681020 1 -1
 1.9584976E+1+1.8216788E-1-4.1285667E-2+3.1633097E-3 400 6000 11J 6681020 +8.81
 1.0539550E-1+1.2237590E+2+8.3698715E+1+1.3100000E+2AL2O2+(G) 12J 6681020 -1.80

 FITS FOR EST RMS LOW = 0.006962 RMS HIGH = 0.005866 FIT
 -1 2 8 2 13 0 0 0 0 0 DIALUMINUM DIOXIDE UNIPOS. ION (G) 10AL2O2+ 1 -1
 131000+6+509476+5+196925+2+574596-4-923648+6+105655+3 4003000J 66811AL2O2+ +2950
 131000+6+509493+5+199972+2-182811-4-197529+7+105655+330006000J 66812AL2O2+ +2950

/M	-----NOTS-----												T
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
028	400	15.011	68.519	1.437	68.652	-0.133	1.487	-0.050	68.663	-0.144	1.494	-0.057	400
008	500	17.205	75.077	4.686	75.054	0.023	4.666	0.020	75.056	0.021	4.669	0.017	600
006	600	18.244	80.186	8.243	80.169	0.017	8.227	0.016	80.171	0.015	8.231	0.012	800
002	700	18.788	84.322	11.952	84.314	0.008	11.944	0.008	84.317	0.005	11.948	0.004	1000
001	800	19.102	87.777	15.744	87.775	0.002	15.741	0.003	87.778	-0.001	15.746	-0.002	1200
002	900	19.299	90.738	19.585	90.737	0.001	19.585	-0.000	90.740	-0.002	19.589	-0.004	1400
001	1000	19.429	93.324	23.459	93.323	0.001	23.460	-0.001	93.326	-0.002	23.462	-0.003	1600
000	1100	19.520	95.618	27.354	95.617	0.001	27.355	-0.001	95.619	-0.001	27.356	-0.002	1800
000	1200	19.586	97.678	31.265	97.677	0.001	31.265	-0.000	97.678	0.000	31.265	-0.000	2000
001	1300	19.635	99.547	35.187	99.546	0.001	35.187	-0.000	99.546	0.001	35.186	0.001	2200
001	1400	19.672	101.257	39.118	101.256	0.001	39.118	0.000	101.256	0.001	39.116	0.002	2400
000	1500	19.701	102.833	43.056	102.832	0.001	43.055	0.001	102.832	0.001	43.054	0.002	2600
001	1600	19.724	104.294	46.998	104.293	0.001	46.998	0.000	104.293	0.001	46.998	0.000	2800
003	1700	19.743	105.656	50.945	105.654	0.002	50.945	0.000	105.656	0.000	50.948	-0.003	3000
001	1800	19.743	105.656	50.945	105.654	0.002	50.945	0.000	105.656	0.000	50.949	-0.004	3000
001	1900	19.759	106.930	54.895	106.929	0.001	54.895	-0.000	106.930	0.000	54.896	-0.001	3200
001	2000	19.771	108.128	58.848	108.128	0.000	58.849	-0.001	108.127	0.001	58.847	0.001	3400
002	2100	19.782	109.259	62.804	109.258	0.001	62.804	-0.000	109.257	0.002	62.802	0.002	3600
002	2200	19.791	110.329	66.761	110.328	0.001	66.762	-0.001	110.327	0.002	66.759	0.002	3800
001	2300	19.799	111.344	70.720	111.343	0.001	70.721	-0.001	111.343	0.001	70.718	0.002	4000
001	2400	19.806	112.310	74.681	112.309	0.001	74.682	-0.001	112.309	0.001	74.679	0.002	4200
000	2500	19.812	113.232	78.642	113.231	0.001	78.643	-0.001	113.230	0.002	78.641	0.001	4400
000	2600	19.817	114.113	82.605	114.112	0.001	82.605	-0.000	114.111	0.002	82.605	0.000	4600
000	2700	19.821	114.956	86.569	114.955	0.001	86.569	0.000	114.955	0.001	86.569	-0.000	4800
001	2800	19.825	115.765	90.534	115.764	0.001	90.533	0.001	115.764	0.001	90.534	-0.000	5000
000	2900	19.829	116.543	94.499	116.542	0.001	94.498	0.001	116.542	0.001	94.500	-0.001	5200
000	3000	19.832	117.291	98.465	117.290	0.001	98.464	0.001	117.290	0.001	98.466	-0.001	5400
000	3100	19.835	118.013	102.432	118.011	0.002	102.431	0.001	118.012	0.001	102.432	-0.000	5600
000	3200	19.837	118.709	106.399	118.708	0.001	106.399	0.000	118.708	0.001	106.399	0.000	5800
001	3300	19.839	119.381	110.367	119.380	0.001	110.368	-0.001	119.380	0.001	110.365	0.002	6000

BORON DICHLORIDE UNINEG. ION (G) B 1CL 2- 1 1268
 MOL. WT.= 81.710 BLOCK= 4815 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = -26.000 KEY =1023
 FITS FOR NOTS RMS = 0.080754
 1 -1 1 5 2 17 0 0 0 0 BORON DICHLORIDE UNINEG. ION (G) 10J12681023
 +1.5932923E+1+7.4462676E-1+4.0671408E-1+4.1386634E-2 400 6000 11J12681023
 -1.7795867E+0-3.512617E+1+7.7044540E+1-2.6000000E+1BCL2- (G) 12J12681023

FITS FOR EST RMS LOW = 0.087504 RMS HIGH = 0.007671
 1 -1 1 5 2 17 0 0 0 0 BORON DICHLORIDE UNINEG. ION (G) 10BCL2-
 -260000+5+398665+5+163905+2-162177-3-170556+7+954519+2 400300J126811BCL2-
 -260000+5+398206+5+144323+2-411467-4+102599+8+954519+230006000J126812BCL2-

--		-----NOTS-----								-----EST-----			
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.004	400	11.707	66.865	1.152	68.273	-1.408	1.747	-0.595	68.084	-1.219	1.664	-0.512	
0.002	600	12.724	71.826	3.605	71.754	0.072	3.505	0.100	71.736	0.090	3.504	0.101	
0.000	800	13.389	75.580	6.219	75.352	0.228	6.017	0.202	75.382	0.198	6.049	0.170	
0.001	1000	14.021	78.636	8.960	78.489	0.147	8.833	0.127	78.528	0.108	8.871	0.089	
0.001	1200	14.632	81.247	11.826	81.192	0.055	11.799	0.027	81.223	0.024	11.830	-0.004	
0.000	1400	15.144	83.543	14.806	83.541	0.002	14.848	-0.042	83.560	-0.017	14.862	-0.056	
0.001	1600	15.509	85.591	17.873	85.608	-0.017	17.944	-0.071	85.614	-0.023	17.940	-0.067	
0.001	1800	15.723	87.431	20.999	87.446	-0.015	21.066	-0.067	87.442	-0.011	21.044	-0.045	
0.000	2000	15.810	89.093	24.154	89.097	-0.004	24.199	-0.045	89.087	0.006	24.166	-0.012	
0.001	2200	15.806	90.600	27.317	90.592	0.008	27.335	-0.018	90.580	0.020	27.298	0.019	
0.001	2400	15.742	91.973	30.473	91.954	0.019	30.467	0.005	91.945	0.028	30.437	0.036	
0.001	2600	15.644	93.229	33.612	93.204	0.025	33.590	0.022	93.203	0.026	33.579	0.033	
-0.001	2800	15.529	94.385	36.729	94.356	0.029	36.700	0.029	94.368	0.017	36.723	0.006	
0.002	3000	15.410	95.452	39.823	95.424	0.028	39.794	0.029	95.452	0.000	39.867	-0.044	
-0.005	3000	15.410	95.452	39.823	95.424	0.028	39.794	0.029	95.452	0.000	39.821	0.002	
-0.001	3200	15.294	96.443	42.893	96.416	0.027	42.870	0.023	96.444	-0.001	42.895	-0.002	
0.001	3400	15.185	97.367	45.941	97.343	0.024	45.927	0.014	97.368	-0.001	45.943	-0.002	
0.003	3600	15.084	98.232	48.968	98.211	0.021	48.964	0.004	98.233	-0.001	48.969	-0.001	
0.002	3800	14.994	99.045	51.976	99.027	0.018	51.981	-0.005	99.045	-0.000	51.975	0.001	
0.002	4000	14.913	99.812	54.966	99.796	0.016	54.979	-0.013	99.812	-0.000	54.964	0.002	
0.001	4200	14.841	100.538	57.941	100.522	0.016	57.958	-0.017	100.538	0.000	57.939	0.002	
0.001	4400	14.778	101.227	60.903	101.211	0.016	60.920	-0.017	101.227	0.000	60.901	0.002	
-0.001	4600	14.723	101.882	63.853	101.866	0.016	63.867	-0.014	101.883	-0.001	63.852	0.001	
-0.001	4800	14.674	102.508	66.793	102.490	0.018	66.800	-0.007	102.509	-0.001	66.793	0.000	
-0.001	5000	14.632	103.106	69.723	103.087	0.019	69.722	0.001	103.107	-0.001	69.724	-0.001	
-0.001	5200	14.595	103.679	72.646	103.658	0.021	72.637	0.009	103.680	-0.001	72.648	-0.002	
-0.000	5400	14.562	104.229	75.562	104.208	0.021	75.548	0.014	104.230	-0.001	75.564	-0.002	
0.000	5600	14.534	104.758	78.471	104.737	0.021	78.458	0.013	104.759	-0.001	78.473	-0.002	
0.001	5800	14.509	105.268	81.376	105.248	0.020	81.373	0.003	105.269	-0.001	81.375	0.001	
0.000	6000	14.487	105.760	84.275	105.744	0.016	84.297	-0.022	105.760	0.000	84.272	0.003	

BORON DIFLUORIDE UNIPOSITIVE ION (G) B 1F 2 1 1270
 MOL. WT.= 48.800 BLOCK= 4821 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 77.100 KEY =1024
 FITS FOR NOTS RMS = 0.007787
 1 -1 1 5 2 9 0 0 0 0 0 BORON DIFLUORIDE UNIPOSITIVE ION (G) 10J12701024
 1.4376572E+1+3.4012269E-1-8.4039747E-2+7.8437142E-3 400 6000 11J12701024
 5.8341064E-1+7.0818984E+1+6.8132339E+1+7.7099990E+1BF2+ (G) 12J12701024

BO
 M
 DAT
 FIT
 1 -1
 +8.47
 +2.50

FITS FOR EST RMS LOW = 0.010591 RMS HIGH = 0.005844
 1 -1 1 5 2 9 0 0 0 0 0 BORON DIFLUORIDE UNIPOSITIVE ION (G) 10BF2+
 /70999+5+380154+5+145714+2+105242-3-712976+6+846799+2 4003000J127011BF2+
 /70999+5+380119+5+143672+2+107472-3+815616+6+846799+230006000J127012BF2+

FIT
 1 -1
 -1360
 -1360

/M	-----NOTS-----								-----EST-----				T
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
512	400	11.513	57.032	1.128	57.224	-0.192	1.204	-0.076	57.235	-0.203	1.209	-0.081	400
101	600	12.747	61.955	3.564	61.927	0.028	3.539	0.025	61.926	0.029	3.540	0.024	600
170	800	13.470	65.730	6.192	65.705	0.025	6.170	0.022	65.706	0.024	6.172	0.020	800
389	1000	13.902	68.787	8.933	68.775	0.012	8.923	0.010	68.778	0.009	8.927	0.006	1000
004	200	14.172	71.347	11.743	71.343	0.004	11.741	0.002	71.347	0.000	11.746	-0.003	1200
056	400	14.349	73.546	14.596	73.545	0.001	14.598	-0.002	73.548	-0.002	14.602	-0.006	1400
067	600	14.470	75.470	17.478	75.470	-0.000	17.482	-0.004	75.473	-0.003	17.485	-0.007	1600
045	800	14.556	77.180	20.381	77.179	0.001	20.385	-0.004	77.181	-0.001	20.385	-0.004	1800
012	1000	14.619	78.717	23.299	78.716	0.001	23.301	-0.002	78.716	0.001	23.300	-0.001	2000
019	200	14.666	80.112	26.228	80.111	0.001	26.229	-0.001	80.110	0.002	26.226	0.002	2200
036	400	14.703	81.390	29.165	81.388	0.002	29.165	0.000	81.388	0.002	29.162	0.003	2400
033	600	14.732	82.568	32.109	82.566	0.002	32.108	0.001	82.566	0.002	32.106	0.003	2600
006	800	14.756	83.661	35.058	83.659	0.002	35.056	0.002	83.659	0.002	35.057	0.001	2800
044	1000	14.776	84.680	38.011	84.677	0.003	38.010	0.001	84.680	0.000	38.015	-0.004	3000
002	200	14.776	84.680	38.011	84.677	0.003	38.010	0.001	84.680	0.000	38.012	-0.001	3000
002	400	14.793	85.634	40.968	85.632	0.002	40.967	0.001	85.634	-0.000	40.969	-0.001	3200
002	600	14.808	86.531	43.928	86.529	0.002	43.927	0.001	86.531	-0.000	43.928	-0.000	3400
001	800	14.822	87.378	46.891	87.376	0.002	46.891	0.000	87.378	0.000	46.890	0.001	3600
001	1000	14.836	88.179	49.856	88.178	0.001	49.857	-0.001	88.179	-0.000	49.855	0.001	3800
002	200	14.850	88.941	52.825	88.939	0.002	52.826	-0.001	88.940	0.001	52.823	0.002	4000
002	400	14.865	89.666	55.796	89.664	0.002	55.798	-0.002	89.665	0.001	55.795	0.001	4200
002	600	14.880	90.358	58.771	90.356	0.002	58.772	-0.001	90.357	0.001	58.769	0.002	4400
001	800	14.897	91.019	61.749	91.018	0.001	61.750	-0.001	91.019	-0.000	61.747	0.002	4600
000	1000	14.914	91.654	64.730	91.652	0.002	64.730	0.000	91.654	0.000	64.729	0.001	4800
001	200	14.933	92.263	67.714	92.261	0.002	67.714	0.000	92.263	-0.000	67.715	-0.001	5000
002	400	14.954	92.849	70.703	92.847	0.002	70.702	0.001	92.849	-0.000	70.704	-0.001	5200
002	600	14.976	93.414	73.696	93.412	0.002	73.694	0.002	93.414	-0.000	73.697	-0.001	5400
002	800	14.999	93.959	76.693	93.957	0.002	76.692	0.001	93.959	-0.000	76.694	-0.001	5600
001	1000	15.023	94.486	79.696	94.484	0.002	79.695	0.001	94.486	0.000	79.695	0.001	5800
003	200	15.048	94.995	82.703	94.994	0.001	82.705	-0.002	94.995	0.000	82.700	0.003	6000

BORON DIFLUORIDE UNINEGATIVE ION (G) B 1F 2- 1 1268
 MOL. WT. = 48.800 BLOCK = 4827 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = -136.000 KEY = 1025
 FITS FOR NOTS RMS = 0.035279
 1 -1 1 5 2 9 0 0 0 0 0 BORON DIFLUORIDE UNINEGATIVE ION (G) 10J12681025
 +8.4780015E+0+5.5678520E+0-1.3420696E+0+9.9504351E-2 400 6000 11J12681025
 +2.5085449E-1-1.3819042E+2+6.6772735E+1-1.3600000E+2BF2- (G) 12J12681025

FITS FOR EST RMS LOW = 0.050720 RMS HIGH = 0.018830
 1 -1 1 5 2 9 0 0 0 0 0 BORON DIFLUORIDE UNINEGATIVE ION (G) 10BF2-
 -136000+6+381994+5+128660+2+114112-2-700976+6+876339+2 4003000J126811BF2-
 -136000+6+381492+5+171874+2-379191-3-881920+6+876339+230006000J126812BF2-

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.081	400	10.728	60.489	1.042	60.342	0.147	0.991	0.051	60.895	-0.406	1.223	-0.181	
0.024	600	12.058	65.119	3.335	65.200	-0.081	3.387	-0.052	65.123	-0.004	3.326	0.009	
0.020	800	12.762	68.694	5.824	68.727	-0.033	5.841	-0.017	68.626	0.068	5.767	0.057	
0.006	1000	13.204	71.592	8.423	71.577	0.015	8.398	0.025	71.528	0.064	8.370	0.053	
-0.003	1200	13.579	74.033	11.101	74.004	0.029	11.062	0.039	73.995	0.038	11.078	0.023	
-0.006	1400	13.959	76.154	13.855	76.132	0.022	13.824	0.031	76.142	0.012	13.864	-0.009	
-0.007	1600	14.351	78.044	16.686	78.035	0.009	16.675	0.011	78.047	-0.003	16.717	-0.031	
-0.004	1800	14.729	79.756	19.594	79.759	-0.003	19.603	-0.009	79.762	-0.006	19.629	-0.035	
-0.001	2000	15.069	81.326	22.575	81.335	-0.009	22.595	-0.020	81.325	0.001	22.597	-0.022	
0.002	2200	15.351	82.776	25.618	82.786	-0.010	25.641	-0.023	82.764	0.012	25.618	0.000	
0.003	2400	15.567	84.121	28.711	84.129	-0.008	28.729	-0.018	84.100	0.021	28.690	0.021	
0.003	2600	15.717	85.374	31.840	85.378	-0.004	31.849	-0.009	85.349	0.025	31.811	0.029	
0.001	2800	15.808	86.542	34.994	86.543	-0.001	34.993	0.001	86.524	0.018	34.981	0.013	
-0.004	3000	15.848	87.634	38.160	87.633	0.001	38.152	0.008	87.634	0.000	38.199	-0.039	
-0.001	3000	15.848	87.634	38.160	87.633	0.001	38.152	0.008	87.634	0.000	38.149	0.011	
-0.001	3200	15.849	88.657	41.330	88.654	0.003	41.318	0.012	88.661	-0.004	41.333	-0.003	
-0.000	3400	15.820	89.618	44.498	89.614	0.004	44.485	0.013	89.623	-0.005	44.504	-0.006	
0.001	3600	15.770	90.520	47.657	90.518	0.002	47.647	0.010	90.525	-0.005	47.662	-0.005	
0.001	3800	15.705	91.371	50.805	91.370	0.001	50.799	0.006	91.375	-0.004	50.806	-0.001	
0.002	4000	15.631	92.175	53.938	92.175	-0.001	53.939	-0.001	92.178	-0.003	53.936	0.002	
0.001	4200	15.552	92.936	57.057	92.938	-0.002	57.063	-0.006	92.938	-0.002	57.052	0.005	
0.002	4400	15.472	93.658	60.159	93.660	-0.002	60.169	-0.010	93.660	-0.002	60.154	0.005	
0.002	4600	15.393	94.344	63.246	94.346	-0.002	63.256	-0.010	94.346	-0.002	63.241	0.005	
0.001	4800	15.316	94.997	66.317	94.999	-0.002	66.325	-0.008	95.000	-0.003	66.314	0.002	
-0.001	5000	15.242	95.621	69.372	95.622	-0.001	69.376	-0.004	95.624	-0.003	69.373	-0.001	
-0.001	5200	15.172	96.217	72.414	96.217	-0.000	72.411	0.003	96.221	-0.004	72.417	-0.003	
-0.001	5400	15.107	96.789	75.442	96.788	0.001	75.433	0.009	96.793	-0.004	75.446	-0.004	
-0.001	5600	15.046	97.337	78.457	97.335	0.001	78.447	0.010	97.341	-0.004	78.461	-0.004	
0.001	5800	14.989	97.864	81.460	97.864	0.000	81.456	0.004	97.867	-0.003	81.461	-0.001	
0.003	6000	14.937	98.371	84.453	98.374	-0.003	84.467	-0.014	98.373	-0.002	84.446	0.007	

BORON OXIDE HYDRIDE UNIPUS. ION (G) B 1H 10 1 1 668
 MOL. WT.= 27.810 BLCK= 4833 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFCFM(KCAL/(MOLE)) = 335.000 KEY = 1026
 FITS FOR NOTS RMS = 0.012241
 1 -1 1 1 1 5 1 8 0 0 0 BORON OXIDE HYDRIDE UNIPUS. ION (G) 10J 6681026
 +1.3481564E+1+8.2913947E-1-1.7734217E-1+1.3949763E-2 400 6000 11J 6681026
 -1.0458679E+0+3.2807543E+2+6.3766845E+1+3.3500000E+2BHO+ (G) 12J 6681026

FITS FOR EST RMS LOW = 0.026346 RMS HIGH = 0.004544
 1 -1 1 1 1 5 1 8 0 0 0 BORON OXIDE HYDRIDE UNIPUS. ION (G) 10BHO+
 +335000+6+363028+5+139483+2+297462-3-112504+7+804569+2 4003000J 66811BHO+
 +335000+6+362940+5+145252+2+883824-4-152371+7+804569+230006000J 66812BHO+

-----NOTS-----												-----EST-----	
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
400	9.931	54.565	0.969	55.000	-0.435	1.145	-0.176	55.032	-0.467	1.160	-0.191	40	
600	11.273	58.857	3.095	58.799	0.058	3.044	0.051	58.794	0.063	3.042	0.053	60	
800	12.272	62.245	5.456	62.185	0.060	5.405	0.051	62.183	0.062	5.404	0.052	80	
1000	12.966	65.063	7.984	65.035	0.028	7.962	0.022	65.038	0.025	7.966	0.018	100	
1200	13.441	67.471	10.627	67.463	0.008	10.627	0.000	67.469	0.002	10.634	-0.007	120	
1400	13.770	69.569	13.350	69.570	-0.001	13.360	-0.010	69.575	-0.006	13.367	-0.017	140	
1600	14.004	71.424	16.129	71.426	-0.002	16.142	-0.013	71.430	-0.006	16.145	-0.016	160	
1800	14.175	73.084	18.948	73.085	-0.001	18.958	-0.010	73.086	-0.002	18.958	-0.010	180	
2000	14.302	74.584	21.796	74.583	0.001	21.803	-0.007	74.582	0.002	21.798	-0.002	200	
2200	14.400	75.952	24.667	75.949	0.003	24.669	-0.002	75.947	0.005	24.662	0.005	220	
2400	14.477	77.209	27.555	77.204	0.005	27.553	0.002	77.201	0.008	27.546	0.009	240	
2600	14.538	78.370	30.456	78.364	0.006	30.453	0.003	78.363	0.007	30.448	0.008	260	
2800	14.588	79.449	33.369	79.443	0.006	33.364	0.005	79.444	0.005	33.367	0.002	280	
3000	14.631	80.457	36.291	80.451	0.005	36.286	0.005	80.457	0.000	36.303	-0.012	300	
3000	14.631	80.457	36.291	80.451	0.006	36.286	0.005	80.457	0.000	36.294	-0.003	300	
3200	14.667	81.403	39.221	81.397	0.006	39.217	0.004	81.402	0.001	39.222	-0.001	320	
3400	14.699	82.293	42.158	82.287	0.006	42.155	0.003	82.292	0.001	42.158	0.000	340	
3600	14.729	83.134	45.101	83.129	0.005	45.100	0.001	83.132	0.002	45.100	0.001	360	
3800	14.756	83.931	48.049	83.926	0.005	48.050	-0.001	83.929	0.002	48.048	0.001	380	
4000	14.783	84.689	51.003	84.684	0.005	51.006	-0.003	84.687	0.002	51.002	0.001	400	
4200	14.808	85.410	53.962	85.406	0.004	53.966	-0.004	85.409	0.001	53.961	0.001	420	
4400	14.833	86.100	56.926	86.096	0.004	56.930	-0.004	86.098	0.002	56.926	0.000	440	
4600	14.857	86.760	59.895	86.755	0.005	59.898	-0.003	86.758	0.002	59.895	-0.000	460	
4800	14.881	87.393	62.869	87.388	0.005	62.870	-0.001	87.391	0.002	62.869	-0.000	480	
5000	14.905	88.001	65.848	87.996	0.005	65.847	0.001	87.999	0.002	65.848	-0.000	500	
5200	14.928	88.586	68.831	88.580	0.006	68.829	0.002	88.584	0.002	68.832	-0.001	520	
5400	14.951	89.149	71.819	89.144	0.005	71.815	0.004	89.148	0.001	71.820	-0.001	540	
5600	14.974	89.694	74.811	89.688	0.006	74.808	0.003	89.692	0.002	74.812	-0.001	560	
5800	14.997	90.219	77.809	90.214	0.005	77.808	0.001	90.218	0.001	77.808	0.001	580	
6000	15.019	90.728	80.810	90.724	0.004	80.815	-0.005	90.727	0.001	80.809	0.001	600	

BORON DIOXIDE UNINEGATIVE ION (G) B 10 2- 1
MOL. WT.= 42.810 BLOCK= 4839 NO. POINT = 59

1268

DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = -166.000 KEY =1027

FITS FOR NOTS RMS = 0.013226

1 -1 1 5 2 8 0 0 0 0 0 BORON DIOXIDE UNINEGATIVE ION (G) 10J12681027
+1.3531181E+1+8.2628548E-1-1.7992383E-1+1.3470962E-2 400 6000 11J12681027
-8.7548828E-1-1.7252789E+2+6.4143249E+1-1.6600000E+2BO2- (G) 12J12681027

FITS FOR EST RMS LOW = 0.021894 RMS HIGH = 0.004932

1 -1 1 5 2 8 0 0 0 0 0 BORON DIOXIDE UNINEGATIVE ION (G) 10BO2-
-166000+6+367424+5+140630+2+258531-3-981360+6+808519+2 4003000J126811BO2-
-166000+6+367343+5+148413+2+129160-4-209894+7+808519+23C006000J126812BO2-

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.191	400	10.361	54.475	1.006	54.797	-0.322	1.136	-0.130	54.856	-0.381	1.162	-0.156
0.053	600	11.725	58.956	3.225	58.911	0.045	3.186	0.039	58.906	0.050	3.183	0.042
0.052	800	12.614	62.459	5.665	62.414	0.045	5.626	0.039	62.407	0.052	5.623	0.042
0.018	1000	13.212	65.342	8.252	65.322	0.020	8.235	0.017	65.321	0.021	8.236	0.016
-0.007	1200	13.620	67.790	10.938	67.784	0.006	10.937	0.001	67.787	0.003	10.942	-0.004
-0.017	1400	13.905	69.912	13.692	69.912	-0.000	13.699	-0.007	69.916	-0.004	13.705	-0.013
-0.016	1600	14.108	71.783	16.494	71.784	-0.001	16.503	-0.009	71.787	-0.004	16.508	-0.014
-0.010	1800	14.257	73.453	19.331	73.454	-0.001	19.339	-0.008	73.455	-0.002	19.340	-0.009
-0.002	2000	14.369	74.962	22.195	74.960	0.002	22.199	-0.004	74.960	0.002	22.197	-0.002
0.005	2200	14.455	76.335	25.077	76.333	0.002	25.079	-0.002	76.330	0.005	25.073	0.004
0.009	2400	14.522	77.596	27.975	77.592	0.004	27.974	0.001	77.589	0.007	27.968	0.007
0.008	2600	14.576	78.761	30.885	78.756	0.005	30.882	0.003	78.754	0.007	30.878	0.007
0.002	2800	14.619	79.843	33.805	79.838	0.005	33.801	0.003	79.838	0.005	33.803	0.002
-0.012	3000	14.654	80.852	36.732	80.848	0.004	36.729	0.003	80.852	0.000	36.742	-0.010
-0.003	3000	14.654	80.852	36.732	80.848	0.004	36.729	0.003	80.852	0.000	36.734	-0.002
-0.001	3200	14.683	81.799	39.666	81.795	0.004	39.664	0.002	81.798	0.001	39.667	-0.001
0.000	3400	14.708	82.690	42.605	82.686	0.004	42.604	0.001	82.689	0.001	42.605	-0.000
0.001	3600	14.728	83.531	45.549	83.528	0.003	45.549	-0.000	83.530	0.001	45.548	0.001
0.001	3800	14.746	84.328	48.497	84.325	0.003	48.498	-0.001	84.327	0.001	48.495	0.002
0.001	4000	14.762	85.085	51.448	85.082	0.003	51.450	-0.002	85.083	0.002	51.446	0.002
0.001	4200	14.776	85.805	54.401	85.803	0.002	54.404	-0.003	85.804	0.001	54.400	0.001
0.000	4400	14.788	86.493	57.358	86.490	0.003	57.360	-0.002	86.492	0.001	57.357	0.001
-0.000	4600	14.799	87.151	60.316	87.148	0.003	60.318	-0.002	87.149	0.001	60.316	0.000
-0.000	4800	14.810	87.781	63.277	87.777	0.004	63.278	-0.001	87.780	0.001	63.277	-0.000
-0.000	5000	14.820	88.386	66.240	88.382	0.004	66.240	0.000	88.385	0.001	66.240	-0.001
-0.001	5200	14.830	88.967	69.205	88.963	0.004	69.203	0.002	88.966	0.001	69.206	-0.001
-0.001	5400	14.840	89.527	72.172	89.523	0.004	72.170	0.002	89.526	0.001	72.173	-0.001
-0.001	5600	14.850	90.067	75.141	90.063	0.004	75.139	0.002	90.066	0.001	75.141	-0.000
0.001	5800	14.860	90.588	78.112	90.584	0.004	78.111	0.001	90.587	0.001	78.112	0.000
0.001	6000	14.871	91.092	81.085	91.089	0.003	81.088	-0.003	91.091	0.001	81.083	0.002

FITS FOR EST RMS LOW = 0.055423 RMS HIGH = 0.018421
1 -1 1 4 1 17 0 0 0 0 0 BERYLLIUM MONOCHLORIDE UNIPOS ION(G) 10BECL+
234000+6+256838+5+631354+1+162416-2+720400+6+717029+2 4003000J 66811BECL+
234000+6+257376+5+201938+2-974818-3-539359+8+717029+23C 006000J 66812BECL+

DR KC/M	T K	CP C/M-K	S C/M-K	R KC/M	NOTS				EST				
					SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
-0.156	400	8.211	53.228	0.818	51.649	1.579	0.134	0.684	52.548	0.680	0.529	0.289	4
0.042	600	8.613	56.645	2.506	56.656	-0.011	2.571	-0.065	56.683	-0.038	2.554	-0.048	6
0.042	800	8.812	59.151	4.250	59.380	-0.229	4.458	-0.208	59.262	-0.111	4.345	-0.095	8
0.016	1000	8.912	61.128	6.022	61.309	-0.181	6.186	-0.164	61.198	-0.070	6.080	-0.058	10
-0.004	1200	8.993	62.760	7.812	62.856	-0.096	7.883	-0.071	62.784	-0.024	7.820	-0.008	12
-0.013	1400	9.081	64.153	9.619	64.182	-0.029	9.604	0.015	64.149	0.004	9.591	0.028	14
-0.014	1600	9.202	65.373	11.447	65.365	0.008	11.376	0.071	65.360	0.013	11.405	0.042	16
-0.009	1800	9.380	66.466	13.304	66.446	0.020	13.213	0.091	66.458	0.008	13.270	0.034	18
-0.002	2000	9.624	67.467	15.203	67.451	0.016	15.120	0.083	67.469	-0.002	15.190	0.013	20
0.004	2200	9.932	68.398	17.158	68.395	0.003	17.102	0.056	68.411	-0.013	17.167	-0.009	22
0.007	2400	10.293	69.277	19.180	69.290	-0.013	19.160	0.020	69.297	-0.020	19.205	-0.025	24
0.007	2600	10.689	70.117	21.278	70.142	-0.025	21.291	-0.013	70.137	-0.020	21.302	-0.024	26
0.002	2800	11.097	70.924	23.456	70.959	-0.035	23.494	-0.038	70.937	-0.013	23.462	-0.006	28
-0.010	3000	11.498	71.703	25.716	71.743	-0.040	25.767	-0.051	71.703	0.000	25.684	0.032	30
-0.002	3200	11.498	71.703	25.716	71.743	-0.040	25.767	-0.051	71.703	0.000	25.738	-0.022	32
-0.001	3400	11.873	72.457	28.054	72.497	-0.040	28.105	-0.051	72.448	0.009	28.048	0.006	34
-0.000	3600	12.209	73.187	30.462	73.224	-0.037	30.503	-0.041	73.177	0.010	30.452	0.010	36
0.001	3800	12.496	73.894	32.934	73.925	-0.031	32.956	-0.022	73.884	0.010	32.927	0.007	38
0.002	4000	12.730	74.576	35.457	74.601	-0.025	35.459	-0.002	74.568	0.008	35.456	0.001	40
0.002	4200	12.911	75.234	38.022	75.255	-0.021	38.006	0.016	75.227	0.007	38.025	-0.003	42
0.001	4400	13.042	75.867	40.618	75.885	-0.018	40.589	0.029	75.860	0.007	40.622	-0.004	44
0.001	4600	13.126	76.476	43.236	76.492	-0.016	43.202	0.034	76.469	0.007	43.239	-0.003	46
0.000	4800	13.171	77.060	45.866	77.078	-0.018	45.836	0.030	77.053	0.007	45.868	-0.002	48
-0.000	5000	13.182	77.621	48.502	77.641	-0.020	48.483	0.019	77.614	0.007	48.501	0.001	50
-0.001	5200	13.166	78.159	51.137	78.182	-0.023	51.135	0.002	78.151	0.008	51.135	0.002	52
-0.001	5400	13.128	78.675	53.767	78.701	-0.026	53.782	-0.015	78.667	0.008	53.765	0.002	54
-0.001	5600	13.074	79.169	56.387	79.198	-0							

BERYLLIUM HYDROXIDE UNIPOS. ION (G) BE 1H 10 1 1 668
 MOL. WT.= 26.010 BLOCK= 4851 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFCRM(KCAL/(MOLE)) = 194.000 KEY =1029
 FITS FOR NOTS RMS = 0.019593
 1 -1 1 1 1 4 1 8 0 0 0 0 BERYLLIUM HYDROXIDE UNIPOS. ION (G) 10J 6631029
 +1.1694345E+1+1.7674360E+0-3.5775732E-1+2.5026723E-2 400 600J 11J 6681029
 -9.7583007E-1+1.8774304E+2+5.7757812E+1+1.9400000E+2BEHO+ (G) 12J 6681029

FITS FOR EST RMS LOW = 0.034611 RMS HIGH = 0.004499
 1 -1 1 1 1 4 1 8 0 0 0 0 BERYLLIUM HYDROXIDE UNIPOS. ION (G) 10BEHO+
 +194000+6+344163+5+128156+2+601901-3-120689+7+745839+2 4003000J 66811BEHO+
 +194000+6+344015+5+149324+2-613155-5-532324+7+745839+230006000J 66812BEHO+

-----NOTS-----

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	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
289	400	8.605	50.364	0.828	50.771	-0.407	0.994	-0.166	50.901	-0.537	1.050	-0.222
048	600	10.217	54.178	2.720	54.137	0.041	2.679	0.041	54.123	0.055	2.668	0.052
095	800	11.283	57.274	4.877	57.214	0.060	4.825	0.052	57.196	0.078	4.812	0.065
058	1000	12.023	59.875	7.212	59.843	0.032	7.184	0.028	59.837	0.038	7.182	0.030
008	1200	12.572	62.118	9.674	62.107	0.011	9.669	0.005	62.110	0.008	9.676	-0.002
028	1400	12.993	64.089	12.232	64.088	0.001	12.241	-0.009	64.094	-0.005	12.252	-0.020
042	1600	13.320	65.846	14.865	65.849	-0.003	14.879	-0.014	65.854	-0.008	14.888	-0.023
034	1800	13.576	67.431	17.555	67.433	-0.002	17.568	-0.013	67.434	-0.003	17.572	-0.017
013	2000	13.779	68.872	20.291	68.872	0.000	20.301	-0.010	68.870	0.002	20.297	-0.006
009	2200	13.941	70.193	23.064	70.191	0.002	23.068	-0.004	70.185	0.008	23.058	0.006
025	2400	14.072	71.412	25.866	71.407	0.005	25.865	0.001	71.401	0.011	25.852	0.014
024	2600	14.180	72.543	28.691	72.537	0.006	28.687	0.004	72.532	0.011	28.678	0.013
006	2800	14.268	73.597	31.536	73.590	0.007	31.531	0.005	73.589	0.008	31.533	0.003
032	3000	14.342	74.584	34.398	74.577	0.007	34.392	0.006	74.584	0.000	34.416	-0.018
022	3000	14.342	74.584	34.398	74.577	0.007	34.392	0.006	74.584	0.000	34.402	-0.004
006	3200	14.404	75.512	37.272	75.505	0.007	37.268	0.004	75.511	0.001	37.273	-0.001
010	3400	14.457	76.386	40.159	76.381	0.005	40.156	0.003	76.385	0.001	40.158	0.001
007	3600	14.502	77.214	43.055	77.209	0.005	43.054	0.001	77.212	0.002	43.053	0.002
001	3800	14.540	77.999	45.959	77.995	0.004	45.960	-0.001	77.998	0.001	45.957	0.002
003	4000	14.574	78.746	48.870	78.742	0.004	48.873	-0.003	78.744	0.002	48.869	0.001
004	4200	14.603	79.458	51.788	79.454	0.004	51.792	-0.004	79.456	0.002	51.787	0.001
003	4400	14.628	80.137	54.711	80.134	0.003	54.715	-0.004	80.136	0.001	54.711	0.000
002	4600	14.651	80.788	57.639	80.784	0.004	57.642	-0.003	80.787	0.001	57.639	0.000
001	4800	14.670	81.412	60.571	81.408	0.004	60.573	-0.002	81.411	0.001	60.571	-0.000
002	5000	14.688	82.011	63.507	82.007	0.004	63.507	0.000	82.010	0.001	63.508	-0.001
002	5200	14.704	82.588	66.446	82.583	0.005	66.444	0.002	82.587	0.001	66.447	-0.001
001	5400	14.718	83.143	69.388	83.137	0.006	69.385	0.003	83.142	0.001	69.389	-0.001
000	5600	14.730	83.678	72.333	83.673	0.005	72.330	0.003	83.677	0.001	72.333	-0.000
000	5800	14.742	84.196	75.280	84.191	0.005	75.280	0.000	84.194	0.002	75.280	-0.000
000	6000	14.754	84.696	78.229	84.692	0.004	78.236	-0.006	84.694	0.002	78.229	0.001

CES
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4000
4200
4400
4600
4800
5000
5200
5400
5600
5800
6000

668

FITS FOR NOTS RMS = 0.091581

8.9395996E+1-1.3015051E+2+8.0556747E+1-1.6695175E+1 400 2000 31J 6681030

..9767522E+0-1.4887530E+2+1.3424058E+2-1.0583999E+2CLCS (C) 32J 6681030

FITS FOR EST RMS LOW = 0.130909 RMS HIGH = 0.130909

1	17	1	55	0	0	0	0	0	0	0	0	CESIUM MONOCHLORIDE	(C) 30CLCS\$
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105839+6+437972+5+145158+2+886045-3+587280+6+601914+2 4002000J 66831CLCSS

105839+6+437972+5+145158+2+886045-3+587280+6+601914+2 4002000J 66832CLCS\$

-----NOTS-----

-----EST-----

[illegible]

CESIUM MONOCHLORIDE (G) CL 1CS 1
 MOL. WT.= 168.350 BLOCK= 4862 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -57.400 KEY =1032
 FITS FOR NOTS RMS = 0.001766
 17 1 55 0 0 0 0 0 0 0 CESIUM MONOCHLORIDE (G) 10J 6681032
 .9481992E+0+1.8384897E-1-2.0917820E-4+5.9177560E-5 400 6000 11J 6681032
 1.8768310E-2-6.0135833E+1+7.1855209E+1-5.7399993E+1CLCS (G) 12J 6681032

668

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1 -

-4.1

+2.6

FITS FOR EST RMS LOW = 0.000516 RMS HIGH = 0.003232
 17 1 55 0 0 0 0 0 0 0 CESIUM MONOCHLORIDE (G) 10CLCS
 73999+5+249407+5+894552+1+184135-3-174240+5+822379+2 4003000J 66811CLCS
 73999+5+249434+5+901207+1+175260-3-460512+6+822379+23C006000J 66812CLCS

FI

1 -

+156

+156

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
-0.002	00	8.922	63.785	0.905	63.788	-0.003	0.905	-0.000	63.788	-0.003	0.906	-0.001	400
-0.000	00	9.011	67.421	2.699	67.421	0.000	2.697	0.002	67.422	-0.001	2.699	-0.000	600
0.000	00	9.067	70.021	4.507	70.020	0.001	4.505	0.002	70.022	-0.001	4.507	0.000	800
0.000	00	9.112	72.049	6.325	72.048	0.001	6.323	0.002	72.050	-0.001	6.325	0.000	1000
0.000	200	9.154	73.715	8.152	73.714	0.001	8.150	0.002	73.715	0.000	8.151	0.001	1200
0.000	400	9.194	75.129	9.986	75.128	0.001	9.985	0.001	75.129	-0.000	9.986	-0.000	1400
0.000	600	9.233	76.359	11.829	76.359	0.000	11.828	0.001	76.359	-0.000	11.829	-0.000	1600
0.000	800	9.271	77.449	13.680	77.448	0.001	13.679	0.001	77.449	-0.000	13.680	0.000	1800
0.000	00	9.309	78.427	15.538	78.427	-0.000	15.537	0.001	78.428	-0.001	15.538	0.000	2000
0.000	200	9.347	79.317	17.403	79.317	0.000	17.403	-0.000	79.317	-0.000	17.403	-0.000	2200
-0.000	400	9.385	80.131	19.277	80.132	-0.001	19.277	0.000	80.132	-0.001	19.277	0.000	2400
-0.000	600	9.422	80.884	21.157	80.884	-0.000	21.158	-0.001	80.885	-0.001	21.157	-0.000	2600
0.000	800	9.460	81.584	23.045	81.584	-0.000	23.046	-0.001	81.584	-0.000	23.045	-0.000	2800
0.000	0000	9.497	82.238	24.941	82.238	0.000	24.942	-0.001	82.238	0.000	24.941	0.000	3000
	00	9.497	82.238	24.941	82.238	0.000	24.942	-0.001	82.238	0.000	24.943	-0.002	3000
	200	9.534	82.852	26.844	82.852	-0.000	26.845	-0.001	82.852	0.000	26.845	-0.001	3200
	400	9.572	83.431	28.755	83.431	-0.000	28.755	-0.000	83.430	0.001	28.755	0.000	3400
	600	9.609	83.979	30.673	83.979	-0.000	30.673	-0.000	83.978	0.001	30.672	0.001	3600
	800	9.646	84.500	32.598	84.500	0.000	32.599	-0.001	84.499	0.001	32.597	0.001	3800
	00	9.683	84.995	34.531	84.996	-0.001	34.532	-0.001	84.995	0.000	34.531	0.000	4000
	200	9.721	85.469	36.472	85.469	0.000	36.472	-0.000	85.468	0.001	36.471	0.001	4200
	400	9.758	85.922	38.420	85.922	0.000	38.420	0.000	85.921	0.001	38.419	0.001	4400
	600	9.795	86.356	40.375	86.357	-0.001	40.375	0.000	86.356	0.000	40.375	0.000	4600
	800	9.832	86.774	42.338	86.774	-0.000	42.337	0.001	86.774	0.000	42.338	0.000	4800
	00	9.869	87.176	44.308	87.176	-0.000	44.308	0.000	87.176	0.000	44.308	-0.000	5000
	200	9.906	87.564	46.285	87.564	-0.000	46.285	-0.000	87.564	0.000	46.286	-0.001	5200
	400	9.944	87.938	48.270	87.939	-0.001	48.270	0.000	87.938	-0.000	48.271	-0.001	5400
	600	9.981	88.301	50.263	88.301	0.000	50.262	0.001	88.300	0.001	50.263	0.000	5600
	800	10.018	88.652	52.262	88.652	0.000	52.262	-0.000	88.651	0.001	52.262	-0.000	5800
	00	10.055	88.992	54.270	88.992	-0.000	54.270	0.000	88.991	0.001	54.269	0.001	6000

MAGNESIUM MONOCHLORIDE UNIPOS ION (G)

CL 1MG 1 1

668

MOL. WT.= 59.760 BLOCK= 4869 NO. POINT = 59

DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 156.000 KEY = 1033

FITS FOR NOTS RMS = 0.150446

1 -1 1 12 1 17 0 0 0 0 0 MAGNESIUM MONOCHLORIDE UNIPOS ION (G) 10J 6681033
 -4.1234397E-1+6.8855342E+0-1.0267658E+0+3.9503708E-2 400 6000 11J 6681033
 +2.8288269E+0+1.6257478E+2+6.0550811E+1+1.5600000E+2CLMG+ (G) 12J 6681033

FITS FOR EST RMS LOW = 0.056455 RMS HIGH = 0.023301

1 -1 1 12 1 17 0 0 0 0 0 MAGNESIUM MONOCHLORIDE UNIPOS ION (G) 10CLMG+
 +156000+6+268511+5+548799+1+222995-2+100708+7+762779+2 4003000J 66811CLMG+
 +156000+6+268681+5+207691+2-112873-2-448041+8+762779+230006000J 66812CLMG+

-----NOTS-----

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DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.001	400	8.693	57.124	0.975	54.761	2.363	-0.133	1.008	56.331	0.793	0.544	0.331
-0.000	600	8.887	60.691	2.636	60.782	-0.091	2.779	-0.143	60.751	-0.060	2.704	-0.068
0.000	800	8.980	63.262	4.424	63.619	-0.357	4.741	-0.317	63.387	-0.125	4.533	-0.109
0.000	1000	9.044	65.273	6.227	65.522	-0.249	6.444	-0.217	65.341	-0.068	6.284	-0.057
0.001	1200	9.115	66.928	8.042	67.040	-0.112	8.109	-0.067	66.942	-0.014	8.040	0.002
-0.000	1400	9.230	68.341	9.876	68.360	-0.019	9.824	0.052	68.326	0.015	9.837	0.039
-0.000	1600	9.420	69.585	11.739	69.561	0.024	11.623	0.116	69.566	0.019	11.694	0.045
0.000	1800	9.702	70.709	13.650	70.679	0.030	13.523	0.127	70.699	0.010	13.619	0.031
0.000	2000	10.076	71.750	15.626	71.734	0.016	15.527	0.099	71.753	-0.003	15.620	0.006
-0.000	2200	10.521	72.731	17.685	72.737	-0.006	17.632	0.053	72.744	-0.013	17.700	-0.015
0.000	2400	11.008	73.667	19.837	73.694	-0.027	19.833	0.004	73.684	-0.017	19.862	-0.025
-0.000	2600	11.502	74.568	22.088	74.611	-0.043	22.124	-0.036	74.582	-0.014	22.107	-0.019
-0.000	2800	11.972	75.438	24.436	75.489	-0.051	24.495	-0.059	75.445	-0.007	24.436	-0.000
0.000	3000	12.394	76.278	26.874	76.332	-0.054	26.939	-0.065	76.278	0.000	26.851	0.023
-0.002	3000	12.394	76.278	26.874	76.332	-0.054	26.939	-0.065	76.278	0.000	26.868	0.006
-0.001	3200	12.752	77.090	29.390	77.141	-0.051	29.446	-0.056	77.091	-0.001	29.389	0.001
0.000	3400	13.037	77.872	31.970	77.917	-0.045	32.007	-0.037	77.875	-0.003	31.974	-0.004
0.001	3600	13.248	78.624	34.600	78.662	-0.038	34.613	-0.013	78.627	-0.003	34.606	-0.006
0.001	3800	13.391	79.344	37.265	79.377	-0.033	37.256	0.009	79.347	-0.003	37.269	-0.004
0.000	4000	13.474	80.033	39.952	80.062	-0.029	39.926	0.026	80.035	-0.002	39.953	-0.001
0.001	4200	13.506	80.692	42.651	80.718	-0.026	42.616	0.035	80.693	-0.001	42.648	0.003
0.001	4400	13.497	81.320	45.352	81.346	-0.026	45.316	0.036	81.320	-0.000	45.346	0.006
0.000	4600	13.456	81.919	48.048	81.947	-0.028	48.020	0.028	81.919	-0.000	48.041	0.007
0.000	4800	13.393	82.490	50.733	82.521	-0.031	50.719	0.014	82.491	-0.001	50.728	0.005
-0.000	5000	13.313	83.036	53.404	83.070	-0.034	53.407	-0.003	83.037	-0.001	53.403	0.001
-0.001	5200	13.223	83.556	56.057	83.593	-0.037	56.076	-0.019	83.558	-0.002	56.060	-0.003
-0.001	5400	13.127	84.053	58.693	84.092	-0.039	58.720	-0.027	84.056	-0.003	58.699	-0.006
0.000	5600	13.029	84.529	61.308	84.567	-0.038	61.333	-0.025	84.532	-0.003	61.315	-0.007
-0.000	5800	12.932	84.984	63.904	85.019	-0.035	63.908	-0.004	84.986	-0.002	63.906	-0.002
0.001	6000	12.837	85.421	66.481	85.448	-0.027	66.441	0.040	85.421	-0.000	66.470	0.011

CESIUM MONOCHLORIDE DIMER (G) CL 2CS 2 668
 MOL. WT.= 336.710 BLOCK= 4875 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -157.700 KEY =1034
 FITS FOR NOTS RMS = 0.002942
 17 2 55 0 0 0 0 0 0 0 CESIUM MONOCHLORIDE DIMER (G) 10J 6681034
 .9885635E+1-4.5333430E-3-1.6012717E-4+9.6836010E-5 400 6000 11J 6681034
 .0313720E-2-1.6375851E+2+1.1547537E+2-1.5769999E+2CL2CS2 (G) 12J 6681034

FITS FOR EST RMS LOW = 0.000604 RMS HIGH = 0.005855
 17 2 55 0 0 0 0 0 0 0 CESIUM MONOCHLORIDE DIMER (G) 10CL2CS2
 57699+6+535907+5+198742+2-825139-6-353120+5+137309+3 4003000J 66811CL2CS2
 57699+6+535950+5+200133+2-208643-4-930560+6+137309+330006000J 66812CL2CS2

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	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
C/M-K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
.331	19.667	97.372	1.996	97.379	-0.007	1.996	-0.000	97.376	-0.004	1.998	-0.002	400
.068	19.780	105.372	5.943	105.371	0.001	5.939	0.004	105.373	-0.001	5.943	-0.000	500
.109	19.820	111.069	9.904	111.066	0.003	9.899	0.005	111.069	0.000	9.903	0.001	600
.057	19.839	115.494	13.870	115.491	0.003	13.865	0.005	115.493	0.001	13.869	0.001	700
.002	19.849	119.112	17.838	119.109	0.003	17.835	0.003	119.111	0.001	17.838	0.000	800
.039	19.855	122.172	21.809	122.170	0.002	21.806	0.003	122.171	0.001	21.808	0.001	900
.045	19.859	124.823	25.780	124.822	0.001	25.778	0.002	124.823	0.000	25.780	0.000	1000
.031	19.861	127.162	29.752	127.162	0.000	29.751	0.001	127.162	-0.000	29.752	0.000	
.006	19.863	129.255	33.725	129.255	0.000	33.724	0.001	129.255	0.000	33.724	0.001	
.015	19.865	131.148	37.697	131.148	-0.000	37.697	-0.000	131.148	-0.000	37.697	-0.000	
.025	19.866	132.877	41.671	132.877	-0.000	41.671	0.000	132.877	0.000	41.670	0.001	
.019	19.867	134.467	45.644	134.468	-0.001	45.644	-0.000	134.467	0.000	45.644	0.000	
.000	19.867	135.939	49.617	135.940	-0.001	49.618	-0.001	135.939	-0.000	49.617	-0.000	
.023	19.868	137.310	53.591	137.311	-0.001	53.592	-0.001	137.310	0.000	53.591	0.000	
.006	19.868	137.310	53.591	137.311	-0.001	53.592	-0.001	137.310	0.000	53.595	-0.004	
.001	19.868	138.592	57.564	138.593	-0.001	57.566	-0.002	138.591	0.001	57.565	-0.001	
.004	19.869	139.797	61.538	139.798	-0.001	61.539	-0.001	139.795	0.002	61.537	0.001	
.006	19.869	140.933	65.512	140.933	-0.000	65.513	-0.001	140.931	0.002	65.510	0.002	
.004	19.869	142.007	69.486	142.007	-0.000	69.487	-0.001	142.005	0.002	69.484	0.002	
.001	19.870	143.026	73.460	143.027	-0.001	73.461	-0.001	143.024	0.002	73.458	0.002	
.003	19.870	143.995	77.434	143.996	-0.001	77.434	-0.000	143.994	0.001	77.432	0.002	
.006	19.870	144.920	81.408	144.920	-0.000	81.408	-0.000	144.918	0.002	81.407	0.001	
.007	19.870	145.803	85.382	145.803	-0.000	85.382	0.000	145.801	0.002	85.382	0.000	
.005	19.870	146.649	89.356	146.649	-0.000	89.356	0.000	146.647	0.002	89.356	-0.000	
.001	19.870	147.460	93.330	147.460	-0.000	93.329	0.001	147.458	0.002	93.331	-0.001	
.003	19.870	148.239	97.304	148.240	-0.001	97.303	0.001	148.238	0.001	97.305	-0.001	
.006	19.871	148.989	101.278	148.989	-0.000	101.277	0.001	148.988	0.001	101.279	-0.001	
.007	19.871	149.712	105.252	149.712	-0.000	105.252	0.000	149.710	0.002	105.252	-0.000	
.002	19.871	150.409	109.226	150.409	-0.000	109.226	0.000	150.407	0.002	109.226	0.000	
.011	19.871	151.083	113.200	151.083	-0.000	113.200	-0.000	151.081	0.002	113.198	0.002	

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CESIUM MONATOMIC (G) CS 1 0 0 0 0 0 668
 MOL. WT. = 132.900 BLOCK = 4890 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFCRM (KCAL/(MOLE)) = 18.320 KEY = 1038
 FITS FOR NOTS RMS = 0.346221
 1 55 0 0 0 0 0 0 0 0 CESIUM MONATOMIC (G) 10J 6681038
 +2.1797439E+1-1.4992250E+1+4.1451044E+0-2.7781701E-1 400 6000 11J 6681038
 -4.7379455E+0+1.0721282E+0+5.8178421E+1+1.8319992E+1CS (G) 12J 6681038

FITS FOR EST RMS LOW = 0.049520 RMS HIGH = 0.399561
 1 55 0 0 0 0 0 0 0 0 CESIUM MONATOMIC (G) 10CS
 +183199+5+140043+5+346663+1+791782-3+553117+6+536529+2 4003000J 66811CS
 +183199+5+142376+5-141393+2+580276-2+166070+8+536529+230006000J 66812CS

-----NOTS-----													
-----EST-----													
H	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
.000	400	4.968	43.402	0.506	47.341	-3.939	2.203	-1.697	42.912	0.490	0.293	0.213	
.000	600	4.968	45.417	1.500	45.355	0.062	1.318	0.182	45.436	-0.019	1.526	-0.026	
.000	800	4.968	46.846	2.493	46.301	0.545	1.994	0.499	46.928	-0.082	2.561	-0.068	
.000	1000	4.968	47.954	3.487	47.535	0.419	3.104	0.383	48.015	-0.061	3.535	-0.048	
.000	1200	4.969	48.860	4.480	48.631	0.229	4.306	0.174	48.890	-0.030	4.495	-0.015	
.000	1400	4.975	49.627	5.475	49.540	0.087	5.485	-0.010	49.634	-0.007	5.460	0.015	
.000	1600	4.992	50.292	6.471	50.287	0.005	6.603	-0.132	50.288	0.004	6.440	0.031	
.000	1800	5.031	50.882	7.473	50.911	-0.029	7.661	-0.188	50.877	0.005	7.441	0.032	
.000	2000	5.102	51.415	8.485	51.444	-0.029	8.674	-0.189	51.417	-0.002	8.466	0.019	
.000	2200	5.218	51.906	9.517	51.916	-0.010	9.664	-0.147	51.918	-0.012	9.517	-0.000	
.000	2400	5.385	52.367	10.576	52.349	0.018	10.659	-0.083	52.387	-0.020	10.596	-0.020	
.000	2600	5.613	52.807	11.675	52.760	0.047	11.685	-0.010	52.830	-0.023	11.703	-0.028	
	2800	5.908	53.233	12.826	53.161	0.072	12.770	0.056	53.251	-0.018	12.839	-0.013	
	3000	6.282	53.653	14.043	53.564	0.089	13.939	0.104	53.653	0.000	14.004	0.039	
	3000	6.282	53.653	14.043	53.564	0.089	13.939	0.104	53.653	0.000	14.238	-0.195	
	3200	6.747	54.073	15.345	53.977	0.096	15.217	0.128	54.013	0.060	15.353	-0.008	
	3400	7.317	54.498	16.749	54.404	0.094	16.627	0.122	54.409	0.089	16.661	0.088	
	3600	8.008	54.936	18.280	54.850	0.086	18.188	0.092	54.839	0.097	18.166	0.114	
	3800	8.831	55.390	19.961	55.318	0.072	19.920	0.041	55.300	0.090	19.875	0.086	
	4000	9.790	55.867	21.821	55.809	0.058	21.837	-0.016	55.792	0.075	21.792	0.029	
	4200	10.876	56.370	23.886	56.325	0.045	23.953	-0.067	56.311	0.059	23.920	-0.034	
	4400	12.069	56.903	26.179	56.866	0.037	26.279	-0.100	56.855	0.048	26.262	-0.083	
	4600	13.331	57.468	28.718	57.431	0.037	28.824	-0.106	57.424	0.044	28.821	-0.103	
	4800	14.612	58.062	31.513	58.020	0.042	31.592	-0.079	58.015	0.047	31.598	-0.095	
	5000	15.855	58.684	34.560	58.632	0.052	34.588	-0.028	58.626	0.058	34.595	-0.035	
	5200	16.999	59.328	37.848	59.264	0.064	37.811	0.037	59.257	0.071	37.814	0.034	
	5400	17.989	59.989	41.350	59.914	0.075	41.260	0.090	59.907	0.082	41.255	0.095	
	5600	18.780	60.658	45.030	60.581	0.077	44.930	0.100	60.573	0.085	44.920	0.110	
	5800	19.343	61.328	48.846	61.263	0.065	48.813	0.033	61.255	0.073	48.810	0.036	
	6000	19.668	61.990	52.751	61.956	0.034	52.901	-0.150	61.953	0.037	52.925	-0.174	

CESIUM UNIPOSITIVE ION (G) CS 1 1 1270
 MOL. WT.= 132.900 BLOCK= 4896 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 109.596 KEY =1039
 FITS FOR NOTS RMS = 0.001299
 1 -1 1 55 0 0 0 0 0 0 CESIUM UNIPOSITIVE ION (G) 10J12701039
 +4.9743776E+0-3.1062657E-3+3.6780070E-4-1.0087078E-6 400 6000 11J12701039 +3.
 -3.0975341E-3+1.0810545E+2+4.6577529E+1+1.0959599E+2CS+(G) 12J12701039 +5.

FITS FOR EST RMS LGW = 0.000504 RMS HIGH = 0.002005
 1 -1 1 55 0 0 0 0 0 0 CESIUM UNIPOSITIVE ION (G) 10CS+
 +109595+6+134228+5+496705+1+489926-6-300000+1+520349+2 4003000J127011CS+ -1.
 +109595+6+134239+5+500478+1-533672-5-241744+6+520349+230006000J127012CS+ -1.

-----NOTS-----												-----EST-----			
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH				
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M				
400	4.968	42.025	0.506	42.028	-0.003	0.507	-0.001	42.026	-0.001	0.506	-0.000				40
600	4.968	44.039	1.500	44.039	0.000	1.499	0.001	44.040	-0.001	1.500	0.000				50
800	4.968	45.468	2.493	45.468	0.000	2.492	0.001	45.469	-0.001	2.493	-0.000				60
1000	4.968	46.577	3.487	46.576	0.001	3.486	0.001	46.577	-0.000	3.487	0.000				70
1200	4.968	47.493	4.480	47.482	0.001	4.479	0.001	47.483	0.000	4.480	-0.000				80
1400	4.968	48.249	5.474	48.248	0.001	5.473	0.001	48.249	0.000	5.474	0.000				90
1600	4.968	48.912	6.467	48.912	0.000	6.467	0.000	48.912	0.000	6.467	-0.000				100
1800	4.968	49.497	7.461	49.497	0.000	7.461	0.000	49.497	-0.000	7.461	0.000				110
2000	4.968	50.020	8.455	50.020	-0.000	8.455	0.000	50.021	-0.001	8.455	0.000				120
2200	4.968	50.494	9.448	50.494	0.000	9.448	-0.000	50.494	-0.000	9.448	-0.000				130
2400	4.968	50.926	10.442	50.926	-0.000	10.442	0.000	50.926	-0.000	10.442	0.000				140
2600	4.968	51.324	11.435	51.324	0.000	11.436	-0.001	51.324	0.000	11.435	-0.000				150
2800	4.968	51.692	12.429	51.692	-0.000	12.429	-0.000	51.692	-0.000	12.429	-0.000				160
3000	4.968	52.035	13.423	52.035	0.000	13.423	0.000	52.035	0.000	13.423	0.000				170
3200	4.968	52.035	13.423	52.035	0.000	13.423	0.000	52.035	0.000	13.424	-0.001				180
3400	4.968	52.355	14.416	52.356	-0.001	14.417	-0.001	52.355	-0.000	14.417	-0.001				190
3600	4.968	52.657	15.410	52.657	0.000	15.410	-0.000	52.656	0.001	15.410	0.000				200
3800	4.968	52.941	16.403	52.941	0.000	16.404	-0.001	52.940	0.001	16.403	0.000				
4000	4.968	53.209	17.397	53.209	-0.000	17.397	-0.000	53.209	0.000	17.396	0.001				
4200	4.968	53.464	18.390	53.464	-0.000	18.391	-0.001	53.464	0.000	18.390	0.000				
4400	4.968	53.706	19.384	53.706	-0.000	19.384	-0.000	53.706	0.000	19.384	0.000				
4600	4.968	53.937	20.378	53.938	-0.001	20.378	0.000	53.937	-0.000	20.377	0.001				
4800	4.968	54.158	21.371	54.158	-0.000	21.371	-0.000	54.158	0.000	21.371	-0.000				
5000	4.968	54.370	22.365	54.370	0.000	22.365	0.000	54.369	0.001	22.365	0.000				
5200	4.968	54.573	23.358	54.573	0.000	23.358	-0.000	54.572	0.001	23.359	-0.001				
5400	4.968	54.767	24.352	54.767	-0.000	24.352	0.000	54.767	-0.000	24.352	-0.000				
5600	4.968	54.955	25.346	54.955	0.000	25.345	0.001	54.955	0.000	25.346	0.000				
5800	4.968	55.136	26.339	55.136	0.000	26.339	-0.000	55.135	0.001	26.339	-0.000				
6000	4.968	55.310	27.333	55.310	0.000	27.333	0.000	55.310	0.000	27.333	0.000				
		55.478	28.326	55.478	-0.000	28.326	-0.000	55.478	0.000	28.326	0.000				

668

NO. POINT = 19

KEY = 1040

0.002622

(C) 30J 6681040

31J 6681040

32J 6681040

0.027575 RMS HIGH = 0.027575

(C) 30CSFS

66831CSF\$

66832CSF\$

[illegible]

C
DA
FI
1
+ 8.9
- 4.4

FI
1
-851
-851

[illegible]

CESIUM MONOFLUORIDE (G) CS 1F 1 668
 MOL. WT. = 151.900 BLOCK = 4907 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -85.200 KEY = 1042
 FITS FOR NOTS RMS = 0.001631
 1 9 1 55 0 0 0 0 0 0 0 CESIUM MONOFLUORIDE (G) 10J 6681042
 +8.9489383E+0+1.3277244E-1-1.5904748E-5+4.8418005E-5 400 6000 11J 6681042
 -4.4464111E-2-8.8018417E+1+6.8659774E+1-8.5199996E+1CSF(G) 12J 6681042

FITS FOR EST RMS LOW = 0.000431 RMS HIGH = 0.003069
 1 9 1 55 0 0 0 0 0 0 0 CESIUM MONOFLUORIDE (G) 10CSF
 -851999+5+246407+5+894457+1+134225-3-427680+5+788919+2 4003000J 66811CSF
 -851999+5+246430+5+900490+1+126136-3-447328+6+788919+230006000J 66812CSF

-----NOTS-----							-----EST-----						
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.002	400	8.750	60.648	0.883	60.652	-0.004	0.883	0.000	60.652	-0.004	0.884	-0.001	
-0.000	600	8.909	64.231	2.651	64.230	0.001	2.649	0.002	64.231	-0.000	2.651	0.000	
0.000	800	8.985	66.806	4.441	66.804	0.002	4.439	0.002	66.805	0.001	4.441	0.000	
0.000	1000	9.035	68.816	6.244	68.815	0.001	6.241	0.003	68.816	0.000	6.243	0.001	
0.000	1200	9.075	70.467	8.055	70.466	0.001	8.053	0.002	70.467	-0.000	8.055	0.000	
0.000	1400	9.110	71.869	9.873	71.868	0.001	9.872	0.001	71.869	0.000	9.873	-0.000	
0.000	1600	9.142	73.087	11.699	73.087	0.000	11.698	0.001	73.087	-0.000	11.699	0.000	
0.000	1800	9.173	74.166	13.530	74.166	0.000	13.530	0.000	74.166	-0.000	13.530	-0.000	
0.000	2000	9.202	75.134	15.368	75.134	0.000	15.367	0.001	75.134	-0.000	15.368	0.000	
0.000	2200	9.231	76.012	17.211	76.012	-0.000	17.211	0.000	76.012	-0.000	17.211	-0.000	
0.000	2400	9.260	76.817	19.060	76.817	0.000	19.060	-0.000	76.817	0.000	19.060	-0.000	
0.000	2600	9.288	77.559	20.915	77.559	-0.000	20.915	-0.000	77.559	-0.000	20.915	0.000	
0.000	2800	9.316	78.248	22.775	78.249	-0.001	22.776	-0.001	78.248	-0.000	22.775	-0.000	
0.000	3000	9.343	78.892	24.641	78.892	-0.000	24.641	-0.001	78.892	0.000	24.641	0.000	
	3000	9.343	78.892	24.641	78.892	-0.000	24.641	-0.001	78.892	0.000	24.643	-0.002	
	3200	9.371	79.496	26.512	79.496	-0.000	26.513	-0.001	79.495	0.001	26.513	-0.001	
	3400	9.399	80.065	28.389	80.065	-0.000	28.390	-0.001	80.064	0.001	28.389	0.000	
	3600	9.426	80.603	30.272	80.603	-0.000	30.272	-0.000	80.602	0.001	30.271	0.001	
	3800	9.453	81.113	32.160	81.113	-0.000	32.160	-0.000	81.112	0.001	32.159	0.001	
	4000	9.481	81.599	34.053	81.599	-0.000	34.053	-0.000	81.598	0.001	34.052	0.001	
	4200	9.508	82.062	35.952	82.062	-0.000	35.952	-0.000	82.061	0.001	35.951	0.001	
	4400	9.535	82.505	37.856	82.505	-0.000	37.856	-0.000	82.504	0.001	37.856	0.000	
	4600	9.563	82.929	39.766	82.930	-0.001	39.766	0.000	82.929	0.000	39.766	0.000	
	4800	9.590	83.337	41.681	83.337	-0.000	41.681	-0.000	83.336	0.001	41.681	-0.000	
	5000	9.617	83.729	43.602	83.729	-0.000	43.602	0.000	83.728	0.001	43.602	-0.000	
	5200	9.644	84.107	45.528	84.107	0.000	45.528	0.000	84.106	0.001	45.529	-0.001	
	5400	9.671	84.471	47.460	84.471	-0.000	47.459	0.001	84.470	0.001	47.460	-0.000	
	5600	9.698	84.823	49.397	84.823	-0.000	49.396	0.001	84.823	0.000	49.397	0.000	
	5800	9.726	85.164	51.339	85.164	-0.000	51.339	0.000	85.163	0.001	51.339	0.000	
	6000	9.753	85.494	53.287	85.495	-0.001	53.287	-0.000	85.493	0.001	53.286	0.001	

CESIUM DIATOMIC (G) CS 2 0 0 0 0 0 668
 MOL. WT.= 265.810 BLOCK= 4914 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 25.400 KEY =1043
 FITS FOR NOTS RMS = 0.023547
 55 0 0 0 0 0 0 0 0 0 CESIUM DIATOMIC (G) 10J 6681043 2
 1.0121747E+1-1.2102632E+0+8.0389165E-1-7.6242208E-2 400 6000 11J 6681043 +1
 7.7615966E-2+2.2107391E+1+7.9907058E+1+2.5399993E+1CS2(G) 12J 6681043 -7

FITS FOR EST RMS LOW = 0.026735 RMS HIGH = 0.047145
 55 0 0 0 0 0 0 0 0 0 CESIUM DIATOMIC (G) 10CS2 2
 53999+5+273224+5+789059+1+118242-2+358992+6+903289+2 4003000J 66811CS2 -2
 53999+5+273800+5+126235+2+618463-3-283703+8+903289+230006000J 66812CS2 -2

DH KC/M	-----NOTS-----								-----EST-----				
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
-0.001	400	9.176	70.554	0.931	70.485	0.069	0.895	0.036	70.254	0.300	0.803	0.128	40
0.000	600	9.297	74.297	2.779	74.271	0.026	2.764	0.015	74.313	-0.016	2.798	-0.019	60
0.000	800	9.416	76.988	4.650	76.993	-0.005	4.656	-0.006	77.038	-0.050	4.692	-0.042	80
0.001	1000	9.536	79.102	6.545	79.117	-0.015	6.561	-0.016	79.136	-0.034	6.572	-0.027	100
0.000	1200	9.659	80.852	8.465	80.865	-0.013	8.479	-0.014	80.866	-0.014	8.470	-0.005	120
-0.000	1400	9.791	82.350	10.409	82.359	-0.009	10.416	-0.007	82.352	-0.002	10.399	0.010	140
0.000	1600	9.937	83.667	12.382	83.670	-0.003	12.380	0.002	83.663	0.004	12.364	0.018	160
-0.000	1800	10.103	84.847	14.385	84.846	0.001	14.377	0.008	84.844	0.003	14.369	0.016	180
0.000	2000	10.294	85.921	16.425	85.918	0.003	16.413	0.012	85.922	-0.001	16.416	0.009	200
-0.000	2200	10.512	86.912	18.505	86.909	0.003	18.493	0.012	86.919	-0.007	18.507	-0.002	220
0.000	2400	10.758	87.837	20.631	87.835	0.002	20.622	0.009	87.848	-0.011	20.643	-0.012	240
-0.000	2600	11.030	88.709	22.810	88.709	0.000	22.806	0.004	88.720	-0.011	22.823	-0.013	260
0.000	2800	11.325	89.537	25.045	89.539	-0.002	25.046	-0.001	89.545	-0.008	25.050	-0.005	280
-0.002	3000	11.638	90.329	27.341	90.332	-0.003	27.347	-0.006	90.329	0.000	27.322	0.019	300
-0.001	3200	11.638	90.329	27.341	90.332	-0.003	27.347	-0.006	90.329	0.000	27.380	-0.039	320
0.000	3400	11.964	91.090	29.701	91.095	-0.005	29.710	-0.009	91.077	0.013	29.697	0.004	340
0.001	3600	12.297	91.826	32.127	91.830	-0.004	32.137	-0.010	91.807	0.019	32.108	0.019	360
0.001	3800	12.631	92.538	34.620	92.542	-0.004	34.628	-0.008	92.520	0.018	34.603	0.017	380
0.001	4000	12.961	93.230	37.179	93.233	-0.003	37.184	-0.005	93.214	0.016	37.170	0.009	400
0.001	4200	13.280	93.903	39.804	93.905	-0.002	39.804	-0.000	93.889	0.014	39.804	0.000	420
0.000	4400	13.585	94.558	42.490	94.559	-0.001	42.487	0.003	94.547	0.011	42.498	-0.008	440
0.000	4600	13.873	95.197	45.236	95.197	-0.000	45.230	0.006	95.186	0.011	45.248	-0.012	460
0.000	4800	14.141	95.819	48.038	95.820	-0.001	48.030	0.008	95.809	0.010	48.049	-0.011	480
-0.000	5000	14.388	96.426	50.891	96.427	-0.001	50.884	0.007	96.415	0.011	50.898	-0.007	500
-0.000	5200	14.613	97.018	53.792	97.020	-0.002	53.788	0.004	97.006	0.012	53.792	-0.000	520
-0.001	5400	14.817	97.596	56.735	97.598	-0.002	56.736	-0.001	97.582	0.014	56.729	0.006	540
-0.000	5600	15.000	98.158	59.717	98.161	-0.003	59.723	-0.006	98.144	0.014	59.708	0.009	560
0.000	5800	15.164	98.707	62.734	98.710	-0.003	62.742	-0.008	98.692	0.015	62.725	0.009	580
0.000	6000	15.310	99.242	65.782	99.244	-0.002	65.785	-0.003	99.228	0.014	65.780	0.002	600
0.001	6200	15.439	99.763	68.857	99.763	-0.000	68.845	0.012	99.752	0.011	68.871	-0.014	620

CESIUM MONOFLUORIDE DIMER (G) CS 2F 2 668
 MOL. WT. = 303.800 BLCK = 4920 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = -212.740 KEY = 1044
 FITS FOR NOTS RMS = 0.003069
 2 9 2 55 0 0 0 0 0 0 CESIUM MONOFLUORIDE DIMER (G) 10J 6681044
 +1.9882415E+1-1.1221347E-3-1.3798673E-3+2.3133045E-4 400 6000 11J 6681044
 -7.8292846E-2-2.1892448E+2+1.0782394E+2-2.1273999E+2CS2F2 (G) 12J 6681044

FITS FOR EST RMS LOW = 0.000553 RMS HIGH = 0.005988
 2 9 2 55 0 0 0 0 0 0 CESIUM MONOFLUORIDE DIMER (G) 10CS2F2
 -212739+6+534747+5+198744+2-105017-5-740320+5+129662+3 4003000J 66811CS2F2
 -212739+6+534791+5+199985+2-183662-4-902400+6+129662+330006000J 66812CS2F2

I C/M	-----NOTS-----								-----EST-----				T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
.128	400	19.430	89.844	1.964	89.850	-0.006	1.964	-0.000	89.848	-0.004	1.966	-0.002	400
.019	600	19.672	97.777	5.879	97.775	0.002	5.875	0.004	97.778	-0.001	5.879	-0.000	600
.042	800	19.759	103.450	9.823	103.447	0.003	9.819	0.004	103.450	0.000	9.823	-0.000	800
.027	1000	19.799	107.864	13.780	107.861	0.003	13.775	0.005	107.864	0.000	13.779	0.001	1000
.005	1200	19.821	111.476	17.742	111.474	0.002	17.738	0.004	111.476	0.000	17.742	0.000	1200
.010	1400	19.835	114.533	21.708	114.531	0.002	21.705	0.003	114.532	0.001	21.708	0.000	1400
.018	1600	19.843	117.182	25.676	117.181	0.001	25.673	0.003	117.182	0.000	25.675	0.001	1600
.016	1800	19.849	119.519	29.645	119.519	0.000	29.643	0.002	119.519	-0.000	29.645	0.000	1800
.009	2000	19.854	121.611	33.615	121.611	0.000	33.614	0.001	121.611	0.000	33.615	-0.000	2000
.002	2200	19.857	123.503	37.586	123.503	-0.000	37.586	-0.000	123.503	-0.000	37.586	-0.000	2200
.012	2400	19.859	125.231	41.558	125.232	-0.001	41.558	-0.000	125.231	-0.000	41.558	0.000	2400
.013	2600	19.861	126.821	45.530	126.821	-0.000	45.531	-0.001	126.821	0.000	45.530	0.000	2600
.005	2800	19.862	128.293	49.502	128.293	-0.000	49.503	-0.001	128.293	0.000	49.502	-0.000	2800
.019	3000	19.864	129.663	53.475	129.664	-0.001	53.476	-0.001	129.663	0.000	53.475	0.000	3000
.039	3000	19.864	129.663	53.475	129.664	-0.001	53.476	-0.001	129.663	0.000	53.479	-0.004	3000
.004	3200	19.865	130.945	57.448	130.946	-0.001	57.449	-0.001	130.944	0.001	57.449	-0.001	3200
.019	3400	19.865	132.149	61.421	132.150	-0.001	61.422	-0.001	132.148	0.001	61.420	0.001	3400
.017	3600	19.866	133.285	65.394	133.286	-0.001	65.395	-0.001	133.283	0.002	65.392	0.002	3600
.009	3800	19.867	134.359	69.367	134.360	-0.001	69.368	-0.001	134.357	0.002	69.365	0.002	3800
.000	4000	19.867	135.378	73.340	135.379	-0.001	73.341	-0.001	135.376	0.002	73.338	0.002	4000
.008	4200	19.868	136.347	77.314	136.348	-0.001	77.314	-0.000	136.345	0.002	77.312	0.002	4200
.012	4400	19.868	137.272	81.287	137.272	-0.000	81.288	-0.001	137.270	0.002	81.286	0.001	4400
.011	4600	19.868	138.155	85.261	138.155	-0.000	85.261	0.000	138.153	0.002	85.260	0.001	4600
.007	4800	19.869	139.000	89.235	139.001	-0.001	89.234	0.001	138.999	0.001	89.235	0.000	4800
.000	5000	19.869	139.812	93.208	139.812	0.000	93.208	0.000	139.810	0.002	93.209	-0.001	5000
.006	5200	19.869	140.591	97.182	140.591	-0.000	97.182	0.000	140.589	0.002	97.183	-0.001	5200
.009	5400	19.869	141.341	101.156	141.341	0.000	101.155	0.001	141.339	0.002	101.157	-0.001	5400
.009	5600	19.869	142.063	105.130	142.064	-0.001	105.129	0.001	142.062	0.001	105.130	-0.000	5600
.002	5800	19.869	142.761	109.104	142.761	0.000	109.104	0.000	142.759	0.002	109.103	0.001	5800
.014	6000	19.870	143.434	113.078	143.435	-0.001	113.078	-0.000	143.432	0.002	113.076	0.002	6000

MAGNESIUM HYDROXIDE UNIPCS. ION (G) H 1MG 10 1 1 668
 MOL. WT.= 41.310 BLOCK= 4926 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 143.000 KEY =1045
 FITS FOR NOTS RMS = 0.014564
 -1 1 1 1 8 1 12 0 0 0 MAGNESIUM HYDROXIDE UNIPCS. ION (G) 10J 6681045
 .2095355E+1+1.5238733E+0-3.0516850E-1+2.1180182E-2 400 6000 11J 6681045
 .2860107E-1+1.3755899E+2+6.3472274E+1+1.4300000E+2HMGO+(G) 12J 6681045

FITS FOR EST RMS LOW = 0.026518 RMS HIGH = 0.004549
 -1 1 1 1 8 1 12 0 0 0 MAGNESIUM HYDROXIDE UNIPCS. ION (G) 10HMGO+
 43000+6+356140+5+130637+2+523288-3-829600+6+801889+2 4003000J 66811HMGO+
 43000+6+356023+5+149331+2-624510-5-460609+7+801889+230006000J 66812HMGO+

H C/M	-----NOTS-----								-----EST-----				T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
.002	400	10.095	54.675	0.975	54.939	-0.264	1.084	-0.109	55.053	-0.378	1.133	-0.158	400
.000	500	11.398	59.046	3.139	59.028	0.018	3.117	0.022	59.014	0.032	3.107	0.032	600
.000	600	12.115	62.431	5.496	62.389	0.042	5.459	0.037	62.373	0.058	5.447	0.049	800
.001	700	12.618	65.191	7.972	65.165	0.026	7.948	0.024	65.159	0.032	7.946	0.026	1000
.000	800	13.012	67.527	10.536	67.517	0.010	10.530	0.006	67.519	0.008	10.536	-0.000	1200
.000	900	13.328	69.558	13.171	69.556	0.002	13.176	-0.005	69.561	-0.003	13.186	-0.015	1400
.001	1000	13.582	71.355	15.863	71.356	-0.001	15.873	-0.010	71.360	-0.005	15.882	-0.019	1600
.000	1100	13.787	72.967	18.601	72.969	-0.002	18.611	-0.010	72.970	-0.003	18.615	-0.014	1800
.000	1200	13.952	74.428	21.375	74.429	-0.001	21.383	-0.008	74.426	0.002	21.380	-0.005	2000
.000	1300	14.085	75.764	24.179	75.763	0.001	24.183	-0.004	75.758	0.006	24.175	0.004	2200
.000	1400	14.195	76.995	27.008	76.992	0.003	27.008	0.000	76.996	0.009	26.997	0.011	2400
.000	1500	14.284	78.135	29.856	78.131	0.004	29.853	0.003	78.126	0.009	29.845	0.011	2600
.000	1600	14.359	79.196	32.721	79.192	0.004	32.716	0.005	79.190	0.006	32.718	0.003	2800
.000	1700	14.421	80.189	35.599	80.184	0.005	35.594	0.005	80.189	0.000	35.614	-0.015	3000
.004	1800	14.421	80.189	35.599	80.184	0.005	35.594	0.005	80.189	0.000	35.602	-0.003	3000
.001	2000	14.474	81.121	38.489	81.117	0.004	38.485	0.004	81.121	0.000	38.489	-0.000	3200
.001	2200	14.519	82.000	41.388	81.996	0.004	41.385	0.002	81.999	0.001	41.387	0.001	3400
.002	2400	14.557	82.831	44.296	82.828	0.003	44.295	0.001	82.830	0.001	44.294	0.002	3600
.002	2600	14.590	83.619	47.210	83.616	0.003	47.211	-0.001	83.618	0.001	47.209	0.001	3800
.002	2800	14.619	84.368	50.131	84.366	0.002	50.134	-0.003	84.367	0.001	50.130	0.001	4000
.002	3000	14.644	85.082	53.058	85.080	0.002	53.061	-0.003	85.081	0.001	53.057	0.001	4200
.001	3200	14.665	85.764	55.989	85.761	0.003	55.992	-0.003	85.763	0.001	55.988	0.001	4400
.001	3400	14.685	86.416	58.924	86.414	0.002	58.926	-0.002	86.415	0.001	58.923	0.001	4600
.000	3600	14.702	87.042	61.862	87.039	0.003	61.864	-0.002	87.040	0.002	61.862	-0.000	4800
.001	3800	14.717	87.642	64.804	87.639	0.003	64.804	0.000	87.641	0.001	64.805	-0.001	5000
.001	4000	14.730	88.220	67.749	88.216	0.004	67.747	0.002	88.218	0.002	67.749	-0.000	5200
.001	4200	14.743	88.776	70.696	88.772	0.004	70.693	0.003	88.775	0.001	70.697	-0.001	5400
.000	4400	14.753	89.312	73.646	89.308	0.004	73.643	0.003	89.311	0.001	73.646	0.000	5600
.001	4600	14.763	89.830	76.598	89.827	0.003	76.597	0.001	89.829	0.001	76.597	0.001	5800
.002	4800	14.772	90.331	79.551	90.328	0.003	79.556	-0.005	90.329	0.002	79.550	0.001	6000

MOLYBDENUM DIOXIDE

(G)

MO 10 2 0 0 0 0

668

MOL. WT. = 127.930

BLCK = 4932

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -3.100 KEY = 1046

FITS FOR NOTS RMS = 0.007920

2 8 1 42 0 0 0 0 0 0 0 MOLYBDENUM DIOXIDE (G) 10J 6681046
+1.4694705E+1-1.0156421E+0+3.7675166E-1-3.0255869E-2 400 600J 11J 6681046
-6.7951965E-1-9.4273920E+0+8.1518005E+1-3.0999994E+0MOO2(G) 12J 6681046

FITS FOR EST RMS LOW = 0.008593 RMS HIGH = 0.017034

2 8 1 42 0 0 0 0 0 0 0 MOLYBDENUM DIOXIDE (G) 10MOO2
-309999+4+361842+5+134204+2+230926-3-380912+6+960769+2 4003000J 66811MOO2
-309999+4+362057+5+135646+2+377587-3-597348+7+960769+230006000J 66812MOO2

H C/M	-----NOTS-----												-----EST-----			
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M				
.158	400	11.298	69.626	1.108	69.800	-0.174	1.176	-0.068	69.605	0.021	1.096	0.012				
.032	600	12.410	74.442	3.491	74.412	0.030	3.465	0.026	74.431	0.011	3.486	0.005				
.049	800	12.976	78.099	6.036	78.073	0.026	6.014	0.022	78.107	-0.008	6.043	-0.007				
.026	1000	13.282	81.030	8.664	81.020	0.010	8.657	0.007	81.041	-0.011	8.674	-0.010				
.000	1200	13.462	83.469	11.340	83.468	0.001	11.343	-0.003	83.475	-0.006	11.345	-0.005				
.015	1400	13.576	85.553	14.045	85.555	-0.002	14.051	-0.006	85.555	-0.002	14.044	0.001				
.019	1600	13.655	87.371	16.768	87.373	-0.002	16.774	-0.006	87.371	0.000	16.763	0.005				
.014	1800	13.717	88.983	19.506	88.984	-0.001	19.508	-0.002	88.982	0.001	19.499	0.007				
.005	2000	13.772	90.432	22.254	90.430	0.002	22.254	-0.000	90.431	0.001	22.250	0.004				
.004	2200	13.829	91.747	25.014	91.744	0.003	25.012	0.002	91.748	-0.001	25.014	0.000				
.011	2400	13.892	92.953	27.786	92.950	0.003	27.783	0.003	92.956	-0.003	27.790	-0.004				
.011	2600	13.964	94.067	30.572	94.065	0.002	30.569	0.003	94.071	-0.004	30.577	-0.005				
.003	2800	14.047	95.105	33.373	95.103	0.002	33.371	0.002	95.108	-0.003	33.375	-0.002				
.015	3000	14.138	96.077	36.191	96.076	0.001	36.191	0.000	96.077	0.000	36.184	0.007				
.003	3000	14.138	96.077	36.191	96.076	0.001	36.191	0.000	96.077	0.000	36.206	-0.015				
.000	3200	14.238	96.993	39.029	96.992	0.001	39.030	-0.001	96.988	0.005	39.028	0.001				
.001	3400	14.345	97.859	41.887	97.858	0.001	41.889	-0.002	97.852	0.007	41.881	0.006				
.002	3600	14.457	98.683	44.767	98.682	0.001	44.770	-0.003	98.675	0.008	44.760	0.007				
.001	3800	14.571	99.467	47.670	99.466	0.001	47.672	-0.002	99.461	0.006	47.665	0.005				
.001	4000	14.686	100.218	50.595	100.216	0.002	50.597	-0.002	100.212	0.006	50.594	0.001				
.001	4200	14.800	100.937	53.544	100.935	0.002	53.545	-0.001	100.932	0.005	53.546	-0.002				
.001	4400	14.912	101.628	56.515	101.626	0.002	56.515	0.000	101.623	0.005	56.519	-0.004				
.001	4600	15.021	102.293	59.509	102.291	0.002	59.508	0.001	102.289	0.004	59.512	-0.003				
.000	4800	15.125	102.935	62.523	102.933	0.002	62.522	0.001	102.930	0.005	62.526	-0.003				
.001	5000	15.224	103.554	65.558	103.552	0.002	65.557	0.001	103.549	0.005	65.559	-0.001				
.000	5200	15.317	104.153	68.613	104.151	0.002	68.612	0.001	104.147	0.006	68.611	0.002				
.001	5400	15.404	104.733	71.685	104.731	0.002	71.685	0.000	104.727	0.006	71.682	0.003				
.000	5600	15.485	105.295	74.774	105.293	0.002	74.775	-0.001	105.289	0.006	74.771	0.003				
.001	5800	15.558	105.839	77.878	105.838	0.001	77.879	-0.001	105.834	0.005	77.877	0.001				
.001	6000	15.625	106.368	80.997	106.366	0.002	80.996	0.001	106.363	0.005	81.001	-0.005				

MOLYBDENUM TRIOXIDE (G) MO 10 3 0 0 0 0 668 CRYO
 MOL. WT.= 143.930 BLOCK= 4939 NO. POINT = 62 MOL
 ATA FROM C TO 600C K HFORM(KCAL/(MOLE)) = -86.200 KEY =1047 DATA
 ITS FOR NOTS RMS = 0.004831 FITS
 8 1 42 0 0 0 0 0 0 MOLYBDENUM TRIOXIDE (G) 10J 6681047 6 9 3
 .9623321E+1+1.5877592E-1-3.6255206E-2+2.7974843E-3 400 6000 11J 6681047 +1.3894
 .4008178E-1-9.4322311E+1+8.7095077E+1-8.6199996E+1MOO3(G) 12J 6681047 -1.8382

 ITS FOR EST RMS LCW = 0.006048 RMS HIGH = 0.005968 FITS
 8 1 42 0 0 0 0 0 0 MOLYBDENUM TRIOXIDE (G) 10MOO3 6 9 3
 1999+5+514412+5+197173+2+494333-4-755984+6+109033+3 4003000J 66811MOO3 -774051
 1999+5+514431+5+199940+2-178553-4-175360+7+109033+330006000J 66812MOO3 -774051

-----NOTS-----													-----EST-----	
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T		
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C	
1														
12	15.917	71.373	1.546	71.488	-0.115	1.589	-0.043	71.497	-0.124	1.596	-0.050	400	56	
35	17.688	78.208	4.929	78.188	0.020	4.911	0.018	78.190	0.018	4.914	0.015	600	62	
37	18.532	83.426	8.561	83.410	0.016	8.546	0.015	83.412	0.014	8.550	0.011	800	94	
10	18.978	87.614	12.316	87.607	0.007	12.309	0.007	87.609	0.005	12.313	0.003	1000	94	
35	19.236	91.099	16.140	91.096	0.003	16.137	0.003	91.099	0.000	16.141	-0.001	1200	94	
31	19.398	94.077	20.004	94.076	0.001	20.004	-0.000	94.078	-0.001	20.008	-0.004	1400	94	
35	19.506	96.675	23.895	96.674	0.001	23.896	-0.001	96.676	-0.001	23.898	-0.003	1600	94	
37	19.581	98.977	27.804	98.976	0.001	27.805	-0.001	98.977	-0.000	27.806	-0.002	1800	94	
04	19.635	101.043	31.726	101.042	0.001	31.726	-0.000	101.042	0.001	31.726	-0.000	2000	94	
30	19.675	102.916	35.657	102.915	0.001	35.657	-0.000	102.915	0.001	35.656	0.001	2200	94	
04	19.706	104.629	39.596	104.628	0.001	39.595	0.001	104.628	0.001	39.594	0.002	2400	94	
05	19.730	106.208	43.539	106.207	0.001	43.539	-0.000	106.207	0.001	43.538	0.001	2600	94	
02	19.750	107.671	47.487	107.670	0.001	47.487	-0.000	107.670	0.001	47.487	-0.000	2800	94	
37	19.765	109.034	51.439	109.033	0.001	51.439	-0.000	109.034	0.000	51.441	-0.002	3000	94	
15	19.765	109.034	51.439	109.033	0.001	51.439	-0.000	109.034	0.000	51.443	-0.004			
01	19.778	110.310	55.393	110.309	0.001	55.394	-0.001	110.309	0.001	55.394	-0.001			
06	19.789	111.509	59.350	111.508	0.000	59.351	-0.001	111.508	0.001	59.349	0.001			
07	19.798	112.640	63.309	112.640	0.000	63.310	-0.001	112.639	0.001	63.307	0.002			
05	19.805	113.711	67.269	113.711	0.000	67.270	-0.001	113.709	0.002	67.267	0.002			
01	19.812	114.727	71.231	114.727	0.000	71.232	-0.001	114.725	0.002	71.229	0.002			
02	19.817	115.694	75.193	115.693	0.001	75.194	-0.001	115.692	0.002	75.192	0.001			
04	19.822	116.616	79.157	116.615	0.001	79.158	-0.001	116.614	0.002	79.156	0.001			
03	19.826	117.497	83.122	117.496	0.001	83.122	-0.000	117.496	0.001	83.122	0.000			
03	19.830	118.341	87.088	118.340	0.001	87.088	0.000	118.340	0.001	87.088	0.000			
01	19.833	119.150	91.054	119.150	0.000	91.053	0.001	119.149	0.001	91.055	-0.001			
02	19.836	119.928	95.021	119.927	0.001	95.020	0.001	119.927	0.001	95.022	-0.001			
03	19.839	120.677	98.988	120.676	0.001	98.987	0.001	120.676	0.001	98.989	-0.001			
03	19.841	121.399	102.956	121.398	0.001	102.955	0.001	121.397	0.002	102.957	-0.001			
01	19.843	122.095	106.925	122.094	0.001	106.925	0.000	122.094	0.001	106.924	0.001			
05	19.845	122.768	110.894	122.767	0.001	110.895	-0.001	122.766	0.002	110.892	0.002			

1268

FITS FOR NOTS RMS = 0.300806

(L) 20J12681048

21J 12681048

22J12681048

6 9 3 11 1 13 0 0 0 0 0 0 CRYOLITE

(L) 20ALF6NA 3*

-774051+6+238846+6+104776+3-335606-2-109695+8+252605+3 4003000J126822ALF6NA3*

-----EST-----

[illegible]

DICHLOROACETYLENE (G) C 2CL 2 1268
 MOL. WT. = 94.920 BLOCK = 4948 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = 50.100 KEY = 1049
 FITS FOR NOTS RMS = 0.012450
 6 2 17 0 0 0 0 0 0 0 DICHLOROACETYLENE (G) 10J12681049
 .9655410E+1+7.1407961E-1-1.5188068E-1+1.1023163E-2 400 6000 11J12681049
 .8198242E-1+4.2002685E+1+8.5345901E+1+5.0099990E+1C2CL2 (G) 12J12681049

FITS FOR EST RMS LOW = 0.019417 RMS HIGH = 0.006271
 6 2 17 0 0 0 0 0 0 0 DICHLOROACETYLENE (G) 10C2CL2
 .9999+5+532111+5+200949+2+236327-3-865376+6+108544+3 4003000J126811C2CL2
 .9999+5+532064+5+210004+2-200836-4-291788+7+108544+330006000J126812C2CL2

H C/M	CP C/M-K	S C/M-K	-----NOTS-----						-----EST-----				T K
			H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M		
.479	16.782	69.762	1.657	70.053	-0.291	1.774	-0.117	70.097	-0.335	1.795	-0.138	400	
.848	18.048	76.831	5.153	76.793	0.038	5.117	0.036	76.790	0.041	5.116	0.037	600	
.746	18.827	82.138	8.846	82.095	0.043	8.808	0.038	82.092	0.046	8.808	0.038	800	
.415	19.352	86.399	12.667	86.379	0.020	12.649	0.018	86.380	0.019	12.653	0.014	1000	
.137	19.713	89.962	16.576	89.955	0.007	16.573	0.003	89.959	0.003	16.580	-0.004	1200	
.300	19.966	93.020	20.545	93.020	0.000	20.550	-0.005	93.024	-0.004	20.557	-0.012	1400	
.271	20.148	95.699	24.557	95.700	-0.001	24.565	-0.008	95.703	-0.004	24.571	-0.013	1600	
.158	20.282	98.080	28.601	98.080	-0.000	28.607	-0.006	98.082	-0.002	28.609	-0.008	1800	
.028	20.382	100.223	32.668	100.222	0.001	32.672	-0.004	100.221	0.002	32.670	-0.002	2000	
.079	20.460	102.169	36.752	102.167	0.002	36.754	-0.002	102.165	0.004	36.749	0.003	2200	
.135	20.520	103.952	40.850	103.949	0.003	40.850	0.000	103.946	0.006	40.843	0.007	2400	
.121	20.568	105.596	44.959	105.592	0.003	44.957	0.002	105.591	0.005	44.953	0.006	2600	
.023	20.607	107.122	49.077	107.118	0.004	49.074	0.003	107.118	0.004	49.076	0.001	2800	
.170	20.639	108.545	53.202	108.541	0.004	53.199	0.003	108.545	0.000	53.211	-0.009	3000	
	20.639	108.545	53.202	108.541	0.004	53.199	0.003	108.545	0.000	53.206	-0.004	3000	
	20.665	109.878	57.332	109.874	0.004	57.330	0.002	109.877	0.001	57.333	-0.001	3200	
	20.687	111.131	61.468	111.128	0.003	61.467	0.001	111.130	0.001	61.466	0.002	3400	
	20.706	112.314	65.607	112.311	0.003	65.607	-0.000	112.312	0.002	65.605	0.002	3600	
	20.722	113.434	69.750	113.431	0.003	69.751	-0.001	113.432	0.002	69.747	0.003	3800	
	20.736	114.497	73.896	114.495	0.002	73.898	-0.002	114.495	0.002	73.893	0.003	4000	
	20.747	115.509	78.044	115.507	0.002	78.046	-0.002	115.508	0.001	78.042	0.002	4200	
	20.758	116.475	82.194	116.472	0.003	82.197	-0.003	116.473	0.002	82.193	0.001	4400	
	20.767	117.398	86.347	117.395	0.003	86.349	-0.002	117.396	0.002	86.347	0.000	4600	
	20.774	118.282	90.501	118.279	0.003	90.502	-0.001	118.280	0.002	90.501	-0.000	4800	
	20.781	119.130	94.657	119.127	0.003	94.656	0.001	119.129	0.001	94.657	-0.000	5000	
	20.788	119.945	98.814	119.942	0.003	98.812	0.002	119.944	0.001	98.815	-0.001	5200	
	20.793	120.730	102.972	120.726	0.004	102.969	0.003	120.728	0.002	102.973	-0.001	5400	
	20.798	121.486	107.131	121.483	0.003	107.129	0.002	121.485	0.001	107.131	-0.000	5600	
	20.803	122.216	111.291	122.213	0.003	111.290	0.001	122.214	0.002	111.291	0.000	5800	
	20.807	122.921	115.452	122.919	0.002	115.455	-0.003	122.920	0.001	115.450	0.002	6000	

CHLOROACETYLENE

(G) C 2H 1CL 1

1268

MOL. WT. = 60.480 BLOCK = 4954 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 51.100 KEY = 1050

FITS FOR NOTS RMS = 0.023799

1 1 2 6 1 17 0 0 0 0 0 CHLOROACETYLENE (G) 10J12681050
 +1.7291259E+1+1.9980068E+0-4.0863740E-1+2.8797954E-2 400 6000 11J12681050
 -9.9873352E-1+4.3133697E+1+7.4279266E+1+5.1099990E+1C2HCL (G) 12J12681050

FITS FOR EST RMS LOW = 0.040891 RMS HIGH = 0.006262

1 1 2 6 1 17 0 0 0 0 0 CHLOROACETYLENE (G) 10C2HCL
 +510999+5+501659+5+185530+2+675714-3-125451+7+977529+2 4003000J126811C2HCL
 +510999+5+501490+5+209421+2-131005-4-592025+7+977529+23C006000J126812C2HCL

-----NOTS-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	EST
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	KC/M
-0.138	400	14.394	61.840	1.400	62.324	-0.484	1.598	-0.198	62.464	-0.624	1.659	-0.259	
0.037	600	15.971	68.007	4.452	67.961	0.046	4.404	0.048	67.944	0.063	4.392	0.060	
0.038	800	16.981	72.748	7.753	72.674	0.074	7.688	0.065	72.654	0.094	7.675	0.078	
0.014	1000	17.746	76.623	11.229	76.582	0.041	11.194	0.035	76.576	0.047	11.193	0.036	
-0.004	1200	18.340	79.913	14.840	79.899	0.014	14.834	0.006	79.903	0.010	14.843	-0.003	
-0.012	1400	18.802	82.776	18.556	82.775	0.001	18.567	-0.011	82.782	-0.006	18.580	-0.024	
-0.013	1600	19.161	85.311	22.354	85.314	-0.003	22.371	-0.017	85.320	-0.009	22.382	-0.028	
-0.008	1800	19.442	87.585	26.215	87.587	-0.002	26.231	-0.016	87.589	-0.004	26.235	-0.020	
-0.002	2000	19.663	89.645	30.126	89.645	-0.000	30.137	-0.011	89.642	0.003	30.133	-0.007	
0.003	2200	19.839	91.528	34.077	91.525	0.003	34.082	-0.005	91.518	0.010	34.070	0.007	
0.007	2400	19.981	93.260	38.060	93.255	0.005	38.059	0.001	93.247	0.013	38.044	0.016	
0.006	2600	20.097	94.865	42.068	94.857	0.008	42.063	0.005	94.851	0.014	42.052	0.016	
0.001	2800	20.192	96.358	46.097	96.350	0.008	46.090	0.007	96.348	0.010	46.093	0.004	
-0.009	3000	20.271	97.753	50.144	97.745	0.008	50.137	0.007	97.753	0.000	50.166	-0.022	
-0.004	3000	20.271	97.753	50.144	97.745	0.008	50.137	0.007	97.753	0.000	50.149	-0.005	
-0.001	3200	20.337	99.064	54.205	99.056	0.008	54.199	0.006	99.062	0.002	54.206	-0.001	
0.002	3400	20.393	100.299	58.278	100.292	0.007	58.275	0.003	100.296	0.003	58.277	0.001	
0.002	3600	20.441	101.466	62.362	101.459	0.007	62.361	0.001	101.463	0.003	62.359	0.003	
0.003	3800	20.482	102.572	66.454	102.566	0.006	66.456	-0.002	102.569	0.003	66.452	0.002	
0.003	4000	20.517	103.623	70.554	103.618	0.004	70.558	-0.004	103.621	0.002	70.552	0.002	
0.002	4200	20.548	104.625	74.661	104.621	0.004	74.666	-0.005	104.623	0.002	74.659	0.002	
0.001	4400	20.575	105.582	78.773	105.577	0.005	78.778	-0.005	105.579	0.003	78.772	0.001	
0.000	4600	20.599	106.497	82.891	106.492	0.005	82.895	-0.004	106.495	0.002	82.890	0.001	
-0.000	4800	20.620	107.374	87.013	107.369	0.005	87.015	-0.002	107.372	0.002	87.013	0.000	
-0.000	5000	20.638	108.216	91.138	108.210	0.006	91.138	0.000	108.214	0.002	91.139	-0.001	
-0.001	5200	20.655	109.026	95.268	109.020	0.006	95.265	0.003	109.024	0.002	95.269	-0.001	
-0.001	5400	20.670	109.806	99.400	109.799	0.007	99.396	0.004	109.804	0.002	99.401	-0.001	
-0.000	5600	20.683	110.558	103.536	110.551	0.007	103.531	0.005	110.556	0.002	103.536	0.000	
0.000	5800	20.695	111.284	107.673	111.278	0.006	107.672	0.001	111.281	0.003	107.673	0.000	
0.002	6000	20.706	111.986	111.814	111.981	0.005	111.820	-0.006	111.983	0.003	111.812	0.002	

CALCIUM (G) CA 1 0 0 0 0 0 1268
 MOL. WT. = 40.080 BLOCK = 4974 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM (KCAL/(MOLE)) = 42.850 KEY = 1055
 FITS FOR NCTS RMS = 0.113322
 1 20 0 0 0 0 0 0 0 0 0 CALCIUM (G) 10J12681055
 +1.5024242E+1-9.5769508E+0+2.8283414E+0-2.1008569E-1 400 6000 11J12681055
 -2.5256042E+0+3.2524581E+1+4.9789215E+1+4.2849990E+1CA (G) 12J12681055

FITS FOR EST RMS LOW = 0.037163 RMS HIGH = 0.160182
 1 20 0 0 0 0 0 0 0 0 0 CALCIUM (G) 10CA
 +428499+5+137107+5+405887+1+458915-3+354031+6+485819+2 4003000J126811CA
 +428499+5+138459+5-483819+0+259674-2-167239+8+485819+230006000J126812CA

-----NOTIS-----													
-----EST-----													
H	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
.001	400	4.968	38.452	0.506	40.306	-1.854	1.291	-0.785	38.124	0.328	0.362	0.144	
.000	600	4.968	40.466	1.500	40.370	0.096	1.371	0.129	40.476	-0.010	1.515	-0.015	
.000	800	4.968	41.895	2.493	41.618	0.277	2.248	0.245	41.951	-0.056	2.538	-0.045	
.000	1000	4.968	43.004	3.487	42.819	0.185	3.326	0.161	43.048	-0.044	3.521	-0.034	
.000	1200	4.968	43.910	4.480	43.829	0.081	4.433	0.047	43.934	-0.024	4.493	-0.013	
.000	1400	4.969	44.675	5.474	44.661	0.014	5.512	-0.038	44.684	-0.009	5.466	0.008	
.000	1600	4.972	45.339	6.468	45.354	-0.015	6.551	-0.083	45.339	0.000	6.447	0.021	
.000	1800	4.982	45.925	7.463	45.945	-0.020	7.554	-0.091	45.923	0.002	7.440	0.023	
.000	2000	5.008	46.451	8.462	46.462	-0.011	8.534	-0.072	46.453	-0.002	8.446	0.016	
.000	2200	5.061	46.931	9.468	46.926	0.005	9.508	-0.040	46.939	-0.008	9.466	0.002	
.000	2400	5.153	47.375	10.489	47.355	0.020	10.494	-0.005	47.390	-0.015	10.503	-0.014	
.000	2600	5.299	47.792	11.533	47.761	0.031	11.509	0.024	47.811	-0.019	11.555	-0.022	
.000	2800	5.511	48.193	12.613	48.154	0.039	12.571	0.042	48.207	-0.014	12.624	-0.011	
.000	3000	5.796	48.582	13.742	48.542	0.040	13.694	0.048	48.582	0.000	13.711	0.031	
	3000	5.796	48.582	13.742	48.542	0.040	13.694	0.048	48.582	0.000	13.846	-0.104	
	3200	6.159	48.967	14.936	48.928	0.039	14.894	0.042	48.932	0.035	14.931	0.005	
	3400	6.600	49.353	16.211	49.319	0.034	16.182	0.029	49.304	0.049	16.160	0.051	
	3600	7.113	49.745	17.581	49.715	0.030	17.570	0.011	49.695	0.050	17.528	0.053	
	3800	7.688	50.145	19.060	50.120	0.025	19.067	-0.007	50.100	0.045	19.028	0.032	
	4000	8.312	50.555	20.660	50.534	0.021	20.681	-0.021	50.518	0.037	20.657	0.003	
	4200	8.966	50.976	22.387	50.957	0.019	22.416	-0.029	50.946	0.030	22.411	-0.024	
	4400	9.635	51.409	24.247	51.389	0.020	24.276	-0.029	51.382	0.027	24.286	-0.039	
	4600	10.320	51.852	26.241	51.831	0.021	26.262	-0.021	51.825	0.027	26.281	-0.040	
	4800	10.944	52.304	28.366	52.280	0.024	28.375	-0.009	52.275	0.029	28.394	-0.028	
	5000	11.553	52.763	30.616	52.737	0.026	30.612	0.004	52.729	0.034	30.622	-0.006	
	5200	12.115	53.227	32.984	53.199	0.028	32.968	0.016	53.189	0.038	32.966	0.018	
	5400	12.622	53.694	35.459	53.665	0.029	35.437	0.022	53.652	0.042	35.422	0.037	
	5600	13.067	54.161	38.029	54.133	0.028	38.012	0.017	54.119	0.042	37.991	0.038	
	5800	13.447	54.627	40.681	54.601	0.026	40.680	0.001	54.590	0.037	40.672	0.009	
	6000	13.763	55.088	43.403	55.067	0.021	43.430	-0.027	55.063	0.025	43.463	-0.060	

CA
M
DAT
FIT
2 9
-7.96
+1.04

FIT
2 5
-2930
-2930

		NOTS-----						EST-----						
DH		CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	
KC/M		C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
0.144		8.383	57.276	0.838	57.496	-0.220	0.930	-0.092	57.242	0.034	0.823	0.015	400	
0.015		8.702	60.745	2.552	60.733	0.012	2.535	0.017	60.745	-0.000	2.553	-0.001	600	
0.045		8.844	63.270	4.308	63.237	0.033	4.277	0.031	63.277	-0.007	4.313	-0.005	800	
0.034		8.923	65.253	6.085	65.230	0.023	6.064	0.021	65.258	-0.005	6.089	-0.004	1000	
0.013		8.976	66.885	7.875	66.874	0.011	7.868	0.007	66.888	-0.003	7.877	-0.002	1200	
0.008		9.016	68.271	9.674	68.269	0.002	9.677	-0.003	68.273	-0.002	9.674	0.000	1400	
0.021		9.049	69.477	11.481	69.479	-0.002	11.489	-0.008	69.477	-0.000	11.478	0.003	1600	
0.023		9.078	70.545	13.294	70.547	-0.002	13.303	-0.009	70.545	0.000	13.290	0.004	1800	
0.016		9.107	71.503	15.112	71.504	-0.001	15.120	-0.008	71.503	-0.000	15.110	0.002	2000	
0.002		9.137	72.372	16.936	72.372	0.000	16.941	-0.005	72.373	-0.001	16.936	0.000	2200	
0.014		9.172	73.169	18.767	73.167	0.002	18.768	-0.001	73.171	-0.002	18.769	-0.002	2400	
0.022		9.213	73.904	20.606	73.901	0.003	20.603	0.003	73.907	-0.003	20.608	-0.002	2600	
0.011		9.263	74.589	22.453	74.585	0.004	22.449	0.004	74.591	-0.002	22.455	-0.002		
0.031		9.323	75.230	24.311	75.226	0.004	24.307	0.004	75.230	0.000	24.307	0.004		
-0.104		9.323	75.230	24.311	75.226	0.004	24.307	0.004	75.230	0.000	24.313	-0.002		
0.005		9.395	75.834	26.183	75.830	0.004	26.179	0.004	75.834	0.000	26.184	-0.001		
0.051		9.478	76.406	28.070	76.402	0.004	28.067	0.003	76.405	0.001	28.070	0.000		
0.053		9.573	76.950	29.975	76.947	0.003	29.974	0.001	76.949	0.001	29.974	0.001		
0.032		9.679	77.471	31.900	77.468	0.003	31.901	-0.001	77.469	0.001	31.898	0.002		
0.003		9.795	77.970	33.847	77.968	0.002	33.849	-0.002	77.969	0.001	33.846	0.001		
-0.024		9.920	78.451	35.819	78.449	0.002	35.822	-0.003	78.450	0.001	35.818	0.001		
-0.039		10.053	78.915	37.816	78.913	0.002	37.819	-0.003	78.915	0.000	37.816	0.000		
-0.040		10.193	79.365	39.840	79.363	0.002	39.843	-0.003	79.365	0.000	39.841	-0.001		
-0.028		10.338	79.802	41.893	79.800	0.002	41.895	-0.002	79.802	0.000	41.894	-0.001		
-0.006		10.487	80.227	43.976	80.224	0.003	43.976	0.000	80.227	0.000	43.977	-0.001		
0.018		10.638	80.642	46.088	80.638	0.004	46.086	0.002	80.641	0.001	46.089	-0.001		
0.037		10.791	81.046	48.231	81.042	0.004	48.228	0.003	81.045	0.001	48.231	0.000		
0.038		10.945</												

1268

FITS FOR NOTS RMS = 0.305177

2 9 1 20 0 0 0 0 0 0 0 CALCIUM DIFLUORIDE (C) 30J12681057
-7.9612182E+1+1.5070663E+2-7.0698760E+1+1.1194580E+1 400 2700 31J12681057
+1.0452743E+1-2.4441696E+2-7.5166809E+1-2.9300000E+2CAF2 (C) 32J12681057

DATE	FOR	EST	MS	LOW	00471047	MS	HIGH	00491049
2	9	1	20	0	0	0	0	0
0	0	0	0	0	0	0	0	0
CALCIUM DIFLUORIDE								(C) 30CAF2\$

-293000+6+739728+5+287949+2+180606-2-584006+7+711765+2 4002700J126831CAF2\$

-293000+6+739728+5+287949+2+180606-2-584006+7+711765+2 4002700J126832CAF2\$

-----NOTS-----

-----EST-----

[illegible]

CALCIUM DIFLUORIDE

(L)

CA 1F 2

1268

MOL. WT. = 78.070

BLOCK= 4989

NO. POINT = 39

DATA FROM 298 TO 4000 K HFORM(KCAL/(MOLE)) = -283.477 KEY =1058

FITS FOR NOTS RMS = 0.065551

9 1 20 0 0 0 0 0 0 0 CALCIUM DIFLUORIDE

(L) 20J12681058

2.7112258E+1-1.8319644E+0+3.1742298E-1-1.1458348E-2 400 4000

21J12681058

2.7677612E+0-2.9892626E+2+4.5186233E+1-2.8347680E+2CAF2 (L)

22J12681058

FITS FOR EST RMS LOW =

0.090399 RMS HIGH =

0.090399

9 1 20 0 0 0 0 0 0 0 CALCIUM DIFLUORIDE

(L) 20CAF2*

283476+6+612025+5+249476+2-270751-3-197177+7+709669+2 4004000J126821CAF2*

283476+6+612025+5+249476+2-270751-3-197177+7+709669+2 4004000J126822CAF2*

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DH

KC/M

2.030

0.541

0.841

0.375

0.343

1.085

0.080

0.125

0.116

0.076

0.019

0.044

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	17.654	27.158	1.747	28.285	-1.127	2.175	-0.428	27.456	-0.298	1.808	-0.061	40
600	18.766	34.529	5.391	34.138	0.391	5.124	0.267	34.094	0.435	5.127	0.264	60
800	20.057	40.099	9.269	39.933	0.166	9.167	0.102	40.019	0.080	9.257	0.012	80
1000	23.880	44.732	13.426	44.893	-0.161	13.618	-0.192	44.977	-0.245	13.705	-0.279	100
1200	23.880	49.086	18.202	49.114	-0.028	18.250	-0.048	49.170	-0.084	18.306	-0.104	120
1400	23.880	52.767	22.978	52.751	0.016	22.969	0.009	52.780	-0.013	22.991	-0.013	140
1600	23.880	55.955	27.754	55.929	0.026	27.730	0.024	55.939	0.016	27.723	0.031	160
1800	23.880	58.768	32.530	58.744	0.024	32.509	0.021	58.743	0.025	32.483	0.047	180
2000	23.880	61.284	37.306	61.265	0.019	37.296	0.010	61.259	0.025	37.260	0.046	200
2200	23.880	63.560	42.082	63.546	0.014	42.082	0.000	63.540	0.020	42.047	0.035	220
2400	23.880	65.638	46.858	65.627	0.011	46.865	-0.007	65.624	0.014	46.837	0.021	240
2600	23.880	67.549	51.634	67.540	0.009	51.644	-0.010	67.542	0.007	51.628	0.006	260
2800	23.880	69.319	56.410	69.309	0.010	56.419	-0.009	69.316	0.003	56.417	-0.007	280
3000	23.880	70.967	61.186	70.955	0.012	61.191	-0.005	70.967	0.000	61.202	-0.017	300
3200	23.880	72.508	65.962	72.495	0.013	65.962	0.000	72.510	-0.002	65.983	-0.021	320
3400	23.880	73.955	70.738	73.941	0.014	70.733	0.005	73.957	-0.002	70.758	-0.020	340
3600	23.880	75.320	75.514	75.306	0.014	75.508	0.006	75.320	0.000	75.525	-0.011	360
3800	23.880	76.612	80.290	76.598	0.014	80.287	0.003	76.606	0.006	80.286	0.004	380
4000	23.880	77.836	85.066	77.825	0.011	85.074	-0.008	77.825	0.011	85.038	0.028	400

I

I

2

+1.

-1.

F

2

-18

-18

T

K

40

60

80

100

120

140

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180

200

220

240

260

280

300

320

340

360

380

400

420

440

460

480

500

520

540

560

580

600

CALCIUM DIFLUORIDE (G) CA 1F 2 1268
 MOL. WT. = 78.070 BLCCK= 4993 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -187.500 KEY =1059
 FITS FOR NOTS RMS = 0.002314
 2 9 1 20 0 0 0 0 0 0 0 CALCIUM DIFLUORIDE (G) 10J12681059
 +1.3902036E+1+7.6532E10E-3-2.4851071E-3+2.4746963E-4 400 6000 11J12681059
 -1.8272399E-1-1.9223019E+2+8.1290374E+1-1.8750000E+2CAF2 (G) 12J12681059

FITS FOR EST RMS LOW = 0.000823 RMS HIGH = 0.004359
 2 9 1 20 0 0 0 0 0 0 0 CALCIUM DIFLUORIDE (G) 10CAF2
 -187500+6+370531+5+139013+2+266294-5-180560+6+965869+2 4003000J126811CAF2
 -187500+6+370560+5+140070+2-141934-4-813568+6+965869+230006000J126812CAF2

-----NOTS-----														-----EST-----			
H	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH					
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M					
.061	400	12.875	69.110	1.283	69.126	-0.016	1.288	-0.005	69.124	-0.015	1.289	-0.006					
.264	600	13.408	74.449	3.920	74.447	0.002	3.917	0.003	74.448	0.001	3.919	0.001					
.012	800	13.619	78.339	6.626	78.336	0.003	6.622	0.004	78.338	0.001	6.625	0.001					
.279	1000	13.721	81.391	9.361	81.388	0.003	9.358	0.003	81.390	0.001	9.360	0.001					
.104	1200	13.778	83.898	12.111	83.896	0.002	12.109	0.002	83.897	0.001	12.111	0.000					
.013	1400	13.812	86.024	14.870	86.023	0.001	14.869	0.001	86.024	0.000	14.870	-0.000					
.031	1600	13.835	87.870	17.635	87.869	0.001	17.634	0.001	87.870	0.000	17.635	-0.000					
.047	1800	13.851	89.501	20.404	89.500	0.001	20.403	0.001	89.500	0.001	20.404	-0.000					
.046	2000	13.862	90.961	23.175	90.960	0.001	23.175	0.000	90.960	0.001	23.175	-0.000					
.035	2200	13.870	92.282	25.949	92.282	-0.000	25.948	0.001	92.282	0.000	25.948	0.001					
.021	2400	13.877	93.489	28.723	93.489	-0.000	28.723	-0.000	93.489	-0.000	28.723	-0.000					
.006	2600	13.881	94.600	31.499	94.600	-0.000	31.499	-0.000	94.600	0.000	31.499	0.000					
.007	2800	13.885	95.629	34.276	95.629	-0.000	34.276	-0.000	95.629	0.000	34.276	0.000					
.017	3000	13.889	96.587	37.053	96.587	-0.000	37.054	-0.001	96.587	0.000	37.053	-0.000					
.021	3000	13.889	96.587	37.053	96.587	-0.000	37.054	-0.001	96.587	0.000	37.056	-0.003					
.020	3200	13.891	97.484	39.831	97.484	0.000	39.832	-0.001	97.483	0.001	39.832	-0.001					
.011	3400	13.893	98.326	42.610	98.326	-0.000	42.610	-0.000	98.324	0.002	42.609	0.001					
.004	3600	13.895	99.120	45.388	99.120	-0.000	45.389	-0.001	99.118	0.002	45.387	0.001					
.028	3800	13.897	99.871	48.168	99.872	-0.001	48.168	-0.000	99.870	0.001	48.166	0.002					
	4000	13.898	100.584	50.947	100.584	-0.000	50.948	-0.001	100.583	0.001	50.946	0.001					
	4200	13.899	101.262	53.727	101.262	-0.000	53.727	-0.000	101.261	0.001	53.726	0.001					
	4400	13.900	101.909	56.507	101.909	-0.000	56.507	0.000	101.907	0.002	56.506	0.001					
	4600	13.901	102.527	59.287	102.527	0.000	59.287	0.000	102.525	0.001	59.287	0.000					
	4800	13.902	103.118	62.067	103.118	-0.000	62.067	-0.000	103.117	0.001	62.067	-0.000					
	5000	13.902	103.686	64.848	103.686	0.000	64.847	0.001	103.685	0.001	64.848	-0.000					
	5200	13.903	104.231	67.628	104.231	-0.000	67.628	0.000	104.230	0.001	67.629	-0.001					
	5400	13.903	104.756	70.409	104.756	0.000	70.408	0.001	104.755	0.001	70.409	-0.000					
	5600	13.904	105.262	73.190	105.262	0.000	73.189	0.001	105.260	0.002	73.190	0.000					
	5800	13.904	105.749	75.970	105.750	-0.001	75.970	-0.000	105.748	0.001	75.970	0.000					
	6000	13.905	106.221	78.751	106.221	0.000	78.751	-0.000	106.219	0.002	78.750	0.001					

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MOLYBDENUM TETRACHLORIDE (G) CL 4MO 1 0 0 0 0 1268
 MCL. WT.= 237.750 BLOCK= 5003 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -92.000 KEY =1062
 ITS FOR NOTS RMS = 0.014000
 17 1 42 0 0 0 0 0 0 0 MOLYBDENUM TETRACHLORIDE (G) 10J12681062
 5529754E+1+1.5581250E-2+1.0586526E-1-1.2524124E-2 400 6000 11J12681062
 7890625E-2-1.0005015E+2+1.1886860E+2-9.2000000E+1CL4MO (G) 12J12681062

ITS FOR EST RMS LOW = 0.009285 RMS HIGH = 0.010029
 17 1 42 0 0 0 0 0 0 0 MOLYBDENUM TETRACHLORIDE (G) 10CL4MO
 00000+5+693161+5+253911+2+250429-3-953600+5+147325+3 4003000J126811CL4MO
 00000+5+693326+5+270530+2-919733-5-829849+7+147325+330006000J126812CL4MO

-----NOTS-----												
-----EST-----												
DH	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
6 -0.001	24.412	95.911	2.443	95.765	0.146	2.376	0.067	95.807	0.104	2.399	0.044	
5 -0.000	25.168	105.981	7.415	105.977	0.004	7.415	-0.000	105.987	-0.006	7.423	-0.008	
5 0.000	25.452	113.266	12.481	113.285	-0.019	12.496	-0.015	113.283	-0.017	12.496	-0.015	
5 0.000	25.587	118.961	17.587	118.977	-0.016	17.598	-0.011	118.973	-0.012	17.596	-0.009	
5 0.000	25.663	123.634	22.712	123.641	-0.007	22.715	-0.003	123.637	-0.003	22.713	-0.001	
5 0.000	25.714	127.594	27.850	127.595	-0.001	27.845	0.005	127.593	0.001	27.845	0.005	
5 0.000	25.756	131.030	32.997	131.028	0.002	32.987	0.010	131.028	0.002	32.990	0.007	
5 -0.000	25.799	134.066	38.153	134.063	0.003	38.141	0.012	134.064	0.002	38.147	0.006	
5 -0.000	25.848	136.787	43.317	136.785	0.002	43.308	0.009	136.787	0.000	43.315	0.002	
5 -0.000	25.904	139.253	48.493	139.253	0.000	48.486	0.007	139.255	-0.002	48.494	-0.001	
5 -0.000	25.967	141.510	53.680	141.511	-0.001	53.678	0.002	141.513	-0.003	53.684	-0.004	
5 0.000	26.035	143.591	58.880	143.594	-0.003	58.882	-0.002	143.594	-0.003	58.884	-0.004	
	26.106	145.523	64.094	145.527	-0.004	64.099	-0.005	145.525	-0.002	64.095	-0.001	
	26.177	147.326	69.322	147.331	-0.005	69.329	-0.007	147.326	0.000	69.316	0.006	
	26.177	147.326	69.322	147.331	-0.005	69.329	-0.007	147.326	0.000	69.333	-0.011	
	26.247	149.018	74.564	149.023	-0.005	74.572	-0.008	149.014	0.004	74.565	-0.001	
	26.315	150.611	79.821	150.616	-0.005	79.827	-0.006	150.606	0.005	79.817	0.004	
	26.378	152.117	85.090	152.121	-0.004	85.094	-0.004	152.112	0.005	85.085	0.005	
	26.437	153.545	90.372	153.548	-0.003	90.373	-0.001	153.540	0.005	90.368	0.004	
	26.490	154.903	95.664	154.905	-0.002	95.664	0.000	154.898	0.005	95.662	0.002	
	26.537	156.196	100.967	156.198	-0.002	100.965	0.002	156.192	0.004	100.966	0.001	
	26.580	157.432	106.279	157.434	-0.002	106.276	0.003	157.427	0.005	106.279	-0.000	
	26.617	158.614	111.599	158.616	-0.002	111.595	0.004	158.610	0.004	111.599	-0.000	
	26.649	159.747	116.925	159.750	-0.003	116.923	0.002	159.743	0.004	116.926	-0.001	
	26.677	160.836	122.258	160.839	-0.003	122.257	0.001	160.832	0.004	122.259	-0.001	
	26.701	161.883	127.596	161.886	-0.003	127.597	-0.001	161.879	0.004	127.596	0.000	
	26.721	162.891	132.938	162.894	-0.003	132.940	-0.002	162.887	0.004	132.938	0.000	
	26.739	163.863	138.284	163.866	-0.003	138.287	-0.003	163.859	0.004	138.283	0.001	
	26.753	164.801	143.633	164.804	-0.003	143.634	-0.001	164.797	0.004	143.632	0.001	
	26.765	165.709	148.985	165.711	-0.002	148.980	0.005	165.704	0.005	148.984	0.001	

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T	NOTS						EST						T
	CP	S	H	SC	LS	HC	DH	SC	DS	HC	DH		
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
01	400	29.868	103.642	2.984	103.391	0.251	2.874	0.110	103.551	0.091	2.947	0.037	100
00	600	30.895	115.985	9.079	116.002	-0.017	9.094	-0.015	115.999	-0.014	9.091	-0.012	500
00	800	31.280	124.933	15.301	124.970	-0.037	15.330	-0.029	124.948	-0.015	15.314	-0.013	500
00	1000	31.470	131.935	21.578	131.955	-0.020	21.591	-0.013	131.940	-0.005	21.581	-0.004	700
00	1200	31.594	137.685	27.885	137.689	-0.004	27.882	0.003	137.683	0.002	27.881	0.004	500
00	1400	31.701	142.563	34.215	142.560	0.003	34.202	0.013	142.559	0.004	34.209	0.006	500
00	1600	31.809	146.803	40.566	146.798	0.005	40.550	0.016	146.800	0.003	40.561	0.005	500
00	1800	31.924	150.556	46.939	150.553	0.003	46.925	0.014	150.555	0.001	46.938	0.001	100
00	2000	32.042	153.926	53.336	153.925	0.001	53.327	0.009	153.926	-0.000	53.337	-0.001	200
00	2200	32.162	156.985	59.756	156.987	-0.002	59.753	0.003	156.987	-0.002	59.758	-0.002	300
00	2400	32.278	159.789	66.200	159.793	-0.004	66.202	-0.002	159.790	-0.001	66.202	-0.002	400
00	2600	32.389	162.377	72.667	162.382	-0.005	72.672	-0.005	162.377	-0.000	72.667	-0.000	500
	2800	32.492	164.781	79.155	164.787	-0.006	79.162	-0.007	164.781	0.000	79.154	0.001	
	3000	32.586	167.026	85.663	167.032	-0.006	85.670	-0.007	167.026	0.000	85.662	0.001	
	3000	32.586	167.026	85.663	167.032	-0.006	85.670	-0.007	167.026	0.000	85.676	-0.013	
	3200	32.671	169.132	92.189	169.138	-0.006	92.195	-0.006	169.128	0.004	92.190	-0.001	
	3400	32.746	171.115	98.731	171.120	-0.005	98.736	-0.005	171.109	0.006	98.726	0.005	
	3600	32.812	172.988	105.287	172.993	-0.005	105.290	-0.003	172.983	0.005	105.281	0.006	
	3800	32.868	174.764	111.855	174.768	-0.004	111.856	-0.001	174.758	0.006	111.850	0.005	
	4000	32.916	176.451	118.433	176.455	-0.004	118.433	0.000	176.446	0.005	118.430	0.003	
	4200	32.955	178.058	125.021	178.062	-0.004	125.019	0.002	178.053	0.005	125.019	0.002	
	4400	32.986	179.592	131.615	179.595	-0.003	131.612	0.003	179.587	0.005	131.615	0.000	
	4600	33.011	181.059	138.215	181.062	-0.003	138.212	0.003	181.055	0.004	138.215	-0.000	
	4800	33.028	182.464	144.819	182.468	-0.004	144.817	0.002	182.460	0.004	144.820	-0.001	
	5000	33.040	183.813	151.426	183.817	-0.004	151.425	0.001	183.808	0.005	151.427	-0.001	
	5200	33.047	185.109	158.034	185.113	-0.004	158.035	-0.001	185.104	0.005	158.035	-0.001	
	5400	33.049	186.356	164.644	186.360	-0.004	164.64						

MOLYBDENUM HEXACHLORIDE

(G) CL 6MO 1

1268

MOL. WT. = 308.650 BLOCK = 5020 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -105.000 KEY = 1067

FITS FOR NOTS RMS = 0.005650

6 17 1 42 0 0 0 0 0 0 0 MOLYBDENUM HEXACHLORIDE (G) 10J12681067
 +3.7769027E+1+7.0769200E-4-2.7312284E-3+4.0348339E-4 400 6000 11J12681067
 -3.3471679E-1-1.1735314E+2+1.4419543E+2-1.0500000E+2CL6MO (G) 12J12681067

FITS FOR EST RMS LOW = 0.000910 RMS HIGH = 0.011411

6 17 1 42 0 0 0 0 0 0 0 MOLYBDENUM HEXACHLORIDE (G) 10CL6MO
 -105000+6+101050+6+377516+2+138773-5-325344+6+185699+3 4003000J126811CL6MO
 -105000+6+101058+6+380200+2-383790-4-204672+7+185699+330006000J126812CL6MO

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	CS	HC	DH	SC	DS	HC	DH
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
043	400	35.815	110.612	3.587	110.634	-0.022	3.591	-0.004	110.629	-0.017	3.594	-0.007
015	600	36.859	125.371	10.874	125.367	0.004	10.866	0.008	125.371	-0.000	10.874	0.000
043	800	37.244	136.035	18.290	136.029	0.006	18.280	0.010	136.035	0.000	18.289	0.001
022	1000	37.427	144.368	25.759	144.362	0.006	25.750	0.009	144.367	0.001	25.758	0.001
011	1200	37.526	151.201	33.255	151.197	0.004	33.248	0.007	151.201	0.000	33.254	0.001
027	1400	37.587	156.991	40.767	156.988	0.003	40.761	0.006	156.991	0.000	40.766	0.001
021	1600	37.626	162.013	48.288	162.011	0.002	48.284	0.004	162.012	0.001	48.288	-0.000
004	1800	37.654	166.446	55.817	166.445	0.001	55.814	0.003	166.446	0.000	55.816	0.001
011	2000	37.673	170.414	63.349	170.414	0.000	63.348	0.001	170.414	-0.000	63.349	-0.000
017	2200	37.687	174.006	70.885	174.006	0.000	70.885	-0.000	174.006	0.000	70.885	-0.000
009	2400	37.698	177.285	78.424	177.286	-0.001	78.425	-0.001	177.285	-0.000	78.424	0.000
013	2600	37.707	180.303	85.965	180.304	-0.001	85.966	-0.001	180.303	-0.000	85.964	0.001
	2800	37.714	183.098	93.507	183.099	-0.001	93.509	-0.002	183.098	0.000	93.507	0.000
	3000	37.719	185.700	101.050	185.701	-0.001	101.052	-0.002	185.700	0.000	101.050	0.000
	3000	37.719	185.700	101.050	185.701	-0.001	101.052	-0.002	185.700	0.000	101.050	-0.009
	3200	37.724	188.134	108.594	188.135	-0.002	108.597	-0.003	188.132	0.002	108.596	-0.002
	3400	37.727	190.421	116.139	190.423	-0.002	116.142	-0.003	190.418	0.003	116.137	0.002
	3600	37.730	192.578	123.685	192.579	-0.001	123.687	-0.002	192.574	0.004	123.681	0.004
	3800	37.733	194.618	131.231	194.619	-0.001	131.233	-0.002	194.614	0.004	131.227	0.004
	4000	37.735	196.554	138.778	196.554	-0.000	138.780	-0.002	196.549	0.004	138.774	0.004
	4200	37.737	198.395	146.326	198.395	-0.000	146.327	-0.001	198.391	0.004	146.322	0.004
	4400	37.739	200.150	153.873	200.151	-0.001	153.874	-0.001	200.147	0.003	153.871	0.002
	4600	37.740	201.828	161.421	201.828	-0.000	161.421	-0.000	201.825	0.003	161.420	0.001
	4800	37.742	203.434	168.969	203.435	-0.001	168.969	0.000	203.431	0.003	168.970	-0.001
	5000	37.743	204.975	176.518	204.975	-0.000	176.517	0.001	204.972	0.003	176.519	-0.001
	5200	37.744	206.455	184.066	206.455	-0.000	184.065	0.001	206.452	0.003	184.068	-0.002
	5400	37.745	207.880	191.615	207.880	0.000	191.614	0.001	207.877	0.003	191.617	-0.002
	5600	37.746	209.252	199.164	209.253	-0.001	199.164	0.000	209.249	0.003	199.165	-0.001
	5800	37.746	210.577	206.714	210.577	-0.000	206.713	0.001	210.574	0.003	206.713	0.001
	6000	37.747	211.857	214.263	211.857	-0.000	214.264	-0.001	211.853	0.004	214.260	0.003

DICESIUM MONOXIDE

(G) CS 20 1

1268

MOL. WT. = 281.800

BLOCK = 5032

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -22.000 KEY = 1069

FITS FOR NOTS RMS = 0.002301

1 8 2 55 0 0 0 0 0 0 0 DICESIUM MONOXIDE (G) 10J12681069
 +1.3912089E+1+3.2972744E-3-1.9371639E-3+2.3671024E-4 400 6000 11J12681069
 -6.7169189E-2-2.6368194E+1+9.2474227E+1-2.2000000E+1CS20(G) 12J12681069

FITS FOR EST RMS LOW = 0.000553 RMS HIGH = 0.004371

1 8 2 55 0 0 0 0 0 0 0 DICESIUM MONOXIDE (G) 10CS20
 -220000+5+373918+5+139098+2+150025-6-648960+5+107764+3 4003000J126811CS20
 -220000+5+373948+5+140022+2-133985-4-660736+6+107764+330006000J126812CS20

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.001	400	13.521	79.933	1.365	79.938	-0.005	1.365	0.000	79.937	-0.004	1.366	-0.001	
0.000	600	13.732	85.464	4.094	85.463	0.001	4.091	0.003	85.464	-0.000	4.094	-0.000	
0.001	800	13.809	89.426	6.849	89.424	0.002	6.846	0.003	89.426	-0.000	6.849	0.000	
0.000	1000	13.845	92.512	9.615	92.510	0.002	9.612	0.003	92.512	0.000	9.615	0.000	
0.000	1200	13.865	95.038	12.386	95.037	0.001	12.384	0.002	95.038	-0.000	12.386	0.000	
0.001	1400	13.877	97.176	15.161	97.175	0.001	15.158	0.003	97.176	-0.000	15.160	0.001	
0.000	1600	13.885	99.030	17.937	99.029	0.001	17.935	0.002	99.030	0.000	17.936	0.001	
0.000	1800	13.890	100.666	20.714	100.665	0.001	20.713	0.001	100.666	0.000	20.714	0.000	
0.000	2000	13.894	102.129	23.493	102.129	-0.000	23.492	0.001	102.129	-0.000	23.492	0.001	
0.000	2200	13.897	103.454	26.272	103.454	0.000	26.271	0.001	103.454	0.000	26.272	0.000	
0.000	2400	13.899	104.663	29.051	104.663	-0.000	29.051	-0.000	104.663	-0.000	29.051	-0.000	
0.000	2600	13.900	105.775	31.831	105.776	-0.001	31.832	-0.001	105.776	-0.001	31.831	-0.000	
0.000	2800	13.902	106.806	34.611	106.806	-0.000	34.612	-0.001	106.806	0.000	34.611	-0.000	
0.000	3000	13.903	107.765	37.392	107.765	-0.000	37.393	-0.001	107.765	0.000	37.392	0.000	
0.002	3000	13.903	107.765	37.392	107.765	-0.000	37.393	-0.001	107.765	0.000	37.395	-0.003	
0.001	3200	13.904	108.662	40.173	108.663	-0.001	40.173	-0.000	108.662	0.000	40.173	-0.000	
0.000	3400	13.904	109.505	42.953	109.505	-0.000	42.954	-0.001	109.504	0.001	42.953	0.000	
0.001	3600	13.905	110.300	45.734	110.300	-0.000	45.735	-0.001	110.299	0.001	45.733	0.001	
0.002	3800	13.906	111.052	48.515	111.052	-0.000	48.516	-0.001	111.050	0.002	48.514	0.001	
0.001	4000	13.906	111.765	51.297	111.765	-0.000	51.297	-0.000	111.764	0.001	51.295	0.002	
0.001	4200	13.906	112.443	54.078	112.444	-0.001	54.078	-0.000	112.442	0.001	54.077	0.001	
0.000	4400	13.907	113.090	56.859	113.091	-0.001	56.859	-0.000	113.089	0.001	56.858	0.001	
0.000	4600	13.907	113.709	59.641	113.709	0.000	59.641	0.000	113.708	0.001	59.640	0.001	
0.000	4800	13.907	114.300	62.422	114.301	-0.001	62.422	0.000	114.300	0.000	62.422	-0.000	
0.001	5000	13.908	114.868	65.204	114.868	-0.000	65.203	0.001	114.867	0.001	65.204	-0.000	
0.001	5200	13.908	115.414	67.985	115.414	0.000	67.985	0.000	115.413	0.001	67.986	-0.001	
0.000	5400	13.908	115.938	70.767	115.939	-0.001	70.766	0.001	115.938	0.000	70.767	-0.000	
0.000	5600	13.908	116.444	73.548	116.445	-0.001	73.548	0.000	116.444	0.000	73.549	-0.001	
0.001	5800	13.908	116.932	76.330	116.933	-0.001	76.330	0.000	116.932	0.000	76.330	0.000	
0.001	6000	13.908	117.404	79.112	117.404	-0.000	79.112	-0.000	117.403	0.001	79.111	0.001	

POTASSIUM DIFLUORIDE UNINEG. ION (G) F 2K 1- 1 1268
 MOL. WT.= 77.090 BLOCK= 5039 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM (KCAL/(MOLE)) = -166.000 KEY =1070
 ITS FOR NOTS RMS = 0.002420
 -1 2 9 1 19 0 0 0 0 0 POTASSIUM DIFLUORIDE UNINEG. ION (G) 10J12681070
 .4904101E+1+3.4025767E-3-1.8021203E-3+2.1519110E-4 400 6000 11J12681070
 .3587951E-1-1.7088223E+2+7.9886764E+1-1.6600000E+2F2K- (G) 12J12681070

LI'
 M
 DAT.
 FIT:
 1 -1
 +1.46
 -5.03

ITS FOR EST RMS LOW = 0.000660 RMS HIGH = 0.004548
 -1 2 9 1 19 0 0 0 0 0 POTASSIUM DIFLUORIDE UNINEG. ION (G) 10F2K-
 .0000+6+398781+5+148987+2+168778-5-132304+6+962719+2 4003000J126811F2K-
 .0000+6+398814+5+150070+2-150876-4-804352+6+962719+230006000J126812F2K-

FIT:
 1 -1
 -1700
 -1700

C/M	-----NOTS-----								-----EST-----				T K
	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M		
.001	14.130	66.645	1.417	66.656	-0.011	1.419	-0.002	66.654	-0.009	1.420	-0.003	400	
.000	14.537	72.466	4.291	72.464	0.002	4.287	0.004	72.466	0.000	4.290	0.001	600	
.000	14.693	76.672	7.216	76.669	0.003	7.212	0.004	76.672	0.000	7.215	0.001	800	
.000	14.767	79.960	10.162	79.957	0.003	10.159	0.003	79.959	0.001	10.162	-0.000	1000	
.000	14.808	82.656	13.120	82.654	0.002	13.117	0.003	82.656	0.000	13.120	-0.000	1200	
.001	14.833	84.941	16.085	84.939	0.002	16.082	0.003	84.941	0.000	16.085	0.000	1400	
.001	14.850	86.922	19.053	86.922	0.000	19.051	0.002	86.923	-0.001	19.053	0.000	1600	
.000	14.861	88.672	22.024	88.672	0.000	22.023	0.001	88.672	-0.000	22.024	-0.000	1800	
.001	14.869	90.238	24.997	90.238	-0.000	24.997	0.000	90.239	-0.001	24.997	-0.000	2000	
.000	14.875	91.656	27.972	91.656	0.000	27.972	0.000	91.656	-0.000	27.972	0.000	2200	
.000	14.880	92.950	30.947	92.951	-0.001	30.947	-0.000	92.951	-0.001	30.947	-0.000	2400	
.000	14.883	94.142	33.924	94.142	0.000	33.924	-0.000	94.142	0.000	33.924	0.000	2600	
.000	14.886	95.245	36.901	95.245	-0.000	36.901	-0.000	95.245	0.000	36.901	0.000	2800	
.000	14.888	96.272	39.878	96.272	-0.000	39.879	-0.001	96.272	0.000	39.878	-0.000	3000	
.003	14.888	96.272	39.878	96.272	-0.000	39.879	-0.001	96.272	0.000	39.881	-0.003	3000	
.000	14.890	97.233	42.856	97.233	-0.000	42.857	-0.001	97.232	0.001	42.857	-0.001	3200	
.000	14.892	98.135	45.834	98.136	-0.001	45.835	-0.001	98.134	0.001	45.833	0.001	3400	
.001	14.893	98.987	48.812	98.987	-0.000	48.813	-0.001	98.985	0.002	48.811	0.001	3600	
.001	14.894	99.792	51.791	99.792	-0.000	51.792	-0.001	99.791	0.001	51.790	0.001	3800	
.002	14.895	100.556	54.770	100.556	-0.000	54.771	-0.001	100.555	0.001	54.769	0.001	4000	
.001	14.896	101.283	57.749	101.283	0.000	57.750	-0.001	101.281	0.002	57.748	0.001	4200	
.001	14.897	101.976	60.728	101.976	0.000	60.729	-0.001	101.974	0.002	60.728	0.000	4400	
.001	14.897	102.638	63.708	102.638	0.000	63.708	0.000	102.637	0.001	63.708	0.000	4600	
.000	14.898	103.272	66.687	103.272	0.000	66.687	-0.000	103.271	0.001	66.688	-0.001	4800	
.000	14.898	103.880	69.667	103.880	-0.000	69.666	0.001	103.879	0.001	69.667	-0.000	5000	
.001	14.899	104.464	72.647	104.464	-0.000	72.646	0.001	104.464	0.000	72.647	-0.000	5200	
.000	14.899	105.027	75.626	105.027	0.000	75.626	0.000	105.026	0.001	75.627	-0.001	5400	
.001	14.899	105.568	78.606	105.569	-0.001	78.606	0.000	105.568	0.000	78.606	-0.000	5600	
.000	14.900	106.091	81.586	106.091	-0.000	81.586	0.000	106.090	0.001	81.586	0.000	5800	
.001	14.900	106.596	84.566	106.597	-0.001	84.566	-0.000	106.595	0.001	84.565	0.001	6000	

LITHIUM DIFLUORIDE UNINEG. ION (G) F 2LI 1- 1

1268

MOL. WT.= 44.930 BLCK= 5045 NO. POINT = 59

DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = -170.000 KEY =1071

FITS FOR NOTS RMS = 0.004473

1 -1 2 9 1 71 0 0 0 0 0 LITHIUM DIFLUORIDE UNINEG. ION (G) 10J12681071
+1.4627775E+1+1.7180776E-1-3.8209039E-2+2.8781807E-3 400 6000 11J12681071
-5.0376892E-1-1.7587200E+2+7.0209167E+1-1.7000000E+2F2LI- (G) 12J12681071

FITS FOR EST RMS LOW = 0.006104 RMS HIGH = 0.004587

1 -1 2 9 1 71 0 0 0 0 0 LITHIUM DIFLUORIDE UNINEG. ION (G) 10F2LI-
-170000+6+386693+5+147318+2+544216-4-522544+6+866779+2 4003000J126811F2LI-
-170000+6+386701+5+150024+2-144772-4-138982+7+866779+23C006000J126812F2LI-

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-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
0.003	400	12.305	58.338	1.210	58.446	-0.108	1.251	-0.041	58.457	-0.119	1.258	-0.048	40
0.001	600	13.363	63.551	3.788	63.533	0.018	3.773	0.015	63.534	0.017	3.774	0.014	60
0.001	800	13.918	67.479	6.522	67.464	0.015	6.509	0.013	67.465	0.013	6.511	0.011	80
0.000	1000	14.230	70.621	9.340	70.615	0.006	9.333	0.007	70.617	0.004	9.336	0.004	100
0.000	1200	14.418	73.234	12.206	73.231	0.003	12.204	0.002	73.234	0.000	12.207	-0.001	120
0.000	1400	14.538	75.466	15.102	75.465	0.001	15.103	-0.001	75.467	-0.001	15.106	-0.004	140
0.000	1600	14.619	77.413	18.019	77.413	0.000	18.020	-0.001	77.414	-0.001	18.022	-0.003	160
0.000	1800	14.677	79.138	20.948	79.138	0.000	20.949	-0.001	79.139	-0.001	20.950	-0.002	180
0.000	2000	14.718	80.687	23.888	80.686	0.001	23.889	-0.001	80.687	0.000	23.888	-0.000	200
0.000	2200	14.750	82.091	26.835	82.090	0.001	26.835	-0.000	82.090	0.001	26.834	0.001	220
0.000	2400	14.774	83.376	29.788	83.375	0.001	29.787	0.001	83.374	0.002	29.786	0.002	240
0.000	2600	14.793	84.559	32.744	84.558	0.001	32.744	0.000	84.558	0.001	32.742	0.002	260
0.000	2800	14.808	85.656	35.704	85.655	0.001	35.704	0.000	85.655	0.001	35.704	0.000	280
0.000	3000	14.820	86.678	38.667	86.677	0.001	38.667	0.000	86.678	0.000	38.669	-0.002	300
0.003	3000	14.820	86.678	38.667	86.677	0.001	38.667	0.000	86.678	0.000	38.670	-0.003	300
0.001	3200	14.830	87.635	41.632	87.634	0.001	41.632	-0.000	87.634	0.001	41.633	-0.001	320
0.001	3400	14.838	88.534	44.599	88.533	0.001	44.599	-0.000	88.533	0.001	44.598	0.001	340
0.001	3600	14.845	89.382	47.567	89.381	0.001	47.568	-0.001	89.381	0.001	47.566	0.001	360
0.001	3800	14.851	90.185	50.537	90.184	0.001	50.538	-0.001	90.184	0.001	50.535	0.002	380
0.001	4000	14.856	90.947	53.508	90.946	0.001	53.509	-0.001	90.946	0.001	53.506	0.002	400
0.001	4200	14.861	91.672	56.479	91.671	0.001	56.480	-0.001	91.671	0.001	56.478	0.001	420
0.000	4400	14.864	92.363	59.452	92.363	0.000	59.452	-0.001	92.362	0.001	59.451	0.001	440
0.000	4600	14.868	93.024	62.425	93.023	0.001	62.425	-0.000	93.023	0.001	62.425	0.000	460
0.001	4800	14.871	93.657	65.399	93.656	0.001	65.399	0.000	93.656	0.001	65.399	-0.000	480
0.000	5000	14.873	94.264	68.373	94.263	0.001	68.373	0.000	94.263	0.001	68.374	-0.001	500
0.000	5200	14.876	94.847	71.348	94.846	0.001	71.347	0.001	94.847	0.000	71.349	-0.001	520
0.001	5400	14.878	95.409	74.324	95.408	0.001	74.322	0.001	95.408	0.001	74.324	-0.000	540
0.000	5600	14.879	95.950	77.299	95.949	0.001	77.298	0.001	95.949	0.001	77.299	-0.001	560
0.000	5800	14.881	96.472	80.275	96.471	0.001	80.275	0.000	96.471	0.001	80.275	0.000	580
0.001	6000	14.883	96.977	83.252	96.976	0.001	83.253	-0.001	96.976	0.001	83.250	0.002	600

BROMOTRIFLUOROMETHANE (G) C 1BR 1F 3 0 0 0 669
 MOL. WT. = 148.910 BLOCK = 5057 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -155.100 KEY = 1073
 FITS FOR NOTS RMS = 0.009588
 1 6 3 9 1 35 0 0 0 0 0 BROMOTRIFLUOROMETHANE (G) 10J 6691073
 +2.5199264E+1+3.9583659E-1-8.8003754E-2+6.6171251E-3 400 6000 11J 6691073
 -1.3222656E+0-1.6660060E+2+9.5437805E+1-1.5509999E+2CBRF3 (G) 12J 6691073

FITS FOR EST RMS LOW = 0.014150 RMS HIGH = 0.007649
 1 6 3 9 1 35 0 0 0 0 0 BROMOTRIFLUOROMETHANE (G) 10CBRF3
 -155099+6+656675+5+254421+2+124633-3-136673+7+124048+3 4003000J 66911CBRF3
 -155099+6+656675+5+259970+2-240294-4-294425+7+124048+330006000J 66912CBRF3

T K	-----NOTS-----								-----EST-----			
	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M		SC C/M-K	DS C/M-K	HC KC/M	DH KC/M
.008	400 18.946	76.375	1.815	76.631	-0.256	1.915	-0.100		76.657	-0.282	1.928	-0.113
.002	600 21.824	84.667	5.924	84.624	0.043	5.888	0.036		84.625	0.042	5.890	0.034
.001	800 23.306	91.170	10.453	91.137	0.033	10.424	0.029		91.138	0.032	10.427	0.026
.001	1000 24.121	96.467	15.203	96.453	0.014	15.191	0.012		96.456	0.011	15.196	0.007
.000	1200 24.605	100.911	20.080	100.907	0.004	20.078	0.002		100.911	0.000	20.084	-0.004
.000	1400 24.913	104.729	25.034	104.728	0.001	25.037	-0.003		104.732	-0.003	25.042	-0.008
.000	1600 25.119	108.070	30.038	108.070	0.000	30.042	-0.004		108.072	-0.002	30.046	-0.008
.000	1800 25.264	111.037	35.077	111.036	0.001	35.080	-0.003		111.038	-0.001	35.082	-0.005
.000	2000 25.369	113.705	40.141	113.703	0.002	40.143	-0.002		113.703	0.002	40.142	-0.001
.000	2200 25.448	116.126	45.223	116.124	0.002	45.223	-0.000		116.124	0.002	45.220	0.003
.000	2400 25.508	118.343	50.319	118.341	0.002	50.318	0.001		118.340	0.003	50.314	0.005
.000	2600 25.555	120.387	55.425	120.384	0.003	55.424	0.001		120.383	0.004	55.421	0.004
.000	2800 25.593	122.282	60.540	122.280	0.002	60.539	0.001		122.280	0.002	60.539	0.001
.001	3000 25.624	124.049	65.662	124.046	0.003	65.661	0.001		124.049	0.000	65.668	-0.006
.004	3000 25.624	124.049	65.662	124.046	0.003	65.661	0.001		124.049	0.000	65.667	-0.006
.000	3200 25.649	125.704	70.789	125.701	0.003	70.789	-0.000		125.702	0.002	70.791	-0.002
.000	3400 25.670	127.259	75.921	127.257	0.002	75.922	-0.001		127.257	0.002	75.920	0.001
.002	3600 25.687	128.727	81.057	128.725	0.002	81.058	-0.001		128.724	0.003	81.055	0.002
.002	3800 25.702	130.116	86.196	130.114	0.002	86.198	-0.002		130.114	0.002	86.193	0.003
.002	4000 25.715	131.435	91.338	131.433	0.002	91.340	-0.002		131.432	0.003	91.335	0.003
.001	4200 25.726	132.690	96.482	132.688	0.002	96.484	-0.002		132.687	0.003	96.480	0.002
.000	4400 25.735	133.887	101.628	133.885	0.002	101.630	-0.002		133.884	0.003	101.627	0.001
.000	4600 25.743	135.031	106.776	135.029	0.002	106.777	-0.001		135.029	0.002	106.775	0.001
.000	4800 25.751	136.127	111.925	136.125	0.002	111.925	-0.000		136.125	0.002	111.925	-0.000
.000	5000 25.757	137.178	117.076	137.176	0.002	117.075	0.001		137.176	0.002	117.077	-0.001
.001	5200 25.763	138.188	122.229	138.186	0.002	122.226	0.002		138.187	0.001	122.229	-0.001
.001	5400 25.768	139.161	127.381	139.158	0.003	127.379	0.002		139.159	0.002	127.382	-0.001
.001	5600 25.772	140.098	132.535	140.095	0.003	132.533	0.002		140.096	0.002	132.535	-0.001
.001	5800 25.777	141.002	137.690	141.000	0.002	137.690	0.000		141.000	0.002	137.689	0.001
.001	6000 25.780	141.876	142.846	141.875	0.001	142.848	-0.002		141.874	0.002	142.844	0.002

TRIFLUORIODOMETHANE (G) C 1F 3I 1
 MOL. WT.= 195.910 BLOCK= 5063 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -140.800 KEY =1074
 FITS FOR NOTS RMS = 0.009278
 6 3 9 1 53 0 0 0 0 0 TRIFLUORIODOMETHANE (G) 10J 6691074
 .5244979E+1+3.6633276E-1-8.1359326E-2+6.1168074E-3 400 6000 11J 6691074
 .2702636E+0-1.5215689E+2+9.8083618E+1-1.4079998E+2CF 3I (G) 12J 6691074

669

CYANO
 MOL.
 DATA F
 FITS F
 1 -1 1
 +7.79046
 -1.72744

FITS FOR EST RMS LOW = 0.013429 RMS HIGH = 0.007678
 6 3 9 1 53 0 0 0 0 0 TRIFLUORIODOMETHANE (G) 10CF3I
 40799+6+658475+5+254661+2+116982-3-130990+7+126678+3 4003000J 66911CF3I
 40799+6+658478+5+260011+2-245688-4-288691+7+126678+330006000J 66912CF3I

FITS F
 1 -1 1
 +430869+
 +430869+

-----NOTS-----												-----EST-----	
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C/
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
400	19.230	78.815	1.849	79.062	-0.247	1.944	-0.095	79.084	-0.269	1.957	-0.108	400	7.
500	21.996	87.198	6.002	87.158	0.040	5.967	0.035	87.159	0.039	5.970	0.032	600	7.
600	23.418	93.743	10.559	93.711	0.032	10.531	0.028	93.712	0.031	10.534	0.025	800	8.
700	24.198	99.060	15.328	99.046	0.014	15.316	0.012	99.050	0.010	15.321	0.007	1000	8.
800	24.661	103.516	20.217	103.512	0.004	20.216	0.001	103.516	-0.000	20.221	-0.004	1200	8.
900	24.955	107.342	25.181	107.341	0.001	25.184	-0.003	107.344	-0.002	25.189	-0.008	1400	8.
1000	25.152	110.687	30.193	110.687	-0.000	30.197	-0.004	110.690	-0.003	30.200	-0.007	1600	9.
1100	25.290	113.658	35.238	113.658	0.000	35.241	-0.003	113.659	-0.001	35.242	-0.004	1800	9.
1200	25.391	116.328	40.307	116.327	0.001	40.306	-0.001	116.327	0.001	40.307	-0.000	2000	9.
1300	25.466	118.752	45.392	118.750	0.002	45.393	-0.001	118.749	0.003	45.390	0.002	2200	9.
1400	25.523	120.971	50.492	120.968	0.003	50.491	0.001	120.967	0.004	50.487	0.005	2400	9.
1500	25.568	123.015	55.601	123.013	0.002	55.600	0.001	123.012	0.003	55.597	0.004	2600	9.
1600	25.604	124.911	60.718	124.909	0.002	60.717	0.001	124.909	0.002	60.718	0.000	2800	9.
1700	25.633	126.679	65.842	126.676	0.002	65.842	0.000	126.679	0.000	65.847	-0.005	3000	9.
1800	25.633	126.679	65.842	126.676	0.002	65.842	0.000	126.679	0.000	65.848	-0.006	3000	9.
1900	25.657	128.334	70.971	128.332	0.002	70.971	-0.000	128.333	0.001	70.973	-0.002	3200	9.
2000	25.677	129.890	76.105	129.888	0.002	76.105	-0.000	129.888	0.002	76.104	0.001	3400	9.
2100	25.694	131.358	81.242	131.356	0.002	81.243	-0.001	131.356	0.002	81.239	0.003	3600	9.
2200	25.708	132.748	86.382	132.746	0.002	86.384	-0.002	132.745	0.003	86.379	0.003	3800	9.
2300	25.720	134.067	91.525	134.065	0.002	91.527	-0.002	134.064	0.003	91.522	0.003	4000	9.
2400	25.731	135.322	96.670	135.320	0.002	96.672	-0.002	135.320	0.002	96.668	0.002	4200	9.
2500	25.740	136.519	101.817	136.517	0.002	101.819	-0.002	136.517	0.002	101.816	0.001	4400	9.
2600	25.748	137.664	106.966	137.662	0.002	106.967	-0.001	137.661	0.003	106.965	0.001	4600	9.
2700	25.755	138.760	112.116	138.757	0.003	112.116	-0.000	138.758	0.002	112.116	-0.000	4800	9.
2800	25.761	139.811	117.268	139.809	0.002	117.267	0.001	139.809	0.002	117.268	-0.001	5000	9.
2900	25.766	140.822	122.420	140.819	0.003	122.419	0.001	140.820	0.002	122.421	-0.001	5200	10.
3000	25.771	141.794	127.574	141.792	0.002	127.572	0.002	141.792	0.002	127.575	-0.001	5400	10.
3100	25.775	142.731	132.729	142.729	0.002	132.727	0.002	142.729	0.002	132.729	-0.000	5600	10.
3200	25.779	143.636	137.884	143.634	0.002	137.884	0.000	143.634	0.002	137.884	0.000	5800	10.
3300	25.783	144.510	143.041	144.508	0.002	143.043	-0.002	144.508	0.002	143.038	0.003	6000	10.

1270

(G) 10J12701075

(G) 10CN+

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 .7708
 .9305

HITS
-1 1
45000
45000

-----NOTS-----

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	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
18	400	7.240	53.079	0.726	53.059	0.020	0.714	0.012	53.185	-0.106	0.769	-0.043
12	600	7.788	56.118	2.229	56.108	0.010	2.223	0.006	56.102	0.016	2.216	0.013
25	800	8.225	58.422	3.833	58.429	-0.007	3.839	-0.006	58.411	0.011	3.824	0.009
17	1000	8.516	60.291	5.509	60.297	-0.007	5.514	-0.005	60.286	0.005	5.506	0.003
14	1200	8.716	61.862	7.233	61.865	-0.003	7.234	-0.001	61.860	0.002	7.233	-0.000
18	1400	8.870	63.218	8.992	63.217	0.001	8.989	0.003	63.217	0.001	8.994	-0.002
17	1600	9.001	64.411	10.779	64.409	0.002	10.775	0.004	64.411	0.000	10.782	-0.003
14	1800	9.119	65.478	12.592	65.476	0.002	12.587	0.005	65.478	0.000	12.594	-0.002
10	2000	9.229	66.444	14.427	66.444	0.000	14.424	0.003	66.444	0.000	14.428	-0.001
12	2200	9.331	67.329	16.283	67.329	0.000	16.282	0.001	67.327	0.002	16.282	0.001
15	2400	9.425	68.145	18.158	68.146	-0.001	18.159	-0.001	68.143	0.002	18.156	0.002
14	2600	9.510	68.903	20.052	68.904	-0.001	20.054	-0.002	68.900	0.003	20.049	0.003
10	2800	9.587	69.610	21.962	69.612	-0.002	21.964	-0.002	69.608	0.002	21.961	0.001
15	3000	9.656	70.274	23.886	70.276	-0.002	23.888	-0.002	70.274	0.000	23.890	-0.004
16	3000	9.656	70.274	23.886	70.276	-0.002	23.888	-0.002	70.274	0.000	23.890	-0.004
12	3200	9.716	70.899	25.824	70.901	-0.002	25.825	-0.001	70.898	0.001	25.824	-0.000
11	3400	9.769	71.490	27.772	71.491	-0.001	27.773	-0.001	71.488	0.002	27.771	0.001
13	3600	9.815	72.050	29.731	72.051	-0.001	29.731	-0.000	72.048	0.002	29.729	0.002
13	3800	9.854	72.581	31.698	72.582	-0.001	31.698	0.000	72.579	0.001	31.697	0.001
13	4000	9.888	73.088	33.672	73.088	-0.000	33.672	0.000	73.086	0.002	33.671	0.001
12	4200	9.917	73.571	35.653	73.572	-0.001	35.652	0.001	73.569	0.002	35.652	0.001
11	4400	9.942	74.033	37.639	74.033	-0.000	37.638	0.001	74.031	0.002	37.639	0.000
11	4600	9.963	74.475	39.629	74.476	-0.001	39.629	0.000	74.474	0.001	39.630	-0.001
10	4800	9.980	74.900	41.624	74.900	-0.000	41.623	0.001	74.898	0.002	41.624	-0.000
11	5000	9.995	75.307	43.621	75.308	-0.001	43.621	-0.000	75.306	0.001	43.622	-0.001
11	5200	10.007	75.700	45.622	75.700	-0.000	45.622	0.000	75.698	0.002	45.622	0.000
11	5400	10.017	76.078	47.624	76.078	-0.000	47.624	-0.000	76.076	0.002	47.624	-0.000
10	5600	10.025	76.442	49.628	76.443	-0.001	49.628	-0.000	76.440	0.002	49.628	-0.000
10	5800	10.032	76.794	51.634	76.795	-0.001	51.634	0.000	76.792	0.002	51.634	0.000
13	6000	10.037	77.134	53.641	77.135	-0.001	53.640	0.001	77.132	0.002	53.641	0.000

[illegible]

CYANO UNINEGATIVE ION (G) C 1N 1- 1
 MOL. WT. = 26.010 BLOCK = 5075 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 14.500 KEY = 1076
 BITS FOR NOTS RMS = 0.011027

1270

POTAS
 MOL.
 DATA F
 BITS F

-1 1 6 1 7 0 0 0 0 0 CYANO UNINEGATIVE ION (G) 10J12701076
 .7708101E+0+.7.1937799E-1-1.4420104E-1+1.0377589E-2 400 6000 11J12701076
 .9305114E-1+1.1166915E+1+5.4727920E+1+1.4500000E+1CN-(G) 12J12701076

1 5 4
 +3.98910
 +1.69372

BITS FOR EST RMS LOW = 0.017681 RMS HIGH = 0.003060

FITS F

-1 1 6 1 7 0 0 0 0 0 CYANO UNINEGATIVE ION (G) 10CN-
 45000+5+222715+5+819717+1+262103-3-475824+6+648929+2 4003000J127011CN-
 45000+5+222652+5+899792+1+264991-4-200633+7+648929+230006000J127012CN-

1 5 4
 -446800+
 -446800+

-----NOTS-----														-----EST-----	
	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T			
	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C/		
3	00	7.002	48.863	0.711	49.112	-0.249	0.812	-0.101	49.156	-0.293	0.831	-0.120	400	39.	
3	00	7.240	51.741	2.132	51.711	0.030	2.104	0.028	51.706	0.035	2.101	0.031	500	39.	
9	00	7.575	53.869	3.613	53.832	0.037	3.582	0.031	53.827	0.042	3.578	0.035	600	39.	
3	00	7.880	55.593	5.159	55.575	0.018	5.145	0.014	55.575	0.018	5.146	0.013	700	39.	
0	00	8.120	57.052	6.760	57.047	0.005	6.760	0.000	57.049	0.003	6.764	-0.004	800	39.	
2	00	8.303	58.318	8.404	58.318	-0.000	8.410	-0.006	58.321	-0.003	8.415	-0.011	900	39.	
3	00	8.442	59.436	10.079	59.438	-0.002	10.087	-0.008	59.440	-0.004	10.090	-0.011	1000	39.	
2	00	8.548	60.437	11.778	60.438	-0.001	11.785	-0.007	60.438	-0.001	11.786	-0.008	1100	39.	
1	00	8.631	61.342	13.456	61.341	0.001	13.501	-0.005	61.340	0.002	13.498	-0.002	1200	39.	
11	00	8.698	62.168	15.230	62.166	0.002	15.231	-0.001	62.164	0.004	15.226	0.004	1300	39.	
12	00	8.752	62.927	16.975	62.924	0.003	16.974	0.001	62.921	0.006	16.968	0.007	1400	39.	
13	00	8.796	63.629	18.730	63.626	0.003	18.727	0.003	63.624	0.005	18.724	0.006	1500	39.	
1	00	8.834	64.283	20.493	64.279	0.004	20.490	0.003	64.279	0.004	20.491	0.002			
14	00	8.866	64.893	22.263	64.889	0.004	22.260	0.003	64.893	0.000	22.272	-0.009			
14	00	8.866	64.893	22.263	64.889	0.004	22.260	0.003	64.893	0.000	22.265	-0.002			
10	00	8.894	65.466	24.039	65.463	0.003	24.036	0.003	65.465	0.001	24.039	-0.001			
11	00	8.918	66.006	25.820	66.003	0.003	25.819	0.001	66.005	0.001	25.820	0.000			
12	00	8.940	66.517	27.606	66.514	0.003	27.606	0.000	66.515	0.002	27.605	0.001			
11	00	8.960	67.001	29.396	66.998	0.003	29.397	-0.001	66.999	0.002	29.395	0.001			
11	00	8.978	67.461	31.190	67.458	0.003	31.191	-0.001	67.459	0.002	31.189	0.001			
11	00	8.994	67.899	32.967	67.897	0.002	32.989	-0.002	67.898	0.001	32.986	0.001			
10	00	9.009	68.318	34.787	68.315	0.003	34.789	-0.002	68.317	0.001	34.787	0.000			
11	00	9.024	68.719	36.590	68.716	0.003	36.592	-0.002	68.717	0.002	36.590	-0.000			
10	00	9.037	69.103	38.397	69.100	0.003	38.397	-0.000	69.102	0.001	38.397	0.000			
11	00	9.050	69.472	40.205	69.469	0.003	40.205	0.000	69.471	0.001	40.206	-0.001			
10	00	9.062	69.827	42.016	69.824	0.003	42.015	0.001	69.826	0.001	42.017	-0.001			
10	00	9.073	70.169	43.830	70.166	0.003	43.828	0.002	70.168	0.001	43.830	-0.000			
10	00	9.084	70.500	45.646	70.496	0.004	45.644	0.002	70.498	0.002	45.646	0.000			
10	00	9.095	70.819	47.463	70.816	0.003	47.463	0.000	70.817	0.002	47.463	-0.000			
10	00	9.105	71.127	49.283	71.125	0.002	49.286	-0.003	71.126	0.001	49.282	0.001

POTASSIUM TETRAFLUOROBORATE (L) B 1P 4K 1 1269
MOL. WT.= 125.900 BLOCK= 5081 NO. POINT = 14
DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -446.801 KEY = 1077
FITS FOR NOTS RMS = 0.000305
1 5 4 9 1 19 0 0 0 0 0 POTASSIUM TETRAFLUOROBORATE (L) 20J12691077
+3.9891082E+1+1.5435516E-1-1.5565031E-1+5.0569742E-2 4C0 1500 21J12691077
+1.6937255E-3-4.5869458E+2+8.4125808E+1-4.4680078E+2BF4K(L) 22J12691077

FITS FOR EST RMS LOW = 0.000309 RMS HIGH = 0.000309
1 5 4 9 1 19 0 0 0 0 0 POTASSIUM TETRAFLUOROBORATE (L) 20BF4K*
-446800+6+107899+6+399613+2-132097-4-470400+4+128091+3 4001500J126921BF4K*
-446800+6+107899+6+399613+2-132097-4-470400+4+128091+3 4001500J126922BF4K*

	-----NOTS-----								-----EST-----					
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		
H	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M		C
20	400	39.942	47.620	4.068	47.619	0.001	4.068	0.000	47.622	-0.002	4.069	-0.001	00	9
31	500	39.942	56.532	8.062	56.532	0.000	8.062	0.000	56.533	-0.001	8.062	-0.000	00	10
35	600	39.942	63.815	12.056	63.814	0.001	12.056	-0.000	63.814	0.001	12.056	-0.000	00	12
13	700	39.942	69.972	16.051	69.972	0.000	16.051	0.000	69.971	0.001	16.050	0.001	00	13
04	800	39.942	75.305	20.045	75.305	-0.000	20.045	0.000	75.305	0.000	20.044	0.001	00	14
11	900	39.942	80.010	24.039	80.010	0.000	24.039	-0.000	80.009	0.001	24.039	0.000	00	14
11	1000	39.942	84.218	28.033	84.218	-0.000	28.033	-0.001	84.218	0.000	28.033	-0.000	00	14
08	1100	39.942	88.025	32.027	88.025	-0.000	32.028	-0.001	88.025	0.000	32.028	-0.001	00	14
02	1200	39.942	91.500	36.022	91.500	-0.000	36.022	0.000	91.500	-0.000	36.022	0.000	00	14
04	1300	39.942	94.697	40.016	94.697	-0.000	40.016	0.000	94.697	-0.000	40.016	0.000	00	14
07	1400	39.942	97.657	44.010	97.657	-0.000	44.010	0.000	97.657	-0.000	44.010	-0.000	00	14
06	1500	39.942	100.413	48.004	100.413	-0.000	48.004	-0.000	100.413	0.000	48.004	-0.000	00	14
02													00	14
09													00	14
02													00	14
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MONOCHLOROMETHYLENE (G) C 1H 1CL 1 1269
 MOL. WT.= 48.470 BLOCK= 5083 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFOPH(KCAL/(MOLE)) = 80.000 KEY =1078
 ITS FOR NOTS RMS = 0.056454
 1 1 6 1 17 0 0 0 0 0 MONOCHLOROMETHYLENE (G) 10J12691078
 .7363510E+1-1.2381124E+C+1.6314268E-1-6.3642747E-3 400 6000 11J12691078
 .4803161E+0+6.8448425E+1+6.8835494E+1+8.0000000E+1CHCL (G) 12J12691078

ITS FOR EST RMS LOW = 0.064095 RMS HIGH = 0.004516
 1 1 6 1 17 0 0 0 0 0 MONOCHLOROMETHYLENE (G) 10CHCL
 .000+5+371608+5+164004+2-482136-3-219614+7+850309+2 4003000J126911CHCL
 .000+5+371485+5+143276+2-167340-4+316416+7+850309+23C006000J126912CHCL

-----NOTS-----														-----EST-----	
DH	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T			
KC/M	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K			
0.001	9.494	58.799	0.931	60.194	-1.395	1.499	-0.568	59.980	-1.181	1.409	-0.478	400			
0.000	10.786	62.895	2.960	62.697	0.198	2.789	0.171	62.721	0.174	2.811	0.149	600			
0.000	12.080	66.176	5.247	65.959	0.217	5.071	0.176	66.008	0.168	5.108	0.139	800			
0.001	13.247	69.001	7.784	68.917	0.084	7.726	0.058	68.953	0.048	7.752	0.032	1000			
0.001	14.104	71.497	10.525	71.491	0.006	10.551	-0.026	71.512	-0.015	10.560	-0.035	1200			
0.000	14.624	73.715	13.402	73.731	-0.016	13.459	-0.057	73.741	-0.026	13.454	-0.052	1400			
0.000	14.881	75.686	16.357	75.700	-0.014	16.408	-0.051	75.703	-0.017	16.393	-0.036	1600			
0.001	14.970	77.446	19.344	77.448	-0.002	19.375	-0.031	77.449	-0.003	19.357	-0.013	1800			
0.000	14.964	79.023	22.338	79.014	0.009	22.349	-0.011	79.016	0.007	22.332	0.006	2000			
0.000	14.912	80.447	25.326	80.430	0.017	25.321	0.005	80.435	0.012	25.309	0.017	2200			
0.000	14.843	81.742	28.302	81.721	0.021	28.287	0.014	81.729	0.013	28.285	0.017	2400			
0.000	14.771	82.927	31.263	82.905	0.022	31.246	0.017	82.917	0.010	31.253	0.010	2600			
0.000	14.704	84.019	34.211	83.998	0.021	34.195	0.016	84.014	0.005	34.213	-0.002	2800			
0.000	14.645	85.031	37.145	85.012	0.019	37.134	0.011	85.031	0.000	37.161	-0.016	3000			
0.000	14.645	85.031	37.145	85.012	0.019	37.134	0.011	85.031	0.000	37.149	-0.004	3000			
0.000	14.593	85.975	40.069	85.957	0.018	40.063	0.006	85.974	0.001	40.070	-0.001	3200			
0.000	14.550	86.858	42.983	86.842	0.016	42.982	0.001	86.857	0.001	42.982	0.001	3400			
0.000	14.513	87.689	45.890	87.674	0.015	45.893	-0.003	87.687	0.002	45.888	0.002	3600			
0.000	14.482	88.473	48.789	88.458	0.015	48.795	-0.007	88.471	0.002	48.787	0.002	3800			
0.000	14.456	89.215	51.683	89.201	0.014	51.691	-0.008	89.213	0.002	51.681	0.002	4000			
0.000	14.434	89.920	54.572	89.906	0.014	54.579	-0.007	89.918	0.002	54.571	0.001	4200			
0.000	14.415	90.591	57.457	90.576	0.015	57.463	-0.006	90.589	0.002	57.456	0.001	4400			
0.000	14.398	91.231	60.338	91.216	0.015	60.341	-0.003	91.229	0.002	60.338	0.000	4600			
0.000	14.383	91.844	63.216	91.828	0.016	63.216	-0.000	91.842	0.002	63.216	-0.000	4800			
0.000	14.370	92.430	66.091	92.414	0.016	66.089	0.002	92.429	0.001	66.092	-0.001	5000			
0.000	14.358	92.994	68.964	92.977	0.017	68.959	0.005	92.992	0.002	68.965	-0.001	5200			
0.000	14.347	93.535	71.835	93.519	0.016	71.829	0.006	93.534	0.001	71.835	0.000	5400			
0.000	14.337	94.057	74.703	94.040	0.017	74.699	0.004	94.055	0.002	74.703	0.000	5600			
0.000	14.327	94.560	77.569	94.544	0.016	77.569	-0.000	94.558	0.002	77.569	0.000	5800			
0.000	14.318	95.046	80.434	95.031	0.015	80.441	-0.007	95.044	0.002	80.433	0.001	6000			

MONOFLUOROMETHYLENE

(G)

C 1H 1F 1

1269

MOL. WT.= 32.010

BLOCK= 5089

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 30.000 KEY = 1079

FITS FOR NOTS RMS = 0.031727

1 1 1 6 1 9 0 0 0 0 0 MONOFLUOROMETHYLENE (G) 10J12691079
 +1.0113896E+1+1.6975688E+0-4.2471885E-3-1.9593149E-2 400 6000 11J12691079
 -3.2916259E-1+2.5797790E+1+6.3288299E+1+3.0000000E+1CHF(G) 12J12691079

FITS FOR EST RMS LOW = 0.009111 RMS HIGH = 0.023494

1 1 1 6 1 9 0 0 0 0 0 MONOFLUOROMETHYLENE (G) 10CHF
 +300000+5+334408+5+109123+2+124813-2-641248+6+793079+2 4003000J126911CHF
 +300000+5+334642+5+189627+2-337037-3-320782+8+793079+230006000J126912CHF

-----NOTS-----

-----EST-----

DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
0.478	400	8.810	55.857	0.869	55.728	0.129	0.802	0.067	56.044	-0.187	0.941	-0.072	400
0.149	600	9.919	59.645	2.744	59.595	0.050	2.719	0.025	59.605	0.040	2.714	0.030	600
0.139	800	10.795	62.624	4.820	62.642	-0.018	4.841	-0.021	62.604	0.020	4.804	0.016	800
0.032	1000	11.458	65.107	7.048	65.142	-0.035	7.083	-0.035	65.108	-0.001	7.051	-0.003	1000
0.035	1200	11.962	67.243	9.392	67.265	-0.026	9.418	-0.026	67.249	-0.006	9.401	-0.009	1200
0.052	1400	12.357	69.118	11.826	69.130	-0.012	11.833	-0.007	69.122	-0.004	11.832	-0.006	1400
0.036	1600	12.682	70.790	14.331	70.790	-0.000	14.321	0.010	70.791	-0.001	14.332	-0.001	1600
0.013	1800	12.971	72.300	16.856	72.295	0.005	16.876	0.020	72.299	0.001	16.894	0.002	1800
0.006	2000	13.246	73.681	19.518	73.674	0.007	19.496	0.022	73.680	0.001	19.515	0.003	2000
0.017	2200	13.517	74.956	22.194	74.952	0.004	22.176	0.018	74.956	0.000	22.193	0.001	2200
0.017	2400	13.789	76.144	24.925	76.143	0.001	24.915	0.010	76.144	-0.000	24.925	0.000	2400
0.010	2600	14.061	77.259	27.710	77.261	-0.002	27.710	0.000	77.259	0.000	27.711	-0.001	2600
0.002	2800	14.328	78.311	30.549	78.316	-0.005	30.557	-0.008	78.311	0.000	30.550	-0.001	2800
0.016	3000	14.586	79.308	33.441	79.315	-0.007	33.453	-0.012	79.308	0.000	33.441	0.000	3000
0.004	3000	14.586	79.308	33.441	79.315	-0.007	33.453	-0.012	79.308	0.000	33.464	-0.023	3000
0.001	3200	14.829	80.257	36.382	80.265	-0.008	36.397	-0.015	80.249	0.008	36.380	0.002	3200
0.001	3400	15.053	81.163	39.371	81.170	-0.017	39.384	-0.013	81.152	0.011	39.360	0.011	3400
0.002	3600	15.255	82.029	42.402	82.035	-0.006	42.411	-0.009	82.019	0.010	42.392	0.010	3600
0.002	3800	15.434	82.859	45.471	82.863	-0.004	45.475	-0.004	82.850	0.009	45.467	0.004	3800
0.002	4000	15.587	83.655	48.574	83.658	-0.003	48.572	0.002	83.646	0.008	48.574	-0.000	4000
0.001	4200	15.716	84.418	51.705	84.420	-0.002	51.698	0.007	84.411	0.007	51.708	-0.004	4200
0.001	4400	15.821	85.152	54.859	85.153	-0.001	54.850	0.009	85.145	0.007	54.864	-0.005	4400
0.000	4600	15.904	85.857	58.032	85.859	-0.002	58.023	0.009	85.850	0.007	58.036	-0.004	4600
0.000	4800	15.965	86.535	61.219	86.537	-0.002	61.212	0.007	86.528	0.007	61.221	-0.002	4800
0.001	5000	16.008	87.188	64.416	87.191	-0.003	64.414	0.002	87.180	0.008	64.416	-0.000	5000
0.001	5200	16.034	87.816	67.621	87.820	-0.004	67.624	-0.003	87.808	0.008	67.618	0.003	5200
0.000	5400	16.046	88.422	70.829	88.426	-0.005	70.836	-0.007	88.413	0.009	70.825	0.004	5400
0.000	5600	16.045	89.005	74.038	89.010	-0.005	74.046	-0.008	88.997	0.008	74.035	0.003	5600
0.000	5800	16.034	89.568	77.246	89.572	-0.004	77.249	-0.003	89.560	0.008	77.246	0.000	5800
0.001	6000	16.013	90.111	80.451	90.113	-0.002	80.438	0.013	90.104	0.007	80.456	-0.005	6000

METHINOPHOSPHIDE (G) C 1H 1P 1 1269
 MOL. WT.= 43.990 BLOCK= 5095 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 40.000 KEY =1080
 FITS FOR NOTS RMS = 0.015909
 1 1 6 1 15 0 0 0 0 0 METHINOPHOSPHIDE (G) 10J12691080
 .1607715E+1+2.3543186E+0-5.5524802E-1+5.4637029E-2 400 6000 11J12691080
 .6099548E-1+3.4604843E+1+6.2094512E+1+4.0000000E+1CHP(G) 12J12691080

TRI
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 DATA
 FITS
 2 6
 +2.982
 -1.963

FITS FOR EST RMS LOW = 0.029845 RMS HIGH = 0.042386
 1 1 6 1 15 0 0 0 0 0 METHINOPHOSPHIDE (G) 10CHP
 .00000+5+363719+5+130908+2+738237-3-957248+6+799439+2 4003000J126911CHP
 .00000+5+363297+5+924313+1+125557-2+205875+8+799439+230006000J126912CHP

FITS
 2 6
 -11839
 -11839

	-----NOTS-----								-----EST-----					
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T		
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K		
72	400	9.902	54.134	0.959	54.423	-0.289	1.077	-0.118	54.586	-0.452	1.147	-0.188	400	2
130	400	11.236	58.424	3.064	58.400	0.024	3.057	0.027	58.380	0.044	3.041	0.043	600	2
116	400	12.082	61.779	5.420	61.736	0.043	5.381	0.039	61.712	0.067	5.364	0.056	800	2
103	400	12.707	64.545	7.902	64.520	0.025	7.879	0.023	64.511	0.034	7.875	0.027	1000	2
109	200	13.199	66.907	10.494	66.897	0.010	10.489	0.005	66.899	0.008	10.497	-0.003	1200	2
106	400	13.592	68.973	13.175	68.971	0.002	13.180	-0.005	68.977	-0.004	13.193	-0.018	1400	2
101	400	13.909	70.809	15.926	70.810	-0.001	15.935	-0.009	70.815	-0.006	15.947	-0.021	1600	3
102	400	14.168	72.463	18.735	72.464	-0.001	18.744	-0.009	72.465	-0.002	18.750	-0.015	1800	3
103	400	14.381	73.967	21.590	73.967	0.000	21.597	-0.007	73.964	0.003	21.595	-0.005	2000	3
101	200	14.561	75.346	24.485	75.345	0.001	24.489	-0.004	75.339	0.007	24.480	0.005	2200	3
100	400	14.715	76.620	27.413	76.617	0.003	27.414	-0.001	76.610	0.010	27.401	0.012	2400	3
101	400	14.849	77.803	30.370	77.799	0.004	30.368	0.002	77.793	0.010	30.358	0.012	2600	3
101	400	14.968	78.908	33.351	78.903	0.005	33.348	0.003	78.901	0.007	33.348	0.003	2800	3
100	400	15.076	79.944	36.356	79.940	0.004	36.352	0.004	79.944	0.000	36.372	-0.016	3000	3
123	400	15.076	79.944	36.356	79.940	0.004	36.352	0.004	79.944	0.000	36.330	0.026	3000	3
102	200	15.179	80.921	39.382	80.916	0.005	39.378	0.004	80.930	-0.009	39.386	-0.004	3200	3
111	400	15.278	81.844	42.427	81.839	0.005	42.424	0.003	81.856	-0.012	42.441	-0.015	3400	3
110	400	15.377	82.720	45.493	82.716	0.004	45.491	0.002	82.732	-0.012	45.505	-0.012	3600	3
104	400	15.481	83.554	48.579	83.551	0.003	48.579	0.000	83.564	-0.010	48.584	-0.005	3800	3
100	400	15.588	84.351	51.685	84.348	0.003	51.687	-0.002	84.359	-0.008	51.683	0.002	4000	3
104	200	15.706	85.114	54.815	85.111	0.003	54.818	-0.003	85.121	-0.007	54.806	0.009	4200	3
105	400	15.836	85.848	57.969	85.845	0.003	57.972	-0.003	85.854	-0.006	57.958	0.011	4400	3
104	400	15.978	86.555	61.150	86.552	0.003	61.153	-0.003	86.561	-0.006	61.140	0.010	4600	3
102	400	16.130	87.238	64.361	87.235	0.003	64.364	-0.003	87.245	-0.007	64.355	0.006	4800	3
100	400	16.312	87.900	67.606	87.897	0.003	67.606	-0.000	87.909	-0.009	67.606	0.000	5000	3
103	400	16.507	88.544	70.887	88.540	0.004	70.885	0.002	88.553	-0.009	70.893	-0.006	5200	3
104	400	16.718	89.171	74.209	89.167	0.004	74.206	0.003	89.181	-0.010	74.219	-0.010	5400	3
103	400	16.950	89.783	77.576	89.779	0.004	77.571	0.005	89.793	-0.010	77.585	-0.009	5600	3
100	400	17.200	90.382	80.991	90.378	0.004	80.989	0.002	90.391	-0.009	80.992	-0.001	5800	3
105	400	17.469	90.970	84.457	90.967	0.003	84.464	-0.007	90.975	-0.005	84.441	0.016	6000	3

TRIFLUOROACETONITRILE (G) C 2F 3N 1 0 0 0 1269
 MOL. WT. = 95.020 BLOCK = 5102 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -118.400 KEY = 1081
 FITS FOR NOTS RMS = 0.022204
 2 6 1 7 3 9 0 0 0 0 0 TRIFLUOROACETONITRILE (G) 10J12691081
 +2.9827865E+1+1.1761245E+0-2.5245147E-1+1.8441870E-2 400 6000 11J12691081
 -1.9633789E+0-1.3304464E+2+9.8552062E+1-1.1839999E+2C2F3N(G) 12J12691081

FITS FOR EST RMS LOW = 0.034772 RMS HIGH = 0.009554
 2 6 1 7 3 9 0 0 0 0 0 TRIFLUOROACETONITRILE (G) 10C2F3N
 -118399+6+789074+5+305570+2+383689-3-210227+7+133995+3 4003000J126911C2F3N
 -118399+6+788990+5+319980+2-302036-4-525056+7+133995+330006000J126912C2F3N

-----NOTS-----													
-----EST-----													
TH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
(C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0.188	400	21.622	77.250	2.061	77.807	-0.557	2.284	-0.223	77.882	-0.632	2.318	-0.257	
0.043	600	25.285	86.783	6.788	86.704	0.079	6.718	0.070	86.699	0.084	6.716	0.072	
0.056	800	27.371	94.369	12.072	94.293	0.076	12.007	0.065	94.289	0.080	12.005	0.067	
0.027	1000	28.638	100.624	17.683	100.590	0.034	17.655	0.028	100.593	0.031	17.660	0.023	
0.003	1200	29.450	105.922	23.497	105.912	0.010	23.496	0.001	105.919	0.003	23.506	-0.009	
0.018	1400	29.995	110.506	29.445	110.505	0.001	29.456	-0.011	110.513	-0.007	29.466	-0.021	
0.021	1600	30.375	114.537	35.484	114.539	-0.002	35.498	-0.014	114.544	-0.007	35.505	-0.021	
0.015	1800	30.648	118.131	41.588	118.131	-0.000	41.599	-0.011	118.134	-0.003	41.601	-0.013	
0.005	2000	30.851	121.371	47.739	121.369	0.002	47.746	-0.007	121.368	0.003	47.742	-0.003	
0.005	2200	31.006	124.319	53.925	124.315	0.004	53.927	-0.002	124.312	0.007	53.919	0.006	
0.012	2400	31.126	127.023	60.139	127.016	0.007	60.137	0.002	127.013	0.010	60.127	0.012	
0.012	2600	31.221	129.518	66.374	129.511	0.007	66.370	0.004	129.508	0.010	66.363	0.011	
0.003	2800	31.297	131.835	72.626	131.827	0.008	72.621	0.005	131.828	0.007	72.623	0.003	
0.016	3000	31.359	133.996	78.892	133.989	0.007	78.887	0.005	133.996	0.000	78.907	-0.015	
0.026	3000	31.359	133.996	78.892	133.989	0.007	78.887	0.005	133.996	0.000	78.899	-0.007	
0.004	3200	31.410	136.022	85.169	136.015	0.007	85.166	0.003	136.020	0.002	85.170	-0.001	
0.015	3400	31.453	137.927	91.455	137.921	0.006	91.454	0.001	137.924	0.003	91.454	0.001	
0.012	3600	31.489	139.726	97.750	139.720	0.006	97.751	-0.001	139.723	0.003	97.746	0.004	
0.005	3800	31.520	141.429	104.051	141.424	0.005	104.053	-0.002	141.426	0.003	104.047	0.004	
0.002	4000	31.546	143.047	110.357	143.042	0.005	110.361	-0.004	143.043	0.004	110.354	0.003	
0.009	4200	31.569	144.586	116.669	144.582	0.004	116.673	-0.004	144.583	0.003	116.666	0.003	
0.011	4400	31.589	146.056	122.985	146.051	0.005	122.989	-0.004	146.053	0.003	122.983	0.002	
0.010	4600	31.606	147.460	129.304	147.455	0.005	129.307	-0.003	147.457	0.003	129.304	0.000	
0.006	4800	31.621	148.806	135.627	148.800	0.006	135.628	-0.001	148.803	0.003	135.627	-0.000	
0.000	5000	31.635	150.097	141.952	150.091	0.006	141.952	0.000	150.094	0.003	141.953	-0.001	
0.006	5200	31.646	151.338	148.281	151.331	0.007	148.278	0.003	151.335	0.003	148.282	-0.001	
0.010	5400	31.657	152.532	154.611	152.526	0.006	154.607	0.004	152.530	0.002	154.612	-0.001	
0.009	5600	31.667	153.684	160.943	153.677	0.007	160.940	0.003	153.681	0.003	160.944	-0.001	
0.001	5800	31.675	154.795	167.278	154.789	0.006	167.277	0.001	154.792	0.003	167.277	0.001	
0.016	6000	31.683	155.869	173.613	155.864	0.005	173.619	-0.006	155.866	0.003	173.610	0.003	

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DH		CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	
KC/M		C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
-0.007	00	27.524	90.346	2.702	90.433	-0.087	2.733	-0.031	90.432	-0.086	2.737	-0.035	40	
0.000	0	29.601	101.963	8.446	101.949	0.014	8.431	0.015	101.951	0.012	8.436	0.009	60	
0.001	00	30.489	110.616	14.466	110.603	0.013	14.453	0.013	110.607	0.009	14.459	0.007	80	
0.001	00	30.936	117.473	20.613	117.466	0.007	20.605	0.008	117.469	0.004	20.611	0.002	100	
0.000	00	31.189	123.138	26.828	123.133	0.005	26.823	0.005	123.137	0.001	26.829	-0.001	120	
0.000	00	31.345	127.958	33.083	127.956	0.002	33.080	0.003	127.958	-0.000	33.084	-0.001	140	
0.000	00	31.449	132.151	39.363	132.149	0.002	39.361	0.002	132.151	0.000	39.364	-0.001	160	
0.000	00	31.520	135.859	45.660	135.858	0.001	45.659	0.001	135.859	0.000	45.661	-0.001	180	
0.000	00	31.572	139.183	51.969	139.182	0.001	51.969	-0.000	139.182	0.001	51.969	-0.000	200	
-0.000	00	31.610	142.194	58.288	142.193	0.001	58.288	0.000	142.193	0.001	58.287	0.001	220	
-0.000	00	31.639	144.946	64.613	144.945	0.001	64.613	-0.000	144.944	0.002	64.611	0.002	240	
-0.001	00	31.662	147.479	70.943	147.479	0.000	70.944	-0.001	147.478	0.001	70.942	0.001	260	
0.000	00	31.680	149.826	77.277	149.826	-0.000	77.278	-0.001	149.825	0.001	77.277	-0.000	280	
-0.000	00	31.695	152.012	83.615	152.012	-0.000	83.616	-0.001	152.012	0.000	83.616	-0.001	300	
-0.007	00	31.695	152.012	83.615	152.012	-0.000	83.616	-0.001	152.012	0.000	83.622	-0.007		
-0.002	00	31.707	154.058	89.955	154.058	-0.000	89.957	-0.002	154.056	0.002	89.956	-0.002		
0.002	00	31.717	155.981	96.297	155.981	0.000	96.299	-0.002	155.978	0.003	96.296	0.001		
0.003	0	31.725	157.794	102.641	157.794	-0.000	102.643	-0.002	157.790	0.004	102.638	0.003		
0.004	00	31.732	159.509	108.987	159.510	-0.001	108.989	-0.002	159.506	0.003	108.983	0.004		
0.003	0	31.738	161.137	115.334	161.137	-0.000	115.336	-0.002	161.134	0.003	115.331	0.003		
0.003	0	31.744	162.686	121.683	162.686	0.000	121.684	-0.001	162.682	0.004	121.680	0.003		
0.002	0	31.748	164.163	128.032	164.163	0.000	128.033	-0.001	164.159	0.004	128.030	0.002		
0.001	00	31.752	165.574	134.382	165.574	0.000	134.382	-0.000	165.571	0.003	134.381	0.001		
-0.001	0	31.756	166.926	140.732	166.925	0.001	140.732	-0.000	166.923	0.003	140.733	-0.001		
-0.001	0	31.759	168.222	147.084	168.221	0.001	147.083	0.001	168.219	0.003	147.085	-0.001		
-0.002	00	31.761	169.468	153.436	169.467	0.001	153.435	0.001	169.465	0.003	153.437	-0.001		
-0.001	0	31.764	170.666	159.788	170.666	0.000	159.787	0.001	170.664	0.002	159.790	-0.002		
-0.001	0	31.766	171.822	166.141	171.821	0.001	166.141	0.000	171.819	0.003	166.142	-0.001		
0.001	0	31.768	172.936	172.495	172.936	0.000	172.495	0.000	172.933	0.003	172.494	0.001		
0.003	0	31.770	174.013	178.848	174.013	-0.000	178.850	-0.002	174.010	0.003	178.845	0.003		

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ALUMINUM TRIFLUORIDE, DIMER (G) AL 2F 6 670 C
 MOL. WT.= 167.950 BLOCK= 5130 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -629.450 KEY =1086
 FITS FOR NOTS RMS = 0.008811
 6 9 2 13 0 0 0 0 0 0 0 ALUMINUM TRIFLUORIDE, DIMER (G) 10J 6701086
 -4.3356796E+1+2.3162198E-1-5.3281456E-2+4.1424259E-3 400 6000 11J 6701086
 -1.4685058E+0-6.4694970E+2+1.3767237E+2-6.2944995E+2AL2F6 (G) 12J 6701086

FITS FOR EST RMS LOW = 0.009467 RMS HIGH = 0.013135
 6 9 2 13 0 0 0 0 0 0 0 ALUMINUM TRIFLUORIDE, DIMER (G) 10AL2F6
 -629449+6+113708+6+434830+2+750501-4-148592+7+185879+3 4003000J 67011AL2F6
 -629449+6+113715+6+440248+2-447376-4-378854+7+185879+330006000J 67012AL2F6

H C/M	-----NOTS-----								-----EST-----				T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
.379	400	35.684	102.431	3.460	102.623	-0.192	3.532	-0.072	102.632	-0.201	3.540	-0.080	400
.118	600	39.466	117.725	11.029	117.694	0.031	11.000	0.029	117.698	0.027	11.006	0.023	600
.761	800	41.155	129.340	19.111	129.314	0.026	19.087	0.024	129.319	0.021	19.094	0.017	800
.104	1000	42.022	138.626	27.438	138.613	0.013	27.425	0.013	138.619	0.007	27.433	0.005	1000
.149	1200	42.518	146.335	35.896	146.329	0.006	35.890	0.006	146.335	-0.000	35.898	-0.002	1200
.204	1400	42.826	152.914	44.432	152.911	0.003	44.431	0.001	152.916	-0.002	44.437	-0.005	1400
.163	1600	43.030	158.647	53.019	158.645	0.002	53.019	-0.000	158.649	-0.002	53.024	-0.005	1600
.085	1800	43.171	163.723	61.640	163.722	0.001	61.641	-0.001	163.724	-0.001	61.643	-0.003	1800
.004	2000	43.273	168.278	70.285	168.276	0.002	70.286	-0.001	168.277	0.001	70.285	-0.000	2000
.059	2200	43.349	172.406	78.948	172.404	0.002	78.948	-0.000	172.404	0.002	78.946	0.002	2200
.088	2400	43.408	176.180	87.624	176.179	0.001	87.624	-0.000	176.178	0.002	87.621	0.003	2400
.075	2600	43.453	179.657	96.310	179.655	0.002	96.311	-0.001	179.655	0.002	96.307	0.003	2600
.011	2800	43.489	182.878	105.004	182.877	0.001	105.005	-0.001	182.877	0.001	105.004	0.000	2800
.109	3000	43.518	185.880	113.705	185.879	0.001	113.707	-0.002	185.880	0.000	113.708	-0.003	3000
	3000	43.518	185.880	113.705	185.879	0.001	113.707	-0.002	185.880	0.000	113.716	-0.011	3000
	3200	43.542	188.689	122.411	188.688	0.001	122.413	-0.002	188.687	0.002	122.414	-0.003	3200
	3400	43.562	191.329	131.122	191.329	0.000	131.124	-0.002	191.326	0.003	131.120	0.002	3400
	3600	43.579	193.820	139.836	193.819	0.001	139.839	-0.003	193.815	0.005	139.832	0.004	3600
	3800	43.593	196.176	148.553	196.176	0.000	148.556	-0.003	196.172	0.004	148.548	0.005	3800
	4000	43.605	198.413	157.273	198.412	0.001	157.276	-0.003	198.408	0.005	157.268	0.005	4000
	4200	43.616	200.541	165.995	200.540	0.001	165.998	-0.003	200.536	0.005	165.991	0.004	4200
	4400	43.625	202.570	174.719	202.569	0.001	174.721	-0.002	202.566	0.004	174.717	0.002	4400
	4600	43.633	204.509	183.445	204.508	0.001	183.446	-0.001	204.506	0.003	183.444	0.001	4600
	4800	43.639	206.366	192.172	206.365	0.001	192.173	-0.001	206.363	0.003	192.173	-0.001	4800
	5000	43.646	208.148	200.901	208.146	0.002	200.900	0.001	208.145	0.003	200.902	-0.001	5000
	5200	43.651	209.860	209.631	209.858	0.002	209.629	0.002	209.857	0.003	209.633	-0.002	5200
	5400	43.656	211.507	218.361	211.506	0.001	218.360	0.001	211.504	0.003	218.363	-0.002	5400
	5600	43.660	213.095	227.093	213.093	0.002	227.092	0.001	213.092	0.003	227.094	-0.001	5600
	5800	43.664	214.627	235.825	214.626	0.001	235.825	-0.000	214.624	0.003	235.825	0.000	5800
	6000	43.668	216.107	244.559	216.107	0.000	244.561	-0.002	216.104	0.003	244.555	0.004	6000

CALCIUM MONOCHLORIDE

(G) CA 1CL 1

670

MOL. WT.= 75.530

BLOCK= 5136

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -25.000 KEY =1087

FITS FOR NOTS RMS = 0.014728

1 17 1 20 0 0 0 0 0 0 0 CALCIUM MONOCHLORIDE (G) 10J 6701087
 +1.0222945E+1-1.0772829E+0+3.2888388E-1-1.8092185E-2 400 6000 11J 6701087
 -3.7214660E-1-2.8959136E+1+6.9094924E+1-2.5000000E+1CACL (G) 12J 6701087

FITS FOR EST RMS LOW = 0.006769 RMS HIGH = 0.006230

1 17 1 20 0 0 0 0 0 0 0 CALCIUM MONOCHLORIDE (G) 10CACL
 -250000+5+245793+5+877954+1+194242-3+183200+5+784369+2 4003000J 67011CACL
 -250000+5+245890+5+558851+1+975684-3+802848+7+784369+230006000J 67012CACL

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
0 -0.080	400	8.719	60.243	0.879	60.486	-0.243	0.981	-0.102	60.186	0.057	0.854	0.025	
6 0.023	600	8.885	63.815	2.642	63.801	0.014	2.624	0.018	63.816	-0.001	2.645	-0.003	
4 0.017	800	8.961	66.382	4.428	66.345	0.037	4.394	0.034	66.392	-0.010	4.436	-0.008	
3 0.005	1000	9.009	68.387	6.225	68.362	0.025	6.202	0.023	68.395	-0.008	6.231	-0.006	
8 -0.002	1200	9.045	70.033	8.030	70.022	0.011	8.023	0.007	70.037	-0.004	8.033	-0.003	
7 -0.005	1400	9.076	71.430	9.843	71.427	0.003	9.847	-0.004	71.431	-0.001	9.841	0.002	
4 -0.005	1600	9.105	72.643	11.661	72.645	-0.002	11.671	-0.010	72.644	-0.001	11.657	0.004	
3 -0.003	1800	9.133	73.717	13.485	73.720	-0.003	13.496	-0.011	73.717	-0.000	13.480	0.005	
5 -0.000	2000	9.162	74.681	15.314	74.682	-0.001	15.323	-0.009	74.682	-0.001	15.311	0.003	
6 0.002	2200	9.196	75.556	17.150	75.555	0.001	17.155	-0.005	75.558	-0.002	17.149	0.001	
1 0.003	2400	9.237	76.358	18.993	76.355	0.003	18.994	-0.001	76.361	-0.003	18.995	-0.002	
7 0.003	2600	9.286	77.099	20.845	77.095	0.004	20.843	0.002	77.103	-0.004	20.849	-0.004	
4 0.000	2800	9.347	77.789	22.708	77.785	0.004	22.704	0.004	77.792	-0.003	22.710	-0.002	
8 -0.003	3000	9.421	78.437	24.585	78.432	0.005	24.580	0.005	78.437	0.000	24.579	0.006	
6 -0.011	3000	9.421	78.437	24.585	78.432	0.005	24.580	0.005	78.437	0.000	24.589	-0.004	
4 -0.003	3200	9.509	79.048	26.478	79.043	0.005	26.473	0.005	79.047	0.001	26.479	-0.001	
10 0.002	3400	9.610	79.627	28.389	79.623	0.004	28.386	0.003	79.625	0.002	28.388	0.001	
12 0.004	3600	9.724	80.179	30.322	80.176	0.003	30.321	0.001	80.178	0.001	30.320	0.002	
18 0.005	3800	9.851	80.708	32.279	80.705	0.003	32.280	-0.001	80.707	0.001	32.277	0.002	
18 0.005	4000	9.988	81.217	34.263	81.215	0.002	34.266	-0.003	81.216	0.001	34.261	0.002	
11 0.004	4200	10.136	81.708	36.275	81.706	0.002	36.279	-0.004	81.707	0.001	36.275	0.000	
17 0.002	4400	10.291	82.183	38.318	82.181	0.002	38.322	-0.004	82.182	0.001	38.318	-0.000	
14 0.001	4600	10.454	82.644	40.392	82.642	0.002	40.395	-0.003	82.643	0.001	40.394	-0.002	
13 -0.001	4800	10.621	83.093	42.500	83.090	0.003	42.501	-0.001	83.092	0.001	42.501	-0.001	
12 -0.001	5000	10.791	83.530	44.641	83.526	0.004	44.641	0.000	83.529	0.001	44.642	-0.001	
13 -0.002	5200	10.964	83.956	46.816	83.953	0.003	46.814	0.002	83.955	0.001	46.817	-0.001	
13 -0.002	5400	11.137	84.373	49.027	84.369	0.004	49.023	0.004	84.372	0.001	49.026	0.001	
14 -0.001	5600	11.309	84.781	51.271	84.778	0.003	51.268	0.003	84.780	0.001	51.270	0.001	
25 0.000	5800	11.479	85.181	53.550	85.178	0.003	53.549	0.001	85.180	0.001	53.549	0.001	
15 0.004	6000	11.646	85.573	55.863	85.571	0.002	55.867	-0.004	85.572	0.001	55.864	-0.001	

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	DH
	KC/M
54	0.025
45	-0.003
36	-0.008
31	-0.006
33	-0.003
41	0.002
57	0.004
80	0.005
11	0.003
49	0.001
95	-0.002
49	-0.004
10	-0.002
79	0.006
89	-0.004
79	-0.001
88	0.001
20	0.002
77	0.002
61	0.002
75	0.000
18	-0.000
94	-0.002
01	-0.001
42	-0.001
17	-0.001
26	0.001
70	0.001
49	0.001
64	-0.001

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DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T		
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K		
0.283	00	14.476	73.561	1.461	73.569	-0.008	1.463	-0.002	73.565	-0.004	1.463	-0.002	40		
0.006	00	14.705	79.482	4.383	79.481	0.001	4.380	0.003	79.482	0.000	4.383	-0.000	60		
-0.187	00	14.790	83.726	7.334	83.723	0.003	7.330	0.004	83.725	0.001	7.334	0.000	80		
-0.028	00	14.830	87.031	10.297	87.029	0.002	10.293	0.004	87.030	0.001	10.296	0.001	100		
0.035	00	14.853	89.737	13.265	89.735	0.002	13.262	0.003	89.736	0.001	13.265	0.000	120		
0.049	00	14.866	92.028	16.237	92.026	0.002	16.235	0.002	92.027	0.001	16.237	0.000	140		
0.039	00	14.875	94.013	19.211	94.012	0.001	19.210	0.001	94.013	0.000	19.211	-0.000	160		
0.020	00	14.881	95.766	22.187	95.765	0.001	22.186	0.001	95.765	0.001	22.187	0.000	180		
0.001	00	14.885	97.334	25.163	97.334	0.000	25.163	0.000	97.333	0.001	25.163	-0.000	200		
-0.014	00	14.888	98.753	28.141	98.753	0.000	28.141	0.000	98.752	0.001	28.141	0.000	220		
-0.021	00	14.891	100.048	31.119	100.048	-0.000	31.119	-0.000	100.048	0.000	31.119	0.000	240		
-0.018	00	14.893	101.240	34.097	101.240	-0.000	34.098	-0.001	101.240	0.000	34.097	-0.000	260		
-0.003	00	14.894	102.344	37.076	102.344	-0.000	37.077	-0.001	102.343	0.001	37.076	0.000	280		
0.026	00	14.895	103.371	40.055	103.372	-0.001	40.056	-0.001	103.371	0.000	40.055	0.000	300		
	00	14.895	103.371	40.055	103.372	-0.001	40.056	-0.001	103.371	0.000	40.058	-0.003	300		
	00	14.896	104.333	43.034	104.333	-0.000	43.035	-0.001	104.331	0.002	43.035	-0.001	320		
	00	14.897	105.236	46.013	105.236	-0.000	46.014	-0.001	105.234	0.002	46.013	0.000	340		
	00	14.898	106.087	48.993	106.088	-0.001	48.994	-0.001	106.085	0.002	48.991	0.002	360		
	00	14.899	106.893	51.973	106.893	-0.000	51.973	-0.000	106.891	0.002	51.971	0.002	380		
	00	14.899	107.657	54.952	107.658	-0.001	54.953	-0.001	107.655	0.002	54.951	0.001	400		
	00	14.900	108.384	57.932	108.384	-0.000	57.932	-0.000	108.382	0.002	57.931	0.001	420		
	00	14.900	109.077	60.912	109.078	-0.001	60.912	-0.000	109.075	0.002	60.911	0.001	440		
	00	14.900	109.740	63.892	109.740	0.000	63.892	0.000	109.738	0.002	63.892	0.000	460		
	00	14.901	110.374	66.872	110.374	0.000	66.872	0.000	110.372	0.002	66.872	-0.000	480		
	00	14.901	110.982	69.852	110.982	-0.000	69.852	0.000	110.980	0.002	69.853	-0.001	500		
	00	14.901	111.566	72.833	111.567	-0.001	72.832	0.001	111.565	0.001	72.833	-0.000	520		
	00	14.901	112.1												

CALCIUM MONOHYDROXIDE (G) CA 1H 10 1 0 0 0 670
 MOL. WT. = 57.080 BLOCK = 5154 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -53.300 KEY = 1091
 FITS FOR NOTS RMS = 0.021450
 1 1 1 8 1 20 0 0 0 0 0 CALCIUM MONOHYDROXIDE (G) 10J 6701091
 +1.3080483E+1+5.6225299E-1-2.1130330E-2+1.3933619E-3 400 6000 11J 6701091
 -5.2510070E-1-5.8584945E+1+7.0563903E+1-5.3299987E+1CAHO (G) 12J 6701091

FITS FOR EST RMS LOW = 0.018852 RMS HIGH = 0.011968
 1 1 1 8 1 20 0 0 0 0 0 CALCIUM MONOHYDROXIDE (G) 10CAHO
 -532999+5+365169+5+129561+2+572946-3-446912+6+865749+2 4003000J 67011CAHO
 -532999+5+365175+5+136710+2+397060-3-334976+7+865749+230006000J 67012CAHO

I :/M	-----NOTS-----								-----EST-----				T K
	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	
.002	400	11.667	60.091	1.157	60.443	-0.352	1.305	-0.148	60.352	-0.261	1.267	-0.110	400
.000	600	12.312	64.962	3.564	64.945	0.017	3.538	0.026	64.944	0.018	3.543	0.021	600
.000	800	12.673	68.556	6.064	68.499	0.057	6.012	0.052	68.514	0.042	6.028	0.036	800
.001	1000	12.976	71.417	8.630	71.379	0.038	8.595	0.035	71.394	0.023	8.611	0.019	1000
.000	1200	13.253	73.808	11.253	73.791	0.017	11.243	0.010	73.802	0.006	11.254	-0.001	1200
.000	1400	13.497	75.869	13.929	75.867	0.002	13.936	-0.007	75.873	-0.004	13.941	-0.012	1400
.000	1600	13.705	77.686	16.650	77.689	-0.003	16.665	-0.015	77.691	-0.005	16.664	-0.014	1600
.000	1800	13.880	79.310	19.409	79.314	-0.004	19.425	-0.016	79.313	-0.003	19.419	-0.010	1800
.000	2000	14.028	80.781	22.200	80.782	-0.001	22.212	-0.012	80.780	0.001	22.203	-0.003	2000
.000	2200	14.153	82.124	25.018	82.122	0.002	25.025	-0.007	82.120	0.004	25.014	0.004	2200
.000	2400	14.264	83.360	27.860	83.356	0.004	27.860	-0.000	83.354	0.006	27.852	0.008	2400
.000	2600	14.365	84.506	30.723	84.500	0.006	30.719	0.004	84.500	0.006	30.716	0.007	2600
.000	2800	14.461	85.574	33.606	85.567	0.007	33.599	0.007	85.570	0.004	33.604	0.002	2800
.000	3000	14.554	86.575	36.507	86.568	0.007	36.500	0.007	86.575	0.000	36.517	-0.010	3000
.003	3000	14.554	86.575	36.507	86.568	0.007	36.500	0.007	86.575	0.000	36.518	-0.011	3000
.001	3200	14.648	87.517	39.428	87.510	0.007	39.421	0.007	87.514	0.003	39.428	-0.000	3200
.000	3400	14.743	88.408	42.367	88.402	0.006	42.363	0.004	88.404	0.004	42.363	0.004	3400
.002	3600	14.840	89.253	45.325	89.248	0.005	45.324	0.001	89.249	0.004	45.320	0.005	3600
.002	3800	14.939	90.058	48.303	90.054	0.004	48.305	-0.002	90.054	0.004	48.299	0.004	3800
.001	4000	15.039	90.827	51.301	90.823	0.004	51.305	-0.004	90.824	0.003	51.299	0.002	4000
.001	4200	15.139	91.563	54.319	91.560	0.003	54.324	-0.005	91.560	0.003	54.319	-0.000	4200
.001	4400	15.240	92.270	57.357	92.266	0.004	57.362	-0.005	92.267	0.003	57.359	-0.002	4400
.000	4600	15.339	92.950	60.414	92.946	0.004	60.418	-0.004	92.947	0.003	60.417	-0.003	4600
.000	4800	15.436	93.604	63.492	93.600	0.004	63.494	-0.002	93.602	0.002	63.494	-0.002	4800
.001	5000	15.529	94.236	66.588	94.232	0.004	66.588	0.000	94.234	0.002	66.589	-0.001	5000
.000	5200	15.620	94.847	69.703	94.842	0.005	69.700	0.003	94.844	0.003	69.703	0.000	5200
.000	5400	15.705	95.438	72.836	95.433	0.005	72.832	0.004	95.435	0.003	72.834	0.002	5400
.000	5600	15.786	96.011	75.985	96.006	0.005	75.981	0.004	96.007	0.003	75.983	0.002	5600
.000	5800	15.862	96.566	79.150	96.562	0.004	79.149	0.001	96.563	0.003	79.149	0.001	5800
.002	6000	15.932	97.105	82.330	97.102	0.003	82.336	-0.006	97.103	0.002	82.333	-0.003	6000

MOLYBDENUM DIOXYDICHLORIDE (G) CL 2MO 10 2 0 0 0 670
 MOL. WT. = 198.840 BLOCK = 5166 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFCORR(KCAL/(MOLE)) = -151.300 KEY = 1093
 FITS FOR NOTS RMS = 0.005178
 2 8 2 17 1 42 0 0 0 0 MOLYBDENUM DIOXYDICHLORIDE (G) 10J 6701093
 +2.5625793E+1+1.3286447E-1-3.0539263E-2+2.3724818E-3 400 6000 11J 6701093
 -7.0629882E-1-1.6112103E+2+1.0827000E+2-1.5129998E+2CL2MOO2(G) 12J 6701093

FITS FOR EST RMS LOW = 0.005431 RMS HIGH = 0.007775
 2 8 2 17 1 42 0 0 0 0 0 MOLYBDENUM DIOXYDICHLORIDE (G) 10CL2MOO2
 -151299+6+676640+5+256981+2+431697-4-716688+6+136744+3 4003000J 67011CL2MOO2
 -151299+6+676678+5+260105+2-259597-4-203699+7+136744+330006000J 67012CL2MOO2

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.129	400	22.034	86.942	2.166	87.047	-0.105	2.205	-0.039	87.053	-0.111	2.211	-0.045	
0.023	600	23.773	96.253	6.770	96.235	0.018	6.753	0.017	96.237	0.016	6.758	0.012	
0.042	800	24.576	103.215	11.615	103.200	0.015	11.600	0.015	103.203	0.012	11.605	0.010	
0.024	1000	24.996	108.749	16.576	108.742	0.007	16.568	0.008	108.745	0.004	16.573	0.003	
0.001	1200	25.239	113.330	21.601	113.326	0.004	21.598	0.003	113.329	0.001	21.603	-0.002	
-0.012	1400	25.390	117.232	26.665	117.231	0.001	26.664	0.001	117.233	-0.001	26.668	-0.003	
-0.017	1600	25.491	120.630	31.754	120.629	0.001	31.754	0.000	120.631	-0.001	31.757	-0.003	
-0.013	1800	25.561	123.637	36.860	123.636	0.001	36.860	0.000	123.637	0.000	36.861	-0.001	
-0.005	2000	25.612	126.332	41.977	126.332	0.000	41.977	-0.000	126.332	0.000	41.977	-0.001	
0.004	2200	25.650	128.775	47.104	128.775	0.000	47.104	0.000	128.774	0.001	47.103	0.001	
0.010	2400	25.679	131.008	52.237	131.008	0.000	52.237	0.000	131.007	0.001	52.235	0.002	
0.011	2600	25.701	133.065	57.375	133.064	0.001	57.375	0.000	133.063	0.002	57.373	0.002	
0.003	2800	25.719	134.970	62.517	134.969	0.001	62.517	-0.000	134.969	0.001	62.516	0.001	
-0.014	3000	25.734	136.745	67.662	136.745	0.000	67.663	-0.001	136.745	0.000	67.664	-0.002	
-0.004	3000	25.734	136.745	67.662	136.745	0.000	67.663	-0.001	136.745	0.000	67.668	-0.006	
-0.001	3200	25.746	138.406	72.810	138.406	0.000	72.811	-0.001	138.405	0.001	72.811	-0.001	
0.001	3400	25.756	139.967	77.960	139.967	-0.000	77.961	-0.001	139.965	0.002	77.959	0.001	
0.002	3600	25.764	141.440	83.112	141.439	0.001	83.114	-0.002	141.437	0.003	83.110	0.002	
0.002	3800	25.771	142.833	88.266	142.833	0.000	88.267	-0.001	142.830	0.003	88.263	0.003	
0.002	4000	25.777	144.155	93.421	144.155	0.000	93.422	-0.001	144.152	0.003	93.418	0.003	
0.001	4200	25.782	145.413	98.577	145.412	0.001	98.578	-0.001	145.410	0.003	98.574	0.003	
0.001	4400	25.787	146.612	103.733	146.612	0.000	103.734	-0.001	146.610	0.002	103.732	0.001	
0.000	4600	25.791	147.759	108.891	147.758	0.001	108.892	-0.001	147.756	0.003	108.891	0.000	
0.000	4800	25.794	148.856	114.050	148.856	0.000	114.050	0.000	148.854	0.002	114.050	0.000	
-0.001	5000	25.797	149.909	119.209	149.909	0.000	119.208	0.001	149.907	0.002	119.210	-0.001	
-0.000	5200	25.800	150.921	124.368	150.920	0.001	124.368	0.000	150.919	0.002	124.370	-0.002	
-0.001	5400	25.802	151.895	129.529	151.894	0.001	129.528	0.001	151.893	0.002	129.530	-0.001	
-0.000	5600	25.804	152.833	134.689	152.833	0.000	134.688	0.001	152.831	0.002	134.690	-0.001	
0.000	5800	25.806	153.739	139.850	153.738	0.001	139.850	-0.000	153.737	0.002	139.850	0.000	
0.001	6000	25.808	154.614	145.012	154.613	0.001	145.013	-0.001	154.611	0.003	145.009	0.003	

COBALT DIPLUORIDE (C) CO 1F 2
 MOL. WT. = 96.930 BLOCK = 5173 NO. POINT = 22
 DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -160.500 KEY = 1094
 FITS FOR NOTS RMS = 0.000719

9 1 27 0 0 0 0 0 0 0 COBALT DIPLUORIDE (C) 30J 6701094
 .9871582E+1+5.5166733E-1+1.3840109E-2+2.8389943E-3 400 2000 31J 6701094
 .2250976E-1-1.6752969E+2+4.1679428E+1-1.6050000E+2COF2(C) 32J 6701094

FITS FOR EST RMS LOW = 0.000383 RMS HIGH = 0.000383

9 1 27 0 0 0 0 0 0 0 COBALT DIPLUORIDE (C) 30COF2\$
 .0500+6+553290+5+198147+2+616285-3-315760+6+652605+2 4002000J 67031COF2\$
 .0500+6+553290+5+198147+2+616285-3-315760+6+652605+2 4002000J 67032COF2\$

H

C/M

.045

.012

.010

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.003

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	18.096	24.701	1.770	24.701	0.000	1.770	0.000	24.703	-0.002	1.771	-0.001	400
600	18.864	28.830	3.622	28.828	0.002	3.621	0.001	28.831	-0.001	3.622	-0.000	600
800	19.309	32.312	5.533	32.310	0.002	5.531	0.002	32.312	0.000	5.532	0.001	800
1000	19.602	35.312	7.479	35.311	0.001	7.478	0.001	35.312	0.000	7.479	0.000	1000
1200	19.814	37.944	9.450	37.943	0.001	9.450	0.000	37.944	0.000	9.450	-0.000	1200
1400	19.979	40.287	11.440	40.288	-0.001	11.440	-0.000	40.287	-0.000	11.440	-0.000	1400
1600	20.115	42.400	13.445	42.400	-0.000	13.446	-0.001	42.400	0.000	13.445	0.000	1600
1800	20.231	44.322	15.463	44.323	-0.001	15.463	-0.000	44.322	-0.000	15.462	0.001	1800
2000	20.334	46.087	17.491	46.088	-0.001	17.492	-0.001	46.087	-0.000	17.491	0.000	2000
2200	20.429	47.719	19.529	47.719	-0.000	19.530	-0.001	47.719	0.000	19.529	-0.000	2200
2400	20.516	49.236	21.576	49.236	-0.000	21.577	-0.001	49.236	0.000	21.576	-0.000	2400
2600	20.599	50.654	23.632	50.655	-0.001	23.632	-0.000	50.654	-0.000	23.632	-0.000	2600
2800	20.678	51.986	25.696	51.986	-0.000	25.696	-0.000	51.986	-0.000	25.696	-0.000	2800
3000	20.753	53.242	27.768	53.242	-0.000	27.767	0.001	53.242	0.000	27.768	0.000	3000
400	20.827	54.430	29.847	54.430	-0.000	29.846	0.001	54.430	-0.000	29.847	0.000	
400	20.899	55.558	31.933	55.558	-0.000	31.933	0.000	55.558	-0.000	31.933	0.000	
400	20.969	56.632	34.026	56.632	-0.000	34.026	-0.000	56.632	0.000	34.026	-0.000	

670

+4.7912597E-3-1.5984147E+2+5.0795196E+1-1.5241198E+2COF2 (L)	22J 6701095
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-152411+6+675458+5+250045+2-157526-5-363200+4+783299+2 4003000J 67022C0F2*

[illegible]

TRIPLUORAMINE OXIDE

(G)

F 3N 10 1

670

MOL. WT.= 87.000

BLOCK= 5184

NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -39.000 KEY =1097

FITS FOR NOTS RMS = 0.010868

1 7 1 8 3 9 0 0 0 0 0 TRIPLUORAMINE OXIDE (G) 10J 6701097
 +2.5044982E+1+4.8230767E-1-1.0554897E-1+7.8383348E-3 400 6000 11J 6701097
 -1.3330078E+0-5.0481826E+1+9.0572250E+1-3.9000000E+1F3NO(G) 12J 6701097

FITS FOR EST RMS LOW = 0.016130 RMS HIGH = 0.007765

1 7 1 8 3 9 0 0 0 0 0 TRIPLUORAMINE OXIDE (G) 10F3NO
 -390000+5+654845+5+253377+2+156101-3-138563+7+119206+3 4003000J 67011F3NO
 -390000+5+654838+5+260066+2-254346-4-319897+7+119206+330006000J 67012F3NO

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
-0.067	400	18.824	71.692	1.794	71.974	-0.282	1.905	-0.111	72.001	-0.309	1.919	-0.125	
0.012	600	21.721	79.944	5.883	79.901	0.043	5.846	0.037	79.900	0.044	5.847	0.036	
0.022	800	23.191	86.416	10.390	86.378	0.038	10.358	0.032	86.379	0.037	10.359	0.031	
0.012	1000	24.016	91.687	15.118	91.671	0.016	15.104	0.014	91.674	0.013	15.108	0.010	
0.001	1200	24.517	96.114	19.975	96.109	0.005	19.973	0.001	96.113	0.001	19.979	-0.004	
-0.006	1400	24.840	99.919	24.913	99.918	0.001	24.917	-0.004	99.923	-0.004	24.923	-0.010	
-0.008	1600	25.059	103.251	29.904	103.251	-0.000	29.909	-0.005	103.255	-0.004	29.913	-0.009	
-0.007	1800	25.213	106.212	34.932	106.211	0.001	34.936	-0.004	106.213	-0.001	34.938	-0.006	
-0.003	2000	25.326	108.875	39.986	108.873	0.002	39.989	-0.003	108.874	0.001	39.988	-0.002	
0.002	2200	25.412	111.293	45.061	111.290	0.003	45.061	-0.000	111.290	0.003	45.058	0.003	
0.005	2400	25.477	113.507	50.150	113.504	0.003	50.149	0.001	113.503	0.004	50.145	0.005	
0.005	2600	25.528	115.548	55.251	115.545	0.003	55.249	0.002	115.544	0.004	55.246	0.005	
0.002	2800	25.570	117.441	60.360	117.438	0.003	60.359	0.001	117.439	0.002	60.359	0.001	
-0.007	3000	25.603	119.207	65.478	119.203	0.003	65.477	0.001	119.207	0.000	65.485	-0.007	
-0.003	3000	25.603	119.207	65.478	119.203	0.003	65.477	0.001	119.207	0.000	65.484	-0.006	
-0.000	3200	25.630	120.860	70.601	120.857	0.003	70.601	0.000	120.859	0.001	70.603	-0.002	
0.001	3400	25.653	122.414	75.730	122.412	0.002	75.730	0.000	122.413	0.001	75.728	0.002	
0.002	3600	25.672	123.881	80.862	123.879	0.002	80.863	-0.001	123.879	0.002	80.860	0.002	
0.001	3800	25.689	125.270	85.998	125.267	0.003	86.000	-0.002	125.267	0.003	85.995	0.003	
0.001	4000	25.703	126.588	91.138	126.586	0.002	91.140	-0.002	126.585	0.003	91.135	0.003	
0.002	4200	25.715	127.842	96.279	127.840	0.002	96.282	-0.003	127.840	0.002	96.277	0.002	
0.001	4400	25.725	129.039	101.423	129.036	0.003	101.425	-0.002	129.037	0.002	101.422	0.001	
-0.000	4600	25.734	130.182	106.569	130.180	0.002	106.570	-0.001	130.180	0.001	106.569	0.000	
-0.000	4800	25.742	131.278	111.717	131.275	0.003	111.717	-0.000	131.276	0.002	111.717	-0.000	
-0.001	5000	25.749	132.329	116.866	132.326	0.003	116.865	0.001	132.327	0.002	116.867	-0.001	
-0.001	5200	25.756	133.339	122.017	133.336	0.003	122.015	0.002	133.337	0.002	122.018	-0.001	
-0.001	5400	25.761	134.311	127.168	134.308	0.003	127.166	0.002	134.309	0.002	127.169	-0.001	
-0.000	5600	25.766	135.248	132.321	135.245	0.003	132.319	0.002	135.246	0.002	132.321	-0.000	
-0.000	5800	25.771	136.152	137.475	136.149	0.003	137.474	0.001	136.150	0.002	137.474	0.001	
0.001	6000	25.775	137.026	142.629	137.024	0.002	142.632	-0.003	137.024	0.002	142.627	0.002	

MC

NO. POINT = 10

KEY = 1099

0.000410

(L) 20J 6701099

21J 6701099

22J 6701099

0.000189

(L) 20F6MO*

67021F6MO*

67022F6MO*

-----EST-----

[illegible]

MOLYBDENUM HEXAFLUORIDE (G) F 6MO 1 0 0 0 0 670 MOI
 MCL. WT.= 209.930 BLOCK= 5198 NO. POINT = 62 MC
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -372.400 KEY =1100 DATI
 FITS FOR NOTS RMS = 0.006509 FITS
 9 1 42 0 0 0 0 0 0 0 MOLYBDENUM HEXAFLUORIDE (G) 10J 6701100 2 1
 1.7585800E+1+1.1220818E-1-2.6672188E-2+2.1357713E-3 400 6000 11J 6701100 +3.376
 1.0566406E+0-3.8694091E+2+1.2390026E+2-3.7239990E+2F6MO (G) 12J 6701100 -1.645
 FITS FOR EST RMS LOW = 0.005157 RMS HIGH = 0.011527 FITS
 9 1 42 0 0 0 0 0 0 0 MOLYBDENUM HEXAFLUORIDE (G) 10F6MO 2 1
 172399+6+988766+5+376378+2+378063-4-106083+7+165486+3 4003000J 67011F6MO -20339
 172399+6+988840+5+380339+2-406499-4-300390+7+165486+330006000J 67012F6MO -20339

	-----NOTS-----												-----EST-----												
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T												
'M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K												
100	400	31.858	92.694	3.104	92.806	-0.112	3.143	-0.039	92.808	-0.114	3.150	-0.046	400	2											
101	600	34.751	106.250	9.809	106.231	0.019	9.790	0.019	106.235	0.015	9.797	0.012	600	3											
100	800	35.976	116.437	16.897	116.420	0.017	16.880	0.017	116.426	0.011	16.888	0.009	800	3											
100	1000	36.588	124.537	24.160	124.528	0.009	24.149	0.011	124.533	0.004	24.157	0.003	1000	3											
100	1200	36.934	131.241	31.515	131.237	0.004	31.509	0.006	131.241	-0.000	31.516	-0.001	1200	3											
100	1400	37.147	136.952	38.925	136.949	0.003	38.921	0.004	136.953	-0.001	38.927	-0.002	1400	3											
100	1600	37.287	141.922	46.369	141.920	0.002	46.367	0.002	141.923	-0.001	46.371	-0.002	1600	3											
	1800	37.384	146.320	53.837	146.319	0.001	53.836	0.001	146.320	-0.000	53.838	-0.001	1800	3											
	2000	37.454	150.262	61.321	150.262	0.000	61.321	0.000	150.262	0.000	61.321	-0.000	2000	3											
	2200	37.506	153.835	68.817	153.834	0.001	68.817	-0.000	153.834	0.001	68.816	0.001	2200	3											
	2400	37.546	157.100	76.323	157.099	0.001	76.323	-0.000	157.099	0.001	76.321	0.002	2400	3											
	2600	37.577	160.106	83.835	160.106	-0.000	83.836	-0.001	160.105	0.001	83.834	0.001	2600	3											
	2800	37.601	162.892	91.353	162.892	0.000	91.354	-0.001	162.891	0.001	91.352	0.001	2800	3											
	3000	37.621	165.487	98.875	165.487	0.000	98.877	-0.002	165.487	0.000	98.877	-0.002	3000	3											
	3200	37.621	165.487	98.875	165.487	0.000	98.877	-0.002	165.487	0.000	98.884	-0.009	3200	3											
	3400	37.637	167.916	106.401	167.916	0.000	106.403	-0.002	167.913	0.003	106.403	-0.002	3400	3											
	3600	37.651	170.198	113.930	170.198	0.000	113.932	-0.002	170.194	0.004	113.928	0.002	3600	3											
	3800	37.662	172.350	121.461	172.350	-0.000	121.463	-0.002	172.346	0.004	121.457	0.004	3800	3											
	4000	37.672	174.387	128.994	174.387	0.000	128.997	-0.003	174.382	0.005	128.990	0.004	4000	3											
	4200	37.680	176.319	136.530	176.319	-0.000	136.532	-0.002	176.315	0.004	136.525	0.005	4200	3											
	4400	37.687	178.158	144.066	178.158	0.000	144.068	-0.002	178.154	0.004	144.063	0.003	4400	3											
	4600	37.693	179.911	151.604	179.911	0.000	151.606	-0.002	179.907	0.004	151.602	0.002	4600	3											
	4800	37.698	181.587	159.144	181.586	0.001	159.144	-0.000	181.583	0.004	159.143	0.001	4800	3											
	5000	37.703	183.191	166.684	183.191	0.000	166.684	0.000	183.188	0.003	166.684	-0.000	5000	3											
	5200	37.707	184.730	174.225	184.730	-0.000	174.224	0.001	184.728	0.002	174.226	-0.001	5200	3											
	5400	37.711	186.209	181.767	186.209	0.000	181.766	0.001	186.207	0.002	181.768	-0.001	5400	3											
	5600	37.714	187.633	189.309	187.632	0.001	189.308	0.001	187.630	0.003	189.311	-0.002	5600	3											
	5800	37.717	189.004	196.852	189.004	0.000	196.851	0.001	189.001	0.003	196.853	-0.001	5800	3											
	6000	37.720	190.328	204.396	190.327	0.000	204.396	0.000	190.325	0.003	204.395	0.001	6000	3											
	6000	37.722	191.607	211.940	191.607	0.000	211.941	-0.001	191.603	0.004	211.936	0.004	6000	3											

MOLYBDIC ACID (G) H 2MO 10 4 670
 MOL. WT. = 161.950 BLCK = 5204 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -203.400 KEY = 1101
 FITS FOR NOTS RMS = 0.026331
 2 1 4 8 1 42 0 0 0 0 0 MOLYBDIC ACID (G) 10J 6701101
 +3.3782775E+1+2.2025203E+0-4.4853276E-1+3.1547009E-2 400 6000 11J 6701101
 -1.6457519E+0-2.1828671E+2+1.1821086E+2-2.0339999E+2H2MOO4 (G) 12J 6701101

FITS FOR EST RMS LOW = 0.045156 RMS HIGH = 0.011241
 2 1 4 8 1 42 0 0 0 0 0 MOLYBDIC ACID (G) 10H2MOO4
 -203399+6+935536+5+351684+2+749601-3-192692+7+160297+3 4003000J 67011H2MOO4
 -203399+6+935394+5+379390+2-290681-4-791091+7+160297+330006000J 67012H2MOO4

	-----NOTS-----								-----EST-----				
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
°/H	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
.046	400	27.582	92.684	2.680	93.245	-0.561	2.908	-0.228	93.403	-0.719	2.978	-0.298	400
.012	600	30.781	104.542	8.551	104.483	0.059	8.491	0.060	104.467	0.075	8.481	0.070	600
.009	800	32.578	113.665	14.902	113.582	0.083	14.828	0.074	113.563	0.102	14.816	0.086	800
.003	1000	33.743	121.068	21.541	121.022	0.046	21.501	0.040	121.019	0.049	21.503	0.038	1000
.001	1200	34.566	127.297	28.377	127.280	0.017	28.368	0.009	127.286	0.011	28.381	-0.004	1200
.002	1400	35.173	132.673	35.353	132.670	0.003	35.363	-0.010	132.680	-0.007	35.380	-0.027	1400
.002	1600	35.633	137.401	42.436	137.403	-0.002	42.453	-0.017	137.411	-0.010	42.466	-0.030	1600
.001	1800	35.987	141.619	49.559	141.621	-0.002	49.615	-0.016	141.624	-0.005	49.621	-0.022	1800
.000	2000	36.264	145.426	56.826	145.425	0.001	56.837	-0.011	145.423	0.003	56.832	-0.006	2000
.001	2200	36.483	148.893	64.101	148.889	0.004	64.106	-0.005	148.883	0.010	64.093	0.008	2200
.002	2400	36.660	152.075	71.416	152.069	0.006	71.416	0.000	152.061	0.014	71.399	0.017	2400
.001	2600	36.803	155.015	78.763	155.008	0.007	78.759	0.004	155.001	0.014	78.746	0.017	2600
.001	2800	36.921	157.747	86.136	157.739	0.008	86.129	0.007	157.738	0.009	86.131	0.005	2800
.002	3000	37.019	160.298	93.530	160.290	0.008	93.524	0.006	160.298	0.000	93.554	-0.024	3000
.009	3000	37.019	160.298	93.530	160.290	0.008	93.524	0.006	160.298	0.000	93.539	-0.009	3000
.002	3200	37.101	162.690	100.942	162.682	0.008	100.937	0.005	162.687	0.003	100.944	-0.002	3200
.002	3400	37.171	164.941	108.370	164.934	0.007	108.367	0.003	164.938	0.003	108.368	0.002	3400
.004	3600	37.230	167.068	115.810	167.061	0.007	115.810	0.000	167.063	0.005	115.806	0.004	3600
.004	3800	37.281	169.082	123.261	169.076	0.006	123.264	-0.003	169.078	0.004	123.256	0.005	3800
.005	4000	37.324	170.995	130.721	170.990	0.005	130.726	-0.005	170.991	0.004	130.717	0.003	4000
.003	4200	37.363	172.817	138.190	172.812	0.005	138.196	-0.006	172.813	0.004	138.187	0.003	4200
.002	4400	37.396	174.556	145.666	174.551	0.005	145.672	-0.006	174.552	0.004	145.664	0.001	4400
.001	4600	37.425	176.219	153.148	176.214	0.005	153.153	-0.005	176.216	0.003	153.148	0.000	4600
.000	4800	37.451	177.812	160.636	177.807	0.005	160.638	-0.002	177.809	0.003	160.637	-0.001	4800
.001	5000	37.474	179.342	168.129	179.335	0.007	168.128	0.001	179.339	0.003	168.130	-0.001	5000
.001	5200	37.495	180.812	175.626	180.805	0.007	175.622	0.004	180.809	0.003	175.628	-0.002	5200
.002	5400	37.513	182.227	183.127	182.220	0.007	183.121	0.006	182.224	0.003	183.128	-0.001	5400
.001	5600	37.530	183.592	190.631	183.585	0.007	190.626	0.005	183.589	0.003	190.632	-0.001	5600
.001	5800	37.545	184.909	198.139	184.903	0.006	198.137	0.002	184.906	0.003	198.138	0.001	5800
.004	6000	37.558	186.182	205.649	186.177	0.005	205.656	-0.007	186.179	0.003	205.646	0.003	6000

DIBORON TETRAFLUOROMONOXIDE (G) B 2F 4O 1 671
 MOL. WT.= 113.610 BLOCK= 5210 NO. POINT = 61
 ATA FROM 100 TO 6000 K HFORM(KCAL/(MOLE)) = -453.650 KEY = 1102
 FITS FOR NOTS RMS = 0.031265
 5 1 8 4 9 0 0 0 0 0 DIBORON TETRAFLUOROMONOXIDE (G) 10J 6711102
 .4315551E+1+1.4875507E+0-3.2267600E-1+2.3740962E-2 4C0 6000 11J 6711102
 .8161621E+0-4.7203564E+2+1.0975935E+2-4.5364990E+2B2F4O (G) 12J 6711102

FITS FOR EST RMS LOW = 0.048641 RMS HIGH = 0.011094
 5 1 8 4 9 0 0 0 0 0 DIBORON TETRAFLUOROMONOXIDE (G) 10B2F4O
 .53649+6+897973+5+352375+2+480418-3-298998+7+150849+3 4003000J 67111B2F4O
 .53649+6+897851+5+370024+2-354267-4-667596+7+150849+330006000J 67112B2F4O

-----NOTS-----														T K
DH KC/M	T K	CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M		
0.298	100	22.836	86.862	2.164	67.687	-0.825	2.493	-0.329	87.778	-0.916	2.535	-0.371		400
0.070	100	27.649	97.103	7.248	96.978	0.125	7.142	0.106	96.971	0.132	7.139	0.109		500
0.086	100	30.629	105.501	13.100	105.393	0.108	13.010	0.090	105.387	0.114	13.008	0.092		600
0.038	100	32.448	112.547	19.422	112.502	0.045	19.388	0.034	112.506	0.041	19.394	0.028		700
0.004	100	33.597	118.572	26.035	118.560	0.012	26.037	-0.002	118.569	0.003	26.049	-0.014		800
0.027	100	34.355	123.811	32.835	123.812	-0.001	32.853	-0.018	123.822	-0.011	32.865	-0.030		900
0.030	100	34.876	128.435	39.761	128.437	-0.002	39.782	-0.021	128.445	-0.010	39.790	-0.029		1000
0.022	100	35.248	132.565	46.776	132.565	-0.000	46.792	-0.016	132.569	-0.004	46.793	-0.017		1100
0.006	100	35.521	136.294	53.854	136.290	0.004	53.863	-0.009	136.290	0.004	53.857	-0.003		1200
0.008	100	35.728	139.690	60.980	139.683	0.007	60.982	-0.002	139.679	0.011	60.971	0.009		1300
0.017	100	35.887	142.806	68.142	142.796	0.010	68.139	0.003	142.792	0.014	68.126	0.016		1400
0.017	100	36.013	145.683	75.332	145.673	0.010	75.326	0.006	145.670	0.013	75.318	0.014		1500
0.005	100	36.113	148.356	82.545	148.345	0.011	82.538	0.007	148.347	0.009	82.542	0.003		
0.024	100	36.195	150.850	89.777	150.840	0.010	89.770	0.007	150.850	0.000	89.797	-0.020		
0.009	100	36.195	150.850	89.777	150.840	0.010	89.770	0.007	150.850	0.000	89.785	-0.008		
0.002	100	36.262	153.188	97.022	153.178	0.010	97.018	0.004	153.186	0.002	97.025	-0.003		
0.002	100	36.319	155.389	104.281	155.379	0.010	104.279	0.002	155.385	0.004	104.279	0.002		
0.004	100	36.366	157.466	111.549	157.457	0.009	111.550	-0.001	157.462	0.004	111.546	0.003		
0.005	100	36.406	159.433	118.827	159.425	0.008	118.830	-0.003	159.429	0.004	118.822	0.005		
0.003	100	36.440	161.301	126.111	161.294	0.007	126.117	-0.006	161.297	0.004	126.107	0.004		
0.003	100	36.470	163.080	133.402	163.073	0.007	133.408	-0.006	163.076	0.004	133.399	0.003		
0.001	100	36.496	164.777	140.699	164.770	0.007	140.704	-0.005	164.774	0.003	140.697	0.002		
0.000	100	36.518	166.400	148.000	166.392	0.008	148.004	-0.004	166.397	0.003	148.000	0.000		
0.001	100	36.538	167.955	155.306	167.947	0.008	155.308	-0.002	167.951	0.004	155.306	-0.000		
0.001	100	36.555	169.447	162.615	169.438	0.009	162.614	0.001	169.444	0.003	162.616	-0.001		
0.002	100	36.571	170.881	169.928	170.871	0.010	169.924	0.004	170.878	0.003	169.929	-0.001		
0.001	100	36.585	172.261	177.243	172.252	0.009	177.238	0.005	172.258	0.003	177.245	-0.002		
0.001	100	36.597	173.592	184.562	173.582	0.010	184.557	0.005	173.589	0.003	184.562	-0.000		
0.001	100	36.608	174.876	191.882	174.867	0.009	191.881	0.001	174.873	0.003	191.881	0.001		
0.003	100	36.618	176.117	199.205	176.110	0.007	199.212	-0.007	176.114	0.003	199.202	0.003		

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+7.9284

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+427999
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1400	5	
1600	5	
1800	6	
2000	6	
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2400	8	
2600	10	
2800	11	
3000	12	
3000	12	
3200	12	
3400	13	
3600	13	
3800	13	
4000	13	
4200	13	
4400	13	
4600	13	
4800	12	
5000	12	
5200	12	
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5600	12	
5800	12	
6000	12	

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BARIUM MONATOMIC (G) BA 1 0 0 0 0 0 1270
 MOL. WT.= 137.340 BLCCK= 5228 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 42.800 KEY =1106
 FITS FOR NOTS RMS = 0.387984
 1 56 0 0 0 0 0 0 0 0 0 BARIUM MONATOMIC (G) 10J12701106
 -2.1718750E+1+2.0305038E+1-3.7971153E+0+2.2215795E-1 400 6000 11J12701106
 +7.9284057E+0+6.7571441E+1+3.2825927E+1+4.2799987E+1BA (G) 12J12701106

FITS FOR EST RMS LOW = 0.145665 RMS HIGH = 0.118846
 1 56 0 0 0 0 0 0 0 0 0 BARIUM MONATOMIC (G) 10BA
 +427999+5+184379+5-342708+1+497591-2+262595+7+542079+2 4003000J127011BA
 +427999+5+184135+5+237738+2-175371-2-528672+8+542079+230006000J127012BA

-----NOTS-----													
DB	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	
2.511	400	4.968	42.123	0.506	35.773	6.350	-2.192	2.698	40.116	2.007	-0.335	0.841	
-0.226	600	4.968	44.137	1.500	44.424	-0.287	1.915	-0.415	44.280	-0.143	1.666	-0.166	
-0.643	800	4.968	45.566	2.493	46.545	-0.979	3.358	-0.865	45.885	-0.319	2.771	-0.278	
-0.510	1000	4.976	46.675	3.487	47.342	-0.667	4.067	-0.580	46.854	-0.179	3.638	-0.151	
-0.244	1200	5.022	47.586	4.486	47.873	-0.287	4.650	-0.164	47.626	-0.040	4.485	0.001	
-0.000	1400	5.171	48.369	5.503	48.405	-0.036	5.341	0.162	48.334	0.035	5.406	0.097	
0.167	1600	5.496	49.079	6.566	49.001	0.078	6.236	0.330	49.029	0.050	6.447	0.119	
0.243	1800	6.052	49.756	7.717	49.666	0.090	7.369	0.348	49.728	0.028	7.636	0.081	
0.234	2000	6.848	50.433	9.003	50.389	0.044	8.743	0.260	50.439	-0.006	8.988	0.015	
0.162	2200	7.844	51.131	10.470	51.153	-0.022	10.348	0.122	51.165	-0.034	10.511	-0.041	
0.053	2400	8.957	51.861	12.149	51.944	-0.083	12.167	-0.018	51.905	-0.044	12.214	-0.065	
-0.064	2600	10.086	52.622	14.054	52.747	-0.125	14.176	-0.122	52.660	-0.038	14.101	-0.047	
-0.153	2800	11.131	53.409	16.178	53.553	-0.144	16.352	-0.174	53.428	-0.019	16.175	0.003	
-0.181	3000	12.017	54.208	18.495	54.353	-0.145	18.670	-0.175	54.208	0.000	18.438	0.057	
-0.110	3000	12.017	54.208	18.495	54.353	-0.145	18.670	-0.175	54.208	0.000	18.414	0.081	
0.097	3200	12.701	55.007	20.971	55.138	-0.131	21.105	-0.134	55.036	-0.029	20.980	-0.009	
	3400	13.174	55.792	23.562	55.904	-0.113	23.634	-0.072	55.832	-0.040	23.605	-0.043	
	3600	13.454	56.554	26.227	56.648	-0.094	26.234	-0.007	56.593	-0.039	26.268	-0.041	
	3800	13.573	57.285	28.933	57.364	-0.079	28.885	0.048	57.318	-0.033	28.952	-0.019	
	4000	13.570	57.981	31.649	58.052	-0.071	31.568	0.081	58.009	-0.028	31.644	0.005	
	4200	13.481	58.642	34.355	58.710	-0.068	34.264	0.091	58.664	-0.022	34.331	0.024	
	4400	13.338	59.266	37.037	59.337	-0.071	36.959	0.078	59.286	-0.020	37.005	0.031	
	4600	13.166	59.855	39.688	59.932	-0.077	39.638	0.050	59.876	-0.021	39.660	0.028	
	4800	12.984	60.411	42.303	60.497	-0.086	42.289	0.014	60.435	-0.024	42.287	0.016	
	5000	12.802	60.938	44.882	61.030	-0.092	44.904	-0.022	60.965	-0.027	44.882	-0.001	
	5200	12.629	61.436	47.425	61.534	-0.098	47.473	-0.048	61.467	-0.031	47.442	-0.017	
	5400	12.469	61.910	49.934	62.009	-0.099	49.992	-0.058	61.942	-0.032	49.961	-0.027	
	5600	12.322	62.361	52.413	62.457	-0.096	52.456	-0.043	62.393	-0.032	52.437	-0.024	
	5800	12.188	62.791	54.864	62.880	-0.089	54.863	0.001	62.819	-0.028	54.867	-0.003	
	6000	12.067	63.202	57.289	63.279	-0.077	57.215	0.074	63.223	-0.021	57.249	0.040	

CARBON MONOFLUORIDE UNIPOS. ION (G) C 1F 1 1
 MOL. WT.= 31.000 BLOCK= 5235 NO. POINT = 59
 ATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 274.717 KEY =1107
 FITS FOR NOTS RMS = 0.003117
 -1 1 6 1 9 0 0 0 0 0 CARBON MONOFLUORIDE UNIPOS. ION (G) 10J12701107
 .4621162E+0+4.4020724E-1-1.0037243E-1+9.7481571E-3 400 6000 11J12701107
 .0616760E-1+2.7129809E+2+5.6959976E+1+2.7471679E+2CF+(G) 12J12701107

1270

CAR
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 DATA
 FITS
 1 -1
 +1.392
 -8.666

FITS FOR EST RMS LOW = 0.006438 RMS HIGH = 0.009613
 -1 1 6 1 9 0 0 0 0 0 CARBON MONOFLUORIDE UNIPOS. ION (G) 10CF+
 74716+6+233476+5+874466+1+141276-3-367408+6+672309+2 4003000J127011CF+
 74716+6+233409+5+813631+1+221843-3+306644+7+672309+230006000J127012CF+

FITS
 1 -1
 +22509
 +22509

I	T	-----NOTS-----								-----EST-----				T
		CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH		
:/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	
.841	.00	7.333	50.249	0.733	50.331	-0.082	0.765	-0.032	50.372	-0.123	0.783	-0.050	400 1	
.166	.00	7.863	53.326	2.255	53.309	0.017	2.241	0.014	53.308	0.018	2.240	0.015	600 1	
.278	.00	8.240	55.643	3.868	55.633	0.010	3.858	0.010	55.628	0.015	3.856	0.012	800 1	
.151	.00	8.482	57.510	5.542	57.506	0.004	5.539	0.003	57.505	0.005	5.538	0.004	1000 1	
.001	.00	8.641	59.071	7.255	59.071	0.000	7.255	-0.000	59.071	-0.000	7.257	-0.002	1200 1	
.097	.00	8.752	60.412	8.995	60.412	-0.000	8.996	-0.001	60.414	-0.002	8.999	-0.004	1400 1	
.119	.00	8.832	61.586	10.754	61.586	-0.000	10.754	-0.000	61.588	-0.002	10.757	-0.003	1600 1	
.081	.00	8.895	62.630	12.527	62.630	0.000	12.527	0.000	62.631	-0.001	12.529	-0.002	1800 1	
.015	.00	8.944	63.570	14.311	63.569	0.001	14.310	0.001	63.570	0.000	14.311	-0.000	2000 1	
.041	.00	8.986	64.425	16.104	64.424	0.001	16.103	0.001	64.423	0.002	16.103	0.001	2200 1	
.065	.00	9.022	65.208	17.905	65.207	0.001	17.904	0.001	65.206	0.002	17.903	0.002	2400 1	
.047	.00	9.053	65.931	19.712	65.931	0.000	19.712	0.000	65.930	0.001	19.710	0.002	2600 1	
.003	.00	9.081	66.603	21.526	66.603	0.000	21.525	0.001	66.602	0.001	21.526	0.000	2800 1	
.057	.00	9.107	67.231	23.345	67.230	0.001	23.345	0.000	67.231	0.000	23.348	-0.003	3000 1	
.081	.00	9.107	67.231	23.345	67.230	0.001	23.345	0.000	67.231	0.000	23.341	0.004	3000 1	
.009	.00	9.132	67.819	25.169	67.819	0.000	25.169	0.000	67.821	-0.002	25.170	-0.001	3200 1	
.043	.00	9.155	68.374	26.997	68.373	0.001	26.998	-0.001	68.376	-0.002	27.000	-0.003	3400 1	
.041	.00	9.177	68.898	28.830	68.897	0.001	28.831	-0.001	68.900	-0.002	28.832	-0.002	3600 1	
.019	.00	9.200	69.394	30.668	69.394	0.000	30.668	-0.000	69.396	-0.002	30.669	-0.001	3800 1	
.005	.00	9.223	69.867	32.510	69.866	0.001	32.511	-0.001	69.868	-0.001	32.509	0.001	4000 1	
.024	.00	9.246	70.317	34.357	70.317	0.000	34.357	-0.000	70.318	-0.001	34.355	0.002	4200 1	
.031	.00	9.271	70.748	36.209	70.747	0.001	36.209	0.000	70.749	-0.001	36.206	0.003	4400 1	
.028	.00	9.298	71.161	38.066	71.160	0.001	38.065	0.001	71.162	-0.001	38.063	0.003	4600 1	
.016	.00	9.328	71.557	39.928	71.556	0.001	39.928	0.000	71.558	-0.001	39.927	0.001	4800 1	
.001	.00	9.360	71.939	41.797	71.938	0.001	41.797	0.000	71.940	-0.001	41.797	-0.000	5000 1	
.017	.00	9.396	72.306	43.673	72.306	0.000	43.672	0.001	72.308	-0.002	43.674	-0.001	5200 1	
.027	.00	9.436	72.662	45.556	72.661	0.001	45.555	0.001	72.664	-0.002	45.559	-0.003	5400 1	
.024	.00	9.481	73.006	47.448	73.005	0.001	47.447	0.001	73.008	-0.002	47.450	-0.002	5600 1	
.003	.00	9.531	73.339	49.349	73.339	0.000	49.349	0.000	73.341	-0.002	49.349	-0.000	5800 1	
.040	.00	9.585	73.663	51.260	73.663	0.000	51.260	-0.000	73.664	-0.001	51.256	0.004	6000 1	

NCO RADICAL (G) C 1N 10 1 1270 CALC
 MOL. WT.= 42.010 BLCK= 5247 NO. POINT = 62 MOI
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 38.100 KEY =1109 DATA
 FITS FOR NOTS RMS = 0.013078 FITS
 6 1 7 1 8 0 0 0 0 0 NCO RADICAL (G) 10J12701109 1 -1 1
 .3815320E+1+6.7275941E-1-1.5463268E-1+1.2954507E-2 400 6000 11J12701109 +7.5977
 .0045166E-1+3.1424850E+1+6.8331237E+1+3.8099990E+1CNO(G) 12J12701109 -5.0035

FITS FOR EST RMS LOW = 0.019551 RMS HIGH = 0.005913 FITS
 6 1 7 1 8 0 0 0 0 0 NCO RADICAL (G)10CNO 1 -1 1
 80999+5+369807+5+142238+2+212510-3-972960+6+850019+2 4003000J127011CNO +185301
 80999+5+369727+5+143544+2+109672-3+104960+6+850019+230006000J127012CNO +185301

	-----NOTS-----								-----EST-----					
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C
1	400	10.484	58.421	1.023	58.743	-0.322	1.153	-0.130	58.776	-0.355	1.168	-0.145	400	4
4	600	11.841	62.946	3.264	62.901	0.045	3.225	0.039	62.897	0.049	3.223	0.041	600	4
6	800	12.753	66.486	5.730	66.443	0.043	5.693	0.037	66.440	0.046	5.692	0.038	800	4
3	1000	13.350	69.401	8.344	69.381	0.020	8.329	0.015	69.383	0.018	8.332	0.012	1000	4
5	1200	13.743	71.872	11.056	71.866	0.006	11.056	0.000	71.870	0.002	11.061	-0.005	1200	4
5	1400	14.011	74.012	13.833	74.012	0.000	13.840	-0.007	74.016	-0.004	13.845	-0.012	1400	4
4	1600	14.199	75.896	16.655	75.857	-0.001	16.663	-0.008	75.899	-0.003	16.667	-0.012	1600	4
2	1800	14.334	77.576	19.509	77.576	-0.000	19.516	-0.007	77.577	-0.001	19.516	-0.007	1800	4
0	2000	14.435	79.092	22.386	79.091	0.001	22.391	-0.005	79.090	0.002	22.388	-0.002	2000	5
2	2200	14.512	80.472	25.281	80.469	0.003	25.283	-0.002	80.467	0.005	25.278	0.003	2200	5
3	2400	14.572	81.737	28.190	81.733	0.004	28.189	0.001	81.731	0.006	28.183	0.007	2400	5
1	2600	14.619	82.905	31.109	82.901	0.004	31.107	0.002	82.899	0.006	31.103	0.006	2600	5
0	2800	14.658	83.990	34.037	83.986	0.004	34.034	0.003	83.986	0.004	34.036	0.001	2800	5
2	3000	14.690	85.002	36.972	84.998	0.004	36.969	0.003	85.002	0.000	36.981	-0.009	3000	5
7	3200	14.690	85.002	36.972	84.998	0.004	36.969	0.003	85.002	0.000	36.973	-0.001	3000	5
1	3400	14.717	85.951	39.913	85.947	0.004	39.910	0.003	85.951	-0.000	39.914	-0.001	3200	5
2	3600	14.741	86.844	42.858	86.840	0.004	42.857	0.001	86.844	0.000	42.859	-0.001	3400	5
3	3800	14.762	87.688	45.809	87.684	0.004	45.809	0.000	87.687	0.001	45.808	0.001	3600	6
3	4000	14.782	88.486	48.763	88.483	0.003	48.764	-0.001	88.485	0.001	48.762	0.001	3800	6
2	4200	14.802	89.245	51.722	89.242	0.003	51.724	-0.002	89.244	0.001	51.720	0.002	4000	6
0	4400	14.821	89.968	54.684	89.965	0.003	54.686	-0.002	89.966	0.002	54.682	0.002	4200	6
0	4600	14.840	90.657	57.650	90.654	0.003	57.652	-0.002	90.656	0.001	57.648	0.002	4400	7
1	4800	14.860	91.318	60.620	91.314	0.004	60.622	-0.002	91.317	0.001	60.619	0.001	4600	7
1	5000	14.881	91.950	63.584	91.947	0.003	63.595	-0.001	91.950	0.000	63.594	0.000	4800	7
0	5200	14.903	92.558	66.572	92.555	0.003	66.572	-0.000	92.558	0.000	66.573	-0.001	5000	7
1	5400	14.926	93.143	69.555	93.139	0.004	69.554	0.001	93.143	0.000	69.557	-0.002	5200	7
1	5600	14.950	93.707	72.543	93.703	0.004	72.541	0.002	93.707	0.000	72.544	-0.001	5400	7
1	5800	14.976	94.251	75.536	94.247	0.004	75.533	0.003	94.251	0.000	75.537	-0.001	5600	8
1	6000	15.002	94.777	78.533	94.774	0.003	78.533	0.000	94.776	0.001	78.533	-0.000	5800	8
1	6000	15.030	95.286	81.537	95.283	0.003	81.540	-0.003	95.285	0.001	81.534	0.003	6000	8

CALCIUM UNIPOSITIVE ION (G) CA 1 1 1270
 MOL. WT.= 40.070 BLOCK= 5253 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 185.302 KEY =1110
 FITS FOR NOTS RMS = 0.017529
 1 -1 1 20 0 0 0 0 0 0 CALCIUM UNIPOSITIVE ION (G) 10J12701110
 +7.5977182E+0-2.9533233E+0+1.0283422E+0-8.7014555E-2 400 6000 11J12701110
 -5.0035095E-1+1.8183450E+2+4.6581497E+1+1.8530198E+2CA+(G) 12J12701110

FITS FOR EST RMS LOW = 0.024449 RMS HIGH = 0.051695
 1 -1 1 20 0 0 0 0 0 0 CALCIUM UNIPOSITIVE ION (G) 10CA+
 +185301+6+136789+5+426185+1+367095-3+264289+6+499439+2 4003000J127011CA+
 +185301+6+137367+5+622341+1+438690-3-204948+8+499439+230006000J127012CA+

-----NOTS-----												
-----EST-----												
H	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
.145	400	4.968	39.829	0.506	40.082	-0.253	0.608	-0.102	39.591	0.238	0.403	0.103
.041	600	4.968	41.843	1.500	41.802	0.041	1.465	0.035	41.851	-0.008	1.512	-0.012
.038	800	4.968	43.272	2.493	43.229	0.043	2.458	0.035	43.311	-0.039	2.526	-0.033
.012	1000	4.968	44.381	3.487	44.364	0.017	3.475	0.012	44.410	-0.029	3.511	-0.024
.005	1200	4.968	45.287	4.480	45.287	0.000	4.488	-0.008	45.301	-0.014	4.488	-0.008
.012	1400	4.969	46.052	5.474	46.059	-0.007	5.489	-0.015	46.056	-0.004	5.467	0.007
.012	1600	4.975	46.716	6.468	46.722	-0.006	6.483	-0.015	46.714	0.002	6.453	0.015
.007	1800	4.989	47.303	7.465	47.305	-0.002	7.473	-0.008	47.300	0.003	7.449	0.016
.002	2000	5.019	47.830	8.465	47.828	0.002	8.466	-0.001	47.830	-0.001	8.455	0.010
.003	2200	5.071	48.311	9.474	48.306	0.005	9.468	0.006	48.316	-0.005	9.474	0.000
.007	2400	5.151	48.755	10.495	48.749	0.006	10.487	0.008	48.764	-0.009	10.505	-0.010
.006	2600	5.260	49.171	11.536	49.166	0.005	11.527	0.009	49.182	-0.011	11.549	-0.013
.001	2800	5.400	49.566	12.601	49.561	0.005	12.595	0.006	49.574	-0.008	12.607	-0.006
.009	3000	5.568	49.944	13.698	49.941	0.003	13.696	0.002	49.944	0.000	13.679	0.019
.001	3000	5.568	49.944	13.698	49.941	0.003	13.696	0.002	49.944	0.000	13.737	-0.039
.001	3200	5.759	50.310	14.830	50.307	0.003	14.832	-0.002	50.295	0.015	14.826	0.004
.001	3400	5.970	50.665	16.003	50.664	0.001	16.007	-0.004	50.646	0.019	15.984	0.019
.001	3600	6.192	51.012	17.219	51.011	0.001	17.225	-0.006	50.994	0.018	17.201	0.018
.001	3800	6.421	51.353	18.480	51.352	0.001	18.486	-0.006	51.337	0.016	18.471	0.009
.002	4000	6.649	51.689	19.787	51.687	0.002	19.791	-0.004	51.675	0.014	19.788	-0.001
.002	4200	6.873	52.018	21.139	52.016	0.002	21.141	-0.002	52.007	0.011	21.148	-0.009
.002	4400	7.087	52.343	22.536	52.340	0.003	22.534	0.002	52.332	0.011	22.548	-0.012
.001	4600	7.286	52.663	23.973	52.659	0.004	23.969	0.004	52.652	0.011	23.985	-0.012
.000	4800	7.470	52.977	25.449	52.973	0.004	25.445	0.004	52.965	0.012	25.457	-0.008
.001	5000	7.634	53.285	26.960	53.282	0.003	26.956	0.004	53.272	0.013	26.960	-0.001
.002	5200	7.779	53.587	28.501	53.584	0.003	28.500	0.001	53.573	0.014	28.495	0.006
.001	5400	7.903	53.883	30.070	53.881	0.002	30.072	-0.002	53.868	0.015	30.059	0.011
.001	5600	8.006	54.173	31.661	54.171	0.002	31.665	-0.004	54.157	0.016	31.650	0.011
.000	5800	8.090	54.455	33.271	54.453	0.002	33.274	-0.003	54.441	0.014	33.269	0.002
.003	6000	8.155	54.730	34.896	54.727	0.003	34.890	0.006	54.720	0.010	34.914	-0.018

COBALT TRIFLUORIDE (C) CO 1F 3 671
 MOL. WT.= 115.920 BLOCK= 5265 NO. POINT = 14
 DATA FROM 298 TO 1500 K HFORM(KCAL/(MOLE)) = -188.900 KEY =1112
 FITS FOR NOTS RMS = 0.000270
 3 9 1 27 0 0 0 0 0 0 0 COBALT TRIFLUORIDE (C) 30J 6711112
 +2.7463699E+1-8.4781227E+0+7.9740371E+0-1.8339958E+0 400 1500 31J 6711112
 -3.0072021E-1-1.9780165E+2+5.6290298E+1-1.8889999E+2COP3(C) 32J 6711112

FITS FOR EST RMS LOW = 0.004338 RMS HIGH = 0.004338
 3 9 1 27 0 0 0 0 0 0 0 COBALT TRIFLUORIDE (C) 30COP3\$
 -188899+6+724722+5+215840+2+309131-2+179856+6+813108+2 4001500J 67131COP3\$
 -188899+6+724722+5+215840+2+309131-2+179856+6+813108+2 4001500J 67132COP3\$

M	-----NOTS-----												C/
	T K	CP C/H-K	S C/H-K	H KC/M	SC C/H-K	DS C/H-K	HC KC/M	DH KC/M	SC C/H-K	DS C/H-K	HC KC/M	DH KC/M	
21	400	23.296	29.274	2.316	29.273	0.001	2.316	0.000	29.232	0.042	2.300	0.016	0 12.
10	500	23.829	34.536	4.675	34.537	-0.001	4.675	-0.000	34.559	-0.023	4.688	-0.013	0 12.
40	600	24.009	38.896	7.067	38.895	0.001	7.066	0.001	38.914	-0.018	7.076	-0.009	0 13.
32	700	24.192	42.611	9.477	42.611	0.000	9.477	0.000	42.616	-0.005	9.478	-0.001	0 13.
09	800	24.374	45.853	11.905	45.853	-0.000	11.905	-0.000	45.851	0.002	11.901	0.004	0 13.
10	900	24.579	48.735	14.353	48.736	-0.001	14.353	-0.000	48.731	0.004	14.347	0.006	0 14.
19	1000	24.825	51.338	16.823	51.338	-0.000	16.823	-0.000	51.336	0.002	16.819	0.004	0 15.
18	1100	25.102	53.716	19.319	53.717	-0.001	19.319	-0.000	53.718	-0.002	19.318	0.001	0 15.
10	1200	25.394	55.913	21.843	55.913	-0.000	21.843	-0.000	55.917	-0.004	21.846	-0.003	0 16.
02	1300	25.714	57.958	24.399	57.958	-0.000	24.399	0.000	57.963	-0.005	24.402	-0.003	0 17.
12	1400	26.036	59.876	26.986	59.875	0.001	26.986	0.000	59.879	-0.003	26.988	-0.002	0 18.
15	1500	26.367	61.683	29.606	61.683	-0.000	29.606	-0.000	61.683	0.000	29.603	0.003	0 18.
06													0 19.
20													0 20.
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OBAL
 MOL.
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 IS F
 8 1
 21534
 7053
 ITS F
 8 1
 +199+
 +199+

COBALT MONOXIDE (C) CO 10 1 0 0 0 0 1270
 MOL. WT. = 74.930 BLOCK = 5267 NO. POINT = 32
 DATA FROM 0 TO 3000 K EFORM (KCAL/(MOLE)) = -56.820 KEY = 1113
 RMS FOR NOTS RMS = 0.003957
 8 1 27 0 0 0 0 0 0 COBALT MONOXIDE (C) 30J12701113
 2153475E+1-4.9194145E-1+1.7971820E+0-2.3278987E-1 4C0 3000 31J12701113
 705322E-1-5.9982879E+1+2.8078338E+1-5.6819992E+1C00(C) 32J12701113

TR
 M
 DAT
 FIT
 4 8
 +2.69
 +5.87

RMS FOR EST RMS LOW = 0.027638 RMS HIGH = 0.027638
 8 1 27 0 0 0 0 0 0 COBALT MONOXIDE (C) 30C00\$
 8199+5+424772+5+824310+1+405788-2+926192+6+459369+2 4003000J127031C00\$
 8199+5+424772+5+824310+1+405788-2+926192+6+459369+2 4003000J127032C00\$

FIT
 4 8
 -2210
 -2210

--		-----NOTS-----								-----EST-----				T K
DH KC/M		CP C/M-K	S C/M-K	H KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M	SC C/M-K	DS C/M-K	HC KC/M	DH KC/M		
0.016	0	12.651	16.419	1.300	16.362	0.057	1.278	0.022	15.935	0.484	1.103	0.197		400
0.013	0	12.981	21.629	3.872	21.650	-0.021	3.884	-0.012	21.696	-0.067	3.929	-0.057		500
0.009	0	13.102	25.378	6.479	25.378	0.000	6.477	0.002	25.442	-0.064	6.531	-0.052		600
0.001	0	13.387	28.328	9.124	28.324	0.004	9.118	0.006	28.354	-0.026	9.142	-0.018		700
0.004	0	13.842	30.807	11.845	30.806	0.001	11.842	0.003	30.810	-0.003	11.838	0.007		800
0.006	0	14.419	32.983	14.669	32.985	-0.002	14.671	-0.002	32.977	0.006	14.652	0.017		900
0.004	0	15.078	34.951	17.618	34.953	-0.002	17.621	-0.003	34.945	0.006	17.600	0.018		1000
0.001	0	15.793	36.767	20.704	36.770	-0.003	20.706	-0.002	36.765	0.002	20.693	0.011		1100
0.003	0	16.547	38.470	23.938	38.471	-0.001	23.938	0.000	38.472	-0.002	23.935	0.003		1200
0.003	0	17.329	40.084	27.325	40.084	-0.000	27.324	0.001	40.090	-0.006	27.330	-0.005		1300
0.002	0	18.131	41.626	30.871	41.626	-0.000	30.870	0.001	41.634	-0.008	30.880	-0.009		1400
0.003	0	18.949	43.109	34.578	43.110	-0.001	34.579	-0.001	43.117	-0.008	34.588	-0.010		1500
	0	19.777	44.544	38.451	44.545	-0.001	38.452	-0.001	44.549	-0.005	38.453	-0.002		
	0	20.615	45.937	42.490	45.937	-0.000	42.489	0.001	45.937	0.000	42.477	0.013		

TRICOBALT TETRAOXIDE

(C) CO 30 4

1270

MOL. WT.= 240.790 BLOCK= 5270 NO. POINT = 17

DATA FROM 0 TO 1500 K HFORM(KCAL/(MOLE)) = -221.000 KEY =1114

FITS FOR NOTS RMS = 0.000677

4 8 3 27 0 0 0 0 0 0 0 TRICOBALT TETRAOXIDE (C) 30J12701114
+2.6999938E+1+1.2046583E+1+1.4541532E+1-3.3915443E+0 400 1500 31J12701114
+5.8700561E-2-2.2963385E+2+5.2984405E+1-2.2100000E+2CO304 (C) 32J12701114

FITS FOR EST RMS LOW = 0.007461 RMS HIGH = 0.007461

4 8 3 27 0 0 0 0 0 0 0 TRICOBALT TETRAOXIDE (C) 30CO304\$
-221000+6+193570+6+164794+2+329206-1+908704+6+155487+3 4001500J127031CO304\$
-221000+6+193570+6+164794+2+329206-1+908704+6+155487+3 4001500J127032CO304\$

-----NOTS-----

-----EST-----

	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
.197	400	34.098	33.975	3.273	33.971	0.004	3.272	0.001	33.900	0.075	3.246	0.027
.057	500	36.532	41.846	6.805	41.852	-0.006	6.807	-0.002	41.891	-0.045	6.829	-0.024
.052	600	38.912	48.714	10.575	48.712	0.002	10.574	0.001	48.743	-0.029	10.591	-0.016
.018	700	41.498	54.904	14.594	54.902	0.002	14.593	0.001	54.911	-0.007	14.595	-0.001
.007	800	44.281	60.625	18.882	60.625	-0.000	18.882	-0.000	60.620	0.005	18.874	0.008
.017	900	47.216	66.009	23.456	66.011	-0.002	23.457	-0.001	66.003	0.006	23.447	0.009
.018	1000	50.262	71.141	28.329	71.142	-0.001	28.330	-0.001	71.137	0.004	28.323	0.006
.011	1100	53.390	76.077	33.511	76.078	-0.001	33.511	-0.000	76.079	-0.002	33.510	0.001
.003	1200	56.579	80.859	39.009	80.859	0.000	39.008	0.001	80.865	-0.006	39.013	-0.004
.005	1300	59.814	85.516	44.828	85.515	0.001	44.828	0.000	85.523	-0.007	44.834	-0.006
.009	1400	63.084	90.068	50.973	90.068	0.000	50.973	-0.000	90.073	-0.005	50.976	-0.003
.010	1500	66.382	94.532	57.446	94.532	-0.000	57.446	-0.000	94.532	0.000	57.441	0.005
.002												
.013												

DI
M
DAT
FIT
1 -1
1.40
1.92
FIT
1 -1
1786
1186

T
K
400
600
800
1000
1200
1400
1600
1800
2000
2200
2400
2600
2800
3000
3200
3400
3600
3800
4000
4200
4400
4600
4800
5000

DINITROGEN MONOXIDE UNIPOS. ION (G) N 20 1 1
 MOL. WT.= 44.010 BLOCK= 5272 NO. POINT = 59
 DATA FROM 298 TO 6000 K HFORM(KCAL/(MOLE)) = 318.690 KEY =1115
 FITS FOR NOTS RMS = 0.009672

1270

AZJ
 MC
 DATA
 FITS
 3 7
 +1.399
 -8.558

1 -1 2 7 1 8 0 0 0 0 0 DINITROGEN MONOXIDE UNIPOS. ION (G) 10J12701115
 1.4081436E+1+5.1152610E-1-1.1554026E-1+9.0918242E-3 400 6000 11J12701115
 7.9283142E-1+3.1221118E+2+6.9439498E+1+3.1868994E+2N20+(G) 12J12701115

FITS FOR EST RMS LOW = 0.015286 RMS HIGH = 0.004925

FITS
 3 7
 +99000
 +99000

1 -1 2 7 1 8 0 0 0 0 0 DINITROGEN MONOXIDE UNIPOS. ION (G) 10N20+
 118689+6+374844+5+144062+2+156176-3-854800+6+860529+2 4003000J127011N20+
 118689+6+374796+5+147732+2+270810-4-115788+7+860529+230006000J127012N20+

-----NOTS-----

-----EST-----

/M
 027
 024
 016
 001
 008
 009
 006
 001
 004
 006
 003
 005

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	10.976	58.960	1.075	59.210	-0.250	1.174	-0.099	59.243	-0.284	1.190	-0.115	400
600	12.268	63.672	3.408	63.634	0.038	3.376	0.032	63.632	0.040	3.375	0.033	600
800	13.098	67.324	5.951	67.291	0.033	5.922	0.029	67.288	0.036	5.922	0.029	800
1000	13.619	70.307	8.626	70.293	0.014	8.615	0.011	70.294	0.013	8.617	0.009	1000
1200	13.955	72.822	11.386	72.818	0.004	11.386	-0.000	72.821	0.001	11.390	-0.004	1200
1400	14.179	74.991	14.201	74.991	0.000	14.206	-0.005	74.994	-0.003	14.210	-0.009	1400
1600	14.334	76.895	17.053	76.896	-0.001	17.059	-0.006	76.898	-0.003	17.062	-0.009	1600
1800	14.445	78.590	19.932	78.590	0.000	19.936	-0.004	78.591	-0.001	19.937	-0.005	1800
2000	14.527	80.116	22.829	80.115	0.001	22.832	-0.003	80.115	0.001	22.830	-0.001	2000
2200	14.589	81.504	25.741	81.502	0.002	25.742	-0.001	81.501	0.003	25.738	0.003	2200
2400	14.638	82.776	28.664	82.773	0.003	28.663	0.001	82.771	0.005	28.659	0.005	2400
2600	14.676	83.949	31.596	83.946	0.003	31.594	0.002	83.945	0.004	31.591	0.005	2600
2800	14.706	85.038	34.534	85.034	0.004	34.532	0.002	85.035	0.003	34.533	0.001	2800
3000	14.731	86.053	37.478	86.050	0.003	37.476	0.002	86.053	0.000	37.484	-0.006	3000
3200	14.731	86.053	37.478	86.050	0.003	37.476	0.002	86.053	0.000	37.480	-0.002	3200
3400	14.752	87.005	40.426	87.002	0.003	40.425	0.001	87.004	0.001	40.427	-0.001	3400
3600	14.769	87.899	43.378	87.897	0.002	43.378	0.000	87.899	0.000	43.378	-0.000	3600
3800	14.784	88.744	46.334	88.742	0.002	46.334	-0.000	88.743	0.001	46.333	0.001	3800
4000	14.798	89.544	49.292	89.542	0.002	49.293	-0.001	89.543	0.001	49.291	0.001	4000
4200	14.809	90.303	52.253	90.301	0.002	52.254	-0.001	90.302	0.001	52.251	0.002	4200
4400	14.820	91.026	55.216	91.024	0.002	55.218	-0.002	91.025	0.001	55.214	0.002	4400
4600	14.831	91.716	58.181	91.713	0.003	58.182	-0.001	91.714	0.001	58.180	0.001	4600
4800	14.841	92.375	61.148	92.373	0.002	61.149	-0.001	92.374	0.001	61.147	0.001	4800
5000	14.850	93.007	64.117	93.005	0.002	64.117	-0.000	93.006	0.001	64.117	0.000	5000
5200	14.860	93.613	67.088	93.611	0.002	67.087	0.001	93.613	0.000	67.088	-0.000	5200
5400	14.870	94.196	70.061	94.194	0.002	70.060	0.001	94.196	0.000	70.062	-0.001	5400
5600	14.880	94.758	73.036	94.755	0.003	73.034	0.002	94.757	0.001	73.037	-0.001	5600
5800	14.891	95.299	76.013	95.296	0.003	76.011	0.002	95.298	0.001	76.014	-0.001	5800
6000	14.901	95.822	78.992	95.819	0.003	78.992	0.000	95.821	0.001	78.992	0.000	6000
6000	14.912	96.327	81.974	96.325	0.002	81.976	-0.002	96.326	0.001	81.972	0.002	6000

AZIDE (G) N 3 1270
 MOL. WT. = 42.020 BLCCK= 5278 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 99.000 KEY = 1116
 FITS FOR NOTS RMS = 0.010986
 3 7 0 0 0 0 0 0 0 0 0 AZIDE (G) 10J12701116
 +1.3994098E+1+5.5299985E-1-1.2064653E-1+8.9842304E-3 400 6000 11J12701116
 -8.5580444E-1+9.2374374E+1+6.7314453E+1+9.9000000E+1N3 (G) 12J12701116

FITS FOR EST RMS LOW = 0.016878 RMS HIGH = 0.004498
 3 7 0 0 0 0 0 0 0 0 0 AZIDE (G) 10N3
 +990000+5+372362+5+143369+2+177592-3-919968+6+839369+2 4003000J127011N3
 +990000+5+372324+5+149579+2-657155-5-216934+7+839369+23C 006000J127012N3

-----NOTS-----													
-----EST-----													
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
0.115	400	10.680	57.099	1.042	57.378	-0.279	1.153	-0.111	57.412	-0.313	1.169	-0.127	-00
0.033	600	12.047	61.706	3.324	61.665	0.041	3.288	0.036	61.663	0.043	3.287	0.037	00
0.029	800	12.933	65.303	5.828	65.266	0.037	5.797	0.031	65.264	0.039	5.796	0.032	00
0.009	1000	13.496	68.254	8.476	68.238	0.016	8.463	0.013	68.240	0.014	8.465	0.011	00
0.004	1200	13.860	70.749	11.214	70.745	0.004	11.214	0.000	70.749	0.000	11.219	-0.005	00
0.009	1400	14.105	72.906	14.012	72.906	0.000	14.018	-0.006	72.910	-0.004	14.023	-0.011	-00
0.009	1600	14.275	74.801	16.851	74.801	-0.001	16.858	-0.007	74.805	-0.004	16.861	-0.010	00
0.005	1800	14.397	76.489	19.719	76.489	-0.000	19.724	-0.005	76.491	-0.002	19.725	-0.006	100
0.001	2000	14.488	78.011	22.607	78.010	0.001	22.611	-0.004	78.010	0.001	22.609	-0.002	200
0.003	2200	14.556	79.395	25.512	79.393	0.002	25.513	-0.001	79.392	0.003	25.509	0.003	300
0.005	2400	14.609	80.664	28.429	80.661	0.003	28.428	0.001	80.660	0.004	28.423	0.006	400
0.005	2600	14.651	81.836	31.355	81.832	0.004	31.353	0.002	81.831	0.005	31.350	0.005	500
0.001	2800	14.685	82.923	34.289	82.919	0.004	34.286	0.003	82.920	0.003	34.288	0.001	
-0.006	3000	14.712	83.937	37.229	83.933	0.004	37.227	0.002	83.937	0.000	37.236	-0.007	
0.002	3000	14.712	83.937	37.229	83.933	0.004	37.227	0.002	83.937	0.000	37.232	-0.003	
0.001	3200	14.735	84.887	40.174	84.883	0.004	40.172	0.002	84.886	0.001	40.175	-0.001	
-0.000	3400	14.754	85.781	43.123	85.778	0.003	43.122	0.001	85.780	0.001	43.122	0.001	
0.001	3600	14.770	86.625	46.075	86.622	0.003	46.075	-0.000	86.623	0.002	46.074	0.001	
0.001	3800	14.783	87.424	49.030	87.421	0.003	49.031	-0.001	87.422	0.002	49.029	0.001	
0.002	4000	14.795	88.182	51.988	88.180	0.002	51.990	-0.002	88.181	0.001	51.987	0.001	
0.002	4200	14.805	88.904	54.948	88.902	0.002	54.950	-0.002	88.903	0.001	54.947	0.001	
0.001	4400	14.814	89.593	57.910	89.591	0.002	57.912	-0.002	89.592	0.001	57.909	0.001	
0.001	4600	14.822	90.252	60.874	90.249	0.003	60.875	-0.001	90.251	0.001	60.874	0.000	
0.000	4800	14.830	90.883	63.839	90.880	0.003	63.840	-0.001	90.882	0.001	63.839	-0.000	
-0.000	5000	14.836	91.488	66.806	91.485	0.003	66.805	0.001	91.488	0.000	66.806	-0.000	
-0.001	5200	14.843	92.070	69.774	92.067	0.003	69.772	0.002	92.070	0.000	69.775	-0.001	
-0.001	5400	14.849	92.631	72.743	92.627	0.004	72.741	0.002	92.630	0.001	72.744	-0.001	
-0.001	5600	14.855	93.171	75.713	93.168	0.003	75.712	0.001	93.170	0.001	75.714	-0.001	
0.000	5800	14.861	93.692	78.685	93.689	0.003	78.684	0.001	93.691	0.001	78.684	0.001	
0.002	6000	14.866	94.196	81.657	94.194	0.002	81.660	-0.003	94.195	0.001	81.656	0.001	


```
STRO1
MOL.
DATA 1
BITS 1
38 0
.9396
.5151
```

FITS 1
1 38 0
191999
191999

T	K	C _i
100	4	4
200	4	4
300	4	4
400	4	4
500	4	4
600	4	4
700	4	4
800	4	4
900	5	5
1000	5	5
1100	5	5
1200	5	5
1300	6	6
1400	6	6
1500	6	6
1600	7	7
1700	8	8
1800	8	8
1900	9	9
2000	10	10
2100	11	11
2200	12	12
2300	12	12
2400	13	13
2500	14	14
2600	14	14
2700	15	15
2800	15	15
2900	15	15

STRONTIUM MONATOMIC (G) SR 1 0 0 0 0 0 1270 P
 MOL. WT.= 87.620 BLOCK= 5295 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = 39.200 KEY =1120 DA
 FITS FOR NOTS RMS = 0.145965 FI
 38 0 0 0 0 0 0 0 0 0 STRONTIUM MONATOMIC (G) 10J12701120 1
 .9396789E+1-1.4051349E+1+4.2828540E+0-3.4007191E-1 400 6000 11J12701120 +9.9
 .5151977E+0+2.5249176E+1+5.5357391E+1+3.9199996E+1SR (G) 12J12701120 -1.3

FITS FOR EST RMS LOW = 0.054710 RMS HIGH = 0.260311 FI
 38 0 0 0 0 0 0 0 0 0 STRONTIUM MONATOMIC (G) 10SR 1
 .01999+5+138583+5+361070+1+686963-3+526840+6+509749+2 4003000J127011SR -237
 .01999+5+140828+5+498594+1+216761-2-597574+8+509749+230006000J127012SR -237

	-----NOTS-----								-----EST-----				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	
C/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
.001	400	4.968	40.783	0.506	43.284	-2.501	1.561	-1.055	40.297	0.486	0.293	0.213	400
.000	500	4.968	42.797	1.500	42.647	0.150	1.314	0.186	42.813	-0.016	1.522	-0.022	500
.000	600	4.968	44.227	2.493	43.847	0.380	2.160	0.333	44.309	-0.082	2.560	-0.067	600
.000	700	4.968	45.335	3.487	45.092	0.243	3.278	0.209	45.400	-0.065	3.538	-0.051	700
.000	800	4.968	46.241	4.480	46.141	0.100	4.428	0.052	46.276	-0.035	4.499	-0.019	800
.000	900	4.969	47.007	5.474	46.995	0.012	5.536	-0.062	47.019	-0.012	5.462	0.012	900
.000	1000	4.974	47.671	6.468	47.696	-0.025	6.586	-0.118	47.670	0.001	6.438	0.030	1000
.000	1100	4.991	48.257	7.464	48.286	-0.029	7.586	-0.122	48.254	0.003	7.430	0.034	1100
.000	1200	5.031	48.785	8.466	48.798	-0.013	8.558	-0.092	48.787	-0.002	8.442	0.024	1200
.000	1300	5.111	49.268	9.480	49.259	0.009	9.525	-0.045	49.280	-0.012	9.477	0.003	1300
.000	1400	5.251	49.718	10.515	49.688	0.030	10.513	0.002	49.741	-0.023	10.535	-0.020	1400
.000	1500	5.468	50.146	11.585	50.101	0.045	11.546	0.039	50.174	-0.028	11.618	-0.033	1500
.000	1600	5.779	50.562	12.708	50.509	0.053	12.648	0.060	50.584	-0.022	12.725	-0.017	1600
.000	1700	6.193	50.975	13.904	50.920	0.055	13.839	0.065	50.975	0.000	13.858	0.046	1700
.000	1800	6.193	50.975	13.904	50.920	0.055	13.839	0.065	50.975	0.000	14.083	-0.179	1800
.000	1900	6.715	51.390	15.193	51.340	0.050	15.140	0.053	51.328	0.062	15.179	0.014	1900
.000	2000	7.339	51.816	16.597	51.772	0.044	16.565	0.032	51.731	0.085	16.508	0.089	2000
	100	8.055	52.255	18.135	52.218	0.037	18.128	0.007	52.170	0.085	18.046	0.089	
	200	8.843	52.711	19.823	52.681	0.030	19.840	-0.017	52.637	0.074	19.774	0.049	
	300	9.678	53.186	21.675	53.159	0.027	21.707	-0.032	53.125	0.061	21.676	-0.001	
	400	10.535	53.679	23.696	53.654	0.025	23.734	-0.038	53.628	0.051	23.739	-0.043	
	500	11.383	54.189	25.888	54.162	0.027	25.922	-0.034	54.143	0.046	25.954	-0.066	
	600	12.196	54.713	28.247	54.684	0.029	28.268	-0.021	54.667	0.046	28.311	-0.064	
	700	12.952	55.248	30.763	55.215	0.033	30.767	-0.004	55.197	0.051	30.805	-0.042	
	800	13.631	55.791	33.422	55.755	0.036	33.410	0.012	55.732	0.059	33.428	-0.006	
	900	14.221	56.337	36.209	56.299	0.038	36.187	0.022	56.271	0.066	36.177	0.032	
	1000	14.716	56.884	39.104	56.845	0.039	39.081	0.023	56.813	0.071	39.046	0.058	
	1100	15.114	57.426	42.089	57.390	0.036	42.075	0.014	57.356	0.070	42.032	0.057	
	1200	15.420	57.962	45.144	57.929	0.033	45.148	-0.004	57.900	0.062	45.132	0.012	
	1300	15.638	58.489	48.251	58.459	0.030	48.274	-0.023	58.444	0.045	48.344	-0.093	

```

POTASSIUM METABORATE (C) B 1K 10 2 0 0 0 671
MOL. WT.= 81.910 BLOCK= 5301 NO. POINT = 22
DATA FROM 0 TO 2000 K HFORM(KCAL/(MOLE)) = -237.800 KEY =1121
FITS FOR NOTS RMS = 0.005403
1 5 2 8 1 19 0 0 0 0 0 POTASSIUM METABORATE (C) 30J 6711121
+9.9308471E+0+2.9244766E+1-1.7979339E+1+3.8742818E+0 400 2000 31J 6711121
-1.3261413E-1-2.4232675E+2+2.2515747E+1-2.3779998E+2BK02(C) 32J 6711121

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PITS FOR EST      RMS LOW =      0.017341 RMS HIGH =      0.017341
1  5  2  8  1 19 0  0  0  0  0 POTASSIUM METABORATE      (C) 30BK02$
-237799+6+693766+5+254005+2+112145-2-159752+7+735855+2 4002000J 67131BK02$
-237799+6+693766+5+254005+2+112145-2-159752+7+735855+2 4002000J 67132BK02$

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[illegible]

POTASSIUM METABORATE (G) B 1K 10 2 0 0 0 671
 MOL. WT.= 81.910 BLOCK= 5306 NO. POINT = 62
 DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -161.100 KEY =1123
 FITS FOR NOTS RMS = 0.011692
 1 5 2 8 1 19 0 0 0 0 0 POTASSIUM METABORATE (G) 10J 6711123
 +1.8856063E+1+6.1094081E-1-1.3184046E-1+9.6782185E-3 400 6000 11J 6711123
 -9.0510559E-1-1.6933479E+2+8.9883010E+1-1.6109999E+2BK02 (G) 12J 6711123

FITS FOR EST RMS LOW = 0.018253 RMS HIGH = 0.005946
 1 5 2 8 1 19 0 0 0 0 0 POTASSIUM METABORATE (G) 10BK02
 -161099+6+504044+5+192338+2+198521-3-976672+6+111978+3 4003000J 67111BK02
 -161099+6+504001+5+199962+2-184230-4-271385+7+111978+330006000J 67112BK02

	-----NOTS-----								-----EST-----					
	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T	C
	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K	C
1														
12	400	15.294	75.377	1.501	75.668	-0.291	1.617	-0.116	75.706	-0.329	1.635	-0.134	400	8
23	600	16.822	81.893	4.725	81.851	0.042	4.688	0.037	81.849	0.044	4.688	0.037	600	10
14	800	17.757	86.871	8.191	86.831	0.040	8.155	0.036	86.829	0.042	8.155	0.036	800	11
31	1000	18.350	90.902	11.806	90.884	0.018	11.790	0.016	90.885	0.017	11.794	0.012	1000	11
44	1200	18.737	94.284	15.517	94.279	0.005	15.516	0.001	94.283	0.001	15.521	-0.004	1200	12
44	1400	18.999	97.194	19.292	97.193	0.001	19.298	-0.006	97.197	-0.003	19.304	-0.012	1400	12
54	1600	19.183	99.743	23.112	99.744	-0.001	23.118	-0.006	99.747	-0.004	23.123	-0.011	1600	12
11	1800	19.316	102.011	26.962	102.011	0.000	26.968	-0.006	102.012	-0.001	26.969	-0.007	1800	13
74	2000	19.414	104.051	30.836	104.050	0.001	30.839	-0.003	104.050	0.001	30.837	-0.001	2000	13
71	2200	19.489	105.905	34.726	105.903	0.002	34.727	-0.001	105.901	0.004	34.723	0.003	2200	13
48	2400	19.547	107.604	38.630	107.601	0.003	38.629	0.001	107.598	0.006	38.624	0.006	2400	14
18	2600	19.593	109.170	42.544	109.167	0.003	42.542	0.002	109.165	0.005	42.539	0.005	2600	14
10	2800	19.630	110.624	46.467	110.620	0.004	46.464	0.003	110.620	0.004	46.466	0.001	2800	14
28	3000	19.660	111.979	50.396	111.975	0.004	50.394	0.002	111.979	0.000	50.404	-0.008	3000	14
31	3000	19.660	111.979	50.396	111.975	0.004	50.394	0.002	111.979	0.000	50.400	-0.004	3000	14
15	3200	19.685	113.249	54.330	113.245	0.004	54.329	0.001	113.248	0.001	54.331	-0.001	3200	15
25	3400	19.706	114.443	58.270	114.440	0.003	58.269	0.001	114.441	0.002	58.269	0.001	3400	
	3600	19.723	115.570	62.213	115.567	0.003	62.213	-0.000	115.568	0.002	62.211	0.002		
	3800	19.738	116.636	66.159	116.634	0.002	66.160	-0.001	116.634	0.002	66.156	0.003		
	4000	19.751	117.649	70.108	117.647	0.002	70.110	-0.002	117.647	0.002	70.106	0.002		
	4200	19.762	118.613	74.059	118.611	0.002	74.062	-0.003	118.611	0.002	74.057	0.001		
	4400	19.772	119.533	78.013	119.530	0.003	78.015	-0.002	119.531	0.002	78.012	0.001		
	4600	19.780	120.412	81.968	120.409	0.003	81.969	-0.001	120.410	0.002	81.967	0.001		
	4800	19.788	121.254	85.925	121.251	0.003	85.925	-0.000	121.252	0.002	85.925	0.000		
	5000	19.794	122.062	89.883	122.059	0.003	89.882	0.001	122.060	0.002	89.863	-0.000		
	5200	19.800	122.838	93.842	122.835	0.003	93.840	0.002	122.837	0.001	93.843	-0.001		
	5400	19.805	123.586	97.803	123.582	0.004	97.800	0.003	123.584	0.002	97.803	-0.000		
	5600	19.810	124.306	101.764	124.303	0.003	101.762	0.002	124.304	0.002	101.764	-0.000		
	5800	19.814	125.001	105.726	124.998	0.003	105.726	0.000	124.999	0.002	105.726	0.000		
	6000	19.818	125.673	109.690	125.670	0.003	109.693	-0.003	125.671	0.002	109.688	0.002		

BERY:
 MOL
 DATA
 FITS
 4 1
 1.0883
 1.1029

FITS
 4 1
 1.43829
 1.43829

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 100 10
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CALCIUM OXIDE (C) CA 10 1 0 0 0 0 671
 MOL. WT.= 56.070 BLOCK= 5316 NO. POINT = 37
 DATA FROM 0 TO 3500 K HFORM(KCAL/(MOLE)) = -151.790 KEY =1125
 FITS FOR NOTS RMS = 0.001467
 1 8 1 20 0 0 0 0 0 0 0 CALCIUM OXIDE (C) 30J 6711125
 +1.2121463E+1+9.6081209E-1-5.8664008E-3+1.4616511E-3 400 3500 31J 6711125
 -2.2909545E-1-1.5619898E+2+2.2276657E+1-1.5178999E+2CAO (C) 32J 6711125

FITS FOR EST RMS LOW = 0.000626 RMS HIGH = 0.000626
 1 8 1 20 0 0 0 0 0 0 0 CALCIUM OXIDE (C) 30CAO\$
 -151789+6+363325+5+121116+2+959759-3-226528+6+384749+2 4003500J 67131CAO\$
 -151789+6+363325+5+121116+2+959759-3-226528+6+384749+2 4003500J 67132CAO\$

-----NOTS-----								-----EST-----				
DH	T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
KC/M	K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
-0.049	400	11.144	12.261	1.087	12.270	-0.009	1.089	-0.002	12.271	-0.010	1.091	-0.004
0.011	600	12.065	16.982	3.421	16.978	0.004	3.418	0.003	16.981	0.001	3.421	0.000
0.012	800	12.524	20.521	5.884	20.518	0.003	5.881	0.003	20.519	0.002	5.883	0.001
0.005	1000	12.843	23.351	8.422	23.350	0.001	8.420	0.002	23.350	0.001	8.421	0.001
0.001	1200	13.105	25.716	11.017	25.716	0.000	11.017	0.000	25.716	0.000	11.017	-0.000
-0.002	1400	13.339	27.754	13.662	27.754	-0.000	13.662	-0.000	27.754	0.000	13.662	0.000
-0.003	1600	13.558	29.550	16.352	29.550	-0.000	16.353	-0.001	29.549	0.001	16.352	0.000
-0.002	1800	13.769	31.159	19.085	31.160	-0.001	19.086	-0.001	31.159	0.000	19.085	0.000
-0.002	2000	13.975	32.620	21.859	32.621	-0.001	21.860	-0.001	32.620	-0.000	21.859	-0.000
-0.001	2200	14.177	33.962	24.674	33.962	-0.000	24.675	-0.001	33.962	0.000	24.674	-0.000
-0.000	2400	14.376	35.204	27.530	35.204	-0.000	27.530	-0.000	35.204	0.000	27.530	0.000
0.002	2600	14.574	36.362	30.425	36.363	-0.001	30.425	0.000	36.362	-0.000	30.425	0.000
0.002	2800	14.770	37.450	33.359	37.450	0.000	33.359	0.000	37.449	0.001	33.359	0.000
0.002	3000	14.966	38.475	36.333	38.475	-0.000	36.332	0.001	38.475	0.000	36.333	0.000
0.000	3200	15.161	39.447	39.345	39.447	-0.000	39.345	0.000	39.447	-0.000	39.345	-0.000
-0.001	3400	15.355	40.372	42.397	40.372	-0.000	42.397	0.000	40.372	-0.000	42.397	0.000

CALCIUM OXIDE (L) CA 10 1 0 0 0 0 671
 MCL. WT.= 56.070 BLOCK= 5319 NO. POINT = 44
 DATA FROM 298 TO 4500 K HFORM(KCAL/(MOLE)) = -133.257 KEY =1126
 FITS FOR NOTS RMS = 0.128433
 1 8 1 20 0 0 0 0 0 0 0 CALCIUM OXIDE (L) 20J 6711126
 -6.3198375E-1+1.4999238E+1-4.7965764E+0+4.9442386E-1 400 4500 21J 6711126
 +2.1341552E+0-1.2809153E+2+1.7364334E+1-1.3325698E+2CAO(L) 22J 6711126

FITS FOR EST RMS LOW = 0.261453 RMS HIGH = 0.261453
 1 8 1 20 0 0 0 0 0 0 0 CALCIUM OXIDE (L) 20CAO*
 -133256+6+368416+5+158442+2-293147-3-257739+7+444119+2 4004500J 67121CAO*
 -133256+6+368416+5+158442+2-293147-3-257739+7+444119+2 4004500J 67122CAO*

-----NOTS-----								-----EST-----				
T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH	T
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M	K
400	11.144	17.934	1.087	16.901	1.033	0.678	0.409	21.161	-3.227	2.527	-1.440	400
600	12.065	22.655	3.421	22.895	-0.240	3.600	-0.179	23.052	-0.397	3.518	-0.097	600
800	12.524	26.194	5.884	26.387	-0.193	6.024	-0.140	25.985	0.209	5.572	0.312	800
1000	12.843	29.024	8.422	29.063	-0.039	8.424	-0.002	28.737	0.287	8.044	0.378	1000
1200	13.105	31.389	11.017	31.338	0.051	10.922	0.095	31.173	0.216	10.719	0.298	1200
1400	13.339	33.427	13.662	33.358	0.069	13.543	0.119	33.320	0.107	13.505	0.157	1400
1600	13.558	35.223	16.352	35.185	0.038	16.281	0.071	35.223	0.000	16.355	-0.003	1600
1800	13.769	36.832	19.085	36.853	-0.021	19.114	-0.029	36.925	-0.093	19.246	-0.161	1800
2000	14.500	38.315	21.902	38.383	-0.068	22.020	-0.118	38.460	-0.145	22.160	-0.258	2000
2200	15.140	39.730	24.871	39.791	-0.061	24.974	-0.103	39.855	-0.125	25.088	-0.217	2200
2400	15.460	41.063	27.936	41.088	-0.025	27.956	-0.020	41.133	-0.070	28.025	-0.089	2400
2600	15.189	42.297	31.019	42.285	0.012	30.946	0.073	42.309	-0.012	30.964	0.055	2600
2800	14.734	43.404	34.008	43.391	0.013	33.930	0.078	43.399	0.005	33.904	0.104	2800
3000	14.500	44.412	36.927	44.414	-0.002	36.898	0.029	44.412	0.000	36.842	0.085	3000
3200	14.500	45.348	39.827	45.365	-0.017	39.842	-0.015	45.359	-0.011	39.775	0.052	3200
3400	14.500	46.227	42.727	46.249	-0.022	42.761	-0.034	46.246	-0.019	42.703	0.024	3400
3600	14.500	47.055	45.627	47.077	-0.022	45.657	-0.030	47.081	-0.026	45.625	0.002	3600
3800	14.500	47.839	48.527	47.856	-0.017	48.538	-0.011	47.869	-0.030	48.539	-0.012	3800
4000	14.500	48.583	51.427	48.594	-0.011	51.414	0.013	48.614	-0.031	51.445	-0.018	4000
4200	14.500	49.291	54.327	49.298	-0.007	54.302	0.025	49.321	-0.030	54.343	-0.016	4200
4400	14.500	49.965	57.227	49.978	-0.013	57.224	0.003	49.993	-0.028	57.232	-0.005	4400

SULI
 MOI
 DATA
 FITS
 2 8
 +2.5148
 -1.2485
 FITS
 2 8
 -133000
 -133000
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 400 1
 600 2
 800 2
 1000 2
 1200 2
 1400 2
 1600 2
 1800 2
 2000 2
 2200 2
 2400 2
 2600 2
 2800 2
 3000 2
 3200 2
 3400 2
 3600 2
 3800 2
 4000 2
 4200 2
 4400 2
 4600 2
 4800 2
 5000 2
 5200 2
 5400 2
 5600 2
 5800 2
 6000 2

CESIUM HYDROXIDE

(G) CS 1H 10 1

671

MOL. WT.= 149.910 BLOCK= 5339 NO. POINT = 62

DATA FROM 0 TO 6000 K HFORM(KCAL/(MOLE)) = -62.000 KEY =1131

FITS FOR NOTS RMS = 0.012054

1 1 1 8 1 55 0 0 0 0 0 CESIUM HYDROXIDE (G) 10J 6711131
 +1.2164381E+1+1.4579334E+0-2.8771001E-1+1.9743785E-2 400 6000 11J 6711131
 -1.7469787E-1-6.6104843E+1+7.4640457E+1-6.2000000E+1CSHO (G) 12J 6711131

FITS FOR EST RMS LOW = 0.022694 RMS HIGH = 0.004629

1 1 1 8 1 55 0 0 0 0 0 CESIUM HYDROXIDE (G) 10CSHO
 -620000+5+368344+5+130932+2+506222-3-370336+6+912739+2 4003000J 67111CSHO
 -620000+5+368251+5+149324+2-638703-5-423808+7+912739+230006000J 67112CSHO

-----NOTS-----

-----EST-----

T	CP	S	H	SC	DS	HC	DH	SC	DS	HC	DH
K	C/M-K	C/M-K	KC/M	C/M-K	C/M-K	KC/M	KC/M	C/M-K	C/M-K	KC/M	KC/M
400	12.315	64.427	1.235	64.601	-0.174	1.308	-0.073	64.713	-0.286	1.357	-0.122
600	12.665	69.497	3.738	69.494	0.003	3.727	0.011	69.480	0.017	3.718	0.020
800	12.886	73.171	6.294	73.140	0.031	6.264	0.030	73.123	0.048	6.253	0.041
1000	13.116	76.071	8.894	76.048	0.023	8.872	0.022	76.042	0.029	8.870	0.024
1200	13.350	78.483	11.540	78.473	0.010	11.532	0.008	78.474	0.009	11.538	0.002
1400	13.568	80.557	14.232	80.555	0.002	14.235	-0.003	80.559	-0.002	14.244	-0.012
1600	13.759	82.382	16.966	82.383	-0.001	16.973	-0.007	82.386	-0.004	16.982	-0.016
1800	13.921	84.012	19.734	84.014	-0.002	19.742	-0.008	84.015	-0.003	19.747	-0.013
2000	14.057	85.486	22.532	85.487	-0.001	22.539	-0.007	85.485	0.001	22.537	-0.005
2200	14.169	86.831	25.355	86.831	0.000	25.359	-0.004	86.826	0.005	25.352	0.003
2400	14.263	88.068	28.199	88.067	0.001	28.199	-0.000	88.060	0.008	28.189	0.010
2600	14.341	89.213	31.059	89.210	0.003	31.057	0.002	89.205	0.008	31.049	0.010
2800	14.407	90.278	33.934	90.275	0.003	33.931	0.003	90.272	0.006	33.931	0.003
3000	14.462	91.274	36.821	91.271	0.003	36.818	0.003	91.274	0.000	36.834	-0.013
3000	14.462	91.274	36.821	91.271	0.003	36.818	0.003	91.274	0.000	36.825	-0.004
3200	14.509	92.209	39.719	92.206	0.003	39.715	0.004	92.208	0.001	39.719	-0.000
3400	14.550	93.090	42.625	93.087	0.003	42.622	0.003	93.088	0.002	42.624	0.001
3600	14.584	93.923	45.538	93.920	0.003	45.537	0.001	93.921	0.002	45.537	0.001
3800	14.614	94.712	48.458	94.710	0.002	48.459	-0.001	94.710	0.002	48.456	0.002
4000	14.640	95.462	51.384	95.461	0.001	51.386	-0.002	95.460	0.002	51.382	0.002
4200	14.663	96.177	54.314	96.176	0.001	54.317	-0.003	96.175	0.002	54.313	0.001
4400	14.683	96.860	57.249	96.858	0.002	57.251	-0.003	96.858	0.002	57.248	0.001
4600	14.701	97.513	60.187	97.511	0.002	60.189	-0.002	97.511	0.002	60.187	0.000
4800	14.716	98.139	63.129	98.137	0.002	63.130	-0.001	98.137	0.002	63.129	0.000
5000	14.730	98.740	66.073	98.738	0.002	66.073	-0.000	98.738	0.002	66.074	-0.001
5200	14.743	99.318	69.021	99.315	0.003	69.019	0.002	99.316	0.002	69.021	-0.000
5400	14.754	99.875	71.970	99.872	0.003	71.968	0.002	99.873	0.002	71.971	-0.001
5600	14.764	100.411	74.922	100.408	0.003	74.919	0.003	100.410	0.001	74.922	-0.000
5800	14.773	100.930	77.876	100.927	0.003	77.875	0.001	100.928	0.002	77.875	0.001
6000	14.781	101.431	80.831	101.429	0.002	80.835	-0.004	101.429	0.002	80.830	0.001