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WANL-TME-1753

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Westinghouse Astronuclear Laboratory

TME-1753
THE THERMODYNAMIC AND TRANSPORT
PROPERTIES OF HELIUM AND NITROGEN

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ABSTRACT

This report describes digital computer programs coded in FORTRAN IV language that calculate the thermodynamic and transport properties of molecular helium and nitrogen. The programs are oriented toward heat transfer and fluid flow calculations. The results of property calculations cover the pressure range from 1 to 2500 psia and temperature ranges of 35°R to 4500°R for helium and 120°R to 4500°R for nitrogen. Instructions for the use of the programs are provided and a tabulation of property values is included.

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1.0 INTRODUCTION

Hydrogen is the main working fluid in nuclear rocket propulsion applications, however, in the NERVA program many design and analysis problems involve the flow and heat transfer of other working fluids. Many of these problems are conveniently solved with the aid of electronic digital computers, therefore, a "library" of fluid properties (hydrogen, helium and nitrogen) has been developed. The hydrogen property codes, reported in Reference 1, are interchangeable with the helium and nitrogen properties as described in this report.

In anticipation of heat transfer and fluid flow computations, two types of codes have been developed. One type of code (TABHP) requires enthalpy and pressure as the input variables; the other, (TABTP), uses temperature and pressure as input. Both types of subroutines provide seven properties that are unique, single-valued and continuous for each set of two independent variables.

The results from the subroutines cover the pressure range to 2500 psia and temperature ranges of 36°R to 4500°R for helium and 120°R to 4500°R for nitrogen. The codes extrapolate to higher pressure and temperature or enthalpy, but considerable error may result.

The analytical techniques (a series of analytical and empirical data fits that are integrated, differentiated and combined with tabulations of data) used to formulate the properties of helium and nitrogen are presented in Appendices 1 and 2, respectively. To illustrate the validity of the techniques used, the errors with respect to published helium and nitrogen data are presented.

Users operating instructions and estimates of the computer execution speed and storage requirements are included in this report.

Tabulated property values obtained from the digital codes are included in this report. Nitrogen latent heat of vaporization and vapor pressure as a function of temperature are shown in Figures 1 and 2.

Figure 1. Nitrogen Vapor Pressure

Figure 2. Nitrogen Latent Heat of Vaporization

2.0 COMPARISON OF COMPUTED RESULTS WITH PUBLISHED DATA

The deviations in computed properties from published data are discussed in the following paragraphs. Dissociation is not treated in either the helium or nitrogen subroutines. For pressures greater than 0.1 atmosphere and temperatures less than 4500°R dissociation effects are negligible for these two gases as far as heat transfer and fluid flow calculations are concerned.

2.1 HELIUM COMPARISON

The equation of state, of McCarthy and Stewart² is used for temperatures up to 750°R. A simplified version of this equation is used for temperatures to 4500°R. This equation was developed for use from 36°R to 540°R and pressures up to 100 atmospheres. However, this equation and the simplified version of the equation were found to be adequate for the representation of P-V-T data and for the calculation of derived thermodynamic properties up to 4500°R (Table 1). Data on the thermodynamic properties are not available in the region of pressures greater than 100 atmospheres and temperatures less than 450°R, therefore, the properties published in this report in that range are unsubstantiated.

The effect of pressure on viscosity and thermal conductivity are not shown in Table 1 because of the limited data. The only determination of the effect of pressure on the viscosity of helium are those of Reference 3, whose measurements at 20°C extend to 70 atmospheres. The ratio of the viscosity at 70 atmospheres to the viscosity at 1 atmosphere at 20°C from Reference 3, is 1.0061 and the ratio calculated by the helium property code is 1.0067. The effect of pressure on thermal conductivity of helium is shown in graphical form in Reference 4. As interpolated from the graph, the ratio of thermal conductivity at 100 kg/cm² (1421 psia) to atmospheric thermal conductivity at 25°C is 1.04 while the calculated value is 1.03. Since the experimental pressure effects on the transport properties of helium are so limited, the Enskog⁵ type corrections applied to these properties are virtually unsubstantiated.

TABLE 1
DEVIATION OF CALCULATED PROPERTY VALUES OF HELIUM
FROM PUBLISHED DATA

Property	Deviation*		Range		Number of Points	Reference
	σ^*	$\sigma_{\max.}$	Pressure psia	Temperature °R		
Specific Volume	.004539	.018049	7.35 - 1469.6	36 - 540	464	10
	.001371	.003527	14.696 - 2500	450 - 4500	432	7
Enthalpy	.003957	.038782	7.35 - 1469.6	36 - 540	464	10
	.000496	.001310	14.696 - 2500	450 - 4500	432	7
Specific Heat Constant Pressure	.000842	.005234	14.696 - 2500	450 - 4500	432	7
	.047938	.065311	88 - 1029	36	6	11
Specific Heat Ratio	.000567	.004827	14.696 - 2500	450 - 4500	432	7
Thermal Conductivity	.040936	.072238	14.696	30 - 1560	14	9
	.026640	.061854	14.696	360 - 4680	13	12
	.117359	.138649	14.696	2160 - 3600	5	13
	.027963	.075359	14.696	180 - 4500	25	14
Viscosity	.037046	.054996	14.696	180 - 4500	25	14
	.042179	.079495	14.696	360 - 4680	13	12
	.050120	.093848	14.696	36 - 540	14	9
	.023191	.046536	14.696	857 - 4219	23	15
Sonic Velocity	.002582	.006572	14.696	37 - 492	11	16

$$* \quad \sigma = \sqrt{\frac{\sum_{i=1}^N \left(\frac{Z_C - Z_R}{Z_R} \right)^2}{N-1}}$$

Z_C = Calculated property value

Z_R = Reference property value

N = Number of points

2.2 NITROGEN COMPARISON

The thermodynamic properties up to 900°R are based on the equation of state from Reference 6. Above 900°R these properties are obtained by double linear interpolation of data from Reference 7. Between 890 and 910°R the properties are smoothed to obtain continuous values.

The deviation of calculated property values of nitrogen from published data is shown in Table 2. The largest errors occur near the critical point where the partial derivatives approach infinity or zero.

Liquid-phase calculations are not constrained by the melting pressure boundary, so that properties will be incorrect for pressures higher than or temperatures lower than the melting boundary.

Enskog⁵ type corrections to approximate the pressure effect on viscosity and thermal conductivity were not adequate in the cryogenic range. A form of an equation developed by Diller⁸ for hydrogen was modified by ratioing the critical temperatures, densities, and residual viscosities of nitrogen and hydrogen to obtain coefficients for the nitrogen equation. This modified equation produces viscosity values which are in good agreement with published data (Appendix 2).

An empirical equation developed by the author is used to approximate the real gas effects on thermal conductivity. This equation gives reasonable results except in the vicinity of the critical point where the derivatives are quite large.

TABLE 2
DEVIATION OF CALCULATED PROPERTY VALUES OF NITROGEN
FROM PUBLISHED DATA

Property	Deviation		Range		Number of Points	Reference
	σ **	σ max.*	Pressure psia	Temperature °R		
Specific Volume	.001127	.004956	14.696 - 2500	450 - 4500	432	7
	.000067	.000262	1 - 2500	120 - 540	330	6
Enthalpy	.003679	.007819	14.696 - 2500	450 - 4500	432	7
	.000691	.003319	1 - 2500	120 - 540	330	6
Specific Heat Constant Pressure	.004610	.013841	14.696 - 2500	450 - 4500	432	7
	.075013	.271221	4.4 - 315	123 - 211	26	11
	.018867	.077376	14.696 - 2939	267 - 492	48	11
Specific Heat Ratio	.004280	.017006	14.696 - 2500	450 - 4500	432	7
Thermal Conductivity	.028810	.064919	14.21 - 2131.5	492 - 2292	44	4
	.084551	.299643	14.696 - 1469.6	162 - 307	34	4
	.013754	.030433	14.696	540 - 4500	23	14
	.048720	.306051	4.7 - 3023.	123 - 566	153	11
Viscosity	.004697	.010555	14.696	180 - 810	10	17
	.021685	.041647	14.696	180 - 4500	25	14
	.012147	.020985	5 - 155	124 - 139	5	11
	.005525	.012141	14.696 - 1469.6	162 - 537	36	11
	.011235	.027880	14.696 - 1469.6	527 - 2651	53	18
Sonic Velocity	.085131	.109659	4 - 980	121 - 162	34	16
	.011163	.068532	1 - 1469.6	140 - 504	52	16

* The largest errors occur near the critical point where the partial derivatives approach infinity or zero.

** Same definition as Table 1.

3.0 OPERATING INSTRUCTIONS

The codes provide a total of seven properties for each set of two independent variables. The program argument lists are shown in Table 3. Extrapolation may be done beyond the range of the program but considerable error may result. For independent inputs below the range the output property values will be returned at the lower boundary of the range of the program. The first time the subroutine is entered, a message will be written on the output tape indicating the type of fluid (helium or nitrogen) properties used. The first 20 times the input variables are out of range, an error message will be written on the output tape.

3.1 TABHP - ENTHALPY AND PRESSURE INPUT SUBROUTINE

The FORTRAN IV calling statement for TABHP is:

```
CALL TABHP (H, P, Q, T, V, GA, CP, SV, C, VIG, VIL, VG, VL)
```

The argument list is defined in Table 3.

If the quality (Q) for the nitrogen TABHP code is between one and zero, the conditions given are in the two-phase region. Then Q contains the quality fraction $(H-H_L)/(H_G-H_L)$ and the set of arguments (T through VIG) contain the values of the vapor phase except for the specific volume (V). The last three arguments contain the liquid viscosity (VIL), saturated vapor specific volume (VG), and the saturated liquid specific volume (VL).

For enthalpy values less than or equal to the saturated liquid enthalpy and pressure less than the critical pressure, Q is set to zero. For pressures greater than the critical pressure or enthalpy values greater than or equal to the saturated vapor enthalpy, Q is set to one.

Since the range covered by the helium properties does not include the two-phase or liquid region, Q is always set equal to one and the last three arguments are dummy arguments.

3.2 TABTP - TEMPERATURE AND PRESSURE INPUT SUBROUTINE

The FORTRAN IV calling statement for TABTP is:

```
CALL TABTP (T, P, H, V, GA, CP, SV, C, VIG, ICE)
```

TABLE 3
PROGRAM ARGUMENT LISTS

<u>TABHP</u>				<u>TABTP</u>			
Input	Output	Definition	Units	Input	Output	Definition	Units
H		Enthalpy	Btu/lb	T		Temperature	
P		Pressure	lb/sq. in.	P		Pressure	lb/sq. in.
	Q	Quality					
	T	Temperature	°R		H	Enthalpy	Btu/lb
	V	Specific Volume	cu in./lb		V	Specific Volume	cu in./lb
	GA	Specific Heat Ratio			GA	Specific Heat Ratio	
	CP	Specific Heat	Btu/lb-°R		CP	Specific Heat	Btu/lb-°R
	SV	Sonic Velocity	in./sec		SV	Sonic Velocity	in./sec
	C	Thermal Conductivity	Btu/in.-sec-°R		C	Thermal Conductivity	Btu/in.-sec-°R
	VIG	Absolute Viscosity	lb/in.-sec		VIG	Absolute Viscosity	lb/in.-sec
	VIL*	Liquid Absolute Viscosity	lb/in.-sec		ICE	Dummy argument	
	VG*	Gaseous Specific Volume	cu in./lb				
	VL*	Liquid Specific Volume	cu in./lb				

* These arguments contain values only when in the two-phase region with the nitrogen subroutines and are dummy arguments with the helium subroutines.

The argument list is defined in Table 3.

Since pressure and temperature cannot define a point in the two-phase region, the resulting output arguments are either liquid or vapor values (nitrogen). For both helium and nitrogen TABTP subroutines the argument ICE is a dummy argument.

4.0 STORAGE REQUIREMENTS AND EXECUTION TIME

The computer core storage requirements for the subroutines are listed below:

	<u>Helium</u>	<u>Nitrogen</u>
TABTP	353 ₁₀	1413 ₁₀
TABHP	361 ₁₀	2033 ₁₀

The following estimates of execution speed are based on FORTRAN IV and a CDC 6600 computer. In making the estimates only central processor time was considered.

	<u>Helium</u>	<u>Nitrogen</u>
TABTP	180,000 $\frac{\text{entries}}{\text{min}}$	65,000 $\frac{\text{entries}}{\text{min}}$
TABHP	170,000 $\frac{\text{entries}}{\text{min}}$	25,000 $\frac{\text{entries}}{\text{min}}$

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APPENDIX A

DETAILS OF THE NUMERICAL METHOD USED FOR HELIUM PROPERTIES

The equation of state given by McCarty and Stewart² was developed for a range of temperatures from 36°R to 540°R with pressures to 100 atmospheres. This equation

$$V = \frac{RT}{P} + \frac{E}{P+G} + F - M \exp(-\alpha P - \beta) \quad (1A)$$

where

$$\begin{aligned} \alpha &= BT + C \\ \beta &= AT + D \end{aligned}$$

is explicit in volume, a form particularly suited for the calculation of the derived thermodynamic properties. The behavior of this equation was not evaluated for temperatures above 540°R or for pressures greater than 100 atmospheres by McCarty and Stewart. This relation was found to be adequate for the representation of the P-V-T data and for the calculation of derived thermodynamic properties up to 750°R and 2500 psia. A simplified version of Equation 1A

$$V = \frac{RT}{P} + \frac{E}{P+G} + F \quad (2A)$$

is used from 750°R to 4500°R and pressures up to 2500 psia.

The enthalpy and specific heat at constant pressure for the real fluid can be determined by integration of the equation of state along a constant temperature path from the ideal to the real state.

The enthalpy in the ideal state is a function of temperature only, and for helium.

$$H_T^o = C_p^o T + H^* \quad (3A)$$

* Refer to list of symbols given at end of appendices for nomenclature.

Enthalpy may then be expressed as

$$H(P, T) = C_p^o T + H^* + \int_0^P \left[V - T \left(\frac{\partial V}{\partial T} \right)_P \right] dP \quad (4A)$$

or

$$\begin{aligned} H(P, T) = & C_p^o T + H^* + 2E \left[(P + G)^{0.5} - G^{0.5} \right] + FP \\ & + \frac{M}{\alpha} \exp(-\beta) \left([\exp(\alpha P) - 1] \quad 1 + AT \right. \\ & \left. + \frac{BT}{\alpha} \left[(\alpha P + 1) \exp(-\alpha P) - 1 \right] \right) \end{aligned} \quad (5A)$$

The difference of specific heat at constant pressure due to real gas effects can be determined by

$$\left(\frac{\partial C_p}{\partial P} \right)_T = -T \left(\frac{\partial^2 V}{\partial T^2} \right)_P \quad (6A)$$

Then

$$C_p = C_p^o + \int_0^P -T \left(\frac{\partial^2 V}{\partial T^2} \right)_P dP \quad (7A)$$

$$\begin{aligned} C_p = & C_p^o + \frac{MT}{\alpha} \exp(-\beta) \\ & \left[[1 - \exp(-\alpha P)] \left(A^2 + \frac{2AB}{\alpha} + \frac{2B^2}{\alpha^2} \right) \right. \\ & \left. - \exp(-\alpha P) \cdot BP \left(2A + BP + \frac{2B}{\alpha} \right) \right] \end{aligned} \quad (8A)$$

The specific heat at constant volume may be determined from

$$C_v = C_p + T \frac{\left(\frac{\partial V}{\partial T}\right)_P^2}{\left(\frac{\partial V}{\partial P}\right)_T} \quad (9A)$$

The speed of sound in a fluid can be derived from the definition of the propagation rate of infinitesimal disturbance

$$C^* = \sqrt{g \left(\frac{\partial P}{\partial \rho}\right)_S} = \sqrt{-g v^2 \left(\frac{\partial P}{\partial V}\right)_S} \quad (10A)$$

The partial derivative can be written as

$$\left(\frac{\partial P}{\partial V}\right)_S = \left(\frac{\partial P}{\partial T}\right)_S \left(\frac{\partial T}{\partial V}\right)_S \quad (11A)$$

and the ratio of specific heats can be expressed as

$$\frac{C_p}{C_v} = \frac{\left(\frac{\partial T}{\partial V}\right)_S \left(\frac{\partial P}{\partial T}\right)_S}{\left(\frac{\partial P}{\partial V}\right)_T} \quad (12A)$$

Then

$$C^* = v \sqrt{\frac{-g C_p}{C_v \left(\frac{\partial V}{\partial P}\right)_T}} \quad (13A)$$

is the viscosity for helium in the ideal state and is computed from the empirical equation given in Reference 4.

$$\mu^{\circ} = 1.551E - 8 T^{0.68} \quad (14A)$$

The ideal state thermal conductivity is computed from⁹

$$k^{\circ} = 2.44 C_v^{\circ} \mu^{\circ} \quad (15A)$$

To approximate the pressure effects on viscosity and thermal conductivity Enskog type corrections⁵ are applied.

$$\mu = \mu^{\circ} \left[1.0 + 0.175 (B\rho x) + 0.7557 (B\rho x)^2 - 0.405 (B\rho x)^3 \right] \quad (16A)$$

$$k = k^{\circ} \left[1.0 + 0.575 (B\rho x) + 0.5017 (B\rho x)^2 - 0.204 (B\rho x)^3 \right] \quad (17A)$$

where

$$B\rho x = - \frac{V \left(\frac{\partial V}{\partial T} \right)_P}{R \left(\frac{\partial V}{\partial P} \right)_T} - 1. \quad (18A)$$

NOMENCLATURE

B_{px}	Enskog parameter
C^*	Sonic Velocity
C_p	Specific heat at constant pressure
C_v	Specific heat at constant volume
g	Acceleration due to gravity
H	Enthalpy
k	Thermal conductivity
P	Pressure
R	Gas constant
S	Entropy
T	Temperature
V	Specific volume
ρ	Density
μ	Viscosity

SUPERSCRIPTS

*	Arbitrary base
o	Ideal state

SUBSCRIPTS

c	Critical conditions
---	---------------------

TABLE 4

TABULATION OF PROPERTY VALUES OF HELIUM IN THE TEMPERATURE RANGE
FROM 36 TO 4500°R AND PRESSURE RANGE FROM 14.7 TO 2500 PSIA

ENTHALPY-H BTU/LB		SPECIFIC VOLUME-V CUIN/LB	VISCOACITY-MU LB/(IN-SEC) 10**7	SONIC VELOCITY-C* IN/SEC	CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7	SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP BTU/(LB-DEG R)			
PRESSURE PSIA		14.7	25.0	50.0	75.0	100.0	150.0	200.0	250.0	300.0	350.0
TEMP/ DEG R						* HELIUM *					
36.0	H	48.60	48.45	48.11	47.80	47.51	47.00	46.56	46.18	45.87	45.61
	V	11320.8	6645.9	3316.2	2209.0	1657.1	1108.3	836.4	675.2	569.0	494.3
	MU	1.7761	1.7780	1.7832	1.7893	1.7963	1.8132	1.8343	1.8600	1.8905	1.9259
	C*	10387.7	10414.2	10491.6	10583.2	10687.3	10929.6	11213.1	11534.1	11888.8	12273.8
	K	3.2347	3.2453	3.2730	3.3028	3.3348	3.4054	3.4850	3.5740	3.6727	3.7810
	GA	1.6839	1.6959	1.7246	1.7528	1.7805	1.8348	1.8873	1.9378	1.9862	2.0324
	CP	1.2456	1.2491	1.2574	1.2654	1.2729	1.2869	1.2997	1.3112	1.3216	1.3311
38.0	H	51.09	50.95	50.63	50.33	50.06	49.57	49.15	48.80	48.51	48.27
	V	11957.3	7022.3	3506.9	2337.8	1754.8	1174.6	887.0	716.1	603.5	524.0
	MU	1.8426	1.8445	1.8499	1.8561	1.8632	1.8800	1.9006	1.9254	1.9545	1.9878
	C*	10674.7	10703.0	10783.4	10876.5	10980.6	11218.6	11492.4	11798.3	12132.8	12492.7
	K	3.3559	3.3669	3.3952	3.4256	3.4579	3.5284	3.6068	3.6935	3.7886	3.8919
	GA	1.6826	1.6937	1.7200	1.7458	1.7711	1.8199	1.8666	1.9110	1.9530	1.9924
	CP	1.2455	1.2490	1.2573	1.2652	1.2727	1.2867	1.2993	1.3108	1.3212	1.3306
40.0	H	53.58	53.44	53.14	52.86	52.60	52.14	51.75	51.42	51.15	50.93
	V	12593.3	7398.4	3697.4	2466.2	1852.2	1240.8	937.3	756.9	637.8	553.7
	MU	1.9080	1.9100	1.9154	1.9217	1.9288	1.9454	1.9656	1.9895	2.0172	2.0487
	C*	10953.8	10983.5	11066.2	11160.4	11264.3	11498.0	11762.9	12055.4	12372.3	12710.7
	K	3.4750	3.4862	3.5151	3.5459	3.5783	3.6485	3.7258	3.8102	3.9019	4.0008
	GA	1.6814	1.6916	1.7159	1.7395	1.7625	1.8066	1.8483	1.8876	1.9242	1.9582
	CP	1.2455	1.2490	1.2571	1.2650	1.2724	1.2862	1.2988	1.3102	1.3206	1.3300
42.0	H	56.07	55.94	55.65	55.39	55.15	54.72	54.35	54.04	53.79	53.59
	V	13229.1	7774.1	3887.5	2594.4	1949.3	1306.6	987.4	797.5	671.9	583.1
	MU	1.9723	1.9744	1.9799	1.9862	1.9932	2.0097	2.0294	2.0525	2.0789	2.1088
	C*	11225.6	11256.4	11341.0	11435.8	11539.2	11768.8	12025.5	12306.0	12607.5	12927.2
	K	3.5921	3.6035	3.6328	3.6638	3.6963	3.7661	3.8421	3.9244	4.0130	4.1078
	GA	1.6803	1.6897	1.7121	1.7337	1.7546	1.7946	1.8320	1.8668	1.8990	1.9285
	CP	1.2454	1.2489	1.2569	1.2647	1.2720	1.2857	1.2982	1.3095	1.3198	1.3291
44.0	H	58.56	58.44	58.17	57.92	57.69	57.29	56.95	56.66	56.43	56.25
	V	13864.6	8149.5	4077.4	2722.3	2046.1	1372.3	1037.3	837.8	705.8	612.4
	MU	2.0357	2.0377	2.0433	2.0496	2.0566	2.0728	2.0921	2.1143	2.1397	2.1680
	C*	11490.7	11522.4	11608.3	11703.4	11806.1	12031.6	12280.8	12550.6	12838.5	13141.9
	K	3.7073	3.7189	3.7485	3.7796	3.8121	3.8813	3.9560	4.0363	4.1220	4.2131
	GA	1.6793	1.6880	1.7086	1.7284	1.7475	1.7838	1.8174	1.8485	1.8769	1.9027
	CP	1.2453	1.2487	1.2567	1.2643	1.2716	1.2851	1.2974	1.3086	1.3188	1.3281
46.0	H	61.05	60.94	60.68	60.45	60.23	59.86	59.54	59.28	59.07	58.90
	V	14499.8	8524.7	4267.0	2850.0	2142.8	1437.7	1087.0	878.0	739.6	641.5
	MU	2.0981	2.1002	2.1058	2.1121	2.1190	2.1350	2.1537	2.1752	2.1995	2.2264
	C*	11749.5	11781.9	11868.8	11963.9	12065.8	12287.3	12529.5	12789.6	13065.3	13354.4
	K	3.8209	3.8325	3.8623	3.8934	3.9258	3.9944	4.0678	4.1461	4.2291	4.3168
	GA	1.6784	1.6864	1.7053	1.7235	1.7410	1.7740	1.8043	1.8321	1.8573	1.8800
	CP	1.2452	1.2486	1.2564	1.2639	1.2711	1.2844	1.2966	1.3076	1.3177	1.3268
48.0	H	63.54	63.43	63.19	62.97	62.77	62.42	62.13	61.89	61.70	61.55
	V	15134.7	8899.6	4456.4	2977.4	2239.1	1502.9	1136.6	918.0	773.2	670.5
	MU	2.1597	2.1617	2.1673	2.1736	2.1805	2.1961	2.2144	2.2351	2.2584	2.2841
	C*	12002.5	12035.5	12123.0	12217.9	12318.9	12536.4	12772.1	13023.5	13288.3	13564.6
	K	3.9327	3.9445	3.9743	4.0054	4.0376	4.1054	4.1775	4.2539	4.3345	4.4191
	GA	1.6775	1.6849	1.7023	1.7190	1.7350	1.7650	1.7925	1.8174	1.8399	1.8599
	CP	1.2452	1.2484	1.2561	1.2635	1.2705	1.2836	1.2956	1.3065	1.3164	1.3255
50.0	H	66.03	65.93	65.71	65.50	65.32	64.99	64.72	64.50	64.33	64.20
	V	15769.3	9274.2	4645.5	3104.6	2335.3	1567.9	1185.9	957.8	806.7	699.4
	MU	2.2204	2.2225	2.2281	2.2343	2.2411	2.2564	2.2742	2.2942	2.3166	2.3412
	C*	12250.1	12283.4	12371.3	12465.9	12565.8	12779.6	13009.2	13252.5	13507.5	13772.5
	K	4.0431	4.0549	4.0847	4.1156	4.1477	4.2147	4.2855	4.3600	4.4383	4.5200
	GA	1.6767	1.6836	1.6996	1.7149	1.7296	1.7569	1.7818	1.8042	1.8243	1.8421
	CP	1.2451	1.2483	1.2558	1.2630	1.2699	1.2828	1.2946	1.3053	1.3151	1.3240
52.0	H	68.52	68.43	68.22	68.03	67.85	67.56	67.31	67.11	66.96	66.85
	V	16403.8	9648.7	4834.5	3231.6	2431.3	1632.8	1235.1	997.5	840.0	728.1
	MU	2.2803	2.2824	2.2880	2.2941	2.3008	2.3159	2.3332	2.3526	2.3741	2.3975
	C*	12492.6	12526.1	12614.1	12708.2	12807.1	13017.1	13241.1	13477.0	13723.2	13978.0
	K	4.1520	4.1638	4.1935	4.2243	4.2560	4.3222	4.3917	4.4645	4.5405	4.6196
	GA	1.6760	1.6823	1.6971	1.7112	1.7246	1.7496	1.7721	1.7923	1.8103	1.8262
	CP	1.2450	1.2481	1.2555	1.2626	1.2693	1.2819	1.2935	1.3040	1.3136	1.3224
54.0	H	71.01	70.92	70.73	70.55	70.39	70.12	69.90	69.72	69.59	69.49
	V	17038.0	10022.9	5023.2	3358.4	2527.1	1697.4	1284.1	1037.1	873.2	756.7
	MU	2.3395	2.3416	2.3471	2.3532	2.3598	2.3746	2.3914	2.4101	2.4308	2.4533
	C*	12730.3	12764.0	12851.9	12945.4	13043.2	13249.5	13468.2	13697.4	13935.4	14181.1
	K	4.2595	4.2713	4.3009	4.3314	4.3629	4.4281	4.4963	4.5675	4.6414	4.7180
	GA	1.6753	1.6811	1.6947	1.7077	1.7200	1.7428	1.7633	1.7816	1.7978	1.8119
	CP	1.2448	1.2479	1.2551	1.2620	1.2687	1.2801	1.2923	1.3026	1.3121	1.3207
56.0	H	73.50	73.42	73.24	73.08	72.93	72.68	72.48	72.32	72.21	72.13
	V	17672.0	10396.9	5211.7	3485.0	2622.7	1761.9	1332.9	1076.5	906.3	785.2
	MU	2.3980	2.4001	2.4056	2.4116	2.4181	2.4325	2.4489	2.4670	2.4869	2.5085
	C*	12963.5	12997.3	13085.0	13177.7	13274.3	13477.2	13690.9	13913.8	14144.5	14381.8
	K	4.3657	4.3774	4.4068	4.4372	4.4683	4.5326	4.5995	4.6691	4.7410	4.8153
	GA	1.6746	1.6800	1.6926	1.7045	1.7158	1.7367	1.7553	1.7719	1.7864	1.7991
	CP	1.2447	1.2477	1.2548	1.2615	1.2680	1.2801	1.2911	1.3012	1.3105	1.3189

ENTHALPY-H BTU/LB	SPECIFIC VOLUME-V CUIN/LB	VISCOSITY-MU LB/(IN-SEC) 10**7	SONIC VELOCITY-C* IN/SEC	CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7	SPECIFIC HEAT RATIO-GA	SPECIFIC HEAT-CP BTU/(LB-DEG R)				
TEMP/ DEG R	14.7	25.0	50.0	75.0	100.0 * HELIUM *	150.0	200.0	250.0	300.0	350.0
56.0 H	73.50	73.42	73.24	73.08	72.93	72.68	72.48	72.32	72.21	72.13
V	17672.0	10396.9	5211.7	3485.0	2622.7	1761.9	1332.9	1076.5	906.3	785.2
MU	2.3980	2.4001	2.4056	2.4116	2.4181	2.4325	2.4489	2.4670	2.4869	2.5085
C*	12963.5	12997.3	13085.0	13177.7	13274.3	13477.2	13690.9	13913.8	14144.5	14381.8
K	4.3657	4.3774	4.4068	4.4372	4.4683	4.5326	4.5995	4.6691	4.7410	4.8153
GA	1.6746	1.6800	1.6926	1.7045	1.7158	1.7367	1.7553	1.7719	1.7864	1.7991
CP	1.2447	1.2477	1.2548	1.2615	1.2680	1.2801	1.2911	1.3012	1.3105	1.3189
58.0 H	75.99	75.91	75.75	75.60	75.46	75.24	75.06	74.92	74.83	74.77
V	18305.8	10770.7	5400.0	3611.4	2718.1	1826.3	1381.6	1115.8	939.2	813.6
MU	2.4559	2.4579	2.4633	2.4692	2.4756	2.4898	2.5057	2.5233	2.5425	2.5632
C*	13192.4	13226.2	13313.5	13405.5	13500.9	13700.4	13909.4	14126.5	14350.5	14580.2
K	4.4707	4.4824	4.5115	4.5416	4.5723	4.6357	4.7014	4.7693	4.8394	4.9115
GA	1.6740	1.6790	1.6906	1.7016	1.7119	1.7310	1.7480	1.7630	1.7762	1.7876
CP	1.2446	1.2475	1.2544	1.2610	1.2673	1.2791	1.2899	1.2998	1.3088	1.3171
60.0 H	78.48	78.41	78.25	78.12	78.00	77.80	77.64	77.52	77.44	77.40
V	18939.4	11144.3	5588.1	3737.7	2813.4	1890.5	1430.2	1154.9	972.0	841.9
MU	2.5131	2.5151	2.5204	2.5263	2.5325	2.5464	2.5618	2.5789	2.5974	2.6173
C*	13417.4	13451.1	13537.9	13629.0	13723.3	13919.4	14124.0	14335.8	14553.5	14776.4
K	4.5745	4.5861	4.6150	4.6447	4.6751	4.7374	4.8019	4.8684	4.9367	5.0068
GA	1.6735	1.6781	1.6888	1.6989	1.7084	1.7259	1.7414	1.7550	1.7669	1.7772
CP	1.2445	1.2473	1.2540	1.2604	1.2666	1.2781	1.2886	1.2983	1.3071	1.3152
65.0 H	84.70	84.64	84.52	84.42	84.33	84.18	84.07	84.00	83.97	83.96
V	20522.7	12077.6	6057.8	4052.7	3050.9	2050.4	1551.2	1252.4	1053.7	912.2
MU	2.6534	2.6554	2.6606	2.6662	2.6722	2.6852	2.6997	2.7154	2.7324	2.7506
C*	13963.5	13996.8	14082.1	14170.9	14262.2	14450.5	14645.1	14845.0	15049.3	15257.2
K	4.8293	4.8405	4.8687	4.8975	4.9268	4.9868	5.0483	5.1112	5.1756	5.2411
GA	1.6723	1.6761	1.6848	1.6930	1.7007	1.7147	1.7271	1.7379	1.7472	1.7552
CP	1.2442	1.2469	1.2531	1.2590	1.2648	1.2755	1.2854	1.2945	1.3028	1.3104
70.0 H	90.92	90.88	90.79	90.71	90.65	90.55	90.49	90.47	90.47	90.50
V	22105.1	13010.1	6526.6	4366.8	3287.6	2209.5	1671.4	1349.1	1134.8	982.0
MU	2.7904	2.7923	2.7973	2.8026	2.8083	2.8206	2.8342	2.8488	2.8645	2.8812
C*	14488.5	14521.3	14604.8	14691.2	14779.5	14960.7	15146.6	15336.4	15529.4	15725.1
K	5.0777	5.0886	5.1159	5.1438	5.1720	5.2295	5.2882	5.3480	5.4088	5.4705
GA	1.6713	1.6744	1.6815	1.6882	1.6944	1.7058	1.7157	1.7243	1.7316	1.7379
CP	1.2439	1.2464	1.2521	1.2576	1.2630	1.2729	1.2821	1.2906	1.2984	1.3055
75.0 H	97.14	97.11	97.04	96.99	96.96	96.91	96.90	96.91	96.95	97.02
V	23686.7	13941.7	6994.7	4680.3	3523.7	2368.1	1791.1	1445.4	1215.3	1051.3
MU	2.9242	2.9261	2.9308	2.9359	2.9413	2.9530	2.9657	2.9793	2.9939	3.0092
C*	14994.9	15027.0	15108.5	15192.5	15278.0	15452.6	15630.8	15812.0	15995.5	16181.1
K	5.3204	5.3310	5.3573	5.3842	5.4114	5.4665	5.5226	5.5795	5.6371	5.6954
GA	1.6705	1.6730	1.6788	1.6843	1.6893	1.6985	1.7064	1.7133	1.7191	1.7240
CP	1.2436	1.2459	1.2512	1.2563	1.2612	1.2704	1.2789	1.2868	1.2940	1.3007
80.0 H	103.36	103.34	103.30	103.27	103.26	103.25	103.28	103.33	103.41	103.51
V	25267.5	14872.7	7462.1	4993.1	3759.1	2526.1	1910.2	1541.2	1295.5	1120.2
MU	3.0552	3.0570	3.0616	3.0664	3.0716	3.0826	3.0945	3.1073	3.1208	3.1351
C*	15484.6	15515.9	15595.3	15676.9	15759.8	15928.4	16099.9	16273.5	16449.0	16626.0
K	5.5580	5.5682	5.5936	5.6194	5.6456	5.6985	5.7521	5.8063	5.8611	5.9165
GA	1.6698	1.6719	1.6766	1.6811	1.6852	1.6925	1.6989	1.7044	1.7091	1.7130
CP	1.2434	1.2454	1.2503	1.2549	1.2594	1.2679	1.2758	1.2830	1.2898	1.2960
85.0 H	109.57	109.56	109.55	109.54	109.55	109.59	109.65	109.74	109.85	109.98
V	26847.9	15803.1	7928.9	5305.3	3994.1	2683.6	2028.9	1636.5	1375.2	1188.8
MU	3.1836	3.1853	3.1897	3.1943	3.1992	3.2097	3.2209	3.2329	3.2455	3.2588
C*	15959.0	15989.6	16066.9	16146.3	16226.7	16389.8	16555.2	16722.3	16890.8	17060.5
K	5.7908	5.8006	5.8251	5.8500	5.8751	5.9259	5.9772	6.0291	6.0813	6.1340
GA	1.6693	1.6710	1.6748	1.6784	1.6817	1.6877	1.6929	1.6973	1.7010	1.7041
CP	1.2431	1.2450	1.2494	1.2537	1.2578	1.2656	1.2728	1.2795	1.2857	1.2914
90.0 H	115.79	115.79	115.79	115.81	115.84	115.91	116.01	116.13	116.27	116.42
V	28427.7	16733.0	8395.3	5617.1	4228.5	2840.6	2147.2	1731.5	1454.6	1257.1
MU	3.3096	3.3112	3.3154	3.3199	3.3245	3.3344	3.3450	3.3563	3.3682	3.3806
C*	16419.7	16449.5	16524.8	16602.0	16680.1	16838.3	16998.3	17159.6	17322.0	17485.4
K	6.0193	6.0288	6.0523	6.0763	6.1004	6.1492	6.1984	6.2480	6.2984	6.3484
GA	1.6688	1.6702	1.6734	1.6763	1.6790	1.6838	1.6879	1.6915	1.6946	1.6969
CP	1.2428	1.2445	1.2486	1.2525	1.2562	1.2633	1.2699	1.2761	1.2818	1.2871
95.0 H	122.00	122.01	122.03	122.07	122.11	122.22	122.35	122.50	122.67	122.85
V	30007.0	17662.4	8861.2	5928.5	4462.6	2997.4	2265.2	1826.2	1535.8	1325.1
MU	3.4334	3.4350	3.4390	3.4432	3.4477	3.4571	3.4671	3.4777	3.4889	3.5007
C*	16867.7	16896.8	16970.2	17045.3	17121.3	17274.9	17430.0	17586.3	17743.4	17901.2
K	6.2438	6.2529	6.2756	6.2986	6.3218	6.3687	6.4160	6.4636	6.5116	6.5598
GA	1.6685	1.6696	1.6722	1.6745	1.6767	1.6806	1.6839	1.6868	1.6891	1.6911
CP	1.2426	1.2442	1.2478	1.2513	1.2547	1.2612	1.2672	1.2729	1.2781	1.2829
100.0 H	128.22	128.23	128.27	128.32	128.38	128.52	128.68	128.86	129.05	129.25
V	31586.0	18591.5	9326.9	6239.6	4696.4	3153.8	2382.9	1920.7	1612.7	1392.8
MU	3.5551	3.5566	3.5605	3.5645	3.5688	3.5777	3.5873	3.5973	3.6079	3.6190
C*	17304.1	17332.5	17404.1	17477.3	17551.3	17700.7	17851.5	18003.1	18155.5	18308.4
K	6.4645	6.4733	6.4951	6.5173	6.5397	6.5848	6.6303	6.6761	6.7222	6.7685
GA	1.6682	1.6691	1.6712	1.6731	1.6748	1.6780	1.6807	1.6829	1.6848	1.6864
CP	1.2424	1.2438	1.2471	1.2503	1.2534	1.2592	1.2647	1.2699	1.2746	1.2791

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ENTHALPY-H BTU/LB		SPECIFIC VOLUME-V CUIN/LB		VISCOSITY-MU LB/(IN-SEC) 10**7		SONIC VELOCITY-C* IN/SEC		CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP BTU/(LB-DEG R)									
PRESSURE PSIA		14.7		25.0		50.0		75.0		100.0		150.0		200.0		250.0		300.0		350.0	
TEMP/ DEG R										* HELIUM *											
200.0	H	252.33	252.40	252.57	252.76	252.94	253.32	253.71	254.11	254.50	254.90										
	V	63134.1	37142.0	18609.2	12431.2	9342.9	6255.1	4711.4	3785.2	3167.9	2727.0										
	MU	5.6539	5.6947	5.6570	5.6494	5.7018	5.7069	5.7122	5.7177	5.7233	5.7292										
	C*	24446.7	24467.2	24514.8	24571.4	24624.5	24731.5	24839.2	24947.2	25055.6	25164.2										
	K	10.3454	10.3508	10.3643	10.3780	10.3920	10.4201	10.4486	10.4774	10.5064	10.5358										
	GA	1.6669	1.6670	1.6671	1.6672	1.6672	1.6673	1.6673	1.6674	1.6674	1.6675										
	CP	1.2406	1.2407	1.2410	1.2413	1.2416	1.2422	1.2428	1.2434	1.2440	1.2446										
210.0	H	264.74	264.81	264.98	265.17	265.36	265.74	266.14	266.54	266.94	267.34										
	V	66277.8	38955.9	19535.3	13049.2	9806.5	6564.2	4943.2	3970.8	3322.5	2859.5										
	MU	5.8858	5.8867	5.8889	5.8913	5.8936	5.8986	5.9037	5.9090	5.9145	5.9202										
	C*	25049.2	25069.3	25119.7	25171.2	25223.1	25327.8	25433.1	25538.8	25644.7	25750.9										
	K	10.6540	10.6592	10.7124	10.7258	10.7394	10.7669	10.7947	10.8228	10.8511	10.8797										
	GA	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6673	1.6674	1.6674	1.6675										
	CP	1.2405	1.2406	1.2409	1.2411	1.2413	1.2418	1.2423	1.2428	1.2432	1.2437										
220.0	H	277.14	277.21	277.39	277.58	277.77	278.16	278.56	278.96	279.37	279.78										
	V	69441.4	40845.8	20462.3	13667.3	10270.1	6873.3	5175.1	4156.3	3477.1	2992.1										
	MU	6.0749	6.0780	6.0780	6.0826	6.0826	6.0874	6.0924	6.0975	6.1028	6.1083										
	C*	25637.6	25657.2	25706.6	25757.0	25807.8	25910.3	26013.3	26116.8	26220.5	26324.4										
	K	11.0373	11.0425	11.0553	11.0685	11.0818	11.1086	11.1358	11.1633	11.1910	11.2190										
	GA	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6673	1.6674	1.6674	1.6675										
	CP	1.2405	1.2406	1.2407	1.2409	1.2411	1.2415	1.2419	1.2422	1.2426	1.2429										
230.0	H	289.55	289.62	289.80	289.99	290.18	290.57	290.98	291.38	291.79	292.20										
	V	72595.0	42703.6	21389.3	14285.3	10733.6	7182.3	5406.9	4341.7	3631.7	3124.6										
	MU	6.2713	6.2621	6.2643	6.2665	6.2688	6.2735	6.2783	6.2834	6.2886	6.2939										
	C*	26212.7	26231.9	26280.3	26329.7	26379.5	26479.9	26580.8	26682.2	26783.8	26885.6										
	K	11.3757	11.3808	11.3944	11.4063	11.4193	11.4456	11.4723	11.4992	11.5263	11.5537										
	GA	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6673	1.6674	1.6674	1.6675										
	CP	1.2405	1.2405	1.2407	1.2408	1.2410	1.2412	1.2415	1.2418	1.2421	1.2424										
240.0	H	301.95	302.02	302.21	302.39	302.59	302.99	303.39	303.80	304.21	304.63										
	V	75748.6	44557.4	22316.2	14903.3	11197.1	7491.4	5638.7	4527.2	3786.3	3257.1										
	MU	6.4451	6.4459	6.4480	6.4502	6.4524	6.4570	6.4618	6.4667	6.4718	6.4770										
	C*	26775.5	26794.3	26841.8	26890.2	26939.0	27037.4	27136.4	27235.7	27335.3	27435.2										
	K	11.7094	11.7144	11.7268	11.7394	11.7522	11.7781	11.8042	11.8307	11.8573	11.8842										
	GA	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6673	1.6674	1.6674	1.6675										
	CP	1.2404	1.2405	1.2406	1.2407	1.2408	1.2410	1.2413	1.2415	1.2417	1.2419										
250.0	H	314.36	314.43	314.61	314.80	315.00	315.40	315.80	316.21	316.63	317.04										
	V	78902.1	46411.3	23243.1	15521.3	11660.6	7800.4	5870.5	4712.6	3940.8	3389.5										
	MU	6.6264	6.6272	6.6293	6.6315	6.6337	6.6382	6.6428	6.6477	6.6526	6.6577										
	C*	27326.7	27345.2	27391.7	27439.2	27487.1	27583.6	27680.7	27778.2	27875.9	27973.8										
	K	12.0388	12.0436	12.0558	12.0683	12.0808	12.1063	12.1320	12.1579	12.1841	12.2105										
	GA	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6674	1.6674	1.6675	1.6675										
	CP	1.2404	1.2405	1.2406	1.2406	1.2407	1.2409	1.2411	1.2412	1.2414	1.2416										
260.0	H	326.76	326.83	327.02	327.21	327.40	327.80	328.21	328.62	329.04	329.46										
	V	82055.7	48265.1	24170.1	16139.2	12124.1	8107.4	6102.2	4898.0	4095.3	3522.0										
	MU	6.8055	6.8063	6.8083	6.8104	6.8126	6.8170	6.8216	6.8263	6.8312	6.8362										
	C*	27866.9	27885.1	27930.8	27977.4	28024.4	28119.2	28214.5	28310.2	28406.1	28502.2										
	K	12.3639	12.3687	12.3807	12.3929	12.4053	12.4303	12.4557	12.4812	12.5070	12.5329										
	GA	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6674	1.6674	1.6675	1.6675										
	CP	1.2404	1.2404	1.2405	1.2406	1.2406	1.2408	1.2409	1.2410	1.2412	1.2413										
270.0	H	339.16	339.24	339.42	339.61	339.81	340.21	340.62	341.03	341.45	341.87										
	V	85209.2	50118.8	25057.0	16757.2	12587.6	8418.4	6334.0	5083.4	4249.8	3654.4										
	MU	6.9924	6.9832	6.9852	6.9872	6.9894	6.9937	6.9982	7.0029	7.0076	7.0125										
	C*	28396.9	28414.8	28459.7	28505.5	28551.6	28644.7	28738.3	28832.3	28926.5	29020.9										
	K	12.6851	12.6898	12.7016	12.7137	12.7259	12.7506	12.7755	12.8006	12.8260	12.8516										
	GA	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6674	1.6674	1.6675	1.6675										
	CP	1.2404	1.2404	1.2405	1.2405	1.2406	1.2407	1.2408	1.2409	1.2410	1.2411										
280.0	H	351.57	351.64	351.82	352.02	352.22	352.62	353.03	353.44	353.86	354.28										
	V	88362.7	51572.6	26023.5	17375.1	13051.0	8727.3	6565.7	5268.8	4404.3	3786.9										
	MU	7.1571	7.1579	7.1595	7.1620	7.1641	7.1683	7.1728	7.1773	7.1820	7.1868										
	C*	28917.2	28934.8	28978.9	29023.9	29069.3	29160.7	29252.7	29345.0	29437.6	29530.3										
	K	13.0024	13.0071	13.0188	13.0307	13.0427	13.0671	13.0916	13.1164	13.1414	13.1666										
	GA	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6674	1.6674	1.6675	1.6675										

ENTHALPY-H BTU/LB	SPECIFIC VOLUME-V CUIN/LB	VISCOSITY- μ LB/(IN-SEC) 10**7	SONIC VELOCITY-C* IN/SEC	CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7		SPECIFIC HEAT-RATIO-GA	SPECIFIC HEAT-CP BTU/(LB-DEG R)	300.0	350.0	
PRESSURE PSIA	14.7	25.0	50.0	75.0	100.0 * HELIUM *	150.0	200.0	250.0	300.0	350.0
TEMP/ DEG R										
300.0 H	376.38	376.45	376.63	376.83	377.02	377.43	377.84	378.26	378.67	379.10
V	94669.8	55680.2	27877.7	18611.0	13977.9	9345.3	7029.2	5639.6	4713.3	4051.7
MU	7.5009	7.5016	7.5036	7.5056	7.5076	7.5118	7.5160	7.5205	7.5250	7.5296
C*	29930.6	29947.6	29990.3	30033.8	30077.7	30166.2	30255.1	30344.4	30433.9	30523.6
K	13.6265	13.6311	13.6425	13.6541	13.6659	13.6896	13.7135	13.7377	13.7621	13.7866
GA	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6674	1.6674	1.6675	1.6675
CP	1.2404	1.2404	1.2404	1.2404	1.2405	1.2405	1.2406	1.2406	1.2407	1.2407
310.0 H	388.78	388.85	389.04	389.23	389.43	389.83	390.24	390.66	391.08	391.50
V	97823.3	57533.9	28804.5	19228.9	14441.4	9654.3	7260.9	5825.0	4867.8	4184.1
MU	7.6699	7.6707	7.6726	7.6746	7.6766	7.6807	7.6849	7.6893	7.6937	7.6983
C*	30424.7	30441.4	30483.4	30526.2	30569.4	30656.5	30744.0	30831.9	30920.0	31008.3
K	13.9336	13.9381	13.9494	13.9608	13.9725	13.9959	14.0196	14.0435	14.0675	14.0917
GA	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6674	1.6674	1.6675	1.6675
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2405	1.2405	1.2406	1.2406	1.2406
320.0 H	401.18	401.26	401.44	401.64	401.83	402.24	402.65	403.07	403.49	403.91
V	100976.8	59387.7	29731.4	19846.8	14904.8	9963.2	7492.6	6010.4	5022.3	4316.6
MU	7.8373	7.8381	7.8399	7.8419	7.8439	7.8479	7.8521	7.8564	7.8608	7.8653
C*	30910.8	30927.3	30968.6	31010.8	31053.3	31139.1	31225.3	31311.8	31398.5	31485.5
K	14.2375	14.2419	14.2531	14.2645	14.2759	14.2991	14.3225	14.3461	14.3699	14.3938
GA	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6674	1.6674	1.6675	1.6675
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2405	1.2405	1.2405	1.2405	1.2406
330.0 H	413.59	413.66	413.85	414.04	414.24	414.64	415.05	415.47	415.89	416.31
V	104130.3	61241.5	30658.3	20464.7	15368.3	10272.2	7724.4	6195.8	5176.8	4449.0
MU	8.0030	8.0037	8.0056	8.0075	8.0095	8.0135	8.0176	8.0219	8.0262	8.0306
C*	31389.5	31405.7	31446.4	31487.9	31529.8	31614.3	31699.2	31784.4	31869.8	31955.5
K	14.5384	14.5428	14.5538	14.5650	14.5764	14.5994	14.6225	14.6455	14.6694	14.6938
GA	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6674	1.6674	1.6675	1.6675
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2405	1.2405	1.2405	1.2405
340.0 H	425.99	426.06	426.25	426.44	426.64	427.05	427.46	427.88	428.30	428.72
V	107283.9	63095.2	31585.2	21082.7	15831.7	10581.2	7956.1	6381.2	5331.3	4581.4
MU	8.1671	8.1678	8.1697	8.1716	8.1735	8.1775	8.1816	8.1857	8.1900	8.1944
C*	31860.9	31876.9	31917.0	31957.9	31999.2	32082.4	32166.1	32250.1	32334.3	32418.6
K	14.8363	14.8407	14.8516	14.8628	14.8740	14.8967	14.9196	14.9427	14.9660	14.9894
GA	1.6669	1.6670	1.6670	1.6671	1.6672	1.6673	1.6673	1.6674	1.6675	1.6675
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2405	1.2405	1.2405
350.0 H	438.40	438.47	438.65	438.85	439.05	439.45	439.86	440.28	440.70	441.12
V	110437.4	64949.0	32512.1	21700.6	16295.2	10890.1	8187.8	6566.5	5485.7	4713.8
MU	8.3296	8.3304	8.3322	8.3341	8.3360	8.3399	8.3440	8.3481	8.3523	8.3566
C*	32325.5	32341.2	32380.8	32421.1	32461.8	32543.8	32626.3	32709.1	32792.1	32875.3
K	15.1315	15.1358	15.1467	15.1577	15.1688	15.1913	15.2140	15.2369	15.2599	15.2830
GA	1.6669	1.6670	1.6670	1.6671	1.6672	1.6673	1.6673	1.6674	1.6675	1.6675
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2405
360.0 H	450.80	450.87	451.06	451.25	451.45	451.85	452.27	452.68	453.11	453.53
V	113590.9	66802.8	33439.0	22318.5	16758.6	11199.1	8419.5	6751.9	5640.2	4846.2
MU	8.4907	8.4914	8.4933	8.4951	8.4970	8.5009	8.5049	8.5090	8.5131	8.5174
C*	32783.4	32799.0	32838.0	32877.8	32917.9	32998.8	33080.1	33161.8	33243.6	33325.6
K	15.4240	15.4283	15.4390	15.4499	15.4610	15.4832	15.5057	15.5284	15.5512	15.5741
GA	1.6669	1.6670	1.6670	1.6671	1.6672	1.6673	1.6673	1.6674	1.6674	1.6675
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
370.0 H	463.20	463.28	463.46	463.66	463.85	464.26	464.67	465.09	465.51	465.93
V	116744.4	68656.5	34365.8	22936.4	17222.1	11508.0	8651.3	6937.3	5794.7	4978.6
MU	8.6504	8.6511	8.6529	8.6547	8.6566	8.6605	8.6644	8.6684	8.6725	8.6767
C*	33235.1	33250.4	33288.9	33328.2	33367.8	33447.5	33527.8	33608.3	33689.1	33770.0
K	15.7139	15.7182	15.7288	15.7396	15.7506	15.7726	15.7949	15.8173	15.8399	15.8626
GA	1.6669	1.6670	1.6670	1.6671	1.6672	1.6673	1.6673	1.6674	1.6674	1.6675
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
380.0 H	475.61	475.68	475.87	476.06	476.26	476.66	477.08	477.49	477.91	478.34
V	119857.9	70510.3	35292.7	23554.4	17685.5	11817.0	8883.0	7122.7	5949.2	5111.0
MU	8.8086	8.8093	8.8111	8.8130	8.8148	8.8186	8.8225	8.8265	8.8306	8.8347
C*	33680.7	33695.8	33733.8	33772.5	33811.6	33890.4	33969.5	34049.0	34128.7	34208.5
K	16.0014	16.0056	16.0161	16.0268	16.0377	16.0595	16.0816	16.1038	16.1262	16.1487
GA	1.6669	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6674	1.6674	1.6675
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
390.0 H	488.01	488.08	488.27	488.46	488.66	489.07	489.48	489.90	490.32	490.74
V	123051.4	72364.0	36219.6	24172.3	18148.9	12126.0	9114.7	7308.0	6103.7	5243.5
MU	8.9656	8.9663	8.9681	8.9699	8.9717	8.9755	8.9794	8.9833	8.9873	8.9914
C*	34120.5	34135.4	34172.9	34211.2	34249.7	34327.5	34405.6	34484.1	34562.7	34641.5
K	16.2864	16.2905	16.3010	16.3116	16.3224	16.3440	16.3659	16.3879	16.4101	16.4324
GA	1.6669	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6674	1.6674	1.6675
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
400.0 H	500.41	500.49	500.67	500.87	501.06	501.47	501.88	502.30	502.72	503.15
V	126204.9	74217.8	37146.5	24790.2	18612.4	12434.9	9346.4	7493.4	6258.2	5375.9
MU	9.1213	9.1220	9.1237	9.1255	9.1273	9.1311	9.1349	9.1388	9.1428	9.1468
C*	34554.7	34569.4	34606.5	34644.2	34682.3	34759.1	34836.2	34913.7	34991.4	35069.2
K	16.5690	16.5732	16.5835	16.5941	16.6047	16.6262	16.6479	16.6698	16.6917	16.7138
GA	1.6669	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6673	1.6674	1.6674
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404

ENTHALPY-H BTU/LB	SPECIFIC VOLUME-V CUIN/LB	VISCOSITY-MU LB/(IN-SEC) 10**7	SONIC VELOCITY-C* IN/SEC	CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7	SPECIFIC HEAT RATIO-GA	SPECIFIC HEAT-CP BTU/(LB-DEG R)				
14.7	25.0	50.0	75.0	100.0	150.0	200.0	250.0	300.0	350.0	
TEMP/ DEG R				* HELIUM *						
400.0 H	500.41	500.49	500.67	500.87	501.06	501.47	501.88	502.30	502.72	503.15
V	126204.9	74217.8	37146.5	24790.2	18612.4	12434.9	9346.4	7493.4	6258.2	5375.9
MU	9.1213	9.1220	9.1237	9.1255	9.1273	9.1311	9.1349	9.1388	9.1428	9.1468
C*	34554.7	34569.4	34606.5	34644.2	34682.3	34759.1	34836.2	34913.7	34991.4	35069.2
K	16.5690	16.5732	16.5835	16.5941	16.6047	16.6262	16.6479	16.6698	16.6917	16.7138
GA	1.6669	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6673	1.6674	1.6674
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
410.0 H	512.82	512.89	513.08	513.27	513.47	513.87	514.29	514.70	515.13	515.55
V	129355.4	76071.6	38073.4	25408.1	19075.8	12743.9	9578.1	7678.8	6412.6	5508.3
MU	9.2757	9.2764	9.2781	9.2799	9.2817	9.2854	9.2892	9.2931	9.2970	9.3010
C*	34983.5	34998.1	35034.6	35071.9	35109.6	35185.4	35261.6	35338.1	35414.9	35491.7
K	16.8495	16.8536	16.8638	16.8743	16.8849	16.9062	16.9277	16.9494	16.9711	16.9930
GA	1.6669	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6673	1.6674	1.6674
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
420.0 H	525.22	525.29	525.48	525.67	525.87	526.28	526.69	527.11	527.53	527.95
V	132512.0	77925.3	39000.2	26026.0	19539.3	13052.8	9809.9	7864.2	6567.1	5640.7
MU	9.4289	9.4296	9.4313	9.4331	9.4349	9.4386	9.4423	9.4461	9.4500	9.4540
C*	35407.1	35421.5	35457.6	35494.5	35531.7	35606.6	35681.9	35757.5	35833.3	35909.3
K	17.1277	17.1318	17.1420	17.1524	17.1629	17.1840	17.2053	17.2268	17.2484	17.2701
GA	1.6669	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6673	1.6674	1.6674
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
430.0 H	537.62	537.70	537.88	538.08	538.28	538.68	539.09	539.51	539.93	540.36
V	135665.5	79779.1	39927.1	26444.0	20002.7	13361.8	10041.6	8049.6	6721.6	5773.1
MU	9.5810	9.5816	9.5834	9.5851	9.5869	9.5905	9.5943	9.5980	9.6019	9.6058
C*	35825.7	35839.9	35875.6	35912.1	35948.8	36022.8	36097.3	36172.0	36246.9	36322.0
K	17.4039	17.4079	17.4190	17.4283	17.4387	17.4597	17.4809	17.5022	17.5236	17.5451
GA	1.6669	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6673	1.6674	1.6674
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
440.0 H	550.03	550.10	550.29	550.48	550.68	551.09	551.50	551.92	552.34	552.76
V	138819.0	81632.8	40854.0	27261.9	20466.1	13670.8	10273.3	8234.9	6876.1	5905.5
MU	9.7319	9.7326	9.7343	9.7360	9.7378	9.7414	9.7451	9.7488	9.7527	9.7566
C*	36239.5	36253.5	36288.8	36324.8	36361.2	36434.3	36508.0	36581.8	36655.9	36730.1
K	17.6780	17.6820	17.6920	17.7022	17.7126	17.7334	17.7544	17.7755	17.7968	17.8182
GA	1.6669	1.6669	1.6670	1.6671	1.6671	1.6672	1.6673	1.6673	1.6674	1.6674
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
450.0 H	562.43	562.51	562.69	562.89	563.08	563.49	563.90	564.32	564.74	565.16
V	141972.5	83486.6	41780.9	27879.8	20929.6	13979.7	10505.0	8420.3	7030.6	6037.9
MU	9.8817	9.8824	9.8841	9.8858	9.8876	9.8912	9.8948	9.8985	9.9023	9.9062
C*	36648.6	36662.5	36697.4	36733.0	36768.9	36841.3	36914.1	36987.1	37060.3	37133.7
K	17.9501	17.9540	17.9640	17.9742	17.9844	18.0051	18.0259	18.0469	18.0680	18.0892
GA	1.6669	1.6669	1.6670	1.6671	1.6671	1.6672	1.6672	1.6673	1.6673	1.6674
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
460.0 H	574.84	574.91	575.10	575.29	575.49	575.89	576.31	576.72	577.14	577.57
V	145126.0	85340.4	42707.8	28497.7	21393.0	14288.7	10736.7	8605.7	7185.0	6170.3
MU	10.0305	10.0312	10.0329	10.0346	10.0363	10.0399	10.0435	10.0472	10.0509	10.0548
C*	37053.2	37066.9	37101.4	37136.6	37172.2	37243.7	37315.7	37388.0	37460.4	37533.0
K	18.2202	18.2242	18.2341	18.2442	18.2543	18.2749	18.2956	18.3164	18.3373	18.3584
GA	1.6669	1.6669	1.6670	1.6671	1.6671	1.6672	1.6672	1.6673	1.6673	1.6674
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
470.0 H	587.24	587.31	587.50	587.69	587.89	588.30	588.71	589.13	589.55	589.97
V	148279.5	87194.1	43634.6	29115.6	21856.5	14597.6	10968.5	8791.1	7339.5	6302.7
MU	10.1783	10.1789	10.1806	10.1823	10.1840	10.1876	10.1911	10.1948	10.1985	10.2023
C*	37453.4	37467.0	37501.1	37536.0	37571.1	37641.9	37713.1	37784.6	37856.3	37928.1
K	18.4885	18.4925	18.5023	18.5123	18.5224	18.5428	18.5633	18.5840	18.6048	18.6257
GA	1.6669	1.6669	1.6670	1.6671	1.6671	1.6672	1.6672	1.6673	1.6673	1.6674
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
480.0 H	599.64	599.72	599.90	600.10	600.29	600.70	601.11	601.53	601.95	602.38
V	151433.0	89047.9	44561.5	29733.6	22319.9	14906.6	11200.2	8976.4	7494.0	6435.2
MU	10.3250	10.3257	10.3273	10.3290	10.3307	10.3342	10.3378	10.3414	10.3451	10.3489
C*	37849.3	37862.8	37896.6	37931.1	37965.8	38035.9	38106.4	38177.1	38248.0	38319.1
K	18.7550	18.7589	18.7687	18.7786	18.7887	18.8089	18.8293	18.8498	18.8705	18.8912
GA	1.6669	1.6669	1.6670	1.6671	1.6671	1.6672	1.6672	1.6673	1.6673	1.6674
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
490.0 H	612.05	612.12	612.31	612.50	612.70	613.10	613.52	613.93	614.36	614.78
V	154586.5	90901.6	45488.4	30351.5	22783.3	15215.6	11431.9	9161.8	7648.5	6567.6
MU	10.4708	10.4714	10.4731	10.4748	10.4765	10.4799	10.4835	10.4871	10.4907	10.4945
C*	38241.2	38254.5	38288.0	38322.1	38356.5	38425.9	38495.6	38565.6	38635.8	38706.1
K	19.0197	19.0236	19.0333	19.0432	19.0532	19.0733	19.0935	19.1139	19.1344	19.1550
GA	1.6669	1.6669	1.6670	1.6671	1.6671	1.6672	1.6672	1.6673	1.6673	1.6674
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
500.0 H	624.45	624.52	624.71	624.90	625.10	625.51	625.92	626.34	626.76	627.18
V	157740.0	92755.4	46415.3	30969.4	23246.8	15524.5	11663.6	9347.2	7803.0	6700.0
MU	10.6156	10.6163	10.6179	10.6196	10.6212	10.6247	10.6282	10.6318	10.6354	10.6391
C*	38629.1	38642.3	38675.4	38709.2	38743.3	38811.9	38881.0	38950.3	39019.8	39089.4
K	19.2927	19.2866	19.2962	19.3060	19.3159	19.3359	19.3560	19.3763	19.3966	19.4171
GA	1.6669	1.6669	1.6670	1.6671	1.6671	1.6672	1.6672	1.6673	1.6673	1.6674
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404

ENTHALPY-H		SPECIFIC VOLUME-V		VISCOSITY-MU		SONIC VELOCITY-C*		CONDUCTIVITY-K		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP	
BTU/LB		CUIN/LB		LB/(IN-SEC)		IN/SEC		BTU/(SEC-IN-DEG R)				BTU/(LB-DEG R)	
				10**7				10**7					
PRESSURE PSIA		14.7	25.0	50.0	75.0	100.0	150.0	200.0	250.0	300.0	350.0		
TEMP/ DEG R						* HELIUM *							
500.0	H	624.45	624.52	624.71	624.90	625.10	625.51	625.92	626.34	626.76	627.18		
	V	157740.0	92755.4	46415.3	30969.4	23246.8	15524.5	11663.6	9347.2	7803.0	6700.0		
	MU	10.6156	10.6163	10.6179	10.6196	10.6212	10.6247	10.6282	10.6318	10.6354	10.6391		
	C*	38629.1	38642.3	38675.4	38709.2	38743.3	38811.9	38880.1	38950.3	39019.8	39089.4		
	K	19.2827	19.2866	19.2962	19.3060	19.3159	19.3359	19.3560	19.3763	19.3966	19.4171		
	GA	1.6669	1.6669	1.6670	1.6670	1.6671	1.6672	1.6673	1.6673	1.6673	1.6673		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
510.0	H	636.85	636.93	637.11	637.31	637.51	637.91	638.32	638.74	639.16	639.59		
	V	160893.6	94609.2	47342.2	31587.3	23710.2	15833.5	11895.3	9532.6	7957.4	6832.4		
	MU	10.7595	10.7602	10.7618	10.7634	10.7651	10.7685	10.7720	10.7756	10.7792	10.7828		
	C*	39013.2	39026.2	39059.0	39092.5	39126.2	39194.2	39262.5	39331.2	39400.0	39468.9		
	K	19.5441	19.5479	19.5574	19.5672	19.5770	19.5969	19.6169	19.6370	19.6572	19.6775		
	GA	1.6669	1.6669	1.6670	1.6670	1.6671	1.6671	1.6672	1.6672	1.6673	1.6673		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
520.0	H	649.26	649.33	649.52	649.71	649.91	650.32	650.73	651.15	651.57	651.99		
	V	164047.1	96462.9	48265.0	32205.2	24173.7	16142.4	12127.1	9717.9	8111.9	6964.8		
	MU	10.9025	10.9031	10.9048	10.9064	10.9081	10.9115	10.9149	10.9185	10.9220	10.9257		
	C*	39393.5	39406.4	39438.9	39472.0	39505.4	39572.7	39640.4	39708.4	39776.5	39844.8		
	K	19.8037	19.8075	19.8170	19.8267	19.8365	19.8562	19.8761	19.8961	19.9162	19.9364		
	GA	1.6669	1.6669	1.6670	1.6670	1.6671	1.6671	1.6672	1.6672	1.6673	1.6673		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
530.0	H	661.66	661.73	661.92	662.11	662.31	662.72	663.13	663.55	663.97	664.39		
	V	167200.6	98316.7	49195.9	32823.2	24637.1	16451.4	12358.8	9903.3	8266.4	7097.2		
	MU	11.0446	11.0453	11.0469	11.0485	11.0502	11.0535	11.0570	11.0605	11.0640	11.0676		
	C*	39770.1	39782.9	39815.1	39847.9	39881.0	39947.7	40014.8	40082.1	40149.5	40217.2		
	K	20.0618	20.0656	20.0751	20.0847	20.0944	20.1140	20.1337	20.1536	20.1736	20.1936		
	GA	1.6669	1.6669	1.6670	1.6670	1.6671	1.6671	1.6672	1.6672	1.6673	1.6673		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
540.0	H	674.07	674.14	674.32	674.52	674.72	675.12	675.54	675.95	676.37	676.80		
	V	170354.1	100170.4	50122.8	33441.1	25100.5	16760.4	12590.5	10088.7	8420.9	7229.6		
	MU	11.1859	11.1865	11.1881	11.1897	11.1914	11.1947	11.1982	11.2016	11.2052	11.2087		
	C*	40143.3	40155.9	40187.8	40220.3	40253.1	40319.2	40385.6	40452.3	40519.1	40586.1		
	K	20.3184	20.3221	20.3315	20.3411	20.3507	20.3702	20.3898	20.4096	20.4294	20.4493		
	GA	1.6669	1.6669	1.6670	1.6670	1.6671	1.6671	1.6672	1.6672	1.6673	1.6673		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
550.0	H	686.47	686.54	686.73	686.92	687.12	687.53	687.94	688.36	688.78	689.20		
	V	173507.6	102024.2	51049.7	34059.0	25564.0	17069.3	12822.2	10274.1	8575.4	7362.0		
	MU	11.3263	11.3270	11.3285	11.3301	11.3318	11.3351	11.3385	11.3420	11.3455	11.3490		
	C*	40513.0	40525.5	40557.1	40589.3	40621.8	40687.3	40753.1	40819.2	40885.4	40951.8		
	K	20.5734	20.5771	20.5865	20.5960	20.6056	20.6249	20.6444	20.6641	20.6838	20.7036		
	GA	1.6669	1.6669	1.6670	1.6670	1.6671	1.6671	1.6672	1.6672	1.6673	1.6673		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
560.0	H	698.87	698.95	699.13	699.33	699.52	699.93	700.34	700.76	701.18	701.61		
	V	176661.1	103878.0	51976.6	34676.9	26027.4	17378.3	13053.9	10459.4	8729.8	7494.5		
	MU	11.4659	11.4666	11.4681	11.4697	11.4714	11.4747	11.4780	11.4815	11.4849	11.4885		
	C*	40879.3	40891.8	40923.1	40955.0	40987.2	41052.0	41117.3	41182.8	41248.4	41314.2		
	K	20.8269	20.8306	20.8399	20.8494	20.8589	20.8782	20.8976	20.9171	20.9367	20.9563		
	GA	1.6669	1.6669	1.6670	1.6670	1.6671	1.6671	1.6672	1.6672	1.6673	1.6673		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
570.0	H	711.28	711.35	711.54	711.73	711.93	712.33	712.75	713.16	713.59	714.01		
	V	179814.6	105731.7	52903.4	35294.8	26490.9	17687.2	13285.7	10644.8	8884.3	7626.9		
	MU	11.6048	11.6054	11.6069	11.6085	11.6102	11.6134	11.6168	11.6202	11.6236	11.6271		
	C*	41242.4	41254.7	41285.8	41317.4	41349.3	41413.6	41478.3	41543.2	41608.3	41673.5		
	K	21.0790	21.0827	21.0919	21.1013	21.1108	21.1300	21.1492	21.1686	21.1881	21.2077		
	GA	1.6669	1.6669	1.6670	1.6670	1.6671	1.6671	1.6672	1.6672	1.6673	1.6673		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
580.0	H	723.68	723.75	723.94	724.13	724.33	724.74	725.15	725.57	725.99	726.41		
	V	182968.1	107585.5	53830.3	35912.8	26954.3	17996.2	13517.4	10830.2	9038.8	7759.3		
	MU	11.7428	11.7434	11.7450	11.7466	11.7482	11.7514	11.7548	11.7581	11.7616	11.7650		
	C*	41602.3	41614.6	41645.3	41676.7	41708.3	41772.1	41836.2	41900.5	41965.0	42029.6		
	K	21.3297	21.3334	21.3426	21.3519	21.3613	21.3804	21.3995	21.4188	21.4382	21.4576		
	GA	1.6669	1.6669	1.6670	1.6670	1.6671	1.6671	1.6672	1.6672	1.6673	1.6673		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
590.0	H	736.08	736.16	736.34	736.54	736.74	737.14	737.55	737.97	738.39	738.82		
	V	186121.6	109439.2	54757.2	36530.7	27417.7	18305.2	13747.5	11015.6	9347.8	7891.7		
	MU	11.8801	11.8807	11.8822	11.8838	11.8854	11.8887	11.8920	11.8953	11.8987	11.9022		
	C*	41959.2	41971.3	42001.8	42032.9	42064.3	42127.5	42191.0	42254.8	42318.8	42382.9		
	K	21.5790	21.5827	21.5918	21.6011	21.6105	21.6294	21.6485	21.6676	21.6869	21.7062		
	GA	1.6669	1.6669	1.6670	1.6670	1.6671	1.6671	1.6672	1.6672	1.6673	1.6673		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
600.0	H	748.49	748.56	748.75	748.94	749.14	749.54	749.96	750.38	750.80	751.22		
	V	189275.2	112293.0	55684.1	37148.6	27881.2	18614.1	13980.8	11200.9	9347.8	8024.1		
	MU	12.0166	12.0172	12.0188	12.0203	12.0219	12.0252	12.0284	12.0318	12.0352	12.0386		
	C*	42313.0	42325.0	42355.3	42386.1	42417.2	42479.9	42542.9	42606.2	42669.6	42733.1		
	K	21.8270	21.8306	21.8397	21.8489	21.8583	21.8771	21.8960	21.9151	21.9342	21.9535		
	GA	1.6669	1.6669	1.6670	1.6670	1.6671	1.6671	1.6671	1.6672	1.6672	1.6673		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404

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ENTHALPY-H		SPECIFIC VOLUME-V		VISCOSITY-MU		SONIC VELOCITY-C*		CONDUCTIVITY-K		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP	
BTU/LB		CUIN/LB		LB/(IN-SEC)		IN/SEC		BTU/(SEC-IN-DEG R)				BTU/(LB-DEG R)	
				10**7				10**7					
PRESSURE PSIA		14.7	25.0	50.0	75.0	100.0	150.0	200.0	250.0	300.0	350.0		
TEMP/ DEG R													
		* HELIUM *											
800.0	H	996.56	996.63	996.82	997.01	997.21	997.62	998.03	998.45	998.87	999.29		
	V	252345.4	148368.2	74221.7	49507.0	37150.0	24793.3	18615.2	14908.5	12437.4	10672.3		
	MU	14.6128	14.6134	14.6148	14.6162	14.6176	14.6206	14.6235	14.6265	14.6296	14.6326		
	C*	48856.1	48866.2	48891.8	48918.1	48944.6	48998.3	49052.4	49106.7	49161.2	49215.9		
	K	26.5417	26.5450	26.5533	26.5617	26.5702	26.5874	26.6046	26.6219	26.6393	26.6568		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
820.0	H	1021.37	1021.44	1021.63	1021.82	1022.02	1022.43	1022.84	1023.26	1023.68	1024.10		
	V	258652.4	152075.7	76075.4	50742.8	38076.9	25411.2	19078.7	15279.2	12746.3	10937.1		
	MU	14.8602	14.8608	14.8622	14.8636	14.8650	14.8679	14.8709	14.8738	14.8768	14.8799		
	C*	49462.7	49472.7	49498.0	49523.9	49550.2	49603.2	49656.6	49710.2	49764.1	49818.1		
	K	26.9910	26.9943	27.0025	27.0109	27.0193	27.0363	27.0534	27.0706	27.0879	27.1052		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
840.0	H	1046.18	1046.25	1046.44	1046.63	1046.83	1047.23	1047.65	1048.06	1048.49	1048.91		
	V	264959.4	155783.2	77929.2	51978.7	39003.7	26029.2	19542.1	15650.0	13055.3	11202.0		
	MU	15.1057	15.1063	15.1076	15.1091	15.1105	15.1133	15.1163	15.1192	15.1222	15.1252		
	C*	50062.0	50071.9	50096.9	50122.5	50148.4	50200.7	50253.5	50306.5	50359.7	50413.1		
	K	27.4369	27.4401	27.4483	27.4566	27.4649	27.4818	27.4988	27.5158	27.5330	27.5501		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
860.0	H	1070.98	1071.06	1071.24	1071.44	1071.64	1072.04	1072.45	1072.87	1073.29	1073.72		
	V	271266.4	159490.8	79783.0	53214.5	39930.6	26647.1	20005.5	16020.7	13364.2	11466.8		
	MU	15.3494	15.3499	15.3513	15.3527	15.3541	15.3569	15.3598	15.3627	15.3657	15.3687		
	C*	50654.1	50663.9	50688.6	50713.9	50739.5	50791.3	50843.4	50895.8	50948.4	51001.1		
	K	27.8793	27.8825	27.8908	27.8989	27.9072	27.9239	27.9407	27.9577	27.9747	27.9917		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
880.0	H	1095.79	1095.86	1096.05	1096.24	1096.44	1096.85	1097.26	1097.68	1098.10	1098.52		
	V	277573.5	163198.3	81636.7	54450.4	40857.5	27265.0	20469.0	16391.5	13673.2	11731.6		
	MU	15.5912	15.5917	15.5931	15.5945	15.5959	15.5987	15.6016	15.6045	15.6074	15.6103		
	C*	51239.5	51249.1	51273.5	51298.6	51323.9	51375.0	51426.6	51478.4	51530.4	51582.5		
	K	28.3185	28.3217	28.3297	28.3379	28.3461	28.3627	28.3794	28.3962	28.4131	28.4300		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
900.0	H	1120.60	1120.67	1120.86	1121.05	1121.25	1121.66	1122.07	1122.49	1122.91	1123.33		
	V	283880.5	166905.8	83490.5	55686.2	41784.4	27882.9	20932.4	16762.2	13982.2	11996.4		
	MU	15.8313	15.8318	15.8331	15.8345	15.8359	15.8387	15.8415	15.8444	15.8473	15.8503		
	C*	51818.2	51827.7	51851.9	51876.6	51901.7	51952.2	52003.2	52054.4	52105.8	52157.4		
	K	28.7544	28.7576	28.7656	28.7737	28.7819	28.7984	28.8150	28.8317	28.8484	28.8652		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
920.0	H	1145.41	1145.48	1145.67	1145.86	1146.06	1146.46	1146.88	1147.29	1147.71	1148.14		
	V	290187.5	170613.3	85344.2	56922.0	42711.3	28500.8	21395.9	17133.0	14291.1	12261.3		
	MU	16.0696	16.0702	16.0715	16.0729	16.0742	16.0770	16.0798	16.0827	16.0856	16.0885		
	C*	52390.5	52400.0	52423.8	52448.3	52473.1	52523.1	52573.5	52624.2	52675.0	52726.0		
	K	29.1873	29.1905	29.1984	29.2065	29.2146	29.2310	29.2474	29.2640	29.2806	29.2973		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
940.0	H	1170.21	1170.29	1170.47	1170.67	1170.86	1171.27	1171.68	1172.10	1172.52	1172.95		
	V	296494.5	174320.8	87198.0	58157.9	43638.1	29118.8	21859.3	17503.7	14600.1	12526.1		
	MU	16.3063	16.3069	16.3082	16.3095	16.3109	16.3137	16.3165	16.3193	16.3222	16.3251		
	C*	52956.6	52966.0	52989.6	53013.8	53038.3	53087.8	53137.7	53187.8	53238.1	53288.5		
	K	29.6172	29.6204	29.6282	29.6362	29.6443	29.6606	29.6769	29.6934	29.7099	29.7264		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
960.0	H	1195.02	1195.09	1195.28	1195.47	1195.67	1196.08	1196.49	1196.91	1197.33	1197.75		
	V	302801.6	178028.4	89051.8	59393.7	44565.0	29736.7	22322.7	17874.5	14909.2	12790.9		
	MU	16.5415	16.5420	16.5433	16.5446	16.5460	16.5487	16.5515	16.5543	16.5572	16.5600		
	C*	53516.8	53526.0	53549.4	53573.4	53597.6	53646.6	53696.0	53745.6	53795.3	53845.2		
	K	30.0442	30.0473	30.0551	30.0631	30.0711	30.0872	30.1035	30.1198	30.1362	30.1526		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
980.0	H	1219.83	1219.90	1220.09	1220.28	1220.48	1220.89	1221.30	1221.72	1222.14	1222.56		
	V	309108.6	181735.9	90905.5	60629.6	45491.5	30354.6	22786.2	18245.2	15218.0	13055.7		
	MU	16.7750	16.7756	16.7769	16.7782	16.7795	16.7822	16.7850	16.7878	16.7906	16.7935		
	C*	54071.1	54080.3	54103.4	54127.2	54151.2	54199.6	54248.5	54297.6	54346.8	54396.2		
	K	30.4683	30.4714	30.4792	30.4871	30.4951	30.5111	30.5272	30.5435	30.5597	30.5761		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
1000.0	H	1244.64	1244.71	1244.89	1245.09	1245.29	1245.69	1246.11	1246.52	1246.94	1247.37		
	V	315415.6	185443.4	92759.2	61865.4	46418.8	30972.5	23249.6	18616.0	15527.0	13320.6		
	MU	17.0070	17.0076	17.0088	17.0102	17.0115	17.0142	17.0170	17.0197	17.0225	17.0254		
	C*	54619.9	54628.9	54651.8	54675.3	54699.1	54747.1	54795.4	54844.0	54892.8	54941.6		
	K	30.8897	30.8928	30.9005	30.9083	30.9163	30.9322	30.9482	30.9643	30.9805	30.9967		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		

ENTHALPY-H BTU/LB	SPECIFIC VOLUME-V CUIN/LB	VISCOSITY-MU LB/(IN-SEC) 10**7	SONIC VELOCITY-C* IN/SEC	CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7	SPECIFIC HEAT RATIO-GA	SPECIFIC HEAT-CP BTU/(LB-DEG R)					
14.7	25.0	50.0	75.0	100.0 * HELIUM *	150.0	200.0	250.0	300.0	350.0		
TEMP/ DEG R											
1000.0	H	1244.64	1244.71	1244.85	1245.09	1245.29	1245.69	1246.11	1246.52	1246.94	1247.37
	V	315415.6	185443.4	52759.3	61865.4	46418.8	30972.5	23249.6	18616.0	15527.0	13320.6
	MU	17.0070	17.0076	17.0088	17.0102	17.0115	17.0142	17.0170	17.0197	17.0225	17.0254
	C*	54619.9	54628.9	54651.8	54675.3	54699.1	54747.1	54795.4	54844.0	54892.8	54941.6
	K	30.8897	30.8928	30.9005	30.9083	30.9163	30.9322	30.9482	30.9643	30.9805	30.9967
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
1100.0	H	1368.67	1368.75	1368.93	1369.13	1369.32	1369.73	1370.14	1370.56	1370.98	1371.41
	V	346950.7	203921.0	102028.1	68044.6	51053.2	34062.1	25566.8	20469.7	17071.8	14644.7
	MU	18.1457	18.1462	18.1475	18.1488	18.1501	18.1527	18.1553	18.1580	18.1607	18.1634
	C*	57284.7	57293.3	57315.2	57337.6	57360.2	57406.0	57452.1	57498.4	57544.9	57591.5
	K	32.6576	32.6606	32.6681	32.6757	32.6834	32.6988	32.7144	32.7300	32.7457	32.7614
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
1200.0	H	1492.71	1492.78	1492.97	1493.16	1493.36	1493.77	1494.18	1494.60	1495.02	1495.44
	V	378485.8	222518.6	111296.9	74223.8	55687.6	37151.7	27884.0	22323.5	18616.6	15968.8
	MU	19.2517	19.2522	19.2534	19.2547	19.2559	19.2585	19.2610	19.2636	19.2663	19.2689
	C*	59830.9	59839.2	59860.1	59881.6	59903.2	59947.0	59991.2	60035.5	60080.1	60124.7
	K	34.9662	34.9691	34.9763	34.9837	34.9912	35.0062	35.0213	35.0365	35.0517	35.0670
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
1300.0	H	1616.75	1616.82	1617.01	1617.20	1617.40	1617.80	1618.22	1618.63	1619.06	1619.48
	V	410020.9	241056.2	120565.7	80403.0	60322.0	40241.3	30201.2	24177.3	20161.4	17292.9
	MU	20.3285	20.3290	20.3302	20.3314	20.3326	20.3351	20.3376	20.3402	20.3427	20.3453
	C*	62273.2	62281.1	62301.2	62321.8	62342.6	62384.7	62427.1	62469.7	62512.5	62555.4
	K	36.9218	36.9246	36.9317	36.9389	36.9462	36.9608	36.9755	36.9903	37.0052	37.0200
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
1400.0	H	1740.78	1740.86	1741.04	1741.24	1741.44	1741.84	1742.25	1742.67	1743.09	1743.52
	V	441556.1	259593.8	129834.5	86582.2	64956.2	43330.9	32518.4	26031.0	21706.2	18617.0
	MU	21.3792	21.3796	21.3808	21.3820	21.3832	21.3856	21.3880	21.3905	21.3930	21.3955
	C*	64623.2	64630.8	64650.2	64670.0	64690.1	64730.7	64771.5	64812.6	64853.8	64895.1
	K	38.8298	38.8326	38.8395	38.8465	38.8536	38.8679	38.8823	38.8967	38.9112	38.9257
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
1500.0	H	1864.82	1864.89	1865.08	1865.27	1865.47	1865.88	1866.29	1866.71	1867.13	1867.55
	V	473091.2	278131.4	139103.3	92761.4	69590.8	46420.5	34835.6	27884.8	23251.0	19941.1
	MU	22.4060	22.4065	22.4076	22.4088	22.4100	22.4123	22.4147	22.4171	22.4195	22.4220
	C*	66890.7	66898.1	66916.8	66935.9	66955.3	66994.5	67034.0	67073.7	67113.5	67153.4
	K	40.6947	40.6974	40.7041	40.7110	40.7180	40.7320	40.7460	40.7601	40.7743	40.7885
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
1600.0	H	1988.86	1988.93	1989.12	1989.31	1989.51	1989.91	1990.33	1990.75	1991.17	1991.59
	V	504626.3	256669.0	148372.1	98940.6	74225.2	49510.1	37152.8	29738.5	24795.8	21265.2
	MU	23.4112	23.4117	23.4128	23.4139	23.4151	23.4174	23.4197	23.4221	23.4244	23.4268
	C*	69083.8	69090.9	69109.0	69127.6	69146.4	69184.3	69222.5	69260.9	69299.5	69338.1
	K	42.5202	42.5228	42.5294	42.5362	42.5430	42.5567	42.5704	42.5843	42.5981	42.6120
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
1700.0	H	2112.89	2112.97	2113.15	2113.35	2113.55	2113.95	2114.36	2114.78	2115.20	2115.63
	V	536161.4	315206.6	157640.9	105119.8	78859.6	52599.7	39470.0	31592.3	26340.6	22589.4
	MU	24.3965	24.3969	24.3980	24.3991	24.4002	24.4025	24.4048	24.4071	24.4094	24.4118
	C*	71209.3	71216.3	71233.9	71251.9	71270.1	71306.9	71344.0	71381.2	71418.6	71456.1
	K	44.3095	44.3121	44.3186	44.3252	44.3318	44.3453	44.3588	44.3723	44.3859	44.3995
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
1800.0	H	2236.93	2237.00	2237.19	2237.38	2237.58	2237.99	2238.40	2238.82	2239.24	2239.66
	V	567696.5	333744.2	166909.7	111299.0	83494.0	55689.3	41787.2	33446.1	27885.4	23913.5
	MU	25.3633	25.3638	25.3648	25.3659	25.3670	25.3693	25.3715	25.3738	25.3761	25.3783
	C*	73273.3	73280.1	73297.1	73314.6	73332.3	73368.1	73404.1	73440.4	73476.7	73513.1
	K	46.0654	46.0679	46.0743	46.0808	46.0874	46.1005	46.1138	46.1271	46.1404	46.1538
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
1900.0	H	2360.97	2361.04	2361.23	2361.42	2361.62	2362.03	2362.44	2362.86	2363.28	2363.70
	V	599231.6	352281.8	176178.5	117478.2	88128.4	58778.0	44104.4	35299.8	29430.2	25237.6
	MU	26.3132	26.3136	26.3146	26.3157	26.3168	26.3190	26.3212	26.3234	26.3256	26.3279
	C*	75280.7	75287.3	75303.9	75320.9	75338.2	75373.0	75408.0	75443.3	75478.7	75514.1
	K	47.7904	47.7929	47.7991	47.8055	47.8119	47.8249	47.8379	47.8510	47.8641	47.8773
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
2000.0	H	2485.01	2485.08	2485.26	2485.46	2485.66	2486.06	2486.48	2486.89	2487.31	2487.74
	V	630766.7	370819.4	185447.3	123657.4	92762.8	61868.5	46421.6	37153.6	30975.0	26561.7
	MU	27.2471	27.2475	27.2486	27.2496	27.2507	27.2528	27.2550	27.2572	27.2594	27.2616
	C*	77235.9	77242.3	77258.5	77275.1	77291.9	77325.9	77360.1	77394.4	77428.9	77463.5
	K	49.4865	49.4890	49.4951	49.5014	49.5077	49.5205	49.5333	49.5462	49.5590	49.5720
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404

ENTHALPY-H		SPECIFIC VOLUME-V		VISCOSITY-MU		SOUND VELOCITY-C		CONDUCTIVITY-K		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP		
BTU/LB		CUIN/LB		LB/IN-SEC		IN/SEC		BTU/SEC-IN-DEG R				BTU/LB-DEG R		
				10**7				10**7						
PRESSURE PSIA		14.7	25.0	5.0	75.0	100.0	150.0	200.0	250.0	300.0	350.0			
TEMP/ DEG R		* HELIUM *												
2000.0	H	2485.01	2485.08	2485.26	2485.46	2485.66	2485.66	2485.66	2485.66	2485.66	2485.66	2485.66	2485.66	
	V	630766.7	370419.4	185447.3	123657.4	92762.8	61968.5	46421.6	3153.6	30975.0	26561.7	22816.7	19478.9	
	MU	27.2471	27.2475	27.2486	27.2496	27.2507	27.2528	27.2550	27.2572	27.2594	27.2616	27.2638	27.2660	
	C*	77235.4	77241.3	77248.5	77255.7	77262.9	77270.1	77277.3	77284.5	77291.7	77298.9	77306.1	77313.3	
	K	49.4465	49.4490	49.4511	49.4531	49.4551	49.4571	49.4591	49.4611	49.4631	49.4651	49.4671	49.4691	
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
2100.0	H	2609.04	2609.12	2609.30	2609.50	2609.69	2610.10	2610.51	2610.93	2611.35	2611.78	2612.20	2612.62	
	V	662331.8	374357.0	194716.1	124336.6	92747.2	64958.1	48738.8	35007.3	25198.8	17885.8	12885.8	9285.8	
	MU	28.1662	28.1666	28.1677	28.1687	28.1697	28.1707	28.1717	28.1727	28.1737	28.1747	28.1757	28.1767	
	C*	79142.9	79146.1	79149.9	79154.1	79158.5	79163.0	79167.4	79171.8	79176.2	79180.6	79185.0	79189.4	
	K	51.1557	51.1581	51.1602	51.1624	51.1646	51.1668	51.1690	51.1712	51.1734	51.1756	51.1778	51.1800	
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
2200.0	H	2733.08	2733.15	2733.34	2733.53	2733.73	2734.14	2734.55	2734.97	2735.39	2735.81	2736.23	2736.65	
	V	693836.9	407894.6	203984.9	136015.8	102011.6	74947.7	54056.0	40861.1	30067.3	22519.8	16885.8	12485.8	
	MU	29.0719	29.0719	29.0729	29.0739	29.0749	29.0759	29.0769	29.0779	29.0789	29.0799	29.0809	29.0819	
	C*	81004.9	81011.1	81016.5	81022.3	81028.3	81034.3	81040.3	81046.3	81052.3	81058.3	81064.3	81070.3	
	K	52.7997	52.8021	52.8040	52.8061	52.8082	52.8103	52.8124	52.8145	52.8166	52.8187	52.8208	52.8229	
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
2300.0	H	2857.12	2857.19	2857.38	2857.57	2857.77	2858.17	2858.59	2859.00	2859.43	2859.85	2860.27	2860.69	
	V	725372.1	426432.2	213253.7	142195.0	106666.0	77137.3	53373.2	42714.9	35609.4	30534.0	26209.9	22585.8	
	MU	29.9636	29.9640	29.9650	29.9660	29.9670	29.9680	29.9690	29.9700	29.9710	29.9720	29.9730	29.9740	
	C*	82825.2	82831.1	82836.2	82841.7	82847.4	82853.0	82858.6	82864.2	82869.8	82875.4	82881.0	82886.6	
	K	54.4199	54.4222	54.4241	54.4261	54.4281	54.4301	54.4321	54.4341	54.4361	54.4381	54.4401	54.4421	
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
2400.0	H	2981.15	2981.23	2981.41	2981.61	2981.81	2982.21	2982.62	2983.04	2983.46	2983.89	2984.31	2984.73	
	V	756907.2	444965.8	222522.5	143374.2	111300.4	74226.9	55690.4	44568.6	37154.2	31858.2	27458.2	23858.2	
	MU	30.8434	30.8438	30.8448	30.8458	30.8468	30.8478	30.8488	30.8498	30.8508	30.8518	30.8528	30.8538	
	C*	84606.2	84612.1	84617.9	84623.6	84629.3	84635.0	84640.7	84646.4	84652.1	84657.8	84663.5	84669.2	
	K	56.0177	56.0200	56.0219	56.0238	56.0257	56.0276	56.0295	56.0314	56.0333	56.0352	56.0371	56.0390	
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
2500.0	H	3105.19	3105.26	3105.45	3105.64	3105.84	3106.25	3106.66	3107.08	3107.50	3107.92	3108.34	3108.76	
	V	788442.3	463507.4	231791.3	154553.4	115934.8	77316.5	58007.6	46422.4	38699.0	33182.3	28582.3	24582.3	
	MU	31.7116	31.7120	31.7129	31.7139	31.7149	31.7159	31.7169	31.7179	31.7189	31.7199	31.7209	31.7219	
	C*	86350.6	86356.3	86362.0	86367.7	86373.4	86379.1	86384.8	86390.5	86396.2	86401.9	86407.6	86413.3	
	K	57.5944	57.5967	57.6024	57.6083	57.6141	57.6200	57.6259	57.6318	57.6377	57.6436	57.6495	57.6554	
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
2600.0	H	3229.23	3229.30	3229.49	3229.68	3229.88	3230.28	3230.70	3231.12	3231.54	3231.96	3232.38	3232.80	
	V	819977.4	482045.0	241060.1	160732.6	120569.2	80406.1	60324.8	48276.1	40243.8	34506.4	30506.4	26506.4	
	MU	32.5687	32.5691	32.5700	32.5710	32.5720	32.5730	32.5740	32.5750	32.5760	32.5770	32.5780	32.5790	
	C*	88060.4	88066.0	88080.2	88094.7	88109.5	88139.2	88169.2	88199.3	88229.6	88259.9	88290.2	88320.5	
	K	59.1510	59.1532	59.1589	59.1647	59.1705	59.1822	59.1940	59.2058	59.2176	59.2295	59.2413	59.2531	
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
2700.0	H	3353.26	3353.34	3353.52	3353.72	3353.92	3354.32	3354.73	3355.15	3355.57	3355.99	3356.41	3356.83	
	V	851512.5	500582.6	250328.9	166911.8	125203.6	83495.7	62642.0	50129.9	41788.6	35830.5	30972.4	26114.3	
	MU	33.4153	33.4157	33.4166	33.4176	33.4185	33.4205	33.4225	33.4244	33.4264	33.4284	33.4304	33.4324	
	C*	89737.6	89743.1	89757.0	89771.3	89785.8	89815.0	89844.4	89874.0	89903.6	89933.4	89963.2	89993.0	
	K	60.6885	60.6908	60.6964	60.7021	60.7078	60.7194	60.7310	60.7427	60.7544	60.7661	60.7778	60.7895	
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
2800.0	H	3477.30	3477.37	3477.56	3477.75	3477.95	3478.36	3478.77	3479.19	3479.61	3480.03	3480.45	3480.87	
	V	883047.6	514202.2	259597.7	173091.0	129338.0	86585.3	64959.2	51983.7	43333.4	37156.6	32469.9	28283.2	
	MU	34.2519	34.2523	34.2532	34.2542	34.2551	34.2571	34.2590	34.2610	34.2630	34.2649	34.2669	34.2689	
	C*	91384.0	91389.4	91403.1	91417.2	91431.3	91460.0	91488.8	91518.0	91547.1	91576.3	91605.5	91634.7	
	K	62.2080	62.2102	62.2157	62.2213	62.2270	62.2385	62.2499	62.2615	62.2730	62.2846	62.2961	62.3077	
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
2900.0	H	3601.34	3601.41	3601.60	3601.79	3601.99	3602.40	3602.81	3603.23	3603.65	3604.07	3604.49	3604.91	
	V	914582.7	537657.8	269866.5	179270.7	134472.4	86584.9	64076.4	51837.4	44878.2	38478.7	33098.2	28278.7	
	MU	35.0791	35.0794	35.0804	35.0813	35.0822	35.0842	35.0861	35.0880	35.0899	35.0919	35.0938	35.0958	
	C*	93001.3	93006.6	93020.4	93033.9	93047.8	93076.4	93104.4	93132.9	93161.6	93190.3	93219.0	93247.7	
	K	63.7101	63.7123	63.7178	63.7234	63.7290	63.7403	63.7516	63.7630	63.7745	63.7859	63.7974	63.8088	
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	

ENTHALPY-H BTU/LB	SPECIFIC VOLUME-V CUIN/LB	VISCOSITY-MU LB/(IN-SEC) 10**7	SONIC VELOCITY-C* IN/SEC	CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7	SPECIFIC HEAT RATIO-GA	SPECIFIC HEAT-CP BTU/(LB-DEG R)				
14.7	25.0	50.0	75.0	100.0 * HELIUM *	150.0	200.0	250.0	300.0	350.0	
PRESSURE PSIA	TEMP/ DEG R									
3000.0	H 3725.38	3725.45	3725.63	3725.83	3726.03	3726.43	3726.85	3727.26	3727.68	3728.11
	V 946117.8	556195.4	278135.3	185449.4	139108.8	92764.5	69593.6	55691.2	46423.0	39802.8
	MU 35.8971	35.8975	35.8994	35.8993	35.9003	35.9022	35.9041	35.9060	35.9079	35.9098
	C* 94591.0	94596.2	94609.4	94623.0	94636.7	94664.4	94692.3	94720.4	94748.5	94776.7
	K 65.1958	65.1980	65.2034	65.2089	65.2144	65.2256	65.2369	65.2482	65.2595	65.2708
	GA 1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP 1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
3100.0	H 3849.41	3849.49	3849.67	3849.87	3850.06	3850.47	3850.88	3851.30	3851.72	3852.15
	V 977652.9	574733.0	287404.1	191628.6	143741.2	95854.1	71910.8	57544.9	47967.8	41127.0
	MU 36.7065	36.7069	36.7078	36.7087	36.7096	36.7115	36.7134	36.7152	36.7171	36.7190
	C* 96154.3	96159.5	96172.5	96185.8	96199.3	96226.6	96254.0	96281.6	96309.3	96337.1
	K 66.6657	66.6678	66.6732	66.6787	66.6842	66.6952	66.7064	66.7175	66.7287	66.7399
	GA 1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP 1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
3200.0	H 3973.45	3973.52	3973.71	3973.90	3974.10	3974.51	3974.92	3975.34	3975.76	3976.18
	V 1009188.1	593270.6	296672.9	197807.8	148375.6	98943.7	74228.0	59398.7	49512.6	42451.1
	MU 37.5076	37.5079	37.5088	37.5097	37.5106	37.5125	37.5143	37.5162	37.5181	37.5200
	C* 97652.7	97657.8	97710.6	97723.7	97737.0	97763.8	97790.8	97818.0	97845.2	97872.6
	K 68.1205	68.1226	68.1279	68.1333	68.1388	68.1497	68.1608	68.1718	68.1829	68.1940
	GA 1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP 1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
3300.0	H 4097.49	4097.56	4097.75	4097.94	4098.14	4098.54	4098.96	4099.37	4099.80	4100.22
	V 1040723.2	611808.2	305941.7	203987.0	153010.0	102033.3	76545.2	61252.5	51057.4	43775.2
	MU 38.3007	38.3010	38.3019	38.3028	38.3037	38.3055	38.3074	38.3092	38.3111	38.3129
	C* 99207.2	99212.2	99224.8	99237.7	99250.8	99277.2	99303.8	99330.6	99357.4	99384.3
	K 69.5609	69.5630	69.5682	69.5736	69.5789	69.5898	69.6007	69.6116	69.6226	69.6336
	GA 1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP 1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
3400.0	H 4221.52	4221.60	4221.78	4221.98	4222.18	4222.58	4222.99	4223.41	4223.83	4224.26
	V 1072258.3	630345.8	315210.5	210166.2	157644.4	105122.9	78862.4	63106.2	52602.2	45099.3
	MU 39.0861	39.0865	39.0873	39.0882	39.0891	39.0909	39.0927	39.0946	39.0964	39.0983
	C* 100698.9	100703.8	100716.3	100729.0	100741.9	100767.9	100794.1	100820.5	100846.9	100873.4
	K 70.9873	70.9894	70.9946	70.9999	71.0052	71.0106	71.0268	71.0376	71.0485	71.0593
	GA 1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP 1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
3500.0	H 4345.56	4345.63	4345.82	4346.01	4346.21	4346.62	4347.03	4347.45	4347.87	4348.29
	V 1103793.4	648883.4	324479.3	216345.4	162278.8	108212.5	81179.6	64960.0	54147.0	46423.4
	MU 39.8642	39.8645	39.8654	39.8663	39.8672	39.8690	39.8708	39.8726	39.8744	39.8762
	C* 102168.9	102173.7	102186.0	102198.5	102211.2	102236.9	102262.7	102288.7	102314.7	102340.9
	K 72.4004	72.4024	72.4076	72.4128	72.4181	72.4288	72.4395	72.4502	72.4610	72.4717
	GA 1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP 1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
3600.0	H 4469.60	4469.67	4469.86	4470.05	4470.25	4470.65	4471.07	4471.49	4471.91	4472.33
	V 1135328.5	667421.0	333748.1	222524.6	166913.2	111302.1	83496.8	66813.7	55691.8	47747.5
	MU 40.6352	40.6355	40.6364	40.6373	40.6381	40.6399	40.6417	40.6435	40.6453	40.6471
	C* 103618.0	103622.8	103634.8	103647.2	103659.7	103685.0	103710.5	103736.1	103761.8	103787.6
	K 73.8006	73.8026	73.8077	73.8129	73.8182	73.8287	73.8393	73.8500	73.8606	73.8713
	GA 1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP 1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
3700.0	H 4593.63	4593.71	4593.89	4594.09	4594.29	4594.69	4595.10	4595.52	4595.94	4596.37
	V 1166863.6	685958.6	343016.9	228703.8	171547.6	114391.7	85814.0	68667.5	57236.6	49071.6
	MU 41.3993	41.3997	41.4005	41.4014	41.4023	41.4040	41.4058	41.4076	41.4094	41.4112
	C* 105047.1	105051.8	105063.7	105075.9	105088.3	105113.2	105138.4	105163.6	105189.0	105214.4
	K 75.1884	75.1904	75.1955	75.2006	75.2058	75.2163	75.2268	75.2373	75.2479	75.2585
	GA 1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP 1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
3800.0	H 4717.67	4717.74	4717.93	4718.12	4718.32	4718.73	4719.14	4719.56	4719.98	4720.40
	V 1198398.7	704496.2	352285.7	234883.0	176182.0	117481.3	88131.2	70521.3	58781.4	50395.8
	MU 42.1569	42.1573	42.1581	42.1590	42.1598	42.1616	42.1633	42.1651	42.1669	42.1687
	C* 106457.0	106461.7	106473.4	106485.5	106497.7	106522.3	106547.1	106572.0	106597.0	106622.1
	K 76.5643	76.5663	76.5713	76.5764	76.5816	76.5919	76.6023	76.6128	76.6233	76.6338
	GA 1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP 1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
3900.0	H 4841.71	4841.78	4841.97	4842.16	4842.36	4842.77	4843.18	4843.60	4844.02	4844.44
	V 1229933.8	723033.8	361554.5	241062.2	180816.4	120570.9	90448.4	72375.0	60326.2	51719.9
	MU 42.9082	42.9085	42.9093	42.9102	42.9111	42.9128	42.9145	42.9163	42.9180	42.9198
	C* 107848.5	107853.1	107864.7	107876.6	107888.6	107912.9	107937.4	107962.0	107986.7	108011.5
	K 77.9286	77.9306	77.9356	77.9406	77.9457	77.9560	77.9663	77.9767	77.9871	77.9975
	GA 1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP 1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
4000.0	H 4965.75	4965.82	4966.00	4966.20	4966.40	4966.80	4967.22	4967.63	4968.05	4968.48
	V 1261469.0	741571.4	370823.3	247241.4	185450.8	123660.5	92765.6	74228.8	61871.0	53044.0
	MU 43.6533	43.6536	43.6544	43.6553	43.6561	43.6578	43.6596	43.6613	43.6630	43.6648
	C* 109222.3	109226.8	109238.3	109250.0	109261.9	109285.9	109310.1	109334.4	109358.7	109383.2
	K 79.2818	79.2837	79.2887	79.2937	79.2988	79.3090	79.3192	79.3295	79.3398	79.3501
	GA 1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP 1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404

ENTHALPY-H BTU/LB	SPECIFIC VOLUME-V CUIN/LB	VISCOSITY-MU LB/(IN-SEC) 10**7	SONIC VELOCITY-C* IN/SEC	CONDUCTIVITY-K RTU/(SEC-1A-DEG R) 10**7	SPECIFIC HEAT RATIO-GA	SPECIFIC HEAT-CP BTU/(LB-DEG R)				
TEMP/ DEG R	14.7	25.0	50.0	75.0	100.0 * HELIUM *	150.0	200.0	250.0	300.0	350.0
4000.0 H	4965.75	4965.82	4966.00	4966.20	4966.40	4966.80	4967.22	4967.63	4968.05	4968.48
V	1261469.0	741571.4	370823.3	247241.4	185450.8	123660.5	92765.6	74728.8	61871.0	53044.0
MU	43.6533	43.6536	43.6544	43.6553	43.6561	43.6578	43.6596	43.6613	43.6630	43.6648
C*	109222.3	109226.8	109238.3	109250.0	109261.9	109285.9	109310.1	109334.4	109358.7	109383.2
K	79.2818	79.2837	79.2887	79.2937	79.2988	79.3090	79.3192	79.3295	79.3398	79.3501
GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
4100.0 H	5089.78	5089.86	5090.04	5090.24	5090.43	5090.84	5091.25	5091.67	5092.09	5092.52
V	1293004.1	760109.0	380092.1	253420.6	190085.2	126750.1	95082.8	76082.5	63415.8	54368.1
MU	44.3924	44.3928	44.3936	44.3944	44.3953	44.3970	44.3987	44.4004	44.4021	44.4039
C*	110579.0	110583.5	110594.8	110606.4	110618.1	110641.8	110665.7	110689.7	110713.8	110737.9
K	80.6242	80.6261	80.6310	80.6360	80.6410	80.6512	80.6613	80.6715	80.6817	80.6920
GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
4200.0 H	5213.82	5213.89	5214.08	5214.27	5214.47	5214.88	5215.29	5215.71	5216.13	5216.55
V	1324539.2	778646.6	389360.9	259599.8	194719.6	129839.7	97400.0	77936.3	64960.6	55692.2
MU	45.1258	45.1262	45.1270	45.1278	45.1287	45.1303	45.1320	45.1337	45.1355	45.1372
C*	111919.3	111923.7	111934.9	111946.3	111957.9	111981.3	112004.9	112028.6	112052.4	112076.3
K	81.9561	81.9581	81.9629	81.9679	81.9729	81.9829	81.9930	82.0031	82.0133	82.0234
GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
4300.0 H	5337.86	5337.93	5338.12	5338.31	5338.51	5338.91	5339.33	5339.74	5340.17	5340.59
V	1356074.3	797184.2	398629.7	265779.0	199354.0	132929.3	99717.2	79790.1	66505.4	57016.3
MU	45.8537	45.8540	45.8548	45.8556	45.8565	45.8582	45.8598	45.8615	45.8632	45.8649
C*	113243.7	113248.0	113259.1	113270.4	113281.9	113305.0	113328.3	113351.7	113375.3	113398.8
K	83.2780	83.2799	83.2847	83.2896	83.2946	83.3045	83.3146	83.3246	83.3347	83.3448
GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
4400.0 H	5461.89	5461.97	5462.15	5462.35	5462.55	5462.95	5463.36	5463.78	5464.20	5464.63
V	1387609.4	815721.8	407898.5	271959.2	203988.4	136018.9	102034.4	81643.8	68050.2	58340.4
MU	46.5761	46.5765	46.5773	46.5781	46.5789	46.5806	46.5822	46.5839	46.5856	46.5873
C*	114552.8	114557.1	114568.0	114579.2	114590.5	114613.4	114636.4	114659.6	114682.8	114706.1
K	84.5900	84.5919	84.5967	84.6016	84.6065	84.6164	84.6263	84.6363	84.6463	84.6563
GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
4500.0 H	5585.93	5586.00	5586.19	5586.38	5586.58	5586.99	5587.40	5587.82	5588.24	5588.66
V	1419144.5	834259.4	417167.3	278137.4	208622.8	139108.5	104351.6	83497.6	69595.0	59664.6
MU	47.2933	47.2937	47.2945	47.2953	47.2961	47.2977	47.2994	47.3011	47.3028	47.3044
C*	115847.1	115851.3	115862.1	115873.2	115884.4	115907.0	115929.8	115952.7	115975.7	115998.7
K	85.8926	85.8945	85.8992	85.9041	85.9089	85.9187	85.9286	85.9385	85.9484	85.9584
GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404

ENTHALPY-H BTU/LB		SPECIFIC VOLUME-V CUIN/LB		VISCOSITY-MU LB/(IN-SEC) 10**7		SONIC VELOCITY-C* IN/SEC		CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP BTU/(LB-DEG R)	
PRESSURE PSIA		400.0	500.0	600.0	700.0	800.0	900.0	1000.0	1500.0	2000.0	2500.0		
TEMP/ DEG R		* HELIUM *											
36.0	H	45.40	45.12	45.01	45.03	45.18	45.43	45.77	48.43	52.05	56.12		
	V	439.0	363.3	314.4	280.5	255.8	237.1	222.4	180.1	159.2	146.2		
	MU	1.9661	2.0600	2.1688	2.2867	2.4067	2.5215	2.6246	2.8675	2.7693	2.5545		
	C*	12685.8	13576.7	14533.3	15526.9	16529.7	17516.1	18464.5	22259.4	24628.3	26391.6		
	K	3.8989	4.1614	4.4544	4.7708	5.0991	5.4286	5.7491	6.9930	7.6090	7.9061		
	GA	2.0759	2.1545	2.2201	2.2710	2.3063	2.3256	2.3297	2.1886	1.9736	1.8129		
	CP	1.3396	1.3543	1.3662	1.3759	1.3838	1.3902	1.3953	1.4089	1.4130	1.4139		
38.0	H	48.08	47.83	47.74	47.79	47.95	48.21	48.56	51.25	54.88	58.95		
	V	465.2	384.4	332.0	295.6	268.9	248.7	232.8	186.7	164.0	150.0		
	MU	2.0254	2.1123	2.2122	2.3206	2.4321	2.5409	2.6422	2.9459	2.9555	2.8291		
	C*	12874.8	13693.4	14563.8	15462.0	16365.6	17254.8	18113.0	21658.0	24051.7	25906.6		
	K	4.0034	4.2489	4.5202	4.8105	5.1114	5.4142	5.7108	6.9163	7.5984	7.9822		
	GA	2.0291	2.0937	2.1457	2.1845	2.2098	2.2221	2.2222	2.1001	1.9221	1.7855		
	CP	1.3392	1.3539	1.3659	1.3756	1.3836	1.3900	1.3951	1.4090	1.4131	1.4141		
40.0	H	50.75	50.54	50.47	50.54	50.71	50.99	51.35	54.07	57.70	61.78		
	V	491.3	405.4	349.5	310.6	282.0	260.2	243.1	193.3	168.8	153.7		
	MU	2.0840	2.1647	2.2570	2.3570	2.4605	2.5630	2.6605	2.9956	3.0813	3.0279		
	C*	13067.6	13826.1	14626.3	15449.1	16273.1	17085.6	17872.7	21208.0	23597.9	25510.1		
	K	4.1066	4.3373	4.5897	4.8581	5.1357	5.4153	5.6906	6.8488	7.5709	8.0222		
	GA	1.9894	2.0432	2.0852	2.1153	2.1338	2.1414	2.1391	2.0317	1.8808	1.7628		
	CP	1.3385	1.3532	1.3652	1.3750	1.3829	1.3894	1.3946	1.4086	1.4128	1.4138		
42.0	H	53.43	53.24	53.20	53.28	53.48	53.77	54.14	56.88	60.53	64.60		
	V	517.2	426.3	366.9	325.5	295.0	271.7	253.4	199.9	173.6	157.5		
	MU	2.1419	2.2173	2.3028	2.3954	2.4916	2.5878	2.6808	3.0301	3.1696	3.1753		
	C*	13262.6	13970.4	14712.4	15471.5	16232.6	16982.9	17712.2	20868.6	23238.2	25184.8		
	K	4.2085	4.4262	4.6624	4.9120	5.1695	5.4291	5.6854	6.7939	7.5385	8.0413		
	GA	1.9553	2.0006	2.0350	2.0588	2.0724	2.0769	2.0732	1.9774	1.8472	1.7440		
	CP	1.3376	1.3522	1.3642	1.3739	1.3819	1.3884	1.3936	1.4078	1.4121	1.4131		
44.0	H	56.11	55.95	55.93	56.03	56.24	56.54	56.92	59.70	63.35	67.43		
	V	542.9	447.0	384.3	340.3	307.9	283.1	263.6	206.5	178.4	161.2		
	MU	2.1993	2.2698	2.3494	2.4355	2.5251	2.6154	2.7037	3.0566	3.2341	3.2874		
	C*	13458.6	14123.2	14816.1	15522.9	16230.9	16929.7	17611.1	20612.6	22952.4	24917.4		
	K	4.3093	4.5156	4.7375	4.9708	5.2109	5.4530	5.6928	6.7522	7.5074	8.0492		
	GA	1.9258	1.9644	1.9929	2.0119	2.0220	2.0242	2.0197	1.9333	1.8194	1.7281		
	CP	1.3364	1.3510	1.3629	1.3726	1.3806	1.3871	1.3923	1.4066	1.4110	1.4120		
46.0	H	58.78	58.65	58.65	58.78	59.00	59.32	59.71	62.51	66.17	70.25		
	V	568.5	467.6	401.5	355.1	320.8	294.5	273.8	213.1	183.2	165.0		
	MU	2.2560	2.3223	2.3967	2.4769	2.5606	2.6454	2.7290	3.0794	3.2835	3.3749		
	C*	13654.8	14282.1	14933.1	15595.5	16258.8	16914.2	17555.1	20421.0	22725.8	24697.8		
	K	4.4089	4.6050	4.8144	5.0336	5.2585	5.4854	5.7104	6.7230	7.4808	8.0517		
	GA	1.9001	1.9332	1.9571	1.9723	1.9798	1.9805	1.9755	1.8971	1.7962	1.7146		
	CP	1.3351	1.3495	1.3614	1.3711	1.3790	1.3855	1.3907	1.4051	1.4095	1.4106		
48.0	H	61.45	61.34	61.37	61.52	61.76	62.09	62.49	65.32	68.99	73.07		
	V	594.0	488.1	418.6	369.7	333.6	305.9	283.9	219.6	188.0	168.7		
	MU	2.3122	2.3747	2.4444	2.5194	2.5978	2.6775	2.7567	3.1008	3.3233	3.4452		
	C*	13850.7	14445.5	15060.3	15684.7	16309.7	16928.1	17534.2	20280.2	22547.1	24518.4		
	K	4.5074	4.6944	4.8928	5.0995	5.3112	5.5246	5.7367	6.7053	7.4603	8.0524		
	GA	1.8776	1.9062	1.9263	1.9387	1.9442	1.9438	1.9384	1.8668	1.7766	1.7031		
	CP	1.3337	1.3479	1.3596	1.3693	1.3772	1.3836	1.3889	1.4033	1.4078	1.4089		
50.0	H	64.11	64.04	64.09	64.25	64.51	64.85	65.26	68.12	71.80	75.89		
	V	619.4	508.6	435.7	384.3	346.4	317.2	294.0	226.2	192.7	172.5		
	MU	2.3678	2.4269	2.4924	2.5629	2.6365	2.7116	2.7865	3.1222	3.3572	3.5031		
	C*	14045.9	14612.1	15195.4	15786.8	16378.7	16965.0	17541.0	20180.1	22407.9	24372.7		
	K	4.6049	4.7837	4.9723	5.1680	5.3680	5.5695	5.7702	6.6980	7.4464	8.0536		
	GA	1.8576	1.8825	1.8996	1.9097	1.9137	1.9125	1.9070	1.8412	1.7599	1.6933		
	CP	1.3321	1.3461	1.3577	1.3673	1.3752	1.3816	1.3868	1.4013	1.4058	1.4070		
52.0	H	66.77	66.73	66.80	66.98	67.26	67.61	68.03	70.92	74.61	78.70		
	V	644.7	528.9	452.7	398.9	359.1	328.4	304.1	232.7	197.5	176.2		
	MU	2.4229	2.4789	2.5407	2.6070	2.6763	2.7472	2.8183	3.1444	3.3874	3.5523		
	C*	14240.1	14780.9	15336.5	15899.1	16462.2	17020.5	17570.0	20113.2	22301.6	24255.8		
	K	4.7014	4.8728	5.0526	5.2385	5.4282	5.6192	5.8096	6.6997	7.4391	8.0566		
	GA	1.8399	1.8616	1.8762	1.8846	1.8874	1.8857	1.8801	1.8194	1.7456	1.6849		
	CP	1.3303	1.3442	1.3557	1.3652	1.3729	1.3793	1.3845	1.3990	1.4036	1.4048		
54.0	H	69.43	69.41	69.51	69.71	70.00	70.37	70.80	73.72	77.42	81.51		
	V	669.8	549.1	469.6	413.4	371.7	339.6	314.2	245.7	207.1	183.7		
	MU	2.4776	2.5307	2.5892	2.6518	2.7172	2.7843	2.8518	3.1678	3.4155	3.5954		
	C*	14433.0	14951.4	15482.5	16019.6	16557.2	17090.9	17617.1	20073.5	22223.0	24163.6		
	K	4.7970	4.9617	5.1336	5.3107	5.4912	5.6729	5.8541	6.7095	7.4384	8.0623		
	GA	1.8242	1.8432	1.8558	1.8626	1.8664	1.8624	1.8569	1.8007	1.7333	1.6777		
	CP	1.3285	1.3422	1.3535	1.3629	1.3706	1.3769	1.3821	1.3966	1.4012	1.4024		
56.0	H	72.09	72.10	72.22	72.44	72.74	73.12	73.56	76.51	80.22	84.31		
	V	694.8	569.3	486.4	427.8	384.3	350.8	324.2	245.7	207.1	183.7		
	MU	2.5317	2.5823	2.6377	2.6970	2.7589	2.8225	2.8867	3.1924	3.4426	3.6340		
	C*	14624.6	15122.8	15632.1	16146.7	16661.7	17173.4	17678.8	20056.6	22167.9	24092.8		
	K	4.8917	5.0502	5.2150	5.3843	5.5565	5.7299	5.9029	6.7264	7.4436	8.0711		
	GA	1.8100	1.8268	1.8376	1.8433	1.8446	1.8421	1.8368	1.7845	1.7226	1.6714		
	CP	1.3266	1.3401	1.3512	1.3605	1.3681	1.3744	1.3795	1.3939	1.3986	1.3998		

ENTHALPY-H BTU/LB	SPECIFIC VOLUME-V CUIN/LB	VISCOSITY-MU LB/(IN-SEC) 10**7	SONIC VELOCITY-C* IN/SEC	CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7	SPECIFIC HEAT RATIO-GA	SPECIFIC HEAT-CP BTU/(LB-DEG R)
400.0	500.0	600.0	700.0	800.0	900.0	1000.0
TEMP/ DEG R				* HELIUM *		
56.0 H	72.09	72.10	72.22	72.44	72.74	73.12
V	694.8	569.3	486.4	427.8	384.3	350.8
MU	2.5317	2.5823	2.6377	2.6970	2.7589	2.8225
C*	14624.6	15122.8	15632.1	16146.7	16661.7	17173.4
K	4.8917	5.0502	5.2150	5.3843	5.5565	5.7299
GA	1.8100	1.8268	1.8376	1.8433	1.8446	1.8421
CP	1.3266	1.3401	1.3512	1.3605	1.3681	1.3744
58.0 H	74.74	74.77	74.92	75.15	75.47	75.86
V	719.8	589.3	503.2	442.2	396.9	361.9
MU	2.5854	2.6336	2.6863	2.7425	2.8013	2.8617
C*	14814.8	15254.8	15784.6	16279.0	16773.9	17266.0
K	4.9855	5.1384	5.2968	5.4591	5.6238	5.7897
GA	1.7973	1.8122	1.8216	1.8262	1.8244	1.8191
CP	1.3246	1.3378	1.3488	1.3579	1.3655	1.3717
60.0 H	77.39	77.45	77.61	77.87	78.20	78.61
V	744.6	609.3	519.9	456.5	409.4	373.0
MU	2.6386	2.6847	2.7349	2.7884	2.8443	2.9018
C*	15003.4	15467.1	15939.3	16415.6	16892.4	17366.9
K	5.0786	5.2263	5.3788	5.5347	5.6928	5.8518
GA	1.7859	1.7991	1.8072	1.8111	1.8087	1.8036
CP	1.3226	1.3356	1.3464	1.3553	1.3628	1.3689
65.0 H	83.99	84.11	84.33	84.63	85.00	85.43
V	806.4	659.0	561.4	492.1	440.5	400.6
MU	2.7699	2.8114	2.8562	2.9038	2.9536	3.0049
C*	15468.1	15857.1	16332.2	16770.5	17209.4	17646.8
K	5.3079	5.4444	5.5843	5.7267	5.8707	6.0154
GA	1.7619	1.7718	1.7776	1.7800	1.7795	1.7768
CP	1.3174	1.3297	1.3400	1.3486	1.3558	1.3617
70.0 H	90.56	90.74	91.01	91.35	91.76	92.22
V	867.7	708.2	602.5	527.4	471.4	428.0
MU	2.8988	2.9364	2.9769	3.0198	3.0647	3.1109
C*	15923.1	16324.1	16729.8	17137.9	17546.7	17954.7
K	5.5330	5.6603	5.7899	5.9214	6.0541	6.1875
GA	1.7430	1.7506	1.7548	1.7562	1.7554	1.7527
CP	1.3121	1.3237	1.3335	1.3417	1.3485	1.3542
75.0 H	97.11	97.35	97.66	98.04	98.48	98.97
V	928.5	757.1	643.4	562.4	502.0	455.2
MU	3.0254	3.0599	3.0968	3.1359	3.1767	3.2189
C*	16368.3	16746.6	17128.4	17512.1	17896.4	18280.4
K	5.7543	5.8738	5.9950	6.1176	6.2412	6.3653
GA	1.7281	1.7339	1.7369	1.7378	1.7367	1.7342
CP	1.3069	1.3177	1.3269	1.3347	1.3412	1.3467
80.0 H	103.63	103.92	104.28	104.70	105.17	105.69
V	989.0	805.7	683.9	597.3	532.5	482.3
MU	3.1500	3.1818	3.2158	3.2516	3.2891	3.3279
C*	16804.2	17163.5	17525.6	17889.2	18253.5	18617.6
K	5.9722	6.0850	6.1992	6.3144	6.4304	6.5470
GA	1.7162	1.7206	1.7229	1.7233	1.7222	1.7199
CP	1.3017	1.3119	1.3205	1.3278	1.3340	1.3392
85.0 H	110.13	110.47	110.87	111.32	111.82	112.37
V	1049.1	854.0	724.3	631.9	562.8	509.2
MU	3.2727	3.3022	3.3337	3.3669	3.4015	3.4374
C*	17231.1	17574.5	17920.1	18266.9	18614.3	18961.7
K	6.1870	6.2941	6.4022	6.5112	6.6209	6.7311
GA	1.7066	1.7100	1.7117	1.7119	1.7108	1.7087
CP	1.2967	1.3062	1.3142	1.3211	1.3269	1.3319
90.0 H	116.60	116.98	117.42	117.91	118.44	119.01
V	1109.0	902.1	764.5	666.4	593.0	536.0
MU	3.3937	3.4212	3.4505	3.4814	3.5136	3.5471
C*	17649.4	17979.3	18310.8	18643.3	18976.5	19309.8
K	6.3990	6.5010	6.6039	6.7076	6.8119	6.9168
GA	1.6989	1.7016	1.7028	1.7028	1.7017	1.6998
CP	1.2920	1.3007	1.3083	1.3147	1.3202	1.3248
95.0 H	123.05	123.47	123.95	124.47	125.03	125.62
V	1168.7	950.0	804.4	700.7	623.0	562.7
MU	3.5129	3.5387	3.5661	3.5951	3.6253	3.6567
C*	18059.6	18377.7	18697.2	19017.5	19338.4	19659.5
K	6.6083	6.7059	6.8043	6.9034	7.0031	7.1033
GA	1.6927	1.6947	1.6956	1.6955	1.6945	1.6928
CP	1.2875	1.2956	1.3026	1.3086	1.3137	1.3181
100.0 H	129.47	129.94	130.45	131.00	131.58	132.19
V	1228.1	997.6	844.2	734.8	652.9	589.3
MU	3.6305	3.6548	3.6807	3.7079	3.7364	3.7660
C*	18461.9	18769.8	19078.8	19388.6	19698.8	20009.3
K	6.8150	6.9088	7.0032	7.0983	7.1940	7.2903
GA	1.6876	1.6893	1.6899	1.6897	1.6888	1.6873
CP	1.2832	1.2907	1.2972	1.3028	1.3076	1.3117

ENTHALPY-H BTU/LB		SPECIFIC VOLUME-V CUIN/LB	VISCOSITY-MU LB/(IN-SEC) 10**7	SONIC VELOCITY-C* IN/SEC	CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7	SPECIFIC HEAT RATIO-GA	SPECIFIC HEAT-CP BTU/(LB-DEG R)				
PRESSURE PSIA	TEMP/ DEG R	400.0	500.0	600.0	700.0	800.0	900.0	1000.0	1500.0	2000.0	2500.0
* HELIUM *											
100.0	H	129.47	129.94	130.45	131.00	131.58	132.19	132.83	136.35	140.26	144.41
	V	1228.1	997.6	844.2	734.8	652.9	589.3	538.5	386.7	311.2	266.2
	MU	3.6305	3.6548	3.6807	3.7079	3.7364	3.7660	3.7966	3.9620	4.1428	4.3340
	C*	18461.9	18769.8	19078.8	19388.6	19698.8	20009.3	20319.9	21870.4	23411.8	24942.8
	K	6.8150	6.9088	7.0032	7.0983	7.1940	7.2903	7.3870	7.8777	8.3801	8.8955
	GA	1.6876	1.6893	1.6899	1.6897	1.6888	1.6873	1.6853	1.6712	1.6547	1.6396
	CP	1.2832	1.2907	1.2972	1.3028	1.3076	1.3117	1.3153	1.3263	1.3306	1.3320
110.0	H	142.27	142.80	143.37	143.97	144.60	145.25	145.92	149.54	153.50	157.66
	V	1346.4	1092.5	923.5	802.8	712.5	642.2	586.1	418.3	334.8	284.8
	MU	3.8613	3.8832	3.9064	3.9308	3.9564	3.9830	4.0106	4.1607	4.3272	4.5060
	C*	19244.3	19535.3	19827.1	20119.4	20412.1	20705.0	20998.2	22464.0	23927.4	25387.1
	K	7.2217	7.3089	7.3967	7.4852	7.5743	7.6639	7.7541	8.2132	8.6860	9.1738
	GA	1.6803	1.6812	1.6816	1.6813	1.6806	1.6795	1.6780	1.6672	1.6540	1.6420
	CP	1.2757	1.2820	1.2875	1.2923	1.2965	1.3001	1.3032	1.3132	1.3174	1.3187
120.0	H	154.99	155.58	156.20	156.85	157.51	158.20	158.90	162.62	166.61	170.79
	V	1464.1	1186.9	1002.2	870.4	771.7	694.9	633.5	449.8	358.3	303.5
	MU	4.0866	4.1065	4.1276	4.1499	4.1732	4.1974	4.2226	4.3605	4.5148	4.6819
	C*	19999.4	20276.8	20554.8	20833.2	21112.0	21391.0	21670.1	23066.7	24463.1	25858.5
	K	7.6200	7.7018	7.7843	7.8675	7.9513	8.0357	8.1207	8.5543	9.0023	9.4653
	GA	1.6755	1.6760	1.6762	1.6760	1.6754	1.6745	1.6734	1.6654	1.6552	1.6449
	CP	1.2692	1.2744	1.2791	1.2832	1.2868	1.2899	1.2927	1.3017	1.3056	1.3070
130.0	H	167.65	168.30	168.96	169.64	170.34	171.05	171.78	175.58	179.61	183.81
	V	1581.4	1280.9	1080.7	937.7	830.6	747.3	680.7	481.2	381.7	322.2
	MU	4.3069	4.3252	4.3446	4.3651	4.3866	4.4090	4.4322	4.5600	4.7038	4.8603
	C*	20729.2	20995.4	21262.1	21529.1	21796.4	22063.9	22331.5	23670.2	25008.5	26345.7
	K	8.0105	8.0879	8.1660	8.2448	8.3243	8.4045	8.4852	8.8979	9.3246	9.7655
	GA	1.6723	1.6727	1.6727	1.6725	1.6721	1.6715	1.6707	1.6647	1.6567	1.6480
	CP	1.2637	1.2681	1.2720	1.2755	1.2786	1.2813	1.2837	1.2917	1.2954	1.2967
140.0	H	180.27	180.95	181.65	182.36	183.09	183.83	184.57	188.46	192.52	196.73
	V	1698.3	1374.6	1158.5	1004.8	889.3	799.5	727.7	512.5	405.2	340.9
	MU	4.5225	4.5355	4.5576	4.5766	4.5966	4.6174	4.6391	4.7585	4.8932	5.0401
	C*	21435.7	21692.4	21949.5	22207.0	22464.6	22722.3	22980.2	24269.4	25556.8	26841.3
	K	8.3939	8.4675	8.5419	8.6171	8.6930	8.7696	8.8468	9.2418	9.6503	10.0713
	GA	1.6704	1.6706	1.6706	1.6704	1.6701	1.6697	1.6691	1.6647	1.6584	1.6510
	CP	1.2592	1.2628	1.2661	1.2690	1.2716	1.2739	1.2760	1.2832	1.2866	1.2879
150.0	H	192.84	193.56	194.28	195.02	195.77	196.53	197.30	201.25	205.35	209.57
	V	1815.0	1468.1	1236.8	1071.7	947.9	851.6	774.6	543.8	428.6	359.5
	MU	4.7338	4.7498	4.7667	4.7845	4.8033	4.8228	4.8431	4.9553	5.0822	5.2205
	C*	22120.7	22369.1	22617.9	22867.1	23116.3	23365.7	23615.1	24861.3	26103.7	27340.2
	K	8.7705	8.8410	8.9122	8.9843	9.0571	9.1307	9.2048	9.5847	9.9773	10.3806
	GA	1.6691	1.6692	1.6692	1.6691	1.6689	1.6686	1.6682	1.6650	1.6601	1.6538
	CP	1.2555	1.2584	1.2611	1.2636	1.2658	1.2678	1.2696	1.2759	1.2791	1.2803
160.0	H	205.38	206.12	206.87	207.64	208.41	209.19	209.97	213.98	218.11	222.34
	V	1931.5	1561.3	1314.6	1138.4	1006.3	903.6	821.4	575.0	451.9	378.2
	MU	4.9411	4.9562	4.9722	4.9890	5.0066	5.0251	5.0443	5.1503	5.2702	5.4009
	C*	22785.7	23026.8	23268.3	23510.1	23751.9	23993.9	24235.9	25444.1	26646.4	27839.3
	K	9.1409	9.2086	9.2771	9.3465	9.4167	9.4875	9.5591	9.9257	10.3044	10.6918
	GA	1.6683	1.6684	1.6684	1.6683	1.6682	1.6680	1.6678	1.6655	1.6617	1.6563
	CP	1.2524	1.2549	1.2571	1.2591	1.2610	1.2627	1.2642	1.2698	1.2727	1.2739
170.0	H	217.89	218.65	219.43	220.21	221.00	221.79	222.59	226.65	230.81	235.05
	V	2047.8	1654.5	1392.3	1205.1	1064.7	955.5	868.1	606.2	475.3	396.8
	MU	5.1447	5.1590	5.1742	5.1901	5.2069	5.2243	5.2425	5.3432	5.4571	5.5809
	C*	23432.2	23666.7	23901.6	24136.7	24372.0	24607.3	24842.6	26016.9	27183.2	28336.1
	K	9.5052	9.5705	9.6367	9.7038	9.7716	9.8401	9.9093	10.2644	10.6306	11.0038
	GA	1.6679	1.6679	1.6680	1.6679	1.6679	1.6677	1.6676	1.6661	1.6631	1.6584
	CP	1.2499	1.2519	1.2538	1.2555	1.2570	1.2585	1.2598	1.2647	1.2674	1.2685
180.0	H	230.38	231.16	231.95	232.75	233.55	234.36	235.17	239.27	243.46	247.71
	V	2164.1	1747.5	1469.5	1271.6	1122.9	1007.3	914.8	637.3	498.6	415.4
	MU	5.3448	5.3584	5.3729	5.3881	5.4040	5.4207	5.4380	5.5339	5.6425	5.7601
	C*	24061.4	24289.9	24518.8	24748.0	24977.2	25206.5	25435.8	26579.3	27713.0	28829.4
	K	9.8639	9.9271	9.9912	10.0562	10.1219	10.1884	10.2556	10.6002	10.9554	11.3157
	GA	1.6677	1.6677	1.6677	1.6677	1.6677	1.6676	1.6676	1.6666	1.6644	1.6602
	CP	1.2480	1.2496	1.2511	1.2525	1.2538	1.2550	1.2561	1.2604	1.2629	1.2640
190.0	H	242.85	243.65	244.45	245.26	246.08	246.89	247.71	251.86	256.07	260.33
	V	2280.2	1840.5	1547.4	1338.1	1181.1	1059.0	961.3	688.4	521.9	434.1
	MU	5.5415	5.5546	5.5685	5.5830	5.5983	5.6142	5.6308	5.7225	5.8263	5.9384
	C*	24674.6	24897.6	25121.0	25344.6	25568.3	25792.0	26015.7	27131.2	28235.3	29318.2
	K	10.2171	10.2786	10.3408	10.4039	10.4678	10.5325	10.5978	10.9330	11.2783	11.6269
	GA	1.6675	1.6676	1.6676	1.6676	1.6676	1.6676	1.6676	1.6671	1.6654	1.6618
	CP	1.2464	1.2477	1.2489	1.2501	1.2512	1.2522	1.2531	1.2565	1.2591	1.2602
200.0	H	255.31	256.12	256.93	257.75	258.58	259.40	260.23	264.41	268.64	272.92
	V	2396.3	1933.4	1624.8	1404.5	1239.2	1110.7	1007.9	699.4	545.2	452.7
	MU	5.7352	5.7478	5.7611	5.7751	5.7898	5.8051	5.8210	5.9090	6.0085	6.1156
	C*	25272.9	25490.8	25709.0	25927.4	26146.0	26364.6	26583.2	27672.8	28749.8	29801.9
	K	10.5653	10.6251	10.6857	10.7472	10.8094	10.8723	10.9360	11.2627	11.5990	11.9370
	GA	1.6675	1.6675	1.6676	1.6676	1.6676	1.6677	1.6677	1.6675	1.6662	1.6630
	CP	1.2451	1.2462	1.2472	1.2481	1.2490	1.2499	1.2507	1.2539	1.2560	1.2570

ENTHALPY-H		SPECIFIC VOLUME-V		VISCOSITY-MU		SOUND VELOCITY-C*		CONDUCTIVITY-K		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP	
BTU/LB		CU/LB		LB/IN-SEC		IN/SEC		BTU/IN-SEC-DEG F				BTU/IN-SEC-DEG F	
				10**7				10**7					
PRESSURE-PSIA	TEMP-DEG F	400.0	500.0	600.0	700.0	800.0	900.0	1000.0	1500.0	2000.0	2500.0		
* HELIUM *													
200.0	H	255.31	256.12	256.93	257.75	258.58	259.40	260.23	264.41	268.64	272.92		
	V	255.31	1923.4	1624.8	1404.5	1239.2	1110.7	1007.9	699.4	545.2	452.7		
	MU	5.7352	5.7478	5.7611	5.7751	5.7898	5.8051	5.8210	5.9090	6.0085	6.1156		
	C*	25272.9	25490.8	25709.0	25927.4	26146.0	26364.6	26583.2	27672.8	28749.8	29801.9		
	K	10.5653	10.6251	10.6857	10.7472	10.8094	10.8723	10.9360	11.2627	11.5990	11.9370		
	GA	1.6675	1.6675	1.6676	1.6676	1.6676	1.6677	1.6677	1.6675	1.6662	1.6630		
210.0	H	267.75	268.57	269.40	270.23	271.06	271.89	272.73	276.94	281.19	285.47		
	V	267.75	1726.2	1702.2	1470.8	1297.3	1162.3	1054.4	730.5	568.5	471.3		
	MU	5.6260	5.5382	5.4510	5.3645	5.2786	5.1933	5.1086	6.0066	6.1889	6.2915		
	C*	25857.2	26070.3	26283.7	26497.3	26711.1	26924.9	27138.7	28204.3	29256.4	30280.2		
	K	10.9086	10.9669	11.0261	11.0860	11.1467	11.2081	11.2702	11.5892	11.9173	12.2457		
	GA	1.6675	1.6675	1.6676	1.6676	1.6677	1.6677	1.6678	1.6678	1.6669	1.6641		
220.0	H	280.19	281.02	281.85	282.68	283.52	284.36	285.21	289.44	293.71	298.01		
	V	280.19	2119.1	1779.6	1537.2	1355.4	1213.9	1100.8	761.5	591.8	489.9		
	MU	6.1140	6.1258	6.1382	6.1512	6.1649	6.1791	6.1938	6.2754	6.3676	6.4661		
	C*	26428.6	26637.1	26846.0	27055.1	27264.3	27473.6	27682.9	28726.1	29755.2	30752.9		
	K	11.2472	11.3042	11.3620	11.4206	11.4799	11.5400	11.6007	11.9125	12.2332	12.5528		
	GA	1.6675	1.6675	1.6676	1.6677	1.6677	1.6678	1.6679	1.6681	1.6675	1.6649		
230.0	H	292.62	293.45	294.29	295.13	295.98	296.82	297.67	301.93	306.21	310.52		
	V	292.62	2211.8	1856.9	1603.5	1413.4	1265.5	1147.3	792.5	615.1	508.5		
	MU	6.2994	6.3109	6.3229	6.3355	6.3487	6.3625	6.3767	6.4556	6.5446	6.6393		
	C*	26987.6	27191.9	27396.5	27601.4	27806.4	28011.4	28216.5	29238.6	30246.4	31220.0		
	K	11.5913	11.6472	11.7039	11.7611	11.8192	11.8779	11.9373	12.2326	12.5464	12.8580		
	GA	1.6675	1.6676	1.6676	1.6677	1.6678	1.6679	1.6680	1.6683	1.6679	1.6656		
240.0	H	305.04	305.88	306.72	307.57	308.42	309.27	310.12	314.40	318.70	323.01		
	V	305.04	2404.6	1934.3	1669.8	1471.4	1317.1	1193.7	823.5	638.3	527.1		
	MU	6.4823	6.4935	6.5052	6.5175	6.5302	6.5436	6.5574	6.6337	6.7198	6.8112		
	C*	27535.1	27735.4	27936.0	28136.9	28337.8	28538.9	28739.9	29742.3	30730.1	31681.5		
	K	11.9112	11.9660	12.0215	12.0777	12.1346	12.1922	12.2504	12.5495	12.8570	13.1613		
	GA	1.6675	1.6676	1.6677	1.6678	1.6678	1.6679	1.6680	1.6684	1.6682	1.6661		
250.0	H	317.46	318.30	319.15	320.00	320.85	321.71	322.57	326.86	331.17	335.49		
	V	317.46	2597.4	2011.6	1736.0	1529.4	1368.7	1240.1	854.4	661.6	545.7		
	MU	6.6629	6.6738	6.6852	6.6971	6.7096	6.7225	6.7359	6.8099	6.8934	6.9817		
	C*	28071.9	28268.3	28465.1	28662.2	28859.3	29056.6	29253.9	30237.5	31206.7	32137.5		
	K	12.2371	12.2908	12.3453	12.4005	12.4564	12.5128	12.5699	12.8634	13.1650	13.4625		
	GA	1.6676	1.6676	1.6677	1.6678	1.6679	1.6680	1.6681	1.6685	1.6684	1.6666		
260.0	H	329.88	330.72	331.57	332.43	333.28	334.14	335.00	339.31	343.63	347.96		
	V	329.88	2704.1	2088.9	1802.3	1587.4	1420.2	1286.5	885.4	684.8	564.3		
	MU	6.8413	6.8519	6.8630	6.8746	6.8867	6.8993	6.9124	6.9843	7.0653	7.1507		
	C*	28598.4	28791.3	28984.5	29177.9	29371.4	29565.1	29758.7	30724.7	31676.4	32588.1		
	K	12.5591	12.6119	12.6654	12.7197	12.7745	12.8300	12.8861	13.1742	13.4703	13.7617		
	GA	1.6676	1.6677	1.6677	1.6678	1.6679	1.6680	1.6681	1.6686	1.6686	1.6669		
270.0	H	342.29	343.14	343.99	344.85	345.71	346.57	347.43	351.75	356.09	360.42		
	V	342.29	2582.8	2166.1	1880.5	1645.3	1471.7	1332.9	916.3	708.0	582.9		
	MU	7.0175	7.0279	7.0389	7.0501	7.0619	7.0742	7.0869	7.1568	7.2356	7.3184		
	C*	29115.4	29304.8	29494.5	29684.5	29874.6	30064.8	30255.1	31204.2	32139.5	33033.3		
	K	12.8773	12.9293	12.9823	13.0353	13.0893	13.1438	13.1989	13.4821	13.7731	14.0588		
	GA	1.6676	1.6677	1.6678	1.6678	1.6679	1.6680	1.6681	1.6686	1.6687	1.6672		
280.0	H	354.70	355.55	356.41	357.26	358.13	358.99	359.85	364.19	368.53	372.87		
	V	354.70	2675.5	2243.4	1934.8	1703.3	1523.3	1379.3	947.3	731.2	601.5		
	MU	7.1917	7.2019	7.2125	7.2236	7.2351	7.2471	7.2595	7.3276	7.4042	7.4847		
	C*	29623.2	29809.4	29995.9	30182.5	30369.3	30556.3	30743.2	31676.3	32596.1	33473.4		
	K	13.1920	13.2432	13.2951	13.3476	13.4007	13.4543	13.5086	13.7871	14.0733	14.3537		
	GA	1.6676	1.6677	1.6678	1.6679	1.6679	1.6680	1.6681	1.6686	1.6688	1.6674		
290.0	H	367.11	367.96	368.82	369.68	370.54	371.41	372.27	376.62	380.97	385.32		
	V	367.11	2768.2	2370.7	2001.0	1761.2	1574.8	1425.6	988.2	754.5	620.1		
	MU	7.3639	7.3749	7.3863	7.3982	7.4105	7.4232	7.4363	7.4967	7.5714	7.6496		
	C*	30122.5	30305.5	30488.5	30672.3	30856.0	31039.8	31223.7	32141.5	33046.5	33908.4		
	K	13.5033	13.5539	13.6045	13.6566	13.7089	13.7617	13.8151	14.0892	14.3710	14.6465		
	GA	1.6676	1.6677	1.6678	1.6679	1.6679	1.6680	1.6681	1.6686	1.6688	1.6675		
300.0	H	379.52	380.37	381.23	382.09	382.96	383.82	384.69	389.04	393.40	397.76		
	V	379.52	2860.9	2457.5	2067.2	1819.2	1626.3	1472.0	1009.1	777.7	638.6		
	MU	7.5343	7.5441	7.5543	7.5650	7.5760	7.5874	7.5993	7.6641	7.7370	7.8132		
	C*	30613.5	30793.5	30973.8	31154.4	31335.1	31515.9	31696.8	32600.0	33491.0	34338.5		
	K	13.8113	13.8615	13.9115	13.9625	14.0140	14.0661	14.1187	14.3887	14.6662	14.9372		
	GA	1.6676	1.6677	1.6678	1.6679	1.6679	1.6680	1.6681	1.6686	1.6689	1.6677		

ENTHALPY-H		SPECIFIC VOLUME-V		VISCOSITY-MU		SONIC VELOCITY-C*		CONDUCTIVITY-K		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP	
BTU/LB		CUIN/LB		LB/(IN-SEC)		IN/SEC		BTU/(SEC-IN-DEG R)				BTU/(LB-DEG R)	
				10**7				10**7					
PRESSURE PSIA		400.0	500.0	600.0	700.0	800.0	900.0	1000.0	1500.0	2000.0	2500.0		
TEMP/ DEG R													
		* HELIUM *											
300.0	H	379.52	380.37	381.23	382.09	382.96	383.82	384.69	389.04	393.40	397.76		
	V	3555.5	2860.9	2397.9	2067.2	1819.2	1626.3	1472.0	1009.1	777.7	638.6		
	MU	7.5343	7.5441	7.5543	7.5650	7.5760	7.5874	7.5993	7.6641	7.7370	7.8132		
	C*	30613.5	30793.5	30973.8	31154.4	31335.1	31515.9	31696.8	32600.0	33491.0	34338.5		
	K	13.8113	13.8611	13.9115	13.9625	14.0140	14.0661	14.1187	14.3887	14.6662	14.9372		
	GA	1.6676	1.6677	1.6678	1.6679	1.6679	1.6680	1.6681	1.6686	1.6689	1.6677		
	CP	1.2408	1.2409	1.2410	1.2411	1.2412	1.2414	1.2415	1.2422	1.2430	1.2436		
310.0	H	391.93	392.78	393.64	394.50	395.37	396.23	397.10	401.46	405.83	410.19		
	V	3671.4	2953.6	2475.2	2133.4	1877.1	1677.8	1518.4	1040.1	800.9	657.2		
	MU	7.7030	7.7126	7.7226	7.7330	7.7438	7.7550	7.7666	7.8300	7.9012	7.9755		
	C*	31096.7	31273.9	31451.3	31629.0	31806.9	31984.8	32162.9	33052.1	33929.9	34763.8		
	K	14.1161	14.1653	14.2150	14.2653	14.3162	14.3675	14.4194	14.6854	14.9590	15.2258		
	GA	1.6676	1.6677	1.6678	1.6679	1.6679	1.6680	1.6681	1.6686	1.6689	1.6678		
	CP	1.2407	1.2408	1.2409	1.2410	1.2411	1.2412	1.2413	1.2419	1.2426	1.2431		
320.0	H	404.33	405.19	406.05	406.91	407.78	408.64	409.51	413.88	418.25	422.62		
	V	3787.3	3046.3	2552.4	2199.6	1935.1	1729.3	1564.7	1071.0	824.1	675.8		
	MU	7.8699	7.8793	7.8892	7.8994	7.9100	7.9210	7.9323	7.9944	8.0639	8.1365		
	C*	31572.5	31746.9	31921.6	32096.6	32271.7	32447.0	32622.3	33498.1	34363.2	35184.5		
	K	14.4179	14.4665	14.5156	14.5653	14.6154	14.6661	14.7173	14.9796	15.2494	15.5123		
	GA	1.6676	1.6677	1.6678	1.6678	1.6679	1.6680	1.6681	1.6685	1.6688	1.6678		
	CP	1.2406	1.2407	1.2408	1.2408	1.2409	1.2410	1.2411	1.2416	1.2422	1.2427		
330.0	H	416.74	417.59	418.45	419.32	420.19	421.05	421.92	426.29	430.67	435.04		
	V	3903.1	3139.0	2629.7	2265.9	1993.0	1780.8	1611.1	1101.9	847.3	694.4		
	MU	8.0351	8.0444	8.0541	8.0642	8.0746	8.0854	8.0965	8.1572	8.2253	8.2962		
	C*	32041.2	32213.0	32385.1	32557.4	32729.9	32902.5	33075.3	33938.2	34791.2	35600.5		
	K	14.7168	14.7648	14.8134	14.8624	14.9120	14.9620	15.0125	15.2713	15.5375	15.7968		
	GA	1.6676	1.6677	1.6678	1.6678	1.6679	1.6680	1.6681	1.6685	1.6688	1.6679		
	CP	1.2406	1.2406	1.2407	1.2407	1.2408	1.2409	1.2410	1.2414	1.2419	1.2424		
340.0	H	429.14	430.00	430.86	431.73	432.59	433.46	434.33	438.71	443.09	447.47		
	V	4019.0	3231.7	2706.9	2332.1	2051.0	1832.3	1657.4	1132.8	870.5	712.9		
	MU	8.1988	8.2080	8.2175	8.2274	8.2376	8.2482	8.2591	8.3187	8.3853	8.4547		
	C*	32503.1	32672.4	32842.0	33011.8	33181.8	33351.9	33522.1	34372.7	35214.1	36012.2		
	K	15.0129	15.0604	15.1084	15.1569	15.2058	15.2552	15.3051	15.5606	15.8234	16.0792		
	GA	1.6676	1.6677	1.6677	1.6678	1.6679	1.6680	1.6680	1.6685	1.6688	1.6679		
	CP	1.2405	1.2406	1.2406	1.2407	1.2407	1.2408	1.2408	1.2412	1.2417	1.2422		
350.0	H	441.55	442.41	443.27	444.13	445.00	445.87	446.74	451.12	455.51	459.89		
	V	4134.9	3324.4	2784.2	2398.3	2108.9	1883.8	1703.8	1163.7	893.7	731.5		
	MU	8.3610	8.3700	8.3794	8.3892	8.3992	8.4096	8.4203	8.4787	8.5440	8.6120		
	C*	32958.5	33125.4	33292.6	33460.0	33627.6	33795.3	33963.1	34801.9	35632.0	36419.6		
	K	15.3063	15.3533	15.4007	15.4487	15.4970	15.5459	15.5951	15.8475	16.1070	16.3597		
	GA	1.6676	1.6676	1.6677	1.6678	1.6679	1.6680	1.6680	1.6684	1.6687	1.6679		
	CP	1.2405	1.2405	1.2406	1.2406	1.2406	1.2407	1.2407	1.2411	1.2415	1.2419		
360.0	H	453.95	454.81	455.67	456.54	457.41	458.28	459.15	463.53	467.92	472.31		
	V	4250.7	3417.1	2861.4	2464.5	2166.8	1935.3	1750.1	1194.6	916.9	750.1		
	MU	8.5217	8.5306	8.5399	8.5495	8.5594	8.5696	8.5801	8.6374	8.7015	8.7681		
	C*	33407.8	33572.3	33737.2	33902.3	34067.5	34232.9	34398.4	35225.8	36045.2	36822.8		
	K	15.5971	15.6436	15.6906	15.7380	15.7858	15.8341	15.8828	16.1321	16.3885	16.6382		
	GA	1.6675	1.6676	1.6677	1.6678	1.6679	1.6679	1.6680	1.6684	1.6687	1.6679		
	CP	1.2405	1.2405	1.2405	1.2405	1.2406	1.2406	1.2407	1.2410	1.2413	1.2417		
370.0	H	466.36	467.22	468.08	468.94	469.81	470.68	471.55	475.94	480.33	484.72		
	V	4366.6	3509.8	2938.6	2530.7	2224.8	1986.8	1796.5	1225.5	940.0	768.6		
	MU	8.6810	8.6898	8.6989	8.7084	8.7181	8.7282	8.7385	8.7948	8.8577	8.9231		
	C*	33851.0	34013.3	34176.0	34338.8	34501.9	34665.0	34828.3	35644.7	36453.9	37221.9		
	K	15.8854	15.9314	15.9779	16.0248	16.0721	16.1199	16.1680	16.4145	16.6679	16.9148		
	GA	1.6675	1.6676	1.6677	1.6678	1.6678	1.6679	1.6680	1.6683	1.6686	1.6680		
	CP	1.2404	1.2405	1.2405	1.2405	1.2405	1.2406	1.2406	1.2408	1.2412	1.2416		
380.0	H	478.76	479.62	480.48	481.35	482.22	483.09	483.96	488.35	492.74	497.14		
	V	4482.5	3602.5	3015.9	2596.9	2282.7	2038.3	1842.8	1256.4	963.2	787.2		
	MU	8.8390	8.8477	8.8566	8.8660	8.8756	8.8855	8.8957	8.9510	9.0127	9.0769		
	C*	34288.5	34448.7	34609.2	34769.9	34930.8	35091.8	35252.9	36058.8	36858.0	37617.0		
	K	16.1713	16.2168	16.2628	16.3093	16.3561	16.4033	16.4510	16.6947	16.9453	17.1895		
	GA	1.6675	1.6676	1.6677	1.6678	1.6678	1.6679	1.6680	1.6683	1.6686	1.6680		
	CP	1.2404	1.2404	1.2405	1.2405	1.2405	1.2405	1.2406	1.2408	1.2411	1.2414		
390.0	H	491.17	492.02	492.89	493.75	494.62	495.49	496.37	500.75	505.15	509.55		
	V	4598.3	3695.2	3093.1	2663.1	2340.6	2089.8	1889.2	1287.3	986.4	805.7		
	MU	8.9956	9.0042	9.0131	9.0222	9.0317	9.0415	9.0515	9.1059	9.1665	9.2297		
	C*	34720.5	34878.6	35037.1	35195.7	35354.5	35513.5	35672.6	36468.2	37257.8	38008.2		
	K	16.4548	16.4999	16.5455	16.5914	16.6378	16.6846	16.7317	16.9728	17.2207	17.4624		
	GA	1.6675	1.6676	1.6677	1.6677	1.6678	1.6679	1.6679	1.6683	1.6685	1.6680		
	CP	1.2404	1.2404	1.2404	1.2405	1.2405	1.2405	1.2405	1.2407	1.2410	1.2413		
400.0	H	503.57	504.43	505.29	506.16	507.03	507.90	508.77	513.16	517.56	521.96		
	V	4714.2	3787.9	3170.4	2729.3	2398.6	2141.3	1935.5	1318.2	1009.6	824.3		
	MU	9.1510	9.1594	9.1682	9.1773	9.1866	9.1962	9.2061	9.2596	9.3193	9.3813		
	C*	35147.2	35303.3	35459.8	35616.4	35773.3	35930.2	36087.3	36873.2	37653.5	38395.7		
	K	16.7360	16.7807	16.8259	16.8714	16.9173	16.9636	17.0103	17.2489	17.4942	17.7334		
	GA	1.6675	1.6676	1.6676	1.6677	1.6678	1.6678	1.6679	1.6682	1.6685	1.6679		
	CP	1.2404	1.2404	1.2404	1.2404	1.2405	1.2405	1.2405	1.2406	1.2409	1.2412		

ENTHALPY-H		SPECIFIC VOLUME-V	VISCOSITY-MU	SOUND VELOCITY-C*		CONDUCTIVITY-K		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP	
BTU/LB		CUIN/LB	LB/(IN-SEC)	IN/SEC		BTU/(SEC-IN-DEG R)				BTU/(LB-DEG R)	
			10**7				10**7				
PRESSURE	PSIA	400.0	500.0	600.0	700.0	800.0	900.0	1000.0	1500.0	2000.0	2500.0
TEMP/	DEG R	* HELIUM *									
400.0	H	503.57	504.43	505.29	506.16	507.03	507.90	508.77	513.16	517.56	521.96
	V	4714.2	3787.9	3170.4	2729.3	2398.6	2141.3	1935.5	1318.2	1009.6	824.3
	MU	9.1510	9.1594	9.1682	9.1773	9.1866	9.1962	9.2061	9.2596	9.3193	9.3813
	C*	35147.2	35303.3	35459.8	35616.4	35773.3	35930.2	36087.3	36873.2	37653.5	38395.7
	K	16.7360	16.7807	16.8259	16.8714	16.9173	16.9636	17.0103	17.2489	17.4942	17.7334
	GA	1.6675	1.6676	1.6676	1.6677	1.6678	1.6678	1.6679	1.6682	1.6685	1.6679
	CP	1.2404	1.2404	1.2404	1.2404	1.2405	1.2405	1.2405	1.2406	1.2409	1.2412
410.0	H	515.98	516.83	517.69	518.56	519.43	520.30	521.18	525.57	529.97	534.37
	V	4830.0	3880.6	3247.6	2795.5	2456.5	2192.8	1981.9	1349.1	1032.8	842.9
	MU	9.3051	9.3135	9.3221	9.3311	9.3403	9.3498	9.3595	9.4122	9.4709	9.5319
	C*	35568.7	35723.0	35877.5	36032.3	36187.2	36342.2	36497.4	37273.7	38045.1	38779.5
	K	17.0150	17.0594	17.1041	17.1492	17.1947	17.2406	17.2868	17.5230	17.7657	18.0027
	GA	1.6675	1.6676	1.6676	1.6677	1.6678	1.6678	1.6679	1.6682	1.6685	1.6679
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2405	1.2406	1.2408	1.2411
420.0	H	528.38	529.24	530.10	530.97	531.83	532.71	533.58	537.97	542.38	546.78
	V	4945.9	3973.2	3324.8	2861.7	2514.4	2244.3	2028.2	1380.0	1056.0	861.4
	MU	9.4580	9.4663	9.4749	9.4837	9.4928	9.5022	9.5118	9.5637	9.6214	9.6815
	C*	35985.3	36137.7	36290.4	36443.3	36596.4	36749.6	36902.9	37670.1	38432.8	39159.6
	K	17.2920	17.3359	17.3802	17.4250	17.4700	17.5155	17.5612	17.7951	18.0354	18.2703
	GA	1.6675	1.6675	1.6676	1.6677	1.6677	1.6678	1.6679	1.6681	1.6684	1.6679
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2406	1.2407	1.2410
430.0	H	540.78	541.64	542.50	543.37	544.24	545.11	545.98	550.38	554.79	559.19
	V	5061.8	4065.9	3402.1	2927.9	2572.4	2295.8	2074.6	1410.9	1079.1	880.0
	MU	9.6098	9.6180	9.6265	9.6352	9.6442	9.6534	9.6629	9.7141	9.7709	9.8301
	C*	36397.2	36547.8	36698.7	36849.8	37001.1	37152.5	37304.1	38062.4	38816.7	39536.3
	K	17.5668	17.6104	17.6543	17.6987	17.7433	17.7884	17.8337	18.0653	18.3034	18.5362
	GA	1.6675	1.6675	1.6676	1.6677	1.6677	1.6678	1.6678	1.6681	1.6684	1.6679
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2405	1.2407	1.2409
440.0	H	553.19	554.04	554.91	555.77	556.64	557.52	558.39	562.78	567.19	571.60
	V	5177.6	4158.6	3479.3	2994.2	2630.3	2347.3	2120.9	1441.8	1102.3	898.5
	MU	9.7605	9.7686	9.7770	9.7856	9.7945	9.8036	9.8130	9.8634	9.9194	9.9777
	C*	36804.6	36953.3	37102.5	37251.9	37401.5	37551.2	37701.0	38450.7	39196.9	39909.6
	K	17.8396	17.8829	17.9265	17.9704	18.0147	18.0593	18.1043	18.3338	18.5695	18.8004
	GA	1.6674	1.6675	1.6676	1.6676	1.6677	1.6678	1.6678	1.6681	1.6683	1.6679
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2405	1.2406	1.2409
450.0	H	565.59	566.45	567.31	568.18	569.05	569.92	570.79	575.19	579.60	584.01
	V	5293.5	4251.3	3556.6	3060.4	2688.2	2398.8	2167.3	1472.7	1125.5	917.1
	MU	9.9101	9.9181	9.9264	9.9350	9.9437	9.9527	9.9620	10.0117	10.0669	10.1244
	C*	37207.2	37354.5	37502.0	37649.7	37797.6	37945.6	38093.7	38835.2	39573.5	40279.5
	K	18.1105	18.1534	18.1967	18.2403	18.2842	18.3284	18.3730	18.6004	18.8340	19.0629
	GA	1.6674	1.6675	1.6676	1.6676	1.6677	1.6677	1.6678	1.6680	1.6683	1.6679
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2405	1.2406	1.2408
460.0	H	577.99	578.85	579.71	580.58	581.45	582.32	583.20	587.59	592.01	596.42
	V	5409.3	4344.0	3633.8	3126.6	2746.1	2450.3	2213.6	1503.6	1148.7	935.6
	MU	10.0587	10.0666	10.0748	10.0832	10.0919	10.1008	10.1099	10.1590	10.2134	10.2702
	C*	37605.7	37751.3	37897.2	38043.3	38189.6	38336.0	38482.5	39215.9	39946.6	40646.1
	K	18.3795	18.4221	18.4650	18.5082	18.5518	18.5957	18.6399	18.8653	19.0968	19.3239
	GA	1.6674	1.6675	1.6676	1.6676	1.6677	1.6677	1.6678	1.6680	1.6682	1.6679
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2405	1.2406	1.2408
470.0	H	590.40	591.26	592.12	592.98	593.85	594.73	595.60	600.00	604.41	608.83
	V	5525.2	4436.7	3711.1	3192.8	2804.1	2501.8	2259.9	1534.5	1171.9	954.2
	MU	10.2062	10.2140	10.2222	10.2305	10.2391	10.2479	10.2569	10.3054	10.3590	10.4150
	C*	38000.0	38144.1	38288.4	38433.0	38577.7	38722.5	38867.5	39593.1	40316.3	41009.6
	K	18.6467	18.6889	18.7315	18.7744	18.8176	18.8612	18.9050	19.1284	19.3580	19.5834
	GA	1.6674	1.6675	1.6676	1.6676	1.6677	1.6677	1.6678	1.6680	1.6682	1.6679
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2405	1.2406	1.2407
480.0	H	602.80	603.66	604.52	605.39	606.26	607.13	608.01	612.40	616.82	621.23
	V	5641.1	4529.4	3788.3	3259.0	2862.0	2553.3	2306.3	1565.4	1195.0	972.7
	MU	10.3527	10.3605	10.3685	10.3768	10.3853	10.3940	10.4029	10.4507	10.5036	10.5589
	C*	38390.2	38532.8	38675.7	38818.7	38961.9	39105.2	39248.6	39966.7	40682.6	41370.0
	K	18.9121	18.9540	18.9963	19.0388	19.0817	19.1249	19.1684	19.3900	19.6175	19.8413
	GA	1.6674	1.6675	1.6676	1.6676	1.6677	1.6677	1.6678	1.6680	1.6682	1.6679
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2405	1.2406	1.2407
490.0	H	615.21	616.06	616.93	617.79	618.66	619.53	620.41	624.80	629.22	633.64
	V	5756.9	4622.1	3865.5	3325.2	2919.9	2604.8	2352.6	1596.3	1218.2	991.3
	MU	10.4982	10.5060	10.5139	10.5221	10.5305	10.5391	10.5479	10.5952	10.6474	10.7020
	C*	38776.6	38917.7	39059.1	39200.6	39342.3	39484.2	39626.1	40336.9	41045.8	41727.3
	K	19.1757	19.2173	19.2593	19.3015	19.3441	19.3870	19.4301	19.6499	19.8756	20.0977
	GA	1.6674	1.6675	1.6676	1.6676	1.6677	1.6677	1.6678	1.6679	1.6681	1.6679
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2405	1.2406	1.2407
500.0	H	627.61	628.47	629.33	630.20	631.07	631.94	632.81	637.21	641.63	646.05
	V	5872.8	4714.7	3942.8	3391.4	2977.9	2656.3	2399.0	1627.2	1241.4	1009.8
	MU	10.6429	10.6505	10.6584	10.6665	10.6748	10.6833	10.6920	10.7388	10.7903	10.8442
	C*	39159.1	39298.8	39438.7	39578.9	39719.2	39859.6	40000.1	40703.7	41405.8	42081.6
	K	19.4376	19.4790	19.5206	19.5626	19.6048	19.6474	19.6902	19.9082	20.1321	20.3526
	GA	1.6674	1.6674	1.6675	1.6676	1.6676	1.6677	1.6677	1.6679	1.6681	1.6679
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2405	1.2405	1.2406

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ENTHALPY-H BTU/LB		SPECIFIC VOLUME-V CUIN/LB		VISCOSITY-MU LB/(IN-SEC) 10**7		SONIC VELOCITY-C* IN/SEC		CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP BTU/(LB-DEG R)	
PRESSURE PSIA		400.0	500.0	600.0	700.0	800.0	900.0	1000.0	1500.0	2000.0	2500.0		
TEMP/ DEG R		* HELIUM *											
600.0	H	751.65	752.50	753.37	754.23	755.10	755.98	756.85	761.25	765.67	770.10		
	V	7031.4	5641.6	4715.2	4053.4	3557.2	3171.2	2862.4	1936.2	1473.1	1195.3		
	MU	12.0421	12.0492	12.0564	12.0638	12.0714	12.0792	12.0871	12.1292	12.1752	12.2237		
	C*	42796.8	42924.3	43052.0	43180.0	43308.0	43436.2	43564.5	44206.9	44849.4	45475.9		
	K	21.9728	22.0116	22.0507	22.0900	22.1295	22.1693	22.2093	22.4125	22.6206	22.8279		
	GA	1.6673	1.6673	1.6674	1.6674	1.6675	1.6675	1.6676	1.6677	1.6679	1.6681		
620.0	H	776.45	777.31	778.17	779.04	779.91	780.78	781.66	786.06	790.48	794.91		
	V	7263.1	5827.0	4869.7	4185.9	3673.0	3274.2	2955.1	1998.0	1519.5	1232.3		
	MU	12.3127	12.3197	12.3268	12.3341	12.3416	12.3493	12.3571	12.3984	12.4435	12.4911		
	C*	43477.8	43613.3	43738.9	43864.8	43990.7	44116.8	44243.0	44975.0	45507.2	46035.2		
	K	22.4632	22.5016	22.5402	22.5791	22.6182	22.6575	22.6970	22.8977	23.1031	23.3081		
	GA	1.6673	1.6673	1.6674	1.6674	1.6675	1.6675	1.6676	1.6677	1.6678	1.6679		
640.0	H	801.26	802.12	802.98	803.85	804.72	805.59	806.47	810.86	815.29	819.72		
	V	7494.8	6012.4	5024.1	4318.3	3788.9	3377.2	3047.8	2059.8	1565.8	1269.4		
	MU	12.5805	12.5874	12.5945	12.6017	12.6091	12.6166	12.6243	12.6649	12.7091	12.7559		
	C*	44168.1	44291.5	44415.2	44539.1	44663.1	44787.2	44911.4	45533.4	46155.8	46765.5		
	K	22.9486	22.9866	23.0248	23.0632	23.1019	23.1407	23.1798	23.3781	23.5810	23.7818		
	GA	1.6673	1.6673	1.6674	1.6674	1.6674	1.6675	1.6675	1.6677	1.6678	1.6679		
660.0	H	826.07	826.93	827.79	828.66	829.53	830.40	831.27	835.67	840.09	844.53		
	V	7726.5	6197.8	5178.6	4450.7	3904.8	3480.2	3140.5	2121.6	1612.2	1306.5		
	MU	12.8457	12.8525	12.8595	12.8666	12.8739	12.8813	12.8888	12.9298	12.9723	13.0182		
	C*	44838.0	44959.6	45081.4	45203.4	45325.4	45447.7	45570.0	46182.4	46795.5	47397.1		
	K	23.4293	23.4669	23.5047	23.5427	23.5809	23.6193	23.6580	23.8550	24.0545	24.2551		
	GA	1.6673	1.6673	1.6673	1.6674	1.6674	1.6675	1.6675	1.6676	1.6678	1.6679		
680.0	H	850.88	851.73	852.60	853.46	854.33	855.21	856.08	860.48	864.90	869.34		
	V	7958.3	6383.1	5333.1	4583.1	4020.6	3583.1	3233.2	2183.4	1658.5	1343.6		
	MU	13.1084	13.1151	13.1220	13.1290	13.1361	13.1434	13.1509	13.1902	13.2329	13.2781		
	C*	45498.1	45617.9	45737.9	45858.0	45978.3	46098.7	46219.2	46822.6	47426.6	48020.6		
	K	23.9053	23.9425	23.9799	24.0176	24.0554	24.0934	24.1316	24.3255	24.5236	24.7222		
	GA	1.6672	1.6673	1.6673	1.6674	1.6674	1.6674	1.6675	1.6676	1.6678	1.6679		
700.0	H	875.68	876.54	877.40	878.27	879.14	880.01	880.89	885.29	889.71	894.14		
	V	8190.0	6568.5	5487.6	4715.5	4136.5	3686.1	3325.9	2245.1	1704.8	1390.7		
	MU	13.3686	13.3752	13.3820	13.3889	13.3960	13.4032	13.4105	13.4492	13.4912	13.5356		
	C*	46148.8	46266.8	46385.1	46503.5	46622.0	46740.7	46859.4	47454.1	48049.6	48636.0		
	K	24.3770	24.4138	24.4509	24.4881	24.5255	24.5632	24.6010	24.7927	24.9887	25.1853		
	GA	1.6672	1.6673	1.6673	1.6674	1.6674	1.6674	1.6675	1.6676	1.6677	1.6679		
720.0	H	900.49	901.35	902.21	903.08	903.95	904.82	905.70	910.09	914.52	918.95		
	V	8421.7	6753.9	5642.1	4847.9	4252.3	3789.1	3418.6	2306.9	1751.2	1417.8		
	MU	13.6244	13.6330	13.6397	13.6465	13.6535	13.6606	13.6678	13.7060	13.7473	13.7910		
	C*	46750.4	46906.8	47023.4	47140.1	47257.0	47374.0	47491.1	48077.5	48664.6	49243.9		
	K	24.8444	24.8808	24.9175	24.9544	24.9915	25.0287	25.0662	25.2559	25.4497	25.6445		
	GA	1.6672	1.6673	1.6673	1.6674	1.6674	1.6674	1.6675	1.6676	1.6677	1.6679		
740.0	H	925.30	926.16	927.02	927.89	928.76	929.63	930.50	934.90	939.32	943.76		
	V	8653.4	6939.3	5796.5	4980.3	4368.2	3892.1	3511.2	2368.7	1797.5	1454.8		
	MU	13.8819	13.8884	13.8951	13.9018	13.9087	13.9157	13.9229	13.9605	14.0011	14.0442		
	C*	47423.3	47538.1	47653.1	47768.3	47883.6	47999.0	48114.5	48692.9	49272.1	49844.3		
	K	25.3077	25.3438	25.3801	25.4167	25.4534	25.4903	25.5274	25.7152	25.9070	26.0998		
	GA	1.6672	1.6673	1.6673	1.6673	1.6674	1.6674	1.6674	1.6676	1.6677	1.6679		
760.0	H	950.11	950.96	951.83	952.69	953.56	954.44	955.31	959.71	964.13	968.57		
	V	8885.1	7124.6	5951.0	5112.7	4484.1	3995.1	3603.9	2430.5	1843.9	1491.9		
	MU	14.1353	14.1417	14.1483	14.1550	14.1618	14.1687	14.1758	14.2128	14.2529	14.2959		
	C*	48045.0	48157.6	48270.6	48383.7	48496.9	48610.3	48723.8	49292.6	49862.7	50433.6		
	K	25.7670	25.8028	25.8388	25.8750	25.9114	25.9479	25.9847	26.1706	26.3605	26.5541		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
780.0	H	974.91	975.77	976.63	977.50	978.37	979.24	980.12	984.51	988.94	993.38		
	V	9116.9	7310.0	6105.5	5245.1	4599.9	4098.1	3696.6	2492.3	1890.2	1529.0		
	MU	14.3865	14.3929	14.3994	14.4060	14.4127	14.4196	14.4265	14.4631	14.5026	14.5449		
	C*	48661.7	48772.9	48884.3	48996.0	49107.8	49219.7	49331.8	49893.2	50455.9	51019.4		
	K	26.2225	26.2580	26.2937	26.3296	26.3656	26.4018	26.4382	26.6224	26.8104	27.0020		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
800.0	H	999.72	1000.58	1001.44	1002.31	1003.18	1004.05	1004.92	1009.32	1013.75	1018.19		
	V	9348.6	7495.4	6260.0	5377.6	4715.8	4201.1	3789.3	2554.1	1936.6	1566.1		
	MU	14.6357	14.6420	14.6484	14.6550	14.6616	14.6684	14.6753	14.7114	14.7503	14.7920		
	C*	49270.6	49380.4	49490.5	49600.7	49711.1	49821.6	49932.3	50486.6	51042.2	51598.7		
	K	26.6743	26.7095	26.7449	26.7805	26.8162	26.8521	26.8881	27.0707	27.2568	27.4465		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		

ENTHALPY-H BTU/LB		SPECIFIC VOLUME-V CUIN/LB		VISCOSITY-MU LB/(IN-SEC) 10**7		SONIC VELOCITY-C* IN/SEC		CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7		SPECIFIC HEAT-RATIO-GA		SPECIFIC HEAT-CP BTU/(LB-DEG R)	
PRESSURE PSIA		400.0		500.0		600.0		700.0		800.0		900.0	
TEMP/ DEG R		1000.0		1500.0		2000.0		2500.0		3000.0		3500.0	
		* HELIUM *											
800.0	H	999.72	1000.58	1001.44	1002.31	1003.18	1004.05	1004.92	1005.32	1013.75	1018.19		
	V	9348.6	7495.4	6260.0	5377.6	4715.8	4201.1	3789.3	2554.1	1936.6	1566.1		
	MU	14.6357	14.6420	14.6484	14.6550	14.6616	14.6684	14.6753	14.7114	14.7503	14.7920		
	C*	49270.6	49380.4	49490.5	49600.7	49711.1	49821.6	49932.3	50046.6	51042.2	51598.7		
	K	26.6743	26.7095	26.7449	26.7805	26.8162	26.8521	26.8881	27.0707	27.2568	27.4465		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
820.0	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
	H	1024.53	1025.39	1026.25	1027.11	1027.98	1028.86	1029.73	1034.13	1038.55	1042.99		
	V	9580.3	7680.8	6414.5	5510.0	4831.6	4304.0	3882.0	2615.9	1982.9	1603.2		
	MU	14.8830	14.8892	14.8955	14.9020	14.9086	14.9153	14.9221	14.9578	14.9961	15.0372		
	C*	49872.1	49980.6	50089.3	50198.2	50307.2	50416.4	50525.7	51073.2	51622.0	52171.6		
	K	27.1226	27.1575	27.1926	27.2278	27.2633	27.2988	27.3346	27.5155	27.6999	27.8876		
840.0	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
	H	1049.34	1050.19	1051.06	1051.92	1052.79	1053.66	1054.54	1058.94	1063.36	1067.80		
	V	9812.0	7866.1	6568.9	5642.4	4947.5	4407.0	3974.7	2677.7	2029.3	1640.2		
	MU	15.1283	15.1344	15.1407	15.1471	15.1536	15.1602	15.1670	15.2022	15.2401	15.2805		
	C*	50466.5	50573.6	50681.0	50788.6	50896.4	51004.2	51112.2	51653.2	52195.4	52738.4		
860.0	K	27.5674	27.6020	27.6368	27.6718	27.7069	27.7422	27.7776	27.9569	28.1396	28.3256		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
	H	1074.14	1075.00	1075.86	1076.73	1077.60	1078.47	1079.35	1083.74	1088.17	1092.61		
	V	10043.7	8051.5	6723.4	5774.8	5063.4	4510.0	4067.4	2739.5	2075.6	1677.3		
	MU	15.3717	15.3778	15.3840	15.3904	15.3968	15.4034	15.4100	15.4449	15.4822	15.5221		
880.0	C*	51053.9	51159.8	51266.0	51372.3	51478.8	51585.4	51692.1	52226.7	52762.6	53299.3		
	K	28.0088	28.0432	28.0777	28.1124	28.1472	28.1822	28.2173	28.3951	28.5762	28.7605		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
	H	1098.95	1099.81	1100.67	1101.54	1102.41	1103.28	1104.15	1108.55	1112.98	1117.42		
	V	10275.5	8236.9	6877.9	5907.2	5179.2	4613.0	4160.1	2801.3	2121.9	1714.4		
900.0	MU	15.6133	15.6194	15.6256	15.6318	15.6382	15.6447	15.6513	15.6857	15.7226	15.7620		
	C*	51634.7	51739.4	51844.3	51949.4	52054.7	52160.1	52265.5	52794.1	53323.8	53854.4		
	K	28.4470	28.4811	28.5153	28.5498	28.5843	28.6190	28.6539	28.8302	29.0097	29.1923		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
	H	1123.76	1124.62	1125.48	1126.34	1127.21	1128.09	1128.96	1133.36	1137.78	1142.22		
920.0	V	10507.2	8422.3	7032.4	6039.6	5295.1	4716.0	4252.7	2863.1	2168.3	1751.5		
	MU	15.8532	15.8592	15.8654	15.8716	15.8779	15.8843	15.8908	15.9249	15.9613	16.0002		
	C*	52209.0	52312.5	52416.3	52520.2	52624.3	52728.5	52832.8	53355.4	53879.2	54403.8		
	K	28.8820	28.9159	28.9499	28.9840	29.0183	29.0528	29.0873	29.2622	29.4402	29.6212		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
940.0	H	1148.57	1149.42	1150.29	1151.15	1152.02	1152.89	1153.77	1158.17	1162.59	1167.03		
	V	10738.9	8607.6	7186.9	6172.0	5410.5	4819.0	4345.4	2924.9	2214.6	1788.5		
	MU	16.0914	16.0974	16.1035	16.1096	16.1159	16.1222	16.1287	16.1624	16.1984	16.2367		
	C*	52777.1	52879.4	52982.0	53084.8	53187.8	53290.9	53394.0	53910.9	54429.0	54947.9		
	K	29.3140	29.3476	29.3813	29.4152	29.4493	29.4835	29.5178	29.6913	29.8678	30.0473		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
960.0	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
	H	1173.37	1174.23	1175.09	1175.96	1176.83	1177.70	1178.58	1182.97	1187.40	1191.84		
	V	10970.6	8793.0	7341.3	6304.4	5526.8	4922.0	4438.1	2986.7	2261.0	1825.6		
	MU	16.3280	16.3339	16.3399	16.3460	16.3522	16.3585	16.3649	16.3982	16.4339	16.4717		
	C*	53339.1	53440.3	53541.9	53643.6	53745.4	53847.4	53949.4	54460.8	54973.3	55486.7		
	K	29.7430	29.7764	29.8099	29.8435	29.8773	29.9112	29.9453	30.1174	30.2925	30.4705		
980.0	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
	H	1198.18	1199.04	1199.90	1200.77	1201.64	1202.51	1203.38	1207.78	1212.21	1216.65		
	V	11202.3	8978.4	7495.8	6436.9	5642.7	5025.0	4530.8	3048.4	2307.3	1862.7		
	MU	16.5629	16.5688	16.5748	16.5808	16.5870	16.5932	16.5995	16.6325	16.6677	16.7051		
	C*	53895.2	53995.4	54095.9	54196.5	54297.3	54398.2	54499.2	55005.2	55512.4	56020.3		
1000.0	K	30.1691	30.2022	30.2355	30.2689	30.3025	30.3361	30.3699	30.5408	30.7145	30.8911		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
	H	1222.99	1223.84	1224.71	1225.57	1226.44	1227.32	1228.19	1232.59	1237.01	1241.45		
	V	11434.1	9163.8	7650.3	6569.3	5758.5	5127.9	4623.5	3110.2	2357.9	1899.8		
	MU	16.7963	16.8021	16.8081	16.8141	16.8201	16.8263	16.8326	16.8653	16.9001	16.9371		
1000.0	C*	54445.7	54544.9	54644.3	54743.9	54843.6	54943.5	55043.4	55544.2	56046.2	56548.9		
	K	30.5924	30.6253	30.6583	30.6915	30.7248	30.7583	30.7918	30.9614	31.1338	31.3090		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
	H	1247.79	1248.65	1249.51	1250.38	1251.25	1252.12	1253.00	1257.40	1261.82	1266.26		
	V	11665.8	9349.1	7804.8	6701.7	5874.4	5230.9	4716.2	3172.0	2400.0	1936.8		
1000.0	MU	17.0282	17.0340	17.0398	17.0458	17.0518	17.0580	17.0642	17.0965	17.1310	17.1675		
	C*	54990.6	55088.8	55187.2	55285.8	55384.6	55483.4	55582.4	56078.2	56575.1	57072.8		
	K	31.0130	31.0457	31.0785	31.1114	31.1445	31.1777	31.2110	31.3794	31.5505	31.7243		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		

ENTHALPY-H		SPECIFIC VOLUME-V	VISCOSITY-MU	SONIC VELOCITY-C*	CONDUCTIVITY-K	SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP			
BTU/LB		CUIN/LB	LB/(IN-SEC)	IN/SEC	BTU/(SEC-IN-DEG R)	10**7		BTU/(LB-DEG R)			
			10**7								
PRESSURE PSIA	TEMP/ DEG R	400.0	500.0	600.0	700.0	800.0 * HELIUM *	900.0	1000.0	1500.0	2000.0	2500.0
1000.0	H	1247.79	1248.65	1249.51	1250.38	1251.25	1252.12	1253.00	1257.40	1261.82	1266.26
	V	11665.8	9349.1	7804.8	6701.7	5874.4	5230.9	4716.2	3172.0	2400.0	1936.8
	MU	17.0282	17.0340	17.0398	17.0458	17.0518	17.0580	17.0642	17.0965	17.1310	17.1679
	C*	54990.6	55088.8	55187.2	55285.8	55384.4	55483.4	55582.4	56078.2	56575.1	57072.8
	K	31.0130	31.0457	31.0785	31.1114	31.1445	31.1777	31.2110	31.3794	31.5505	31.7243
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
1100.0	H	1371.83	1372.69	1373.55	1374.42	1375.29	1376.16	1377.04	1381.43	1385.86	1390.30
	V	12824.4	10276.0	8577.2	7363.7	6453.7	5745.9	5179.6	3481.0	2631.7	2122.2
	MU	18.1662	18.1718	18.1774	18.1831	18.1889	18.1948	18.2008	18.2317	18.2645	18.2991
	C*	57638.2	57731.8	57825.7	57919.7	58013.8	58108.1	58202.4	58675.1	59148.9	59623.4
	K	33.0771	33.1088	33.1405	33.1724	33.2044	33.2366	33.2688	33.4316	33.5968	33.7644
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
1200.0	H	1495.87	1496.73	1497.59	1498.46	1499.33	1500.20	1501.07	1505.47	1509.89	1514.34
	V	13983.0	11202.9	9349.6	8025.8	7033.0	6260.8	5643.1	3789.9	2863.5	2307.6
	MU	19.2716	19.2770	19.2824	19.2879	19.2935	19.2992	19.3050	19.3347	19.3661	19.3991
	C*	60169.4	60259.0	60348.9	60438.9	60529.0	60619.2	60709.6	61162.1	61615.7	62070.0
	K	35.0823	35.1131	35.1439	35.1749	35.2060	35.2372	35.2684	35.4263	35.5863	35.7485
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
1300.0	H	1619.91	1620.76	1621.63	1622.49	1623.36	1624.23	1625.11	1629.51	1633.93	1638.37
	V	15141.6	12129.8	10122.0	8687.8	7612.3	6775.7	6106.5	4098.9	3095.2	2493.0
	MU	20.3479	20.3531	20.3584	20.3637	20.3692	20.3747	20.3802	20.4089	20.4390	20.4707
	C*	62598.3	62684.5	62770.8	62857.3	62943.6	63030.5	63117.3	63552.1	63987.9	64424.3
	K	37.0350	37.0649	37.0949	37.1251	37.1553	37.1857	37.2161	37.3696	37.5251	37.6825
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
1400.0	H	1743.94	1744.80	1745.66	1746.53	1747.40	1748.27	1749.15	1753.54	1757.97	1762.41
	V	16300.2	13056.7	10894.4	9349.9	8191.6	7290.7	6569.9	4407.9	3326.9	2678.3
	MU	21.3980	21.4031	21.4082	21.4135	21.4187	21.4240	21.4294	21.4572	21.4863	21.5167
	C*	64936.5	65019.5	65102.7	65186.0	65269.4	65353.0	65436.6	65855.6	66275.5	66696.1
	K	38.9403	38.9695	38.9988	39.0282	39.0577	39.0873	39.1170	39.2665	39.4180	39.5711
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
1500.0	H	1867.98	1868.84	1869.70	1870.57	1871.44	1872.31	1873.18	1877.58	1882.01	1886.45
	V	17458.8	13983.5	11666.8	10012.0	8770.9	7805.6	7033.4	4716.8	3558.6	2863.7
	MU	22.4244	22.4294	22.4344	22.4395	22.4446	22.4498	22.4550	22.4819	22.5101	22.5395
	C*	67193.4	67273.5	67353.9	67434.4	67515.0	67595.7	67676.5	68081.3	68486.9	68893.2
	K	40.8027	40.8313	40.8599	40.8887	40.9175	40.9464	40.9754	41.1214	41.2691	41.4185
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
1600.0	H	1992.02	1992.87	1993.74	1994.60	1995.47	1996.35	1997.22	2001.62	2006.04	2010.48
	V	18617.4	14910.4	12439.2	10674.0	9350.2	8320.5	7496.8	5025.8	3790.3	3049.1
	MU	23.4292	23.4341	23.4390	23.4439	23.4489	23.4539	23.4590	23.4852	23.5126	23.5410
	C*	69376.9	69454.5	69532.3	69610.2	69688.3	69766.4	69844.6	70236.5	70629.3	71022.7
	K	42.6260	42.6539	42.6819	42.7101	42.7383	42.7666	42.7949	42.9377	43.0821	43.2280
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
1700.0	H	2116.05	2116.91	2117.77	2118.64	2119.51	2120.38	2121.26	2125.66	2130.08	2134.52
	V	19776.0	15837.3	13121.6	11336.1	9929.5	8835.5	7960.3	5334.7	4022.1	3234.5
	MU	24.4141	24.4188	24.4236	24.4285	24.4334	24.4383	24.4432	24.4688	24.4954	24.5230
	C*	71493.7	71569.0	71644.5	71720.1	71795.8	71871.6	71947.5	72327.7	72708.8	73090.4
	K	44.4132	44.4406	44.4681	44.4957	44.5233	44.5510	44.5788	44.7187	44.8600	45.0027
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
1800.0	H	2240.09	2240.95	2241.81	2242.68	2243.55	2244.42	2245.29	2249.69	2254.12	2258.56
	V	20934.6	16764.2	13984.0	11998.1	10508.8	9350.4	8423.7	5643.7	4253.8	3419.8
	MU	25.3806	25.3853	25.3900	25.3947	25.3995	25.4043	25.4092	25.4341	25.4600	25.4869
	C*	73549.6	73622.8	73696.2	73769.7	73843.3	73916.9	73990.7	74360.1	74730.5	75101.3
	K	46.1672	46.1941	46.2211	46.2481	46.2753	46.3025	46.3297	46.4669	46.6054	46.7452
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
1900.0	H	2364.13	2364.99	2365.85	2366.71	2367.58	2368.46	2369.33	2373.73	2378.15	2382.59
	V	22093.2	17691.1	14756.4	12660.2	11088.1	9865.3	8887.1	5952.7	4485.5	3605.2
	MU	26.3302	26.3349	26.3393	26.3439	26.3486	26.3533	26.3581	26.3825	26.4078	26.4340
	C*	75549.7	75620.7	75692.3	75763.8	75835.4	75907.1	75978.9	76338.5	76699.0	77060.0
	K	47.8904	47.9168	47.9433	47.9699	47.9966	48.0233	48.0500	48.1847	48.3206	48.4578
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
2000.0	H	2488.16	2489.02	2489.88	2490.75	2491.62	2492.49	2493.37	2497.77	2502.19	2506.63
	V	23251.8	18617.9	15528.8	13322.2	11667.4	10380.3	9350.6	6261.6	4717.2	3790.6
	MU	27.2638	27.2683	27.2728	27.2774	27.2819	27.2866	27.2912	27.3151	27.3398	27.3654
	C*	77498.1	77567.5	77637.1	77706.8	77776.6	77846.5	77916.5	78267.0	78618.3	78970.1
	K	49.5849	49.6109	49.6370	49.6631	49.6893	49.7155	49.7418	49.8742	50.0077	50.1424
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404

ENTHALPY-H BTU/LB		SPECIFIC VOLUME-V CUIN/LB		VISCOSITY-MU LB/(IN-SEC) 10**7		SONIC VELOCITY-C* IN/SEC		CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP BTU/(LB-DEG R)	
PRESSURE PSIA		400.0	500.0	600.0	700.0	800.0	900.0	1000.0	1500.0	2000.0	2500.0		
TEMP/ DEG R		* HELIUM *											
2000.0	H	2488.16	2489.02	2489.88	2490.75	2491.62	2492.49	2493.37	2497.77	2502.19	2506.63		
	V	23251.8	18617.9	15528.8	13322.2	11667.4	10380.3	9350.6	6261.6	4717.2	3790.6		
	MU	27.2638	27.2683	27.2728	27.2774	27.2819	27.2866	27.2912	27.3151	27.3398	27.3654		
	C*	77498.1	77567.5	77637.1	77706.8	77776.6	77846.5	77916.5	78267.0	78618.3	78970.1		
	K	49.5849	49.6109	49.6370	49.6631	49.6893	49.7155	49.7418	49.8742	50.0077	50.1424		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
2100.0	H	2612.20	2613.06	2613.92	2614.79	2615.66	2616.53	2617.41	2621.80	2626.23	2630.67		
	V	24410.4	19544.8	16301.2	13984.3	12246.7	10895.2	9814.0	6570.6	4948.9	3976.0		
	MU	28.1827	28.1871	28.1915	28.1960	28.2005	28.2050	28.2096	28.2330	28.2572	28.2822		
	C*	79398.7	79466.5	79534.4	79602.4	79670.5	79738.7	79807.0	80149.1	80491.9	80835.3		
	K	51.2526	51.2782	51.3038	51.3295	51.3553	51.3811	51.4070	51.5371	51.6685	51.8008		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
2200.0	H	2736.24	2737.10	2737.96	2738.83	2739.70	2740.57	2741.44	2745.84	2750.26	2754.71		
	V	25569.0	20471.7	17073.6	14646.4	12826.0	11410.1	10277.5	6879.5	5180.7	4161.3		
	MU	29.6876	29.6920	29.6963	29.7007	29.7051	29.7096	29.7141	29.7371	29.7608	29.7853		
	C*	81254.9	81321.1	81387.4	81453.9	81520.5	81587.1	81653.8	81988.0	82323.0	82658.4		
	K	52.8951	52.9203	52.9455	52.9709	52.9962	53.0217	53.0472	53.1753	53.3045	53.4347		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
2300.0	H	2860.28	2861.13	2862.00	2862.86	2863.73	2864.60	2865.48	2869.88	2874.30	2878.74		
	V	26727.6	21398.6	17846.0	15308.4	13405.3	11925.1	10740.9	7188.5	5412.4	4346.7		
	MU	29.9795	29.9838	29.9881	29.9924	29.9968	30.0012	30.0056	30.0281	30.0514	30.0754		
	C*	83069.6	83134.4	83199.3	83264.3	83329.4	83394.5	83459.8	83786.6	84114.2	84442.3		
	K	54.5140	54.5388	54.5637	54.5886	54.6136	54.6387	54.6638	54.7900	54.9173	55.0455		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
2400.0	H	2984.31	2985.17	2986.03	2986.90	2987.77	2988.64	2989.52	2993.91	2998.34	3002.78		
	V	27886.2	22325.5	18618.4	15970.5	13984.6	12440.0	11204.3	7497.5	5644.1	4532.1		
	MU	30.8591	30.8633	30.8676	30.8718	30.8761	30.8804	30.8848	30.9069	30.9298	30.9534		
	C*	84845.5	84908.9	84972.4	85036.1	85099.8	85163.6	85227.5	85547.4	85868.1	86189.3		
	K	56.1105	56.1350	56.1595	56.1841	56.2088	56.2335	56.2582	56.3827	56.5081	56.6344		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
2500.0	H	3108.35	3109.21	3110.07	3110.94	3111.81	3112.68	3113.55	3117.95	3122.38	3126.82		
	V	29044.8	23252.3	19390.8	16637.5	14563.9	12954.9	11667.8	7806.4	5875.8	4717.5		
	MU	31.7271	31.7312	31.7354	31.7396	31.7438	31.7481	31.7523	31.7742	31.7966	31.8198		
	C*	86585.0	86647.1	86709.4	86771.7	86834.2	86896.7	86959.2	87272.7	87587.0	87901.6		
	K	57.6860	57.7101	57.7343	57.7586	57.7829	57.8073	57.8317	57.9544	58.0781	58.2027		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
2600.0	H	3232.39	3233.24	3234.11	3234.97	3235.84	3236.72	3237.59	3241.99	3246.41	3250.85		
	V	30203.4	24179.2	20163.2	17294.6	15143.2	13469.9	12131.2	8115.4	6107.5	4902.9		
	MU	32.5840	32.5881	32.5922	32.5963	32.6005	32.6047	32.6089	32.6304	32.6525	32.6752		
	C*	88290.3	88351.2	88412.2	88473.3	88534.6	88595.9	88657.2	88964.6	89272.7	89581.3		
	K	59.2414	59.2652	59.2892	59.3131	59.3371	59.3612	59.3853	59.5064	59.6285	59.7513		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
2700.0	H	3356.42	3357.28	3358.14	3359.01	3359.88	3360.75	3361.63	3366.03	3370.45	3374.89		
	V	31362.0	25106.1	20935.6	17956.6	15722.5	13984.8	12594.7	8424.3	6339.3	5088.2		
	MU	33.4304	33.4344	33.4385	33.4426	33.4467	33.4508	33.4550	33.4762	33.4979	33.5203		
	C*	89963.2	90022.9	90082.8	90142.8	90202.9	90263.1	90323.3	90624.9	90927.3	91230.1		
	K	60.7779	60.8014	60.8250	60.8487	60.8724	60.8962	60.9200	61.0396	61.1601	61.2813		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
2800.0	H	3480.46	3481.32	3482.18	3483.05	3483.92	3484.79	3485.66	3490.06	3494.49	3498.93		
	V	32520.6	26033.0	21708.0	18618.7	16301.8	14499.7	13058.1	8733.3	6571.0	5273.6		
	MU	34.2669	34.2709	34.2749	34.2789	34.2829	34.2870	34.2911	34.3120	34.3335	34.3555		
	C*	91605.6	91664.2	91723.1	91782.0	91841.0	91900.0	91959.2	92255.4	92552.3	92849.6		
	K	62.2963	62.3195	62.3429	62.3663	62.3897	62.4132	62.4367	62.5549	62.6738	62.7936		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
2900.0	H	3604.50	3605.36	3606.22	3607.08	3607.95	3608.83	3609.70	3614.10	3618.52	3622.96		
	V	33679.2	26955.9	22480.4	19280.8	16881.1	15014.7	13521.5	9042.3	6802.7	5459.0		
	MU	35.0938	35.0978	35.1017	35.1057	35.1097	35.1137	35.1178	35.1384	35.1595	35.1812		
	C*	93219.0	93276.7	93334.5	93392.3	93450.3	93508.4	93566.5	93857.5	94149.3	94441.4		
	K	63.7974	63.8204	63.8435	63.8666	63.8898	63.9130	63.9363	64.0530	64.1706	64.2880		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		
3000.0	H	3728.53	3729.39	3730.25	3731.12	3731.99	3732.86	3733.74	3738.14	3742.56	3747.00		
	V	34837.8	27886.7	23252.8	19942.8	17460.4	15529.6	13985.0	9351.2	7034.4	5644.4		
	MU	35.9117	35.9156	35.9195	35.9235	35.9274	35.9314	35.9354	35.9557	35.9766	35.9980		
	C*	94805.0	94861.7	94918.5	94975.4	95032.4	95089.5	95146.6	95432.8	95719.6	96006.9		
	K	65.2822	65.3049	65.3277	65.3506	65.3735	65.3965	65.4195	65.5349	65.6512	65.7681		
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670		
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404		

ENTHALPY-H BTU/LB		SPECIFIC VOLUME-V CUIN/LB	VISCOSITY-MU LB/(IN-SEC) 10**7	SONIC VELOCITY-C* IN/SEC	CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7	SPECIFIC HEAT-RATIO-GA	SPECIFIC HEAT-CP BTU/(LB-DEG R)				
PRESSURE PSIA		400.0	500.0	600.0	700.0	800.0	900.0	1000.0	1500.0	2000.0	2500.0
TEMP/ DEG R						* HELIUM *					
3000.0	H	3776.53	3729.39	3730.25	3731.12	3731.99	3732.86	3733.74	3738.14	3742.56	3747.00
	V	34837.8	27886.7	23252.8	19942.8	17460.4	15529.6	13985.0	9351.2	7034.4	5644.4
	MU	35.5117	35.9156	35.9195	35.9235	35.9274	35.9314	35.9354	35.9557	35.9766	35.9980
	C*	9485.0	94861.7	94918.5	94975.4	95032.4	95089.5	95146.6	95432.8	95719.6	96006.9
	K	65.2822	65.3049	65.3277	65.3506	65.3735	65.3965	65.4195	65.5349	65.6512	65.7681
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
3100.0	H	3852.57	3853.43	3854.29	3855.16	3856.03	3856.90	3857.78	3862.17	3866.60	3871.04
	V	35966.4	28813.6	24025.2	20604.9	18039.7	16044.5	14448.4	9660.2	7266.1	5829.7
	MU	36.7210	36.7248	36.7287	36.7325	36.7365	36.7404	36.7443	36.7644	36.7850	36.8061
	C*	96364.9	96420.7	96476.6	96532.5	96588.6	96644.8	96700.9	96982.5	97264.6	97547.2
	K	66.7512	66.7737	66.7963	66.8189	66.8415	66.8642	66.8870	67.0012	67.1162	67.2318
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
3200.0	H	3976.61	3977.47	3978.33	3979.20	3980.07	3980.94	3981.81	3986.21	3990.63	3995.08
	V	37155.0	29740.5	24797.6	21266.9	18619.0	16559.5	14911.9	9969.1	7497.9	6015.1
	MU	37.5219	37.5257	37.5295	37.5333	37.5372	37.5411	37.5450	37.5648	37.5852	37.6060
	C*	97899.9	97954.8	98009.8	98064.9	98120.1	98175.4	98230.7	98507.8	98785.5	99063.6
	K	68.2051	68.2274	68.2497	68.2721	68.2946	68.3170	68.3395	68.4526	68.5663	68.6807
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
3300.0	H	4100.65	4101.50	4102.37	4103.23	4104.10	4104.97	4105.85	4110.25	4114.67	4119.11
	V	38313.6	30667.4	25570.0	21929.0	19198.3	17074.4	15375.3	10278.1	7729.6	6200.5
	MU	38.3148	38.3186	38.3224	38.3262	38.3300	38.3338	38.3377	38.3573	38.3774	38.3979
	C*	99411.3	99465.3	99519.5	99573.8	99628.1	99682.5	99737.0	100009.8	100283.3	100557.2
	K	69.6446	69.6667	69.6888	69.7110	69.7332	69.7554	69.7777	69.8896	70.0021	70.1153
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
3400.0	H	4224.68	4225.54	4226.40	4227.27	4228.14	4229.01	4229.89	4234.28	4238.71	4243.15
	V	39472.2	31594.3	26342.4	22591.0	19777.6	17589.3	15838.7	10587.1	7961.3	6385.9
	MU	39.1001	39.1038	39.1076	39.1113	39.1151	39.1189	39.1228	39.1422	39.1620	39.1823
	C*	100900.0	100953.2	101006.6	101060.1	101113.6	101167.2	101220.9	101489.7	101759.1	102028.9
	K	71.0702	71.0921	71.1140	71.1360	71.1579	71.1800	71.2020	71.3128	71.4242	71.5363
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
3500.0	H	4348.72	4349.58	4350.44	4351.31	4352.18	4353.05	4353.92	4358.32	4362.75	4367.19
	V	40630.8	32521.1	27114.8	23253.1	20356.9	18104.3	16302.2	10896.0	8193.0	6571.2
	MU	39.8781	39.8817	39.8854	39.8892	39.8929	39.8967	39.9005	39.9197	39.9393	39.9593
	C*	102367.0	102419.5	102472.1	102524.8	102577.6	102630.4	102683.3	102948.2	103213.8	103479.7
	K	72.4825	72.5042	72.5259	72.5476	72.5694	72.5912	72.6131	72.7228	72.8332	72.9441
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
3600.0	H	4472.76	4473.61	4474.48	4475.34	4476.21	4477.09	4477.96	4482.36	4486.78	4491.22
	V	41789.4	33448.0	27887.2	23915.7	20936.2	18619.2	16765.6	11205.0	8424.7	6756.6
	MU	40.6489	40.6526	40.6562	40.6599	40.6636	40.6674	40.6711	40.6901	40.7095	40.7293
	C*	103813.4	103865.1	103917.0	103968.9	104021.0	104073.1	104125.2	104386.4	104648.3	104910.5
	K	73.8820	73.9035	73.9250	73.9465	73.9681	73.9897	74.0114	74.1201	74.2294	74.3393
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
3700.0	H	4596.79	4597.65	4598.51	4599.38	4600.25	4601.12	4602.00	4606.40	4610.82	4615.26
	V	42948.4	34374.9	28659.6	24577.2	21515.5	19134.1	17229.1	11513.9	8656.5	6942.0
	MU	41.4130	41.4166	41.4202	41.4239	41.4276	41.4312	41.4350	41.4537	41.4730	41.4925
	C*	105239.8	105290.9	105342.0	105393.3	105444.6	105496.0	105547.4	105805.1	106063.4	106322.0
	K	75.2691	75.2904	75.3117	75.3330	75.3544	75.3759	75.3973	75.5050	75.6134	75.7222
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
3800.0	H	4720.83	4721.69	4722.55	4723.42	4724.29	4725.16	4726.03	4730.43	4734.86	4739.30
	V	44106.6	35301.8	29432.0	25239.3	22094.8	19649.1	17692.5	11822.9	8888.2	7127.4
	MU	42.1704	42.1740	42.1776	42.1812	42.1848	42.1885	42.1922	42.2108	42.2298	42.2492
	C*	106647.2	106697.6	106748.1	106798.6	106849.3	106900.0	106950.7	107205.0	107459.8	107715.0
	K	76.6443	76.6654	76.6865	76.7077	76.7289	76.7501	76.7714	76.8782	76.9855	77.0934
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
3900.0	H	4844.87	4845.73	4846.59	4847.45	4848.32	4849.20	4850.07	4854.47	4858.89	4863.33
	V	45265.2	36228.7	30204.4	25901.3	22674.1	20164.0	18155.9	12131.9	9119.9	7312.7
	MU	42.9216	42.9251	42.9287	42.9323	42.9359	42.9395	42.9431	42.9616	42.9804	42.9996
	C*	108036.3	108086.0	108135.8	108185.7	108235.7	108285.8	108335.8	108586.8	108838.4	109090.3
	K	78.0080	78.0289	78.0498	78.0708	78.0918	78.1129	78.1340	78.2398	78.3463	78.4532
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
4000.0	H	4968.90	4969.76	4970.62	4971.49	4972.36	4973.23	4974.11	4978.51	4982.93	4987.37
	V	46423.8	37155.5	30976.8	26563.4	23253.4	20678.9	18619.4	12440.8	9351.6	7498.1
	MU	43.6665	43.6701	43.6736	43.6772	43.6807	43.6843	43.6879	43.7062	43.7248	43.7438
	C*	109407.7	109456.8	109506.0	109555.7	109604.6	109654.0	109703.5	109951.3	110199.7	110448.5
	K	79.3605	79.3812	79.4020	79.4228	79.4437	79.4646	79.4855	79.5905	79.6960	79.8020
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
	CP	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404

ENTHALPY-H BTU/LB		SPECIFIC VOLUME-V CUIN/LB		VISCOSITY-MU LB/(IN-SEC) 10**7		SOUND VELOCITY-C* IN/SEC		CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP BTU/(LB-DEG R)									
PRESSURE PSIA		400.0		500.0		600.0		700.0		800.0		900.0		1000.0		1500.0		2000.0		2500.0	
TEMP/ DEG R										* HELIUM *											
4000.0	H	4568.90	4569.76	4970.62	4971.49	4972.36	4973.23	4974.11	4974.91	4975.78	4976.65	4977.51	4978.38	4979.25	4980.12	4981.00	4981.87	4982.75	4983.62	4984.50	4985.37
	V	46423.3	37155.5	30976.8	25533.4	23253.4	20678.1	18619.4	16447.8	14247.8	12447.8	10947.8	9547.8	8347.8	7347.8	6547.8	5847.8	5247.8	4747.8	4247.8	3847.8
	MU	43.6665	43.6701	43.6736	43.6772	43.6807	43.6843	43.6879	43.6915	43.6951	43.6987	43.7023	43.7059	43.7095	43.7131	43.7167	43.7203	43.7239	43.7275	43.7311	43.7347
	C*	109407.7	109456.8	109506.0	109555.2	109604.6	109654.0	109703.5	109753.1	109802.6	109852.2	109901.7	109951.3	110000.9	110050.5	110100.1	110149.7	110199.3	110248.9	110298.5	110348.1
	K	79.3605	79.3812	79.4020	79.4228	79.4437	79.4646	79.4855	79.5064	79.5273	79.5482	79.5691	79.5900	79.6109	79.6318	79.6527	79.6736	79.6945	79.7154	79.7363	79.7572
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
CP		1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
4100.0	H	5092.94	5093.80	5094.66	5095.53	5096.40	5097.27	5098.15	5099.02	5099.89	5100.76	5101.63	5102.50	5103.37	5104.24	5105.11	5105.98	5106.85	5107.72	5108.59	5109.46
	V	47582.4	39082.4	31749.2	27225.4	23832.7	21193.9	19082.8	17499.8	16149.8	14949.8	13849.8	12849.8	11949.8	11149.8	10449.8	9849.8	9349.8	8849.8	8349.8	7849.8
	MU	44.4056	44.4091	44.4126	44.4161	44.4197	44.4232	44.4268	44.4304	44.4340	44.4376	44.4412	44.4448	44.4484	44.4520	44.4556	44.4592	44.4628	44.4664	44.4700	44.4736
	C*	110762.1	110810.6	110859.2	110907.9	110956.6	111005.4	111054.3	111103.1	111152.0	111200.9	111249.8	111298.7	111347.6	111396.5	111445.4	111494.3	111543.2	111592.1	111641.0	111689.9
	K	80.7023	80.7228	80.7434	80.7641	80.7848	80.8055	80.8263	80.8470	80.8678	80.8886	80.9094	80.9302	80.9510	80.9718	80.9926	81.0134	81.0342	81.0550	81.0758	81.0966
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
CP		1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
4200.0	H	5216.99	5217.84	5218.70	5219.57	5220.44	5221.31	5222.18	5223.05	5223.92	5224.79	5225.66	5226.53	5227.40	5228.27	5229.14	5230.01	5230.88	5231.75	5232.62	5233.49
	V	48741.0	39009.3	32521.6	27887.4	24412.0	21708.8	19546.3	17858.7	16449.8	15199.8	14049.8	13058.7	12149.8	11349.8	10649.8	10049.8	9549.8	9049.8	8549.8	8049.8
	MU	45.1389	45.1424	45.1459	45.1494	45.1529	45.1564	45.1599	45.1634	45.1669	45.1704	45.1739	45.1774	45.1809	45.1844	45.1879	45.1914	45.1949	45.1984	45.2019	45.2054
	C*	112100.2	112148.1	112196.1	112244.2	112292.4	112340.6	112388.9	112437.1	112485.4	112533.7	112582.0	112630.3	112678.6	112726.9	112775.2	112823.5	112871.8	112920.1	112968.4	113016.7
	K	82.0336	82.0540	82.0745	82.0950	82.1155	82.1361	82.1566	82.1772	82.1978	82.2184	82.2390	82.2596	82.2802	82.3008	82.3214	82.3420	82.3626	82.3832	82.4038	82.4244
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
CP		1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
4300.0	H	5341.02	5341.87	5342.74	5343.60	5344.47	5345.34	5346.22	5347.09	5347.96	5348.83	5349.70	5350.57	5351.44	5352.31	5353.18	5354.05	5354.92	5355.79	5356.66	5357.53
	V	49899.6	39936.2	33294.0	28549.6	24991.3	22223.7	20009.7	18367.7	16949.8	15649.8	14449.8	13349.8	12349.8	11449.8	10649.8	9949.8	9349.8	8749.8	8149.8	7549.8
	MU	45.8667	45.8701	45.8735	45.8770	45.8805	45.8840	45.8875	45.8910	45.8945	45.8980	45.9015	45.9050	45.9085	45.9120	45.9155	45.9190	45.9225	45.9260	45.9295	45.9330
	C*	113422.4	113469.8	113517.3	113564.8	113612.4	113660.1	113707.9	113755.6	113803.4	113851.2	113899.0	113946.8	113994.6	114042.4	114090.2	114138.0	114185.8	114233.6	114281.4	114329.2
	K	83.3549	83.3754	83.3959	83.4164	83.4369	83.4574	83.4779	83.4984	83.5189	83.5394	83.5599	83.5804	83.6009	83.6214	83.6419	83.6624	83.6829	83.7034	83.7239	83.7444
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
CP		1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
4400.0	H	5465.05	5465.91	5466.77	5467.64	5468.51	5469.38	5470.26	5471.13	5472.00	5472.87	5473.74	5474.61	5475.48	5476.35	5477.22	5478.09	5478.96	5479.83	5480.70	5481.57
	V	51058.2	40863.1	34066.4	29211.6	25570.6	22738.7	20473.1	18676.7	17149.8	15849.8	14649.8	13549.8	12549.8	11649.8	10849.8	10149.8	9549.8	8949.8	8349.8	7749.8
	MU	46.5890	46.5924	46.5958	46.5993	46.6027	46.6062	46.6097	46.6132	46.6167	46.6202	46.6237	46.6272	46.6307	46.6342	46.6377	46.6412	46.6447	46.6482	46.6517	46.6552
	C*	114729.5	114776.3	114823.2	114870.2	114917.3	114964.4	115011.6	115058.7	115105.9	115153.1	115200.3	115247.5	115294.7	115341.9	115389.1	115436.3	115483.5	115530.7	115577.9	115625.1
	K	84.6664	84.6865	84.7066	84.7268	84.7470	84.7673	84.7875	84.8078	84.8281	84.8484	84.8687	84.8890	84.9093	84.9296	84.9499	84.9702	84.9905	85.0108	85.0311	85.0514
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
CP		1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404
4500.0	H	5585.09	5585.95	5586.81	5587.68	5588.55	5589.42	5590.29	5591.16	5592.03	5592.90	5593.77	5594.64	5595.51	5596.38	5597.25	5598.12	5598.99	5599.86	5600.73	5601.60
	V	52216.8	41789.9	34838.8	29873.7	26149.9	23253.6	20936.6	18985.6	17349.8	15949.8	14649.8	13449.8	12349.8	11349.8	10449.8	9649.8	8949.8	8249.8	7549.8	6849.8
	MU	47.3061	47.3095	47.3129	47.3163	47.3198	47.3232	47.3267	47.3302	47.3337	47.3372	47.3407	47.3442	47.3477	47.3512	47.3547	47.3582	47.3617	47.3652	47.3687	47.3722
	C*	116021.8	116068.1	116114.5	116161.0	116207.5	116254.1	116300.7	116347.3	116393.9	116440.5	116487.1	116533.7	116580.3	116626.9	116673.5	116720.1	116766.7	116813.3	116859.9	116906.5
	K	85.9683	85.9883	86.0083	86.0283	86.0484	86.0685	86.0886	86.1087	86.1288	86.1489	86.1690	86.1891	86.2092	86.2293	86.2494	86.2695	86.2896	86.3097	86.3298	86.3499
	GA	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670	1.6670
CP		1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404	1.2404

APPENDIX B

DETAILS OF THE NUMERICAL METHOD USED FOR NITROGEN PROPERTIES

Computations in the temperature range below 900°R are based on an equation of state given in Reference 6. This equation of state was developed to be used in the temperature range from 114 to 540°R and pressure range from 1.0 to 3000 psia; however, the equation was found to be adequate for the representation of the P-V-T data and for the calculation of derived thermodynamic properties up to 900°R. The equation is

$$\begin{aligned}
 P = & RT\rho + A\rho^2 + \left[B + C \exp(n_{16}\rho^2) \right] \rho^3 \\
 & + D\rho^5 \exp(n_{16}\rho^2) + E\rho^4 + n_{15}\rho^6 \quad *
 \end{aligned}
 \tag{1B}$$

where,

$$A = Rn_1T + n_2 + \frac{n_3}{T} + \frac{n_4}{T^2} + \frac{n_5}{T^4}$$

$$B = Rn_6T + n_7$$

$$C = \frac{n_9}{T^2} + \frac{n_{10}}{T^3} + \frac{n_{11}}{T^4}$$

$$D = \frac{n_{12}}{T^2} + \frac{n_{13}}{T^3} + \frac{n_{14}}{T^4}$$

$$E = n_8T$$

* Refer to list of symbols at end of appendices for nomenclature.

The enthalpy in the ideal state is calculated from

$$H_T^o = H^* + \int_{T_o}^T C_p^o(T) dT \quad (2B)$$

where the specific heat is represented by¹⁰

$$C_p^o(T) = M_1 + M_2 T + M_3 T^2 + M_4 T^3 + M_5 T^4 \quad (3B)$$

The enthalpy for the real fluid can then be expressed as

$$H(\rho, T) = H_T^o + \int_o^\rho \left[\frac{P}{\rho^2} - \frac{T}{\rho^2} \left(\frac{\partial P}{\partial T} \right)_\rho \right] d\rho \quad (4B)$$

or

$$\begin{aligned} H(\rho, T) = & H_T^o + \left[n_2 + \frac{2n_3}{T} + \frac{3n_4}{T^2} + \frac{5n_5}{T^4} \right] \rho + \frac{n_7 \rho^2}{2} \\ & + \left[\frac{3n_9}{T^2} + \frac{4n_{10}}{T^3} + \frac{5n_{11}}{T^4} \right] \frac{[\exp(n_{16} \rho^2) - 1]}{2n_{16}} \\ & + \left[\frac{3n_{12}}{T^2} + \frac{4n_{13}}{T^3} + \frac{5n_{14}}{T^4} \right] \frac{[\exp(n_{16} \rho^2) (n_{16} \rho^2 - 1) + 1]}{2n_{16}^2} \\ & + \frac{n_{15}}{5} \rho^5 + \frac{P}{\rho} - RT \end{aligned} \quad (5B)$$

The ideal specific heat at constant volume is

$$C_v^o = C_p^o - R \quad (6B)$$

The real gas effects on specific heat at constant volume can be determined from

$$C_v(\rho, T) = C_v^o + \int_0^\rho \frac{T}{\rho^2} \left(\frac{\partial^2 P}{\partial T^2} \right)_\rho d\rho \quad (7B)$$

or

$$\begin{aligned} C_v(\rho, T) = C_v^o &+ \left[\frac{2n_3}{T^2} + \frac{6n_4}{T^3} + \frac{20n_5}{T^5} \right] \rho \\ &+ \left[\frac{6n_9}{T^3} + \frac{12n_{10}}{T^4} + \frac{20n_{11}}{T^5} \right] \frac{\left[\exp(n_{16}\rho^2) - 1 \right]}{2n_{16}} \\ &+ \left[\frac{6n_{12}}{T^3} + \frac{12n_{13}}{T^4} + \frac{20n_{14}}{T^5} \right] \frac{\left[\exp(n_{16}\rho^2)(n_{16}\rho^2 - 1) + 1 \right]}{2n_{16}^2} \end{aligned} \quad (8B)$$

Then the real specific heat at constant pressure is

$$C_p(\rho, T) = C_v(\rho, T) + \frac{T \left(\frac{\partial P}{\partial T} \right)_\rho^2}{\rho^2 \left(\frac{\partial P}{\partial \rho} \right)_T} \quad (9B)$$

The sonic velocity may be determined from

$$C^* = \sqrt{g \frac{C_p}{C_v} \left(\frac{\partial P}{\partial \rho} \right)_T} \quad (10B)$$

The low pressure viscosity in the temperature range below critical temperature is calculated from the following equation¹⁹

$$\mu^o = \mu_c \left(\frac{T}{T_c} \right)^{0.979} \quad (11B)$$

where μ_c^o is the viscosity at critical temperature and atmospheric pressure. For temperatures greater than $3.5 T_c$ the following equation¹⁹ is used:

$$\mu^o = 1.196 \mu_c \left(\frac{T}{T_c} \right)^{0.659} \quad (12B)$$

The viscosity in the temperature range from critical temperature to 3.5 times critical temperature is determined from an empirical equation developed by the author

$$\begin{aligned} \mu^o = & -7.77045 \times 10^{-7} + 8.61242 \times 10^{-8} T - 1.01262 \\ & \times 10^{-10} T^2 + 7.07404 \times 10^{-14} T^3 \end{aligned} \quad (13B)$$

The real fluid viscosity is obtained by applying corrections that are functions of temperature and density. The form of the equation is that developed by Diller.⁸

$$\mu = \mu^o + A(\rho) \exp(B(\rho)/T) \quad (14B)$$

where

$$\ln A(\rho) = 3.4664 + \ln \rho + 2.0557 \rho^{1.5} - 6.0 \times 10^{-6} \exp(12.72 \rho) \quad (15B)$$

$$B(\rho) = 37.8978 + 27.2864 \left[\left(\frac{\rho}{0.7} \right)^6 - \left(\frac{\rho}{0.7} \right)^{1.5} \right] - 66.8138 \exp(-58.75 \rho) \quad (16B)$$

The low pressure thermal conductivity is computed from an empirical equation given in Reference 18 for temperatures less than 540°R.

$$k^o = \frac{0.604 \times 10^{-5} \sqrt{T}}{1 + \frac{244. \times 10}{T} \left(\frac{-12}{T} \right)} \quad (17B)$$

and for temperatures from 540 to 1683°R the following equation is used

$$k^o = 2.32 \times 10^{-5} + 2.24 \times 10^{-7} T - 8.92 \times 10^{-11} T^2 + 1.52 \times 10^{-14} T^3 \quad (18B)$$

above 1683°R the Bromley²⁰ equation is used

$$k^o = \left(1.32 C_v + 0.12135 - 0.025 T/T_c \right) \mu_o$$

The following equation developed by the author is used to approximate the real gas effects on the thermal conductivity:

$$k = k^o + 3.2 \times 10^{-6} A(\rho) + 0.430011 \times 10^{-5} \frac{\rho}{T} + 0.719307 \times 10^{-2} \left(\frac{\rho}{T} \right)^2 - 0.101028 \left(\frac{\rho}{T} \right)^3 + 0.493798 \left(\frac{\rho}{T} \right)^4 - 1.0305 \left(\frac{\rho}{T} \right)^5 + 0.78894 \left(\frac{\rho}{T} \right)^6 \quad (19B)$$

where $A(\rho)$ is defined in Equation 15B.

TABLE 5

TABULATION OF PROPERTY VALUES OF NITROGEN IN THE TEMPERATURE RANGE
FROM 120 TO 4500°R AND PRESSURE RANGE FROM 14.7 TO 2500 PSIA

B-7

B-8

ENTHALPY-H BTU/LB		SPECIFIC VOLUME-V CUIN/LB		VISCOSITY-MU LB/(IN-SEC) 1000*		SOUND VELOCITY-C* IN/SEC		CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 1000*		SPECIFIC HEAT-RATIO-GA		SPECIFIC HEAT-CP BTU/(LB-DEG R)									
PRESSURE PSIA		14.7		25.0		50.0		75.0		100.0		150.0		200.0		250.0		300.0		350.0	
TEMP/ DEG R										NITROGEN											
300.0	H	138.98	138.78	138.27	137.75	137.22	136.18	135.10	134.01	132.89	131.75										
	V	13457.0	7887.7	3916.0	2592.0	1529.5	1267.8	936.5	737.7	605.1	510.3										
	MU	6.2313	6.2455	6.2801	6.3154	6.3512	6.4250	6.5019	6.5823	6.6669	6.7566										
	C*	10344.3	10332.5	10304.2	10276.3	10248.7	10194.7	10142.7	10093.1	10046.3	10002.8										
	K	2.0537	2.0623	2.0836	2.1058	2.1287	2.1772	2.2294	2.2854	2.3455	2.4100										
	GA	1.4072	1.4122	1.4246	1.4375	1.4509	1.4792	1.5097	1.5427	1.5783	1.6168										
	CP	.2499	.2512	.2544	.2577	.2612	.2684	.2762	.2845	.2934	.3030										
310.0	H	141.48	141.29	140.81	140.32	139.84	138.85	137.85	136.83	135.80	134.75										
	V	13911.7	8156.7	4052.7	2684.6	1590.6	1316.5	974.2	768.9	632.0	534.2										
	MU	6.4109	6.4247	6.4583	6.4925	6.5272	6.5983	6.6721	6.7489	6.8292	6.9137										
	C*	10517.7	10507.5	10481.0	10458.9	10435.2	10389.1	10345.2	10303.6	10265.0	10229.5										
	K	2.1174	2.1257	2.1462	2.1675	2.1894	2.2355	2.2848	2.3374	2.3933	2.4529										
	GA	1.4067	1.4112	1.4226	1.4343	1.4464	1.4710	1.4990	1.5280	1.5591	1.5922										
	CP	.2497	.2509	.2538	.2569	.2600	.2665	.2734	.2808	.2886	.2969										
320.0	H	143.98	143.75	143.34	142.89	142.43	141.51	140.57	139.62	138.66	137.69										
	V	14366.0	8425.4	4189.0	2776.9	1670.8	1364.7	1011.6	799.7	658.5	557.6										
	MU	6.5883	6.6017	6.6344	6.6675	6.7012	6.7699	6.8409	6.9145	6.9910	7.0710										
	C*	10688.2	10679.4	10658.3	10637.6	10617.3	10578.2	10541.3	10506.9	10475.2	10446.7										
	K	2.1809	2.1888	2.2086	2.2290	2.2500	2.2940	2.3407	2.3902	2.4426	2.4981										
	GA	1.4062	1.4103	1.4207	1.4314	1.4424	1.4654	1.4898	1.5156	1.5429	1.5719										
	CP	.2496	.2507	.2534	.2561	.2590	.2649	.2711	.2776	.2845	.2918										
330.0	H	146.47	146.30	145.87	145.45	145.02	144.15	143.27	142.35	141.49	140.58										
	V	14820.0	8693.8	4325.1	2868.8	1740.7	1412.6	1048.6	830.1	684.5	580.5										
	MU	6.7635	6.7765	6.8084	6.8406	6.8732	6.9397	7.0082	7.0789	7.1521	7.2282										
	C*	10855.9	10848.3	10830.3	10812.6	10795.4	10762.5	10731.8	10703.6	10678.0	10655.5										
	K	2.2439	2.2517	2.2708	2.2904	2.3106	2.3526	2.3970	2.4439	2.4933	2.5452										
	GA	1.4057	1.4096	1.4191	1.4289	1.4389	1.4618	1.4858	1.5109	1.5293	1.5548										
	CP	.2495	.2505	.2529	.2553	.2581	.2634	.2690	.2749	.2810	.2874										
340.0	H	148.97	148.80	148.40	148.00	147.59	146.78	145.95	145.12	144.28	143.44										
	V	15273.3	8961.9	4460.8	2960.5	1760.3	1461.2	1085.1	860.2	710.2	603.1										
	MU	6.9265	6.9493	6.9805	7.0116	7.0433	7.1177	7.1739	7.2420	7.3123	7.3850										
	C*	11020.9	11014.5	10999.1	10984.2	10969.8	10942.4	10917.3	10894.6	10874.3	10857.0										
	K	2.3067	2.3142	2.3327	2.3516	2.3710	2.4113	2.4537	2.4982	2.5449	2.5938										
	GA	1.4053	1.4088	1.4176	1.4266	1.4359	1.4549	1.4749	1.4957	1.5175	1.5402										
	CP	.2493	.2503	.2520	.2540	.2573	.2622	.2673	.2725	.2781	.2838										
350.0	H	151.46	151.30	150.87	150.44	150.16	149.39	148.62	147.84	147.05	146.26										
	V	15727.3	9229.8	4596.3	3051.8	1799.6	1497.5	1121.4	889.9	735.6	625.3										
	MU	7.1076	7.1200	7.1537	7.1876	7.2214	7.2740	7.3381	7.4038	7.4714	7.5411										
	C*	11183.4	11178.0	11165.1	11152.7	11140.7	11118.3	11098.0	11080.1	11064.7	11052.0										
	K	2.3692	2.3764	2.3943	2.4126	2.4313	2.4701	2.5100	2.5530	2.5973	2.6435										
	GA	1.4049	1.4082	1.4164	1.4247	1.4331	1.4506	1.4688	1.4877	1.5073	1.5277										
	CP	.2493	.2501	.2527	.2544	.2566	.2610	.2657	.2705	.2755	.2806										
360.0	H	153.95	153.81	153.45	153.09	152.72	152.00	151.27	150.53	149.80	149.05										
	V	16180.6	9497.4	4731.6	3143.3	1844.7	1554.5	1157.5	919.4	760.7	647.3										
	MU	7.2766	7.2886	7.3181	7.3477	7.3777	7.4385	7.5006	7.5641	7.6293	7.6963										
	C*	11343.4	11338.9	11328.3	11318.1	11308.4	11290.5	11274.6	11261.0	11249.8	11241.2										
	K	2.4313	2.4384	2.4557	2.4734	2.4914	2.5287	2.5676	2.6081	2.6503	2.6942										
	GA	1.4046	1.4076	1.4152	1.4229	1.4307	1.4468	1.4634	1.4807	1.4985	1.5169										
	CP	.2492	.2500	.2519	.2539	.2555	.2600	.2643	.2687	.2732	.2778										
370.0	H	156.44	156.30	155.86	155.62	155.28	154.59	153.90	153.21	152.52	151.82										
	V	16633.6	9764.9	4866.6	3233.7	1917.6	1601.4	1193.3	948.6	785.1	669.1										
	MU	7.4435	7.4552	7.4840	7.5129	7.5421	7.6012	7.6615	7.7231	7.7860	7.8506										
	C*	11501.2	11497.5	11488.9	11480.8	11473.1	11459.2	11447.2	11437.5	11430.1	11425.2										
	K	2.4931	2.5000	2.5169	2.5339	2.5514	2.5873	2.6247	2.6635	2.7038	2.7455										
	GA	1.4043	1.4071	1.4141	1.4213	1.4285	1.4434	1.4587	1.4745	1.4907	1.5074										
	CP	.2491	.2498	.2516	.2535	.2553	.2592	.2631	.2671	.2712	.2754										
380.0	H	158.93	158.80	158.48	158.15	157.83	157.18	156.53	155.88	155.22	154.56										
	V	17086.5	10032.1	5001.5	3324.7	1986.3	1648.0	1229.0	977.6	810.1	690.6										
	MU	7.6084	7.6199	7.6440	7.6762	7.7046	7.7622	7.8208	7.8805	7.9415	8.0038										
	C*	11656.7	11653.8	11647.1	11640.8	11634.9	11624.6	11616.3	11610.0	11606.0	11604.3										
	K	2.5546	2.5613	2.5776	2.5942	2.6111	2.6458	2.6818	2.7191	2.7576	2.7975										
	GA	1.4040	1.4067	1.4132	1.4198	1.4266	1.4403	1.4544	1.4689	1.4838	1.4991										
	CP	.2490	.2497	.2514	.2531	.2548	.2584	.2620	.2657	.2694	.2733										
390.0	H	161.42	161.30	160.99	160.67	160.38	159.76	159.14	158.53	157.91	157.29										
	V	17539.3	10299.2	5136.2	3415.3	2054.9	1694.5	1264.4	1006.5	834.6	711.9										
	MU	7.7715	7.7827	7.8111	7.8377	7.8654	7.9215	7.9785	8.0365	8.0956	8.1559										
	C*	11810.1	11807.9	11802.5	11798.3	11794.1	11787.1	11782.0	11778.9	11777.9	11779.1										
	K	2.6157	2.6222	2.6381	2.6542	2.6706	2.7042	2.7389	2.7747	2.8117	2.8499										
	GA	1.4038	1.4063	1.4123	1.4185	1.4248	1.4375	1.4506	1.4640	1.4777	1.4917										
	CP	.2490	.2496	.2512	.2529	.2544	.2576	.2610</													

ENTHALPY-H BTU/LB	SPECIFIC VOLUME-V CUIN/LB	VISCOSITY-MU LB/(IN-SEC) 10**7	SONIC VELOCITY-C* IN/SEC	CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7	SPECIFIC HEAT RATIO-GA	SPECIFIC HEAT-CP BTU/(LB-DEG R)				
TEMP/ DEG R	14.7	25.0	50.0	75.0	100.0 NITROGEN	150.0	200.0	250.0	300.0	350.0
400.0 H	163.91	163.79	163.50	163.71	162.92	162.33	161.75	161.16	160.58	159.99
V	17991.8	10566.2	5270.8	3505.7	2623.2	1740.8	1299.7	1035.2	858.9	733.0
MU	7.9326	7.9436	7.9703	7.9972	8.0243	8.0790	8.1346	8.1910	8.2483	8.3067
C*	11961.5	11960.0	11956.5	11953.4	11950.7	11946.7	11944.5	11944.3	11946.0	11949.9
K	2.6765	2.6828	2.6983	2.7139	2.7298	2.7624	2.7959	2.8305	2.8660	2.9027
GA	1.4035	1.4059	1.4114	1.4173	1.4232	1.4350	1.4472	1.4596	1.4722	1.4851
CP	.2489	.2495	.2510	.2525	.2540	.2570	.2601	.2632	.2664	.2697
410.0 H	166.40	166.29	166.01	165.73	165.46	164.90	164.35	163.79	163.24	162.68
V	18444.3	10833.0	5405.2	3596.0	2691.5	1787.0	1334.9	1063.7	883.0	754.0
MU	8.0918	8.1026	8.1288	8.1551	8.1815	8.2349	8.2891	8.3440	8.3997	8.4564
C*	12111.0	12110.0	12107.9	12106.2	12104.9	12103.7	12104.1	12106.5	12110.8	12117.1
K	2.7370	2.7431	2.7581	2.7734	2.7888	2.8204	2.8529	2.8862	2.9205	2.9557
GA	1.4033	1.4055	1.4109	1.4163	1.4217	1.4328	1.4441	1.4556	1.4673	1.4792
CP	.2488	.2494	.2508	.2522	.2536	.2564	.2593	.2622	.2652	.2682
420.0 H	168.89	168.78	168.52	168.25	167.99	167.46	166.94	166.41	165.88	165.36
V	18896.6	11099.6	5539.5	3686.2	2759.6	1833.1	1369.9	1092.1	907.0	774.8
MU	8.2493	8.2598	8.2854	8.3111	8.3370	8.3892	8.4420	8.4955	8.5497	8.6048
C*	12258.5	12258.1	12257.3	12256.9	12256.9	12256.1	12261.0	12265.7	12272.3	12280.7
K	2.7971	2.8031	2.8177	2.8326	2.8476	2.8782	2.9097	2.9419	2.9750	3.0089
GA	1.4031	1.4052	1.4102	1.4153	1.4204	1.4307	1.4413	1.4520	1.4629	1.4739
CP	.2488	.2493	.2506	.2519	.2532	.2559	.2586	.2613	.2640	.2668
430.0 H	171.38	171.28	171.02	170.77	170.52	170.02	169.52	169.02	168.52	168.02
V	19348.8	11366.2	5673.7	3776.3	2827.6	1879.0	1404.8	1120.4	930.9	795.5
MU	8.4050	8.4153	8.4403	8.4655	8.4908	8.5418	8.5933	8.6455	8.6983	8.7519
C*	12404.3	12404.3	12404.7	12405.5	12406.7	12410.2	12415.3	12422.2	12430.8	12441.2
K	2.8568	2.8627	2.8770	2.8914	2.9060	2.9358	2.9663	2.9976	3.0295	3.0623
GA	1.4030	1.4049	1.4096	1.4144	1.4192	1.4289	1.4387	1.4487	1.4589	1.4692
CP	.2488	.2493	.2505	.2517	.2529	.2554	.2579	.2604	.2630	.2656
440.0 H	173.87	173.77	173.53	173.29	173.05	172.57	172.09	171.62	171.14	170.67
V	19800.9	11632.7	5807.8	3866.7	2895.5	1924.8	1439.6	1148.6	954.6	816.1
MU	8.5589	8.5650	8.5936	8.6182	8.6430	8.6928	8.7432	8.7941	8.8456	8.8978
C*	12548.3	12548.8	12550.3	12552.2	12554.4	12560.0	12567.2	12576.0	12586.5	12598.7
K	2.9163	2.9220	2.9359	2.9500	2.9642	2.9932	3.0228	3.0531	3.0841	3.1157
GA	1.4028	1.4046	1.4091	1.4135	1.4180	1.4272	1.4364	1.4458	1.4553	1.4648
CP	.2487	.2492	.2503	.2515	.2526	.2549	.2573	.2597	.2621	.2645
450.0 H	176.35	176.26	176.03	175.80	175.57	175.12	174.66	174.21	173.76	173.31
V	20252.9	11899.0	5941.8	3956.1	2963.3	1970.6	1474.3	1176.6	978.3	836.6
MU	8.7112	8.7210	8.7451	8.7692	8.7935	8.8423	8.8915	8.9412	8.9915	9.0424
C*	12690.6	12691.6	12694.1	12696.9	12700.1	12707.7	12716.7	12727.3	12739.6	12753.5
K	2.9753	2.9809	2.9945	3.0083	3.0222	3.0504	3.0792	3.1086	3.1386	3.1692
GA	1.4026	1.4044	1.4085	1.4128	1.4170	1.4256	1.4343	1.4431	1.4519	1.4609
CP	.2487	.2491	.2502	.2513	.2524	.2545	.2567	.2590	.2612	.2635
460.0 H	178.84	178.75	178.53	178.31	178.10	177.66	177.23	176.80	176.37	175.94
V	20704.9	12165.3	6075.6	4045.8	3031.0	2016.2	1508.9	1204.6	1001.8	857.1
MU	8.8617	8.8714	8.8950	8.9187	8.9424	8.9902	9.0383	9.0870	9.1361	9.1857
C*	12831.3	12832.7	12836.1	12839.9	12844.0	12853.3	12864.1	12876.3	12890.2	12905.6
K	3.0341	3.0395	3.0528	3.0662	3.0798	3.1073	3.1353	3.1639	3.1930	3.2227
GA	1.4025	1.4041	1.4081	1.4121	1.4161	1.4242	1.4323	1.4406	1.4489	1.4573
CP	.2487	.2491	.2501	.2511	.2521	.2542	.2562	.2583	.2604	.2625
470.0 H	181.33	181.24	181.03	180.82	180.62	180.20	179.79	179.38	178.97	178.56
V	21156.7	12431.5	6209.5	4135.5	3098.6	2061.7	1543.4	1232.5	1025.3	877.4
MU	9.0107	9.0202	9.0434	9.0665	9.0898	9.1366	9.1837	9.2313	9.2793	9.3277
C*	12970.5	12972.1	12976.4	12981.1	12986.0	12997.0	13009.3	13023.1	13038.4	13055.2
K	3.0925	3.0978	3.1108	3.1239	3.1371	3.1639	3.1912	3.2190	3.2473	3.2761
GA	1.4023	1.4039	1.4076	1.4114	1.4152	1.4228	1.4305	1.4383	1.4461	1.4540
CP	.2486	.2490	.2500	.2509	.2519	.2538	.2558	.2577	.2597	.2617
480.0 H	183.81	183.73	183.53	183.33	183.13	182.74	182.34	181.95	181.56	181.17
V	21608.5	12697.6	6343.2	4225.1	3166.1	2107.2	1577.9	1260.3	1048.7	897.6
MU	9.1581	9.1675	9.1901	9.2129	9.2357	9.2815	9.3277	9.3742	9.4212	9.4685
C*	13108.1	13110.1	13115.2	13120.6	13126.3	13138.8	13152.6	13167.8	13184.4	13202.4
K	3.1505	3.1557	3.1684	3.1813	3.1942	3.2204	3.2470	3.2740	3.3015	3.3295
GA	1.4022	1.4037	1.4072	1.4108	1.4144	1.4216	1.4289	1.4362	1.4436	1.4510
CP	.2486	.2490	.2499	.2508	.2517	.2535	.2554	.2572	.2591	.2609
490.0 H	186.30	186.22	186.03	185.84	185.65	185.27	184.90	184.52	184.15	183.78
V	22060.1	12963.7	6476.5	4314.6	3233.6	2152.6	1612.2	1288.1	1072.1	917.8
MU	9.3040	9.3131	9.3354	9.3577	9.3801	9.4251	9.4703	9.5159	9.5618	9.6081
C*	13244.2	13246.5	13252.4	13258.5	13265.0	13278.8	13294.0	13310.4	13328.3	13347.5
K	3.2082	3.2133	3.2258	3.2383	3.2509	3.2765	3.3025	3.3288	3.3556	3.3828
GA	1.4021	1.4035	1.4068	1.4102	1.4136	1.4204	1.4273	1.4342	1.4412	1.4482
CP	.2486	.2490	.2498	.2507	.2515	.2532	.2550	.2567	.2585	.2602
500.0 H	188.78	188.71	188.53	188.35	188.17	187.80	187.44	187.09	186.73	186.38
V	22511.8	13229.7	6610.5	4404.1	3301.0	2198.0	1646.5	1315.8	1095.3	937.9
MU	9.4484	9.4574	9.4792	9.5011	9.5231	9.5672	9.6115	9.6562	9.7011	9.7464
C*	13378.9	13381.5	13388.0	13394.8	13402.0	13417.1	13433.5	13451.2	13470.1	13490.4
K	3.2656	3.2706	3.2828	3.2953	3.3074	3.3324	3.3577	3.3834	3.4095	3.4360
GA	1.4020	1.4033	1.4065	1.4097	1.4129	1.4194	1.4259	1.4324	1.4390	1.4456
CP	.2486	.2489	.2497	.2505	.2514	.2530	.2546	.2563	.2579	.2596

ENTHALPY-H BTU/LB	SPECIFIC VOLUME-V CUIN/LB	VISCOSITY-MU LB/(IN-SEC) 10**7	SONIC VELOCITY-C* IN/SEC	CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7	SPECIFIC HEAT RATIO-GA	SPECIFIC HEAT-CP BTU/(LB-DEG R)				
14.7	25.0	50.0	75.0	100.0 NITROGEN	150.0	200.0	250.0	300.0	350.0	
TEMP/ DEG R										
500.0 H	188.78	188.71	188.53	188.35	188.17	187.80	187.44	187.09	186.73	186.38
V	22511.8	13229.7	6610.5	4404.1	3301.0	2198.0	1646.5	1315.8	1095.3	937.9
MU	9.4484	9.4574	9.4792	9.5011	9.5231	9.5672	9.6115	9.6562	9.7011	9.7464
C*	13378.9	13381.5	13388.0	13394.8	13402.0	13417.1	13433.5	13451.2	13470.1	13490.4
K	3.2656	3.2706	3.2828	3.2950	3.3074	3.3324	3.3577	3.3834	3.4095	3.4360
GA	1.4020	1.4033	1.4065	1.4097	1.4129	1.4194	1.4259	1.4324	1.4390	1.4456
CP	.2486	.2489	.2497	.2505	.2514	.2530	.2546	.2563	.2579	.2596
510.0 H	191.27	191.20	191.02	190.85	190.68	190.33	189.99	189.65	189.31	188.97
V	22963.3	13495.6	6744.0	4493.5	3368.3	2243.2	1680.8	1343.4	1118.5	958.0
MU	9.5913	9.6001	9.6216	9.6431	9.6646	9.7079	9.7514	9.7952	9.8392	9.8836
C*	13512.2	13515.1	13522.2	13529.7	13537.4	13553.8	13571.3	13590.1	13610.1	13631.4
K	3.3226	3.3275	3.3395	3.3515	3.3636	3.3880	3.4128	3.4379	3.4633	3.4891
GA	1.4018	1.4031	1.4061	1.4092	1.4122	1.4184	1.4246	1.4308	1.4370	1.4432
CP	.2486	.2489	.2497	.2504	.2512	.2528	.2543	.2559	.2574	.2590
520.0 H	193.76	193.69	193.52	193.36	193.19	192.86	192.53	192.20	191.88	191.56
V	23414.8	13761.4	6877.5	4582.9	3435.6	2288.4	1715.0	1370.9	1141.7	978.0
MU	9.7328	9.7415	9.7625	9.7837	9.8048	9.8473	9.8900	9.9329	9.9761	10.0195
C*	13644.2	13647.3	13655.0	13663.0	13671.3	13688.8	13707.4	13727.2	13748.2	13770.4
K	3.3793	3.3841	3.3958	3.4076	3.4194	3.4433	3.4676	3.4921	3.5169	3.5421
GA	1.4017	1.4029	1.4058	1.4087	1.4116	1.4174	1.4233	1.4292	1.4351	1.4410
CP	.2486	.2489	.2496	.2503	.2511	.2525	.2540	.2555	.2570	.2584
530.0 H	196.24	196.18	196.02	195.86	195.70	195.38	195.07	194.76	194.45	194.14
V	23866.3	14027.3	7010.9	4672.2	3502.8	2333.6	1749.1	1398.5	1164.8	997.9
MU	9.8729	9.8814	9.9022	9.9229	9.9437	9.9854	10.0273	10.0694	10.1118	10.1544
C*	13774.8	13778.1	13786.4	13795.0	13803.8	13822.3	13841.9	13862.6	13884.5	13907.6
K	3.4357	3.4404	3.4519	3.4634	3.4750	3.4984	3.5221	3.5461	3.5703	3.5949
GA	1.4016	1.4027	1.4055	1.4082	1.4110	1.4166	1.4221	1.4277	1.4333	1.4389
CP	.2486	.2489	.2496	.2503	.2509	.2523	.2537	.2551	.2565	.2579
540.0 H	198.73	198.66	198.51	198.36	198.21	197.91	197.61	197.31	197.01	196.72
V	24317.7	14293.0	7144.3	4761.4	3570.0	2378.7	1783.2	1425.9	1187.8	1017.8
MU	10.0117	10.0201	10.0405	10.0609	10.0813	10.1223	10.1634	10.2047	10.2463	10.2881
C*	13904.1	13907.7	13916.5	13925.6	13934.9	13954.3	13974.9	13996.5	14019.2	14043.0
K	3.4918	3.4964	3.5076	3.5189	3.5303	3.5532	3.5764	3.5998	3.6235	3.6475
GA	1.4014	1.4025	1.4052	1.4078	1.4104	1.4157	1.4210	1.4264	1.4317	1.4370
CP	.2486	.2489	.2495	.2502	.2508	.2522	.2535	.2548	.2562	.2575
550.0 H	201.21	201.15	201.01	200.86	200.72	200.43	200.14	199.85	199.57	199.29
V	24769.1	14558.8	7277.6	4850.6	3637.2	2423.8	1817.2	1453.3	1210.8	1037.6
MU	10.1492	10.1574	10.1775	10.1975	10.2176	10.2579	10.2983	10.3389	10.3797	10.4207
C*	14032.2	14036.0	14045.3	14054.8	14064.6	14084.9	14106.3	14128.7	14152.2	14176.7
K	3.5475	3.5520	3.5631	3.5741	3.5853	3.6078	3.6304	3.6534	3.6766	3.7000
GA	1.4013	1.4024	1.4049	1.4074	1.4099	1.4150	1.4200	1.4251	1.4301	1.4352
CP	.2486	.2488	.2495	.2501	.2507	.2520	.2533	.2545	.2558	.2571
560.0 H	203.70	203.64	203.50	203.36	203.22	202.95	202.67	202.40	202.13	201.86
V	25220.4	14824.4	7410.9	4939.8	3704.3	2468.8	1851.2	1480.7	1233.7	1057.4
MU	10.2854	10.2936	10.3133	10.3330	10.3527	10.3923	10.4320	10.4719	10.5120	10.5522
C*	14159.1	14163.0	14172.8	14182.7	14192.9	14214.1	14236.3	14259.4	14283.6	14308.9
K	3.6029	3.6073	3.6182	3.6290	3.6400	3.6620	3.6842	3.7067	3.7294	3.7523
GA	1.4012	1.4022	1.4046	1.4073	1.4094	1.4142	1.4190	1.4239	1.4287	1.4335
CP	.2486	.2488	.2495	.2501	.2507	.2519	.2531	.2543	.2555	.2567
570.0 H	206.19	206.13	206.00	205.86	205.73	205.46	205.20	204.94	204.68	204.42
V	25673.6	15050.1	7544.1	5028.9	3771.3	2513.8	1885.2	1508.0	1256.7	1077.2
MU	10.4205	10.4285	10.4479	10.4673	10.4867	10.5256	10.5647	10.6038	10.6432	10.6827
C*	14284.8	14288.9	14295.0	14309.4	14320.0	14341.9	14364.8	14388.7	14413.6	14439.4
K	3.6580	3.6623	3.6730	3.6837	3.6944	3.7160	3.7378	3.7598	3.7820	3.8044
GA	1.4010	1.4020	1.4043	1.4066	1.4089	1.4135	1.4181	1.4227	1.4273	1.4319
CP	.2486	.2489	.2494	.2500	.2506	.2517	.2529	.2540	.2552	.2563
580.0 H	208.67	208.62	208.49	208.36	208.23	207.98	207.73	207.48	207.23	206.98
V	26124.1	15356.8	7677.4	5118.0	3838.3	2598.8	1919.1	1535.3	1279.5	1096.9
MU	10.5544	10.5622	10.5813	10.6004	10.6195	10.6578	10.6962	10.7347	10.7734	10.8122
C*	14409.3	14413.5	14424.1	14434.8	14445.8	14468.5	14492.0	14516.6	14542.0	14568.4
K	3.7127	3.7170	3.7275	3.7380	3.7485	3.7697	3.7911	3.8126	3.8344	3.8563
GA	1.4009	1.4018	1.4040	1.4062	1.4084	1.4128	1.4172	1.4216	1.4260	1.4304
CP	.2486	.2489	.2494	.2500	.2505	.2516	.2527	.2538	.2549	.2560
590.0 H	211.16	211.11	210.99	210.86	210.74	210.49	210.25	210.01	209.78	209.54
V	26574.5	15621.5	7810.8	5207.2	3905.4	2603.6	1952.9	1562.6	1302.4	1116.6
MU	10.6871	10.6948	10.7136	10.7324	10.7512	10.7899	10.8286	10.8665	10.9025	10.9407
C*	14532.6	14537.0	14547.9	14559.0	14570.4	14593.7	14617.9	14643.0	14669.1	14696.0
K	3.7672	3.7714	3.7817	3.7920	3.8023	3.8231	3.8441	3.8652	3.8865	3.9080
GA	1.4008	1.4016	1.4037	1.4058	1.4079	1.4122	1.4164	1.4206	1.4248	1.4290
CP	.2487	.2489	.2494	.2499	.2505	.2515	.2526	.2536	.2546	.2557
600.0 H	213.65	213.60	213.48	213.36	213.24	213.01	212.78	212.55	212.32	212.10
V	27024.9	15886.3	7943.2	5296.0	3972.3	2648.6	1986.8	1589.8	1325.2	1136.2
MU	10.8187	10.8264	10.8448	10.8633	10.8819	10.9189	10.9561	10.9934	11.0307	11.0682
C*	14654.9	14659.4	14670.6	14682.1	14693.7	14717.7	14742.5	14768.2	14794.8	14822.2
K	3.8213	3.8255	3.8356	3.8457	3.8558	3.8763	3.8969	3.9176	3.9385	3.9596
GA	1.4006	1.4014	1.4035	1.4055	1.4075	1.4115	1.4156	1.4196	1.4236	1.4276
CP	.2487	.2489	.2494	.2499	.2504	.2514	.2524	.2534	.2544	.2554

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ENTHALPY-H		SPECIFIC VOLUME-V		VISCOSITY-MU		SONIC VELOCITY-C*		CONDUCTIVITY-K		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP	
BTU/LB		CUIN/LB		LB/(IN-SEC)		IN/SEC		BTU/(SEC-IN-DEG R)				BTU/(LB-DEG R)	
				10**7				10**7					
PRESSURE PSIA		14.7	25.0	50.0	75.0	100.0	150.0	200.0	250.0	300.0	350.0		
TEMP/ DEG R		NITROGEN											
800.0	H	263.56	263.54	263.49	263.44	263.40	263.30	263.21	263.11	263.02	262.94		
	V	36044.1	21152.6	10601.8	7071.6	5306.5	3541.4	2659.0	2129.5	1776.6	1524.6		
	MU	13.2857	13.2916	13.3057	13.3198	13.3340	13.3622	13.3905	13.4187	13.4469	13.4751		
	C*	16889.3	16895.3	16910.1	16925.1	16940.1	16970.5	17001.5	17032.9	17064.7	17097.1		
	K	4.8433	4.8464	4.8540	4.8615	4.8650	4.8841	4.8993	4.9144	4.9296	4.9448		
	GA	1.3944	1.3948	1.3958	1.3968	1.3978	1.3997	1.4017	1.4036	1.4055	1.4074		
	CP	.2511	.2512	.2514	.2517	.2519	.2524	.2528	.2533	.2538	.2542		
820.0	H	268.59	268.57	268.52	268.48	268.44	268.35	268.27	268.18	268.10	268.02		
	V	36945.6	21722.9	10867.3	7248.8	5439.6	3630.4	2725.9	2183.2	1821.4	1563.1		
	MU	13.5034	13.5091	13.5229	13.5367	13.5505	13.5781	13.6057	13.6332	13.6608	13.6884		
	C*	17092.5	17098.6	17113.5	17128.6	17143.8	17174.5	17205.7	17237.3	17269.3	17301.8		
	K	4.9397	4.9427	4.9501	4.9574	4.9648	4.9795	4.9942	5.0090	5.0238	5.0386		
	GA	1.3933	1.3937	1.3946	1.3955	1.3964	1.3983	1.4001	1.4019	1.4037	1.4055		
	CP	.2516	.2517	.2519	.2521	.2523	.2528	.2532	.2537	.2541	.2545		
840.0	H	273.62	273.61	273.57	273.53	273.49	273.41	273.34	273.26	273.19	273.12		
	V	37847.1	22253.1	11132.7	7426.0	5572.6	3719.3	2792.7	2236.8	1866.2	1601.5		
	MU	13.7192	13.7248	13.7383	13.7518	13.7653	13.7922	13.8192	13.8461	13.8731	13.9000		
	C*	17292.1	17298.3	17313.4	17328.6	17343.9	17374.8	17406.2	17438.0	17470.2	17502.9		
	K	5.0351	5.0380	5.0452	5.0523	5.0595	5.0739	5.0882	5.1026	5.1171	5.1315		
	GA	1.3920	1.3924	1.3933	1.3942	1.3950	1.3967	1.3985	1.4002	1.4019	1.4036		
	CP	.2521	.2522	.2524	.2526	.2528	.2532	.2537	.2541	.2545	.2549		
860.0	H	278.67	278.66	278.62	278.59	278.55	278.48	278.41	278.35	278.28	278.22		
	V	38748.5	22783.3	11398.1	7603.1	5705.6	3808.2	2859.5	2290.4	1911.0	1640.0		
	MU	13.9333	13.9387	13.9520	13.9652	13.9784	14.0047	14.0311	14.0574	14.0838	14.1101		
	C*	17488.4	17494.6	17509.8	17525.1	17540.5	17571.6	17603.1	17635.0	17667.4	17700.1		
	K	5.1295	5.1324	5.1394	5.1464	5.1534	5.1674	5.1814	5.1954	5.2095	5.2236		
	GA	1.3907	1.3910	1.3918	1.3927	1.3935	1.3951	1.3967	1.3983	1.3999	1.4015		
	CP	.2527	.2528	.2530	.2532	.2534	.2538	.2542	.2546	.2550	.2553		
880.0	H	283.73	283.72	283.69	283.66	283.63	283.56	283.50	283.43	283.39	283.33		
	V	39650.0	23313.4	11663.5	7780.2	5838.6	3897.0	2926.3	2343.9	1955.7	1678.4		
	MU	14.1457	14.1510	14.1640	14.1769	14.1898	14.2156	14.2414	14.2672	14.2929	14.3187		
	C*	17681.1	17687.4	17702.6	17718.0	17733.5	17764.8	17796.4	17828.5	17860.9	17893.7		
	K	5.2230	5.2258	5.2326	5.2395	5.2463	5.2600	5.2737	5.2874	5.3011	5.3149		
	GA	1.3892	1.3895	1.3903	1.3910	1.3918	1.3933	1.3949	1.3964	1.3979	1.3994		
	CP	.2534	.2535	.2537	.2539	.2540	.2544	.2548	.2552	.2555	.2559		
900.0	H	288.74	288.72	288.69	288.66	288.63	288.56	288.50	288.43	288.37	288.31		
	V	40553.9	23845.8	11930.9	7959.3	5973.5	3987.7	2994.8	2399.1	2002.0	1718.4		
	MU	14.3565	14.3617	14.3744	14.3870	14.3996	14.4249	14.4501	14.4753	14.5004	14.5256		
	C*	17885.5	17891.3	17905.5	17919.7	17934.0	17962.7	17991.6	18020.6	18049.9	18079.3		
	K	5.3155	5.3183	5.3250	5.3317	5.3383	5.3517	5.3651	5.3785	5.3918	5.4052		
	GA	1.3901	1.3904	1.3913	1.3921	1.3930	1.3947	1.3965	1.3982	1.3999	1.4016		
	CP	.2533	.2534	.2535	.2537	.2539	.2543	.2546	.2550	.2554	.2557		
920.0	H	293.97	293.96	293.92	293.89	293.85	293.78	293.71	293.63	293.56	293.49		
	V	41457.6	24378.0	12198.1	8138.1	6108.1	4078.2	3063.2	2454.2	2048.2	1758.2		
	MU	14.5657	14.5708	14.5832	14.5956	14.6079	14.6326	14.6573	14.6819	14.7065	14.7311		
	C*	18055.0	18060.4	18073.6	18086.7	18099.9	18126.2	18152.6	18178.9	18205.2	18231.6		
	K	5.4072	5.4099	5.4165	5.4230	5.4295	5.4426	5.4556	5.4687	5.4818	5.4948		
	GA	1.3914	1.3918	1.3928	1.3938	1.3948	1.3968	1.3987	1.4007	1.4027	1.4046		
	CP	.2530	.2531	.2533	.2534	.2536	.2540	.2544	.2548	.2551	.2555		
940.0	H	299.28	299.26	299.23	299.20	299.16	299.09	299.02	298.96	298.89	298.82		
	V	42358.9	24907.9	12463.2	8315.0	6240.9	4166.8	3129.7	2507.5	2092.7	1796.4		
	MU	14.7733	14.7783	14.7905	14.8026	14.8147	14.8389	14.8631	14.8872	14.9114	14.9354		
	C*	18209.3	18214.8	18228.2	18241.5	18254.8	18281.5	18308.1	18334.8	18361.5	18388.1		
	K	5.4980	5.5007	5.5071	5.5135	5.5199	5.5326	5.5454	5.5582	5.5710	5.5837		
	GA	1.3903	1.3907	1.3917	1.3926	1.3936	1.3955	1.3974	1.3994	1.4013	1.4032		
	CP	.2536	.2537	.2538	.2540	.2542	.2546	.2549	.2553	.2557	.2560		
960.0	H	304.58	304.57	304.54	304.51	304.47	304.41	304.34	304.28	304.21	304.15		
	V	43260.1	25437.8	12728.4	8491.9	6373.7	4255.4	3196.3	2560.8	2137.2	1834.6		
	MU	14.9795	14.9844	14.9963	15.0082	15.0201	15.0438	15.0675	15.0912	15.1148	15.1384		
	C*	18363.7	18369.2	18382.7	18396.2	18409.7	18436.7	18463.7	18490.7	18517.7	18544.7		
	K	5.5880	5.5906	5.5968	5.6031	5.6094	5.6219	5.6344	5.6465	5.6586	5.6709		
	GA	1.3892	1.3895	1.3905	1.3914	1.3924	1.3943	1.3962	1.3981	1.4000	1.4019		
	CP	.2542	.2542	.2544	.2546	.2548	.2551	.2555	.2559	.2562	.2566		
980.0	H	309.89	309.88	309.85	309.82	309.79	309.72	309.66	309.60	309.54	309.48		
	V	44161.3	25567.8	12993.5	8668.8	6506.4	4344.1	3262.9	2614.2	2181.7	1872.8		
	MU	15.1842	15.1890	15.2007	15.2123	15.2240	15.2473	15.2705	15.2937	15.3169	15.3400		
	C*	18518.0	18523.6	18537.3	18551.0	18564.6	18592.0	18619.3	18646.6	18673.9	18701.2		
	K	5.6771	5.6797	5.6858	5.6919	5.6980	5.7103	5.7225	5.7348	5.7470	5.7593		
	GA	1.3880	1.3884	1.3893	1.3903	1.3912	1.3930	1.3949	1.3968	1.3986	1.4005		
	CP	.2548	.2548	.2550	.2552	.2554	.2557	.2561	.2564	.2568	.2571		
1000.0	H	315.20	315.18	315.15	315.13	315.10	315.04	314.98	314.92	314.87	314.81		
	V	45062.6	26457.7	13258.7	8845.7	6639.2	4437.7	3329.4	2667.5	2226.2	1911.0		
	MU	15.3875	15.3922	15.4036	15.4151	15.4265	15.4493	15.4721	15.4949	15.5176	15.5403		
	C*	18672.4	18678.0	18691.5	18705.7	18719.5	18747.4	18774.8	18802.5	18830.2	18857.8		
	K	5.7654	5.7679	5.7719	5.7799	5.7859	5.7979	5.8099	5.8219	5.8339	5.8459		
	GA	1.3869	1.3872	1.3882	1.3891	1.3900	1.3918	1.3936	1.3954	1.3973	1.3991		
	CP	.2553	.2554	.2556	.2558	.2560	.2563	.2566	.2570	.2573	.2577		

ENTHALPY-H BTU/LB		SPECIFIC VOLUME-V CUIN/LB		VISCOSITY-MU LB/(IN-SEC) 10**7		SONIC VELOCITY-C* IN/SEC		CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP BTU/(LB-DEG R)	
PRESSURE PSIA		14.7	25.0	50.0	75.0	100.0	150.0	200.0	250.0	300.0	350.0		
TEMP/ DEG R		NITROGEN											
1000.0	H	315.20	315.18	315.15	315.13	315.10	315.04	314.98	314.92	314.87	314.81		
	V	45062.6	26497.7	13258.7	8845.7	6639.2	4432.7	3329.4	2667.5	2226.2	1911.0		
	MU	15.3875	15.3922	15.4036	15.4151	15.4265	15.4493	15.4721	15.4949	15.5176	15.5403		
	C*	18672.4	18678.0	18691.5	18705.7	18719.5	18747.2	18774.8	18802.5	18830.2	18857.8		
	K	5.7654	5.7679	5.7739	5.7799	5.7859	5.7979	5.8099	5.8219	5.8339	5.8459		
	GA	1.3869	1.3872	1.3882	1.3891	1.3900	1.3918	1.3936	1.3954	1.3973	1.3991		
	CP	.2553	.2554	.2556	.2558	.2559	.2563	.2566	.2570	.2573	.2577		
1100.0	H	341.72	341.71	341.70	341.68	341.66	341.62	341.58	341.54	341.50	341.46		
	V	49568.7	29147.3	14584.4	9730.1	7302.9	4875.8	3662.2	2934.1	2448.6	2101.9		
	MU	16.3839	16.3882	16.3987	16.4091	16.4196	16.4404	16.4612	16.4820	16.5028	16.5235		
	C*	19444.1	19450.1	19464.8	19479.4	19494.1	19523.4	19552.7	19582.0	19611.3	19640.6		
	K	6.1954	6.1976	6.2031	6.2085	6.2140	6.2249	6.2358	6.2466	6.2575	6.2684		
	GA	1.3812	1.3815	1.3823	1.3831	1.3840	1.3856	1.3872	1.3889	1.3905	1.3922		
	CP	.2583	.2583	.2585	.2587	.2588	.2591	.2594	.2598	.2601	.2604		
1200.0	H	368.25	368.25	368.24	368.23	368.22	368.20	368.18	368.15	368.13	368.11		
	V	54074.7	31756.9	15910.1	10614.5	7966.7	5318.9	3995.0	3200.7	2671.1	2292.8		
	MU	17.3500	17.3540	17.3636	17.3732	17.3828	17.4020	17.4211	17.4402	17.4593	17.4784		
	C*	20215.8	20222.1	20237.6	20253.1	20268.6	20299.6	20330.5	20361.5	20392.5	20423.4		
	K	6.6073	6.6094	6.6144	6.6194	6.6244	6.6343	6.6443	6.6543	6.6642	6.6741		
	GA	1.3754	1.3757	1.3765	1.3772	1.3779	1.3794	1.3809	1.3823	1.3838	1.3853		
	CP	.2612	.2613	.2614	.2616	.2617	.2620	.2623	.2625	.2628	.2631		
1300.0	H	394.78	394.78	394.78	394.78	394.78	394.77	394.77	394.77	394.77	394.77		
	V	58580.8	34446.5	17235.8	11498.9	8630.4	5762.0	4327.7	3467.2	2893.5	2483.7		
	MU	18.2890	18.2927	18.3016	18.3105	18.3194	18.3372	18.3549	18.3726	18.3903	18.4079		
	C*	20987.5	20994.2	21010.5	21026.8	21043.1	21075.8	21108.4	21141.0	21173.6	21206.2		
	K	7.0030	7.0049	7.0095	7.0141	7.0187	7.0279	7.0371	7.0463	7.0555	7.0646		
	GA	1.3697	1.3700	1.3706	1.3713	1.3719	1.3732	1.3745	1.3758	1.3771	1.3784		
	CP	.2641	.2642	.2643	.2644	.2646	.2648	.2651	.2653	.2656	.2658		
1400.0	H	421.31	421.31	421.32	421.33	421.33	421.35	421.37	421.38	421.40	421.42		
	V	63086.8	37096.0	18561.4	12383.2	9294.1	6205.0	4660.4	3733.7	3115.9	2674.6		
	MU	19.2037	19.2072	19.2155	19.2238	19.2320	19.2486	19.2651	19.2816	19.2980	19.3144		
	C*	21759.2	21766.2	21783.4	21800.5	21817.7	21851.9	21886.2	21920.5	21954.8	21989.1		
	K	7.3839	7.3857	7.3900	7.3943	7.3985	7.4071	7.4156	7.4241	7.4326	7.4411		
	GA	1.3640	1.3642	1.3648	1.3653	1.3659	1.3670	1.3681	1.3692	1.3703	1.3714		
	CP	.2671	.2671	.2672	.2673	.2675	.2677	.2679	.2681	.2683	.2685		
1500.0	H	447.83	447.84	447.86	447.88	447.89	447.93	447.96	448.00	448.04	448.07		
	V	67592.8	39745.5	19887.0	13267.5	9957.7	6648.0	4993.1	4000.2	3338.2	2865.4		
	MU	20.0965	20.0997	20.1074	20.1152	20.1230	20.1384	20.1539	20.1693	20.1847	20.2000		
	C*	22530.9	22538.3	22556.3	22574.2	22592.2	22628.1	22664.1	22700.0	22735.9	22771.9		
	K	7.7515	7.7531	7.7571	7.7611	7.7651	7.7731	7.7810	7.7890	7.7969	7.8048		
	GA	1.3583	1.3585	1.3589	1.3594	1.3599	1.3608	1.3617	1.3627	1.3636	1.3645		
	CP	.2700	.2700	.2701	.2702	.2703	.2705	.2707	.2709	.2711	.2713		
1600.0	H	474.36	474.37	474.40	474.43	474.45	474.51	474.56	474.61	474.67	474.72		
	V	72098.8	42395.0	21212.6	14151.8	10621.4	7091.0	5325.8	4266.7	3560.6	3056.2		
	MU	20.9691	20.9722	20.9795	20.9867	20.9940	21.0086	21.0231	21.0376	21.0520	21.0664		
	C*	23302.6	23310.3	23329.1	23347.9	23366.7	23404.3	23441.9	23479.5	23517.1	23554.7		
	K	8.1067	8.1083	8.1120	8.1158	8.1195	8.1270	8.1344	8.1419	8.1493	8.1567		
	GA	1.3526	1.3527	1.3531	1.3535	1.3539	1.3554	1.3561	1.3569	1.3576	1.3576		
	CP	.2729	.2730	.2731	.2731	.2732	.2734	.2735	.2737	.2738	.2740		
1700.0	H	500.89	500.90	500.94	500.98	501.01	501.09	501.16	501.23	501.30	501.37		
	V	76604.7	45044.4	22538.1	15036.0	11285.0	7533.9	5658.4	4533.1	3782.9	3247.0		
	MU	21.8234	21.8263	21.8332	21.8400	21.8469	21.8606	21.8743	21.8879	21.9016	21.9152		
	C*	24074.3	24082.4	24102.0	24121.6	24141.3	24180.5	24219.8	24259.0	24298.2	24337.5		
	K	8.4790	8.4804	8.4840	8.4875	8.4910	8.4980	8.5051	8.5121	8.5190	8.5260		
	GA	1.3468	1.3470	1.3472	1.3475	1.3478	1.3484	1.3490	1.3496	1.3501	1.3507		
	CP	.2759	.2759	.2760	.2760	.2761	.2762	.2763	.2765	.2766	.2767		
1800.0	H	527.42	527.44	527.48	527.53	527.57	527.66	527.75	527.84	527.94	528.03		
	V	81110.6	47693.9	23863.7	15920.3	11948.6	7976.9	5991.0	4799.5	4005.2	3437.8		
	MU	22.6608	22.6635	22.6700	22.6765	22.6830	22.6959	22.7089	22.7218	22.7347	22.7475		
	C*	24846.0	24854.4	24874.9	24895.3	24915.8	24956.7	24997.6	25038.5	25079.4	25120.3		
	K	8.8970	8.8983	8.9017	8.9050	8.9083	8.9150	8.9216	8.9282	8.9348	8.9414		
	GA	1.3411	1.3412	1.3414	1.3416	1.3418	1.3422	1.3426	1.3430	1.3434	1.3438		
	CP	.2788	.2788	.2789	.2789	.2790	.2791	.2791	.2792	.2793	.2794		
1900.0	H	556.31	556.33	556.38	556.43	556.48	556.57	556.67	556.77	556.86	556.96		
	V	85615.9	50342.6	25188.5	16803.8	12611.5	8419.1	6323.0	5065.2	4226.8	3627.9		
	MU	23.4824	23.4850	23.4911	23.4973	23.5035	23.5158	23.5281	23.5403	23.5525	23.5647		
	C*	25430.1	25438.0	25457.2	25476.4	25495.6	25534.6	25573.5	25612.4	25651.3	25690.2		
	K	9.2867	9.2880	9.2912	9.2943	9.2975	9.3037	9.3100	9.3163	9.3225	9.3288		
	GA	1.3380	1.3381	1.3383	1.3385	1.3386	1.3390	1.3394	1.3398	1.3402	1.3405		
	CP	.2808	.2809	.2809	.2809	.2809	.2810	.2811	.2812	.2813	.2814		
2000.0	H	585.20	585.23	585.28	585.33	585.38	585.48	585.59	585.69	585.79	585.90		
	V	90121.0	52991.3	26513.3	17687.3	13274.3	8861.3	6654.8	5330.9	4448.3	3817.9		
	MU	24.2894	24.2919	24.2977	24.3036	24.3095	24.3212	24.3329	24.3445	24.3562	24.3678		
	C*	26014.1	26021.5	26039.5	26057.5	26075.4	26111.4	26147.4	26183.3	26219.2	26255.2		
	K	9.6749	9.6762	9.6792	9.6821	9.6851	9.6911	9.6971	9.7030	9.7090	9.7149		
	GA	1.3349	1.3350	1.3351	1.3353	1.3355	1.3358	1.3362	1.3366	1.3369	1.3373		
	CP	.2829	.2829	.2829	.2830	.2830	.2831	.2832	.2832	.2833	.2834

ENTHALPY-H BTU/LB		SPECIFIC VOLUME-V CUIN/LB		VISCOSITY-MU LB/(IN-SEC) 10**7		SONIC VELOCITY-C* IN/SEC		CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP BTU/(LB-DEG R)	
PRESSURE PSIA		14.7	25.0	50.0	75.0	100.0	150.0	200.0	250.0	300.0	350.0		
TEMP/ DEG R		NITROGEN											
2000.0	H	585.20	585.23	585.28	585.33	585.38	585.48	585.59	585.69	585.79	585.90		
	V	90121.0	52991.3	26513.3	17687.3	13274.3	8861.3	6654.8	5330.9	4448.3	3817.9		
	MU	24.2894	24.2919	24.2977	24.3036	24.3095	24.3212	24.3329	24.3445	24.3562	24.3678		
	C*	26014.1	26021.5	26039.5	26057.5	26075.4	26111.4	26147.3	26183.3	26219.2	26255.2		
	K	9.6749	9.6762	9.6772	9.6821	9.6851	9.6911	9.6971	9.7030	9.7090	9.7149		
	GA	1.3349	1.3350	1.3351	1.3353	1.3355	1.3358	1.3362	1.3366	1.3369	1.3373		
2100.0	CP	.2829	.2829	.2829	.2830	.2830	.2831	.2832	.2832	.2833	.2834		
	H	614.10	614.12	614.18	614.23	614.29	614.39	614.50	614.61	614.72	614.83		
	V	94626.1	55639.9	27838.0	18570.7	13937.0	9303.4	6986.6	5596.5	4669.7	4007.8		
	MU	25.0828	25.0851	25.0907	25.0963	25.1019	25.1131	25.1242	25.1354	25.1465	25.1575		
	C*	26598.2	26605.1	26621.8	26638.5	26655.3	26688.7	26722.2	26755.7	26789.1	26822.6		
	K	10.0619	10.0631	10.0659	10.0688	10.0716	10.0773	10.0830	10.0887	10.0943	10.1000		
2200.0	GA	1.3318	1.3318	1.3320	1.3322	1.3323	1.3327	1.3330	1.3333	1.3337	1.3340		
	CP	.2849	.2849	.2850	.2850	.2850	.2851	.2852	.2853	.2853	.2854		
	H	642.99	643.02	643.07	643.13	643.19	643.31	643.42	643.54	643.65	643.77		
	V	99131.1	58288.4	29162.6	19454.0	14599.7	9745.4	7318.2	5861.9	4891.1	4197.6		
	MU	25.8614	25.8656	25.8710	25.8763	25.8817	25.8924	25.9030	25.9136	25.9243	25.9348		
	C*	27182.2	27188.6	27204.1	27219.6	27235.1	27266.1	27297.1	27328.1	27359.0	27390.0		
2300.0	K	10.4479	10.4490	10.4518	10.4545	10.4572	10.4626	10.4681	10.4735	10.4789	10.4843		
	GA	1.3286	1.3287	1.3289	1.3290	1.3292	1.3295	1.3298	1.3301	1.3304	1.3307		
	CP	.2869	.2869	.2870	.2870	.2871	.2871	.2872	.2873	.2873	.2874		
	H	671.89	671.91	671.97	672.03	672.09	672.22	672.34	672.46	672.58	672.70		
	V	103636.0	60936.8	30487.1	20337.2	15262.2	10187.3	7649.8	6127.3	5112.3	4387.3		
	MU	26.6320	26.6342	26.6393	26.6444	26.6495	26.6598	26.6700	26.6801	26.6903	26.7004		
2400.0	C*	27766.3	27772.1	27786.4	27800.7	27814.9	27843.4	27871.9	27900.4	27929.0	27957.5		
	K	10.8332	10.8342	10.8368	10.8394	10.8420	10.8472	10.8524	10.8576	10.8628	10.8679		
	GA	1.3255	1.3256	1.3257	1.3259	1.3260	1.3263	1.3266	1.3269	1.3272	1.3275		
	CP	.2890	.2890	.2890	.2890	.2891	.2891	.2892	.2893	.2893	.2894		
	H	700.78	700.81	700.87	700.93	701.00	701.13	701.25	701.38	701.51	701.64		
	V	108140.8	61585.1	31811.5	21220.3	15924.7	10629.1	7981.3	6392.6	5333.5	4577.0		
2500.0	MU	27.3894	27.3914	27.3963	27.4012	27.4061	27.4159	27.4257	27.4355	27.4452	27.4550		
	C*	28350.3	28355.7	28366.7	28381.7	28394.7	28420.8	28446.8	28472.8	28498.9	28524.9		
	K	11.2178	11.2189	11.2214	11.2239	11.2263	11.2313	11.2363	11.2413	11.2462	11.2511		
	GA	1.3224	1.3225	1.3226	1.3227	1.3229	1.3231	1.3234	1.3237	1.3239	1.3242		
	CP	.2910	.2910	.2910	.2911	.2911	.2912	.2912	.2913	.2913	.2914		
	H	729.67	729.70	729.77	729.84	729.90	730.04	730.17	730.30	730.44	730.57		
2600.0	V	112645.5	66233.3	33135.8	22103.3	16587.0	11070.8	8312.7	6657.8	5554.5	4766.5		
	MU	28.1360	28.1379	28.1427	28.1474	28.1521	28.1615	28.1709	28.1803	28.1897	28.1990		
	C*	28934.4	28939.2	28951.0	28962.8	28974.6	28998.1	29021.7	29045.2	29068.8	29092.3		
	K	11.6021	11.6031	11.6055	11.6079	11.6103	11.6151	11.6198	11.6246	11.6293	11.6341		
	GA	1.3193	1.3193	1.3195	1.3196	1.3197	1.3200	1.3202	1.3204	1.3207	1.3209		
	CP	.2930	.2930	.2931	.2931	.2931	.2932	.2932	.2933	.2933	.2934		
2700.0	H	758.57	758.60	758.67	758.74	758.81	758.95	759.09	759.23	759.37	759.51		
	V	117150.1	68881.4	34460.0	22986.2	17249.3	11512.4	8643.9	6922.9	5775.5	4955.9		
	MU	28.8725	28.8744	28.8789	28.8835	28.8880	28.8971	28.9061	28.9152	28.9242	28.9332		
	C*	29518.4	29522.8	29533.3	29543.8	29554.4	29575.5	29596.5	29617.6	29638.7	29659.8		
	K	11.5861	11.5871	11.5894	11.5917	11.5940	11.5986	12.0032	12.0078	12.0123	12.0169		
	GA	1.3162	1.3162	1.3163	1.3164	1.3166	1.3168	1.3170	1.3172	1.3174	1.3177		
2800.0	CP	.2951	.2951	.2951	.2951	.2951	.2952	.2952	.2953	.2953	.2954		
	H	817.70	817.73	817.81	817.88	817.96	818.11	818.25	818.40	818.55	818.70		
	V	126159.4	74177.8	37108.6	24752.2	18574.0	12395.8	9306.7	7453.2	6217.6	5335.0		
	MU	30.3172	30.3190	30.3232	30.3274	30.3317	30.3401	30.3485	30.3569	30.3653	30.3737		
	C*	30602.1	30605.3	30615.0	30624.7	30633.4	30651.7	30670.1	30688.4	30706.8	30725.2		
	K	12.7145	12.7154	12.7175	12.7196	12.7218	12.7261	12.7303	12.7346	12.7388	12.7431		
2900.0	GA	1.3117	1.3118	1.3119	1.3119	1.3120	1.3122	1.3124	1.3126	1.3128	1.3130		
	CP	.2982	.2982	.2982	.2982	.2982	.2983	.2983	.2983	.2984	.2984		
	H	847.94	847.97	848.05	848.12	848.20	848.35	848.50	848.66	848.81	848.96		
	V	130664.2	76826.1	38437.0	25635.3	19236.4	12837.6	9638.1	7718.5	6438.7	5524.6		
	MU	31.0263	31.0280	31.0321	31.0362	31.0403	31.0483	31.0566	31.0647	31.0728	31.0809		
	C*	31101.7	31105.4	31114.4	31123.5	31132.6	31150.7	31168.8	31186.9	31205.0	31223.1		
3000.0	K	13.0572	13.0580	13.0601	13.0622	13.0642	13.0683	13.0725	13.0766	13.0807	13.0848		
	GA	1.3104	1.3104	1.3105	1.3106	1.3107	1.3109	1.3110	1.3112	1.3114	1.3116		
	CP	.2992	.2992	.2993	.2993	.2993	.2993	.2994	.2994	.2994	.2995		
	H	878.18	878.21	878.29	878.37	878.44	878.60	878.75	878.91	879.07	879.22		
	V	135168.9	79474.3	39757.3	26518.3	19898.8	13279.3	9969.5	7983.7	6659.8	5714.1		
	MU	31.7272	31.7288	31.7328	31.7367	31.7407	31.7485	31.7564	31.7643	31.7721	31.7799		
3100.0	C*	31601.4	31604.9	31617.5	31622.8	31631.7	31649.6	31667.5	31685.3	31703.2	31721.1		
	K	13.3983	13.3991	13.4011	13.4031	13.4051	13.4091	13.4131	13.4170	13.4210	13.4249		
	GA	1.3050	1.3051	1.3052	1.3052	1.3053	1.3055	1.3057	1.3059	1.3061	1.3062		
	CP	.3003	.3003	.3003	.3003	.3004	.3004	.3004	.3005	.3005	.3005		

ENTHALPY-H BTU/LB		SPECIFIC VOLUME-V CUIN/LB		VISCOSITY-MU LB/(IN-SEC) 10**7		SONIC VELOCITY-C* IN/SEC		CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP BTU/(LB-DEG R)	
PRESSURE PSIA		14.7	25.0	50.0	75.0	100.0	150.0	200.0	250.0	300.0	350.0		
TEMP/ DEG R		NITROGEN											
3000.0	H	878.18	878.21	878.29	878.37	878.44	878.60	878.75	878.91	879.07	879.22		
	V	135168.9	79474.3	39757.3	26518.3	19898.8	13279.3	9969.5	7983.7	6659.8	5714.1		
	MU	31.7272	31.7288	31.7328	31.7367	31.7407	31.7485	31.7564	31.7643	31.7721	31.7799		
	C*	31601.3	31604.9	31613.9	31622.8	31631.7	31649.6	31667.5	31685.3	31703.2	31721.1		
	K	13.3983	13.3991	13.4011	13.4031	13.4051	13.4091	13.4131	13.4170	13.4210	13.4249		
	GA	1.3090	1.3091	1.3092	1.3092	1.3093	1.3095	1.3097	1.3098	1.3100	1.3102		
	CP	.3003	.3003	.3003	.3003	.3004	.3004	.3004	.3005	.3005	.3005		
3100.0	H	908.42	908.45	908.53	908.61	908.69	908.85	909.00	909.16	909.32	909.48		
	V	139673.5	82122.4	41081.5	27401.2	20561.1	13720.9	10300.9	8248.8	6880.8	5903.6		
	MU	32.4201	32.4217	32.4255	32.4293	32.4331	32.4408	32.4484	32.4560	32.4636	32.4712		
	C*	32100.8	32104.5	32113.3	32122.1	32130.9	32148.5	32166.2	32183.8	32201.4	32219.0		
	K	13.7379	13.7387	13.7407	13.7426	13.7445	13.7484	13.7522	13.7561	13.7599	13.7637		
	GA	1.3077	1.3077	1.3078	1.3079	1.3080	1.3081	1.3081	1.3084	1.3086	1.3088		
	CP	.3014	.3014	.3014	.3014	.3014	.3015	.3015	.3015	.3016	.3016		
3200.0	H	938.66	938.69	938.77	938.85	938.93	939.09	939.26	939.42	939.58	939.74		
	V	144178.1	84770.5	42405.7	28284.1	21223.3	14162.5	10632.1	8513.9	7101.7	6093.1		
	MU	33.1054	33.1069	33.1107	33.1144	33.1181	33.1255	33.1329	33.1402	33.1476	33.1550		
	C*	32600.4	32604.0	32612.7	32621.4	32630.1	32647.5	32664.8	32682.2	32699.6	32717.0		
	K	14.0763	14.0770	14.0789	14.0808	14.0826	14.0864	14.0901	14.0938	14.0976	14.1013		
	GA	1.3064	1.3064	1.3065	1.3065	1.3066	1.3068	1.3069	1.3071	1.3072	1.3073		
	CP	.3024	.3024	.3025	.3025	.3025	.3025	.3025	.3026	.3026	.3026		
3300.0	H	968.90	968.93	969.01	969.09	969.18	969.34	969.51	969.67	969.83	970.00		
	V	148682.7	87418.6	43729.9	29167.0	21885.5	14604.1	10963.4	8778.9	7122.6	6282.4		
	MU	33.7835	33.7850	33.7886	33.7922	33.7958	33.8030	33.8101	33.8173	33.8244	33.8316		
	C*	33100.0	33103.6	33112.1	33120.7	33129.3	33146.4	33163.5	33180.7	33197.8	33214.9		
	K	14.4133	14.4141	14.4159	14.4177	14.4195	14.4232	14.4268	14.4304	14.4340	14.4376		
	GA	1.3050	1.3051	1.3051	1.3052	1.3053	1.3054	1.3055	1.3057	1.3058	1.3059		
	CP	.3035	.3035	.3035	.3035	.3036	.3036	.3036	.3036	.3037	.3037		
3400.0	H	999.13	999.17	999.25	999.34	999.42	999.59	999.76	999.92	1000.09	1000.26		
	V	153187.1	90066.6	45054.0	30049.8	22547.7	15045.6	11294.5	9043.9	7543.5	6471.7		
	MU	34.4546	34.4560	34.4595	34.4630	34.4665	34.4735	34.4805	34.4874	34.4944	34.5013		
	C*	33599.6	33603.1	33611.6	33620.0	33628.4	33645.3	33662.2	33679.1	33696.0	33712.9		
	K	14.7493	14.7500	14.7518	14.7536	14.7553	14.7588	14.7623	14.7659	14.7694	14.7728		
	GA	1.3037	1.3037	1.3038	1.3038	1.3039	1.3040	1.3042	1.3043	1.3044	1.3045		
	CP	.3046	.3046	.3046	.3046	.3046	.3046	.3047	.3047	.3047	.3048		
3500.0	H	1029.37	1029.41	1029.49	1029.58	1029.66	1029.83	1030.01	1030.18	1030.35	1030.52		
	V	157691.5	92714.5	46378.0	30932.5	23209.7	15487.0	11625.6	9308.8	7764.2	6661.0		
	MU	35.1190	35.1204	35.1238	35.1272	35.1306	35.1374	35.1441	35.1509	35.1576	35.1644		
	C*	34099.2	34102.7	34111.0	34119.3	34127.6	34144.3	34160.9	34177.6	34194.2	34210.8		
	K	15.0842	15.0849	15.0866	15.0883	15.0901	15.0935	15.0969	15.1003	15.1037	15.1071		
	GA	1.3024	1.3024	1.3024	1.3025	1.3026	1.3027	1.3028	1.3029	1.3030	1.3031		
	CP	.3056	.3056	.3057	.3057	.3057	.3057	.3057	.3058	.3058	.3058		
3600.0	H	1059.61	1059.65	1059.73	1059.82	1059.91	1060.08	1060.26	1060.43	1060.60	1060.78		
	V	162195.8	95362.3	47701.9	31815.1	23871.7	15928.3	11956.6	9573.6	7984.9	6850.1		
	MU	35.7770	35.7783	35.7816	35.7849	35.7882	35.7948	35.8014	35.8080	35.8146	35.8211		
	C*	34598.8	34602.2	34610.4	34618.6	34626.8	34643.2	34659.6	34676.0	34692.4	34708.8		
	K	15.4182	15.4189	15.4205	15.4222	15.4239	15.4272	15.4305	15.4338	15.4371	15.4404		
	GA	1.3010	1.3010	1.3011	1.3011	1.3012	1.3013	1.3014	1.3015	1.3016	1.3017		
	CP	.3067	.3067	.3067	.3067	.3067	.3068	.3068	.3068	.3068	.3069		
3700.0	H	1090.58	1090.62	1090.71	1090.79	1090.88	1091.06	1091.23	1091.41	1091.58	1091.76		
	V	166700.5	98010.5	49026.2	32698.1	24534.0	16370.0	12287.9	9838.7	8205.9	7039.6		
	MU	36.4287	36.4301	36.4333	36.4365	36.4397	36.4461	36.4525	36.4589	36.4653	36.4717		
	C*	35040.8	35044.2	35052.2	35060.3	35068.4	35084.5	35100.6	35116.7	35132.8	35149.0		
	K	15.7302	15.7309	15.7325	15.7341	15.7357	15.7390	15.7422	15.7454	15.7486	15.7518		
	GA	1.3002	1.3003	1.3003	1.3004	1.3004	1.3005	1.3006	1.3007	1.3008	1.3008		
	CP	.3073	.3073	.3073	.3073	.3074	.3074	.3074	.3074	.3074	.3075		
3800.0	H	1121.55	1121.59	1121.68	1121.77	1121.86	1122.03	1122.21	1122.39	1122.57	1122.74		
	V	171205.1	100658.6	50350.4	33581.0	25196.3	16811.6	12619.2	10103.8	8426.9	7229.1		
	MU	37.0745	37.0758	37.0790	37.0821	37.0852	37.0915	37.0977	37.1039	37.1102	37.1164		
	C*	35482.9	35486.1	35494.1	35502.0	35509.9	35525.8	35541.6	35557.4	35573.3	35589.1		
	K	16.0407	16.0413	16.0429	16.0445	16.0461	16.0492	16.0523	16.0555	16.0586	16.0617		
	GA	1.2995	1.2995	1.2995	1.2996	1.2996	1.2997	1.2998	1.2998	1.2999	1.3000		
	CP	.3079	.3079	.3079	.3080	.3080	.3080	.3080	.3080	.3081	.3081		
3900.0	H	1152.52	1152.56	1152.65	1152.74	1152.83	1153.01	1153.19	1153.37	1153.55	1153.73		
	V	175709.6	103306.6	51674.5	34463.8	25898.5	17253.1	12950.5	10368.9	8647.8	7418.5		
	MU	37.7145	37.7158	37.7189	37.7219	37.7250	37.7311	37.7371	37.7432	37.7493	37.7553		
	C*	35924.9	35928.1	35935.5	35943.7	35951.5	35967.0	35982.6	35998.2	36013.7	36029.3		
	K	16.3497	16.3503	16.3518	16.3534	16.3549	16.3580	16.3610	16.3641	16.3671	16.3702		
	GA	1.2987	1.2987	1.2987	1.2988	1.2988	1.2989	1.2989	1.2990	1.2991	1.2991		
	CP	.3085	.3086	.3086	.3086	.3086	.3086	.3086	.3086	.3087	.3087		
4000.0	H	1183.49	1183.53	1183.62	1183.71	1183.80	1183.98	1184.16	1184.35	1184.53	1184.71		
	V	180214.1	109954.7	52998.7	35346.7	26520.7	17694.7	13281.7	10633.9	8868.7	7607.8		
	MU	38.3490	38.3502	38.3532	38.3562	38.3592	38.3651	38.3710	38.3770	38.3829	38.3888		
	C*	36366.9	36370.1	36377.7	36385.4	36393.0	36408.3	36423.6	36438.9	36454.2	36469.5		
	K	16.6573	16.6579	16.6594	16.6609	16.6624	16.6654	16.6683	16.6713	16.674			

ENTHALPY-H		SPECIFIC VOLUME-V		VISCOSITY-MU		SONIC VELOCITY-C*		CONDUCTIVITY-K		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP	
BTU/LB		CUIN/LH		LR/(IN-SEC)		IN/SEC		BTU/(SEC-IN-DEG R)				BTU/(LB-DEG R)	
		10**7		10**7				10**7					
PRESSURF PSIA		14.7	25.0	50.0	75.0	100.0	150.0	200.0	250.0	300.0	350.0		
TEMP/ DEG R		NITROGEN											
4000.0	H	1183.49	1183.53	1183.62	1183.71	1183.80	1183.98	1184.16	1184.35	1184.53	1184.71		
	V	180214.1	105954.7	52998.7	35346.7	26520.7	17694.7	13281.7	10633.9	8868.7	7607.8		
	MU	38.3490	38.3502	38.3532	38.3562	38.3592	38.3651	38.3710	38.3770	38.3829	38.3888		
	C*	36366.9	36370.1	36377.7	36385.4	36393.0	36408.3	36423.6	36438.9	36454.2	36469.5		
	K	16.6573	16.6579	16.6594	16.6609	16.6624	16.6654	16.6683	16.6713	16.6743	16.6773		
	GA	1.2979	1.2979	1.2979	1.2980	1.2981	1.2981	1.2982	1.2982	1.2982	1.2983		
	CP	.3092	.3092	.3092	.3092	.3092	.3092	.3092	.3093	.3093	.3093		
4100.0	H	1214.46	1214.50	1214.55	1214.68	1214.78	1214.96	1215.14	1215.32	1215.51	1215.69		
	V	186718.6	108602.6	54322.7	36229.4	27182.8	18136.1	13612.8	10898.8	9089.5	7797.1		
	MU	38.9781	38.5793	28.9822	39.9851	38.9880	38.9938	38.9996	39.0054	39.0111	39.0169		
	C*	36809.0	36812.1	36819.6	36827.1	36834.6	36849.6	36864.6	36879.6	36894.6	36909.6		
	K	16.9635	16.9641	16.9656	16.9670	16.9685	16.9714	16.9743	16.9772	16.9801	16.9830		
	GA	1.2971	1.2971	1.2972	1.2972	1.2972	1.2972	1.2973	1.2973	1.2974	1.2974		
	CP	.3098	.3098	.3098	.3098	.3098	.3098	.3098	.3099	.3099	.3099		
4200.0	H	1245.43	1245.47	1245.56	1245.66	1245.75	1245.93	1246.12	1246.30	1246.49	1246.67		
	V	189223.0	111250.6	55646.8	37112.2	27844.9	18577.6	13943.9	11163.7	9310.3	7986.4		
	MU	39.6019	39.6031	39.6059	39.6088	39.6116	39.6173	39.6229	39.6286	39.6342	39.6399		
	C*	37251.0	37254.0	37261.4	37268.8	37276.1	37290.9	37305.6	37320.3	37335.1	37349.8		
	K	17.2685	17.2651	17.2705	17.2719	17.2734	17.2762	17.2791	17.2819	17.2847	17.2876		
	GA	1.2963	1.2963	1.2964	1.2964	1.2964	1.2964	1.2965	1.2965	1.2965	1.2966		
	CP	.3104	.3104	.3104	.3104	.3104	.3104	.3105	.3105	.3105	.3105		
4300.0	H	1276.40	1276.44	1276.54	1276.63	1276.72	1276.91	1277.10	1277.28	1277.47	1277.66		
	V	193727.4	113898.5	56970.8	37994.9	28506.9	19019.0	14275.0	11428.6	9531.0	8175.6		
	MU	40.2207	40.2219	40.2246	40.2274	40.2302	40.2357	40.2413	40.2468	40.2523	40.2578		
	C*	37693.0	37696.0	37703.2	37710.5	37717.7	37732.1	37746.6	37761.1	37775.5	37790.0		
	K	17.5723	17.5728	17.5742	17.5756	17.5770	17.5798	17.5826	17.5854	17.5881	17.5909		
	GA	1.2956	1.2956	1.2956	1.2956	1.2956	1.2956	1.2957	1.2957	1.2957	1.2957		
	CP	.3110	.3110	.3110	.3110	.3110	.3110	.3111	.3111	.3111	.3111		
4400.0	H	1307.38	1307.41	1307.51	1307.60	1307.70	1307.88	1308.07	1308.26	1308.45	1308.64		
	V	198231.7	116546.3	58294.7	38877.5	29168.9	19460.9	14606.0	11693.4	9751.7	8364.8		
	MU	40.8347	40.8358	40.8385	40.8412	40.8439	40.8493	40.8547	40.8601	40.8655	40.8709		
	C*	38135.1	38138.0	38145.1	38152.1	38159.2	38173.4	38187.6	38201.8	38216.0	38230.1		
	K	17.8749	17.8755	17.8768	17.8782	17.8795	17.8823	17.8850	17.8877	17.8904	17.8931		
	GA	1.2948	1.2948	1.2948	1.2948	1.2948	1.2948	1.2948	1.2948	1.2948	1.2949		
	CP	.3116	.3116	.3116	.3116	.3116	.3117	.3117	.3117	.3117	.3117		
4500.0	H	1338.35	1338.38	1338.48	1338.57	1338.67	1338.86	1339.05	1339.24	1339.43	1339.62		
	V	202736.0	119194.1	59618.6	39760.1	29830.9	19901.6	14937.0	11958.2	9972.4	8553.9		
	MU	41.4438	41.4449	41.4476	41.4502	41.4529	41.4582	41.4635	41.4687	41.4740	41.4793		
	C*	38577.1	38579.9	38586.9	38593.8	38600.8	38614.7	38628.6	38642.5	38656.4	38670.3		
	K	18.1764	18.1770	18.1783	18.1796	18.1810	18.1836	18.1863	18.1889	18.1916	18.1942		
	GA	1.2940	1.2940	1.2940	1.2940	1.2940	1.2940	1.2940	1.2940	1.2940	1.2940		
	CP	.3122	.3122	.3122	.3122	.3122	.3123	.3123	.3123	.3123	.3123		

ENTHALPY-H BTU/LB	SPECIFIC VOLUME-V CUIN/LB	VISCOSITY-MU LB/(IN-SEC) 10**7	SONIC VELOCITY-C* IN/SEC	CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7	SPECIFIC HEAT RATIO-GA	SPECIFIC HEAT-CP BTU/(LB-DEG R)				
TEMP/ DEG R	400.0	500.0	600.0	700.0	800.0 NITROGEN	900.0	1000.0	1500.0	2000.0	2500.0
120.0 H	4.05	4.29	4.53	4.77	5.01	5.25	5.49	6.70	7.93	9.17
V	32.2	32.2	32.2	32.1	32.1	32.0	32.0	31.8	31.6	31.5
MU	151.7804	153.1765	154.5728	155.9692	157.3657	158.7623	160.1573	167.1358	174.1071	181.0654
C*	42603.7	42687.4	42771.7	42856.6	42942.1	43028.0	43114.2	43551.1	43994.4	44441.5
K	21.7783	21.8240	21.8689	21.9130	21.9564	21.9991	22.0411	22.2409	22.4249	22.5946
GA	1.8553	1.8449	1.8348	1.8250	1.8154	1.8062	1.7973	1.7563	1.7207	1.6894
CP	.4763	.4751	.4739	.4728	.4717	.4706	.4695	.4645	.4600	.4559
125.0 H	6.50	6.73	6.96	7.19	7.43	7.66	7.90	9.09	10.29	11.51
V	32.7	32.6	32.6	32.5	32.5	32.4	32.4	32.2	32.0	31.8
MU	131.2322	132.4815	133.7304	134.9788	136.2267	137.4728	138.7192	144.9417	151.1467	157.3308
C*	41535.0	41636.7	41734.6	41832.9	41931.5	42030.2	42129.1	42626.0	43124.0	43621.1
K	20.3057	20.3385	20.3701	20.4008	20.4305	20.4592	20.4869	20.6118	20.7152	20.7990
GA	1.9179	1.9062	1.8949	1.8840	1.8734	1.8632	1.8533	1.8081	1.7691	1.7351
CP	.4772	.4760	.4748	.4736	.4725	.4714	.4703	.4652	.4607	.4567
130.0 H	8.94	9.16	9.39	9.62	9.84	10.07	10.30	11.47	12.65	13.85
V	33.1	33.1	33.0	33.0	32.9	32.9	32.8	32.6	32.4	32.2
MU	114.5874	115.7185	116.8486	117.9776	119.1045	120.2310	121.3564	126.9674	132.5519	138.1090
C*	40436.3	40548.7	40661.0	40773.4	40885.7	40998.0	41110.3	41669.5	42223.8	42771.9
K	19.5386	19.5710	19.6020	19.6319	19.6604	19.6878	19.7140	19.8277	19.9147	19.9772
GA	1.9787	1.9656	1.9530	1.9409	1.9292	1.9179	1.9069	1.8572	1.8147	1.7777
CP	.4767	.4754	.4741	.4728	.4716	.4705	.4693	.4641	.4595	.4555
135.0 H	11.37	11.59	11.81	12.03	12.25	12.48	12.70	13.84	15.00	16.17
V	33.6	33.5	33.5	33.4	33.4	33.3	33.3	33.0	32.8	32.6
MU	100.9389	101.9741	103.0076	104.0388	105.0687	106.0970	107.1238	112.2354	117.3120	122.3549
C*	39167.1	39296.2	39425.0	39553.3	39681.3	39808.9	39936.0	40564.6	41180.7	41784.0
K	19.0232	19.0626	19.1003	19.1365	19.1713	19.2046	19.2365	19.3756	19.4832	19.5619
GA	2.0245	2.0102	1.9964	1.9831	1.9703	1.9580	1.9461	1.8925	1.8469	1.8075
CP	.4785	.4771	.4757	.4743	.4730	.4717	.4705	.4650	.4602	.4561
140.0 H	13.80	14.01	14.22	14.44	14.65	14.87	15.09	16.19	17.33	18.49
V	34.1	34.0	34.0	33.9	33.9	33.8	33.7	33.5	33.2	33.0
MU	89.6172	90.5742	91.5284	92.4806	93.4306	94.3784	95.3242	100.0246	104.6815	109.2988
C*	37881.9	38029.1	38175.3	38320.7	38465.3	38608.9	38751.7	39452.8	40132.8	40792.7
K	18.5516	18.6018	18.6501	18.6967	18.7416	18.7848	18.8264	19.0107	19.1590	19.2744
GA	2.0697	2.0539	2.0388	2.0242	2.0103	1.9968	1.9839	1.9260	1.8771	1.8353
CP	.4797	.4780	.4765	.4750	.4735	.4721	.4708	.4648	.4598	.4555
150.0 H	18.64	18.83	19.03	19.23	19.42	19.63	19.83	20.87	21.95	23.06
V	35.2	35.1	35.0	35.0	34.9	34.8	34.7	34.4	34.1	33.8
MU	72.0755	72.9165	73.7539	74.5877	75.4179	76.2449	77.0687	81.1452	85.1600	89.1226
C*	35152.1	35340.5	35526.8	35710.8	35892.7	36072.6	36250.4	37111.1	37928.9	38708.9
K	17.4694	17.5460	17.6203	17.6922	17.7620	17.8295	17.8949	18.1925	18.4451	18.6577
GA	2.1460	2.1270	2.1088	2.0915	2.0750	2.0592	2.0441	1.9773	1.9222	1.8757
CP	.4846	.4825	.4805	.4786	.4768	.4750	.4734	.4661	.4602	.4552
160.0 H	23.49	23.66	23.83	24.00	24.18	24.36	24.55	25.51	26.52	27.58
V	36.4	36.3	36.2	36.1	36.0	35.9	35.8	35.4	35.0	34.7
MU	59.2349	60.0016	60.7625	61.5179	62.2682	63.0137	63.7546	67.3992	70.9604	74.4534
C*	32392.3	32629.9	32863.0	33092.0	33316.9	33538.1	33755.6	34793.5	35759.8	36666.1
K	16.1755	16.2796	16.3807	16.4787	16.5739	16.6663	16.7560	17.1684	17.5269	17.8384
GA	2.2273	2.2036	2.1813	2.1603	2.1404	2.1215	2.1035	2.0258	1.9633	1.9116
CP	.4913	.4884	.4857	.4831	.4807	.4784	.4763	.4670	.4598	.4540
170.0 H	28.43	28.56	28.70	28.85	29.00	29.15	29.31	30.16	31.10	32.09
V	37.8	37.7	37.6	37.4	37.3	37.2	37.1	36.5	36.0	35.6
MU	49.4682	50.1929	50.9087	51.6164	52.3166	53.0098	53.6966	57.0469	60.2848	63.4374
C*	29844.3	30140.7	30429.3	30710.8	30985.5	31253.8	31516.2	32749.2	33873.0	34909.8
K	14.7836	14.9148	15.0418	15.1649	15.2843	15.4001	15.5126	16.0302	16.4834	16.8828
GA	2.3609	2.3291	2.2996	2.2722	2.2465	2.2225	2.2000	2.1047	2.0306	1.9708
CP	.4560	.4518	.4479	.4443	.4410	.4378	.4349	.4269	.4198	.4147
180.0 H	33.57	33.65	33.74	33.84	33.95	34.07	34.20	34.91	35.74	36.66
V	39.5	39.3	39.1	38.9	38.8	38.6	38.4	37.7	37.1	36.6
MU	41.7537	42.4669	43.1661	43.8528	44.5282	45.1934	45.8492	49.0112	52.0238	54.9275
C*	26898.6	27272.9	27633.7	27982.1	28319.2	28646.0	28963.1	30426.8	31729.2	32909.4
K	13.3895	13.5489	13.7024	13.8504	13.9934	14.1318	14.2658	14.8793	15.4155	15.8898
GA	2.4714	2.4280	2.3887	2.3529	2.3200	2.2897	2.2617	2.1474	2.0623	1.9958
CP	.5161	.5096	.5037	.4984	.4936	.4891	.4851	.4689	.4573	.4485
190.0 H	39.04	39.04	39.05	39.09	39.14	39.20	39.28	39.80	40.50	41.31
V	41.5	41.2	40.9	40.7	40.4	40.2	40.0	39.1	38.4	37.7
MU	35.4091	36.1468	36.8609	37.5547	38.2308	38.8913	39.5372	42.6020	45.4650	48.1892
C*	23926.1	24406.6	24862.6	25297.2	25712.8	26111.5	26494.7	28225.3	29723.2	31054.5
K	12.0317	12.2242	12.4075	12.5835	12.7518	12.9136	13.0694	13.7749	14.3852	14.9238
GA	2.6467	2.5806	2.5230	2.4722	2.4269	2.3861	2.3493	2.2060	2.1056	2.0299
CP	.5466	.5355	.5260	.5177	.5103	.5037	.4978	.4754	.4604	.4495
200.0 H	44.99	44.83	44.72	44.64	44.60	44.58	44.58	44.84	45.36	46.06
V	44.1	43.7	43.2	42.8	42.5	42.2	41.9	40.6	39.7	38.9
MU	29.9237	30.7437	31.5186	32.2570	32.9643	33.6464	34.3064	37.3606	40.1372	42.7365
C*	20509.5	21149.8	21742.1	22294.9	22813.9	23304.6	23770.5	25815.9	27529.0	29020.0
K	10.6920	10.9334	11.1580	11.3690	11.5681	11.7573	11.9378	12.7392	13.4194	14.0149
GA	2.8667	2.7522	2.6595	2.5822	2.5167	2.4601	2.4105	2.2304	2.1140	2.0302
CP	.6098	.5881	.5706	.5562	.5441	.5337	.5246	.4926	.4729	.4592

ENTHALPY-H BTU/LB		SPECIFIC VOLUME-V CUIN/LB		VISCOSITY-MU LB/(IN-SEC) 10**7		SONIC VELOCITY-C* IN/SEC		CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP BTU/(LB-DEG R)			
PRESSURE PSIA		400.0	500.0	600.0	700.0	800.0	900.0	1000.0	1500.0	2000.0	2500.0				
TEMP/ DEG R															
		NITROGEN													
200.0	H	44.99	44.83	44.72	44.64	44.60	44.58	44.58	44.84	45.36	46.06				
	V	44.1	43.7	43.2	42.8	42.5	42.2	41.9	40.6	39.7	38.9				
	MU	29.9237	30.7437	31.5186	32.2570	32.9643	33.6464	34.3064	37.3606	40.1372	42.7365				
	C*	20509.5	21149.8	21742.1	22254.9	22813.9	23304.6	23770.5	25815.9	27529.0	29020.0				
	K	10.6920	10.9334	11.1580	11.3690	11.5681	11.7573	11.9378	12.7392	13.4194	14.0149				
	GA	2.8667	2.7522	2.6595	2.5822	2.5167	2.4601	2.4105	2.2304	2.1140	2.0302				
	CP	.6098	.5881	.5706	.5562	.5441	.5337	.5246	.4926	.4729	.4592				
210.0	H	51.45	50.94	50.56	50.28	50.07	49.91	49.80	49.66	49.96	50.50				
	V	48.0	47.1	46.3	45.6	45.1	44.6	44.1	42.4	41.2	40.2				
	MU	24.7875	25.8284	26.7554	27.6027	28.3905	29.1318	29.8356	32.9737	35.7208	38.2396				
	C*	16655.4	17582.8	18394.5	19122.8	19787.3	20400.8	20972.4	23390.5	25336.7	26991.9				
	K	9.2846	9.6192	9.9133	10.1786	10.4221	10.6483	10.8604	11.7721	12.5228	13.1711				
	GA	3.3438	3.0709	2.8844	2.7466	2.6395	2.5531	2.4815	2.2463	2.1099	2.0172				
	CP	.7475	.6889	.6491	.6200	.5975	.5794	.5646	.5171	.4907	.4736				
220.0	H	96.04	58.56	57.39	56.62	56.07	55.66	55.35	54.62	54.60	54.95				
	V	196.3	52.9	51.0	49.6	48.6	47.7	47.0	44.5	42.8	41.6				
	MU	6.4254	20.7617	22.1413	23.2578	24.2234	25.0893	25.8836	29.2220	31.9935	34.4687				
	C*	7025.8	13334.1	14605.9	15638.8	16525.9	17312.4	18023.9	20883.1	23075.8	24894.5				
	K	2.7921	8.1044	8.5729	8.9479	9.2686	9.5531	9.8112	10.8624	11.6891	12.3891				
	GA	4.9845	3.9937	3.3607	3.0281	2.8163	2.6666	2.5538	2.2354	2.0766	1.9762				
	CP	1.1394	.5766	.8226	.7421	.6910	.6552	.6283	.5540	.5185	.4970				
230.0	H	103.69	92.53	67.67	64.79	63.29	62.31	61.60	59.91	59.48	59.59				
	V	249.0	144.2	61.9	56.7	54.0	52.3	50.9	47.0	44.7	43.2				
	MU	6.1023	7.8307	16.5855	18.7116	20.1356	21.2678	22.2366	25.9339	28.7816	31.2451				
	C*	7679.7	7224.3	10173.7	11935.4	13717.1	14265.4	15169.0	18555.1	21006.2	22987.1				
	K	2.5239	3.3971	6.7610	7.5218	8.0232	8.4182	8.7529	9.9958	10.9082	11.6612				
	GA	2.7581	7.6658	5.8935	3.8953	3.2566	2.9247	2.7155	2.2462	2.0555	1.9447				
	CP	.5854	1.8176	1.5706	1.0349	.8636	.7749	.7191	.5960	.5477	.5208				
240.0	H	108.85	102.53	92.79	79.27	73.43	70.81	69.23	65.90	64.91	64.72				
	V	285.5	195.8	126.5	78.2	64.9	59.8	56.8	50.0	46.9	44.9				
	MU	6.1030	6.8274	8.7644	12.8999	15.7176	17.4544	18.7525	23.0251	25.9982	28.4748				
	C*	8143.4	7849.4	7710.8	8769.5	10519.6	11926.9	13083.6	17121.9	19875.1	22041.3				
	K	2.4335	2.8873	3.7467	5.4299	6.5182	7.1642	7.6393	9.1593	10.1712	10.9791				
	GA	2.2690	3.1676	6.2078	7.9676	4.9258	3.8479	3.3336	2.4789	2.2091	2.0655				
	CP	.4643	.6865	1.4554	1.9792	1.2205	.9484	.8186	.6048	.5395	.5062				
250.0	H	113.18	108.40	102.50	95.06	87.11	81.48	78.14	72.05	70.30	69.74				
	V	316.3	228.2	166.6	120.6	89.7	74.1	66.4	53.8	49.4	46.9				
	MU	6.1811	6.6662	7.5541	9.2426	11.5579	13.7134	15.4093	20.4239	23.5585	26.0672				
	C*	8528.5	8312.4	8165.2	8238.0	8838.8	9941.5	11132.2	15655.3	18688.4	21029.6				
	K	2.3980	2.7280	3.2011	3.5180	4.8884	5.7884	6.4565	8.3459	9.4707	10.3364				
	GA	2.0388	2.4777	3.2915	4.7250	5.6074	4.8808	4.0868	2.7122	2.3485	2.1699				
	CP	.4074	.5154	.7169	1.0800	1.3211	1.1533	.9605	.6263	.5404	.4999				
260.0	H	117.07	113.14	108.66	103.53	97.89	92.40	87.94	78.44	75.73	74.73				
	V	344.0	254.8	194.2	150.1	117.8	95.4	81.3	58.6	52.4	49.0				
	MU	6.2922	6.6664	7.2433	8.1829	9.5649	11.1542	12.6965	18.1183	21.4157	23.9632				
	C*	8866.4	8699.9	8582.1	8566.4	8746.6	9219.2	9967.9	14288.0	17514.4	19999.9				
	K	2.3901	2.6542	2.9967	3.4477	4.0299	4.7090	5.3780	7.5622	8.8050	9.7291				
	GA	1.9022	2.1761	2.5858	3.1838	3.8879	4.3029	4.2080	2.9171	2.4678	2.2562				
	CP	.3737	.4410	.5416	.6998	.8676	.9772	.9594	.6515	.5463	.4986				
270.0	H	120.69	117.32	113.63	109.61	105.30	100.90	96.77	85.04	81.23	79.72				
	V	369.6	278.4	217.0	173.0	140.3	116.1	98.6	64.6	55.8	51.5				
	MU	6.4207	6.7304	7.1620	7.7936	8.6942	9.8242	11.0267	16.1429	19.5430	22.1219				
	C*	9171.9	9040.9	8948.5	8921.7	9000.4	9231.1	9642.2	13164.6	16423.8	19002.1				
	K	2.3988	2.6207	2.8935	3.2294	3.6383	4.1176	4.6400	6.8319	8.1769	9.1599				
	GA	1.8111	2.0034	2.2606	2.5971	2.9979	3.3797	3.6105	3.0390	2.5591	2.3232				
	CP	.3512	.3984	.4614	.5440	.6432	.7389	.7983	.6654	.5531	.4999				
280.0	H	124.12	121.16	118.00	114.64	111.12	107.52	103.99	91.66	86.79	84.73				
	V	393.8	300.0	237.3	192.5	159.2	134.0	114.9	71.8	59.6	54.1				
	MU	6.5592	6.8266	7.1745	7.6480	8.2912	9.1133	10.0516	14.5486	17.9282	20.5134				
	C*	9453.3	9349.4	9277.6	9254.1	9300.2	9439.7	9692.5	12375.8	15477.0	18077.7				
	K	2.4185	2.6106	2.8390	3.1094	3.4264	3.7903	4.1931	6.1903	7.5936	8.6176				
	GA	1.7458	1.8905	2.0714	2.2926	2.5467	2.8141	3.0421	3.0330	2.6133	2.3700				
	CP	.3351	.3706	.4145	.4690	.5318	.5972	.6539	.6553	.5567	.5016				
290.0	H	127.41	124.76	121.98	119.08	116.08	113.04	110.01	98.07	92.34	89.75				
	V	416.9	320.4	255.9	210.0	175.5	149.8	129.7	75.7	64.0	57.1				
	MU	6.7039	6.9411	7.2357	7.6148	8.1077	8.7309	9.4662	13.3415	16.5657	19.1182				
	C*	9715.9	9633.4	9578.6	9562.0	9596.4	9695.6	9872.1	11908.8	14712.8	17259.6				
	K	2.4459	2.6158	2.8129	3.0403	3.3003	3.5933	3.9161	5.6620	7.0646	8.1172				
	GA	1.6966	1.8108	1.9465	2.1063	2.2857	2.4746	2.6544	2.9158	2.6241	2.3954				
	CP	.3229	.3510	.3843	.4232	.4670	.5133	.5574	.6227	.5539	.5018				
300.0	H	130.59	128.19	125.71	123.15	120.53	117.88	115.25	104.08	97.84	94.76				
	V	439.2	339.7	273.4	226.7	191.1	164.2	143.1	87.9	68.8	60.3				
	MU	6.8523	7.0669	7.3242	7.6418	8.0535	8.5325	9.1185	12.4621	15.4435	17.9202				
	C*	9963.2	9582.2	9557.6	9484.5	9479.3	9458.7	10094.7	11683.0	14138.5	16566.9				
	K	2.4789	2.6315	2.8053	3.0021	3.2231	3.4685	3.7367	5.2473	6.5975	7.6586				
	GA	1.6583	1.7513	1.8587	1.9804	2.1144	2.2555	2.3947	2.7457	2.5934	2.3993				
	CP	.3133	.3363	.3626	.3924	.4251	.4595	.4935	.5796	.5437	.4993				

ENTHALPY-H BTU/LB	SPECIFIC VOLUME-V CUIN/LB	VISCOSITY-MU LB/(IN-SEC) 10**7	SONIC VELOCITY-C* IN/SEC	CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7	SPECIFIC HEAT RATIO-GA	SPECIFIC HEAT-CP BTU/(LB-DEG R)				
TEMP/ DEG R	400.0	500.0	600.0	700.0	800.0 NITROGEN	900.0	1000.0	1500.0	2000.0	2500.0
300.0 H	130.59	128.19	125.71	123.15	120.53	117.88	115.25	104.08	97.84	94.76
V	439.2	339.7	273.4	226.2	191.1	164.2	143.1	87.9	68.8	60.3
MU	6.8523	7.0669	7.3242	7.6418	8.0397	8.5325	9.1185	12.4621	15.4435	17.9202
C*	9963.2	9898.2	9857.6	9848.5	9879.3	9958.7	10094.7	11683.0	14138.5	16566.9
K	2.4789	2.6315	2.8053	3.0021	3.2231	3.4685	3.7367	5.2473	6.5975	7.6586
GA	1.6583	1.7513	1.8587	1.9804	2.1144	2.2555	2.3947	2.7457	2.5934	2.3993
CP	.3133	.3363	.3626	.3924	.4251	.4595	.4935	.5796	.5437	.4993
310.0 H	133.68	131.50	129.25	126.96	124.63	122.28	119.95	109.66	103.20	99.73
V	460.9	358.2	289.9	241.3	205.2	177.4	155.6	96.2	73.9	63.7
MU	7.0030	7.2000	7.4298	7.7045	8.0381	8.4419	8.9207	11.8228	14.5409	16.9015
C*	10197.8	10147.5	10118.8	10117.0	10147.7	10216.7	10329.6	11613.4	13737.9	16002.2
K	2.5162	2.6549	2.8106	2.9844	3.1765	3.3881	3.6174	4.9288	6.1959	7.2434
GA	1.6276	1.7053	1.7928	1.8897	1.9945	2.1041	2.2140	2.5708	2.5307	2.3835
CP	.3057	.3249	.3464	.3701	.3957	.4224	.4492	.5364	.5274	.4938
320.0 H	136.70	134.70	132.65	130.57	128.47	126.36	124.27	114.83	108.37	104.62
V	482.0	376.2	305.8	255.8	218.5	189.8	167.2	104.3	79.2	67.4
MU	7.1550	7.3379	7.5465	7.7897	8.0775	8.4190	8.8191	11.3532	13.8273	16.0479
C*	10421.7	10383.9	10365.4	10370.2	10402.4	10466.1	10565.0	11640.5	13480.0	15562.5
K	2.5568	2.6841	2.8253	2.9811	3.1518	3.3375	3.5374	4.6868	5.8576	6.8744
GA	1.6024	1.6687	1.7417	1.8212	1.9060	1.9942	2.0828	2.4137	2.4494	2.3512
CP	.2994	.3158	.3338	.3533	.3740	.3956	.4172	.4980	.5073	.4851
330.0 H	139.67	137.82	135.94	134.04	132.12	130.21	128.32	119.64	113.34	109.42
V	502.6	393.6	321.1	269.6	231.2	201.6	178.2	112.1	84.6	71.2
MU	7.3077	7.4788	7.6706	7.8898	8.1436	8.4392	8.7814	11.0053	13.2681	15.3381
C*	10636.3	10609.2	10595.6	10610.5	10644.9	10705.9	10796.0	11725.8	13331.7	15231.9
K	2.5999	2.7176	2.8470	2.9883	3.1419	3.3076	3.4849	4.5030	5.5767	6.5498
GA	1.5815	1.6388	1.7010	1.7677	1.8381	1.9108	1.9841	2.2802	2.3611	2.3068
CP	.2941	.3084	.3237	.3401	.3574	.3752	.3930	.4655	.4858	.4741
340.0 H	142.59	140.87	139.13	137.38	135.63	133.88	132.15	124.16	118.09	114.10
V	522.8	410.6	336.0	282.9	243.4	212.8	188.7	119.7	90.0	75.1
MU	7.4605	7.6218	7.7999	8.0000	8.2278	8.4886	8.7869	10.7494	12.8308	14.7547
C*	10842.9	10825.1	10823.2	10839.6	10876.6	10936.3	11020.8	11846.0	13264.6	14995.6
K	2.6450	2.7546	2.8740	3.0035	3.1431	3.2928	3.4521	4.3632	5.3458	6.2683
GA	1.5639	1.6141	1.6679	1.7249	1.7845	1.8457	1.9074	2.1693	2.2739	2.2551
CP	.2897	.3022	.3155	.3296	.3442	.3592	.3743	.4385	.4647	.4615
350.0 H	145.47	143.87	142.25	140.63	139.02	137.41	135.81	128.43	122.64	118.65
V	542.7	427.3	350.5	295.1	255.1	223.7	198.8	127.0	95.3	79.0
MU	7.6132	7.7659	7.9327	8.1175	8.3246	8.5584	8.8226	10.5652	12.4884	14.2778
C*	11042.3	11032.7	11037.6	11059.0	11098.5	11158.0	11238.8	11987.1	13256.6	14836.1
K	2.6918	2.7944	2.9054	3.0249	3.1530	3.2895	3.4342	4.2571	5.1574	6.0262
GA	1.5489	1.5932	1.6403	1.6898	1.7411	1.7935	1.8462	2.0775	2.1922	2.2000
CP	.2859	.2970	.3087	.3209	.3335	.3464	.3593	.4161	.4449	.4481
360.0 H	148.31	146.81	145.31	143.81	142.31	140.82	139.34	132.49	126.99	123.06
V	562.4	443.6	364.7	308.5	266.6	234.2	208.5	134.1	100.6	83.0
MU	7.7654	7.9107	8.0679	8.2400	8.4304	8.6427	8.8799	10.4378	12.2188	13.8903
C*	11235.4	11233.0	11243.9	11269.8	11311.9	11371.6	11450.0	12140.6	13290.2	14738.6
K	2.7398	2.8363	2.9401	3.0512	3.1696	3.2952	3.4277	4.1771	5.0038	5.8198
GA	1.5359	1.5755	1.6172	1.6606	1.7053	1.7509	1.7966	2.0013	2.1180	2.1446
CP	.2826	.2925	.3029	.3136	.3247	.3359	.3471	.3976	.4269	.4347
370.0 H	151.12	149.72	148.31	146.91	145.51	144.13	142.76	136.39	131.18	127.34
V	581.7	459.7	378.6	320.8	277.7	244.4	217.9	141.0	105.8	86.9
MU	7.9169	8.0558	8.2047	8.3661	8.5428	8.7375	8.9531	10.3558	12.0073	13.5746
C*	11422.9	11426.8	11443.1	11473.0	11517.6	11577.9	11654.7	12301.0	13354.1	14688.5
K	2.7888	2.8801	2.9775	3.0814	3.1915	3.3078	3.4301	4.1176	4.8795	5.6441
GA	1.5246	1.5602	1.5974	1.6359	1.6754	1.7154	1.7554	1.9375	2.0518	2.0910
CP	.2797	.2886	.2979	.3075	.3172	.3271	.3370	.3820	.4107	.4216
380.0 H	153.91	152.59	151.27	149.96	148.65	147.36	146.09	140.14	135.22	131.49
V	600.9	475.6	392.2	332.9	288.6	254.4	227.1	147.7	110.9	90.9
MU	8.0676	8.2008	8.3425	8.4948	8.6599	8.8402	9.0379	10.3100	11.8426	13.3189
C*	11605.1	11614.8	11635.8	11669.4	11716.3	11777.4	11853.2	12465.0	13439.7	14676.5
K	2.8387	2.9252	3.0172	3.1147	3.2177	3.3261	3.4357	4.0743	4.7792	5.4956
GA	1.5147	1.5469	1.5804	1.6148	1.6499	1.6854	1.7209	1.8838	1.9933	2.0403
CP	.2772	.2853	.2936	.3022	.3109	.3197	.3285	.3688	.3964	.4092
390.0 H	156.67	155.43	154.19	152.96	151.74	150.53	149.34	143.77	139.12	135.53
V	619.9	491.3	405.7	344.8	299.3	264.1	236.1	154.2	115.9	94.8
MU	8.2175	8.3454	8.4808	8.6252	8.7805	8.9487	9.1316	10.2932	11.7167	13.1120
C*	11782.7	11797.4	11822.8	11859.7	11908.8	11970.7	12046.0	12630.4	13540.6	14693.9
K	2.8892	2.9715	3.0587	3.1507	3.2475	3.3489	3.4550	4.0443	4.6989	5.3708
GA	1.5060	1.5353	1.5656	1.5966	1.6281	1.6599	1.6916	1.8380	1.9417	1.9933
CP	.2750	.2823	.2899	.2976	.3055	.3133	.3212	.3576	.3838	.3977
400.0 H	159.41	158.24	157.07	155.91	154.77	153.63	152.52	147.30	142.90	139.45
V	638.6	506.7	419.0	356.5	309.8	273.7	244.9	160.5	120.8	98.7
MU	8.3663	8.4896	8.6193	8.7568	8.9037	9.0615	9.2319	10.2996	11.6231	12.9452
C*	11956.1	11975.3	12004.6	12044.6	12095.6	12158.4	12233.4	12795.8	13652.4	14734.2
K	2.9403	3.0189	3.1017	3.1888	3.2801	3.3756	3.4750	4.0249	4.6352	5.2662
GA	1.4982	1.5251	1.5526	1.5808	1.6092	1.6379	1.6664	1.7988	1.8961	1.9501
CP	.2730	.2797	.2866	.2936	.3007	.3078	.3149	.3479	.3726	.3870

ENTHALPY-H BTU/LB	SPECIFIC VOLUME-V CUIN/LB	VISCOSITY-MU LB/(IN-SEC) 10**7	SONIC VELOCITY-C* IN/SEC	CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7	SPECIFIC HEAT RATIO-GA	SPECIFIC HEAT-CP BTU/(LB-DEG R)				
400.0	500.0	600.0	700.0	800.0	900.0	1000.0	1500.0	2000.0	2500.0	
TEMP/ DEG R				NITROGEN						
400.0 H	159.41	158.24	157.07	155.91	154.77	153.63	152.52	147.30	142.90	139.45
V	638.6	506.7	419.0	356.5	309.8	273.7	244.9	160.5	120.8	98.7
MU	8.3663	8.4896	8.6193	8.7568	8.9037	9.0615	9.2319	10.2996	11.6231	12.9452
C*	11956.1	11975.3	12004.6	12044.5	12095.6	12158.4	12233.4	12795.8	13652.4	14734.2
K	2.9403	3.0169	3.1017	3.1888	3.2801	3.3756	3.4750	4.0249	4.6352	5.2662
GA	1.4982	1.5251	1.5526	1.5808	1.6092	1.6379	1.6664	1.7988	1.8962	1.9501
CP	.2730	.2757	.2866	.2936	.3007	.3078	.3149	.3479	.3726	.3870
410.0 H	162.13	161.02	159.92	158.83	157.76	156.69	155.64	150.73	146.57	143.27
V	657.3	522.1	432.1	368.0	320.2	283.1	253.6	166.7	125.6	102.5
MU	8.5141	8.6331	8.7578	8.8891	9.0286	9.1775	9.3372	10.3246	11.5570	12.8117
C*	12125.5	12148.9	12181.6	12224.2	12277.2	12340.9	12415.7	12960.3	13772.0	14792.3
K	2.9918	3.0670	3.1459	3.2286	3.3151	3.4052	3.4989	4.0143	4.5855	5.1791
GA	1.4913	1.5160	1.5412	1.5668	1.5927	1.6187	1.6445	1.7648	1.8561	1.9106
CP	.2712	.2774	.2837	.2901	.2966	.3030	.3095	.3395	.3627	.3772
420.0 H	164.83	163.79	162.75	161.72	160.70	159.70	158.71	154.09	150.15	147.00
V	675.7	537.2	445.1	379.4	330.3	292.3	262.0	172.8	130.3	106.3
MU	8.6608	8.7759	8.8960	9.0220	9.1549	9.2961	9.4466	10.3647	11.5144	12.7061
C*	12291.2	12318.4	12354.2	12399.3	12454.1	12518.7	12593.5	13123.4	13897.1	14864.0
K	3.0437	3.1157	3.1912	3.2700	3.3521	3.4375	3.5261	4.0111	4.5474	5.1070
GA	1.4851	1.5079	1.5311	1.5545	1.5782	1.6019	1.6254	1.7353	1.8206	1.8747
CP	.2696	.2754	.2812	.2870	.2929	.2988	.3047	.3322	.3539	.3683
430.0 H	167.52	166.53	165.55	164.57	163.61	162.67	161.73	157.38	153.65	150.64
V	694.1	552.3	457.9	390.6	340.4	301.4	270.4	178.8	134.9	110.0
MU	8.8063	8.9179	9.0338	9.1549	9.2821	9.4165	9.5590	10.4171	11.4917	12.6244
C*	12453.6	12484.1	12522.9	12570.3	12626.6	12692.1	12767.0	13284.5	14025.8	14946.5
K	3.0958	3.1650	3.2373	3.3126	3.3909	3.4721	3.5561	4.0141	4.5192	5.0479
GA	1.4795	1.5006	1.5220	1.5436	1.5653	1.5870	1.6086	1.7093	1.7891	1.8421
CP	.2682	.2735	.2789	.2843	.2897	.2951	.3005	.3257	.3461	.3602
440.0 H	170.20	169.26	168.32	167.40	166.49	165.60	164.72	160.61	157.08	154.20
V	712.3	567.2	470.6	401.8	350.3	310.4	278.6	184.7	139.5	113.7
MU	8.9507	9.0590	9.1711	9.2878	9.4098	9.5382	9.6736	10.4794	11.4863	12.5632
C*	12612.8	12646.4	12687.8	12737.3	12795.1	12861.4	12936.5	13443.6	14156.9	15037.2
K	3.1480	3.2147	3.2841	3.3562	3.4310	3.5084	3.5884	4.0223	4.4995	4.9999
GA	1.4745	1.4941	1.5139	1.5338	1.5539	1.5738	1.5936	1.6864	1.7610	1.8125
CP	.2669	.2718	.2768	.2818	.2868	.2918	.2967	.3200	.3391	.3528
450.0 H	172.86	171.97	171.08	170.21	169.34	168.50	167.67	163.78	160.44	157.70
V	730.5	582.0	483.2	412.8	360.1	319.3	286.7	190.4	144.0	117.4
MU	9.0939	9.1991	9.3077	9.4204	9.5378	9.6608	9.7899	10.5500	11.4955	12.5201
C*	12769.1	12805.5	12849.3	12900.6	12959.8	13027.0	13102.2	13600.7	14289.6	15134.6
K	3.2004	3.2647	3.3315	3.4007	3.4723	3.5463	3.6226	4.0350	4.4871	4.9619
GA	1.4699	1.4881	1.5066	1.5251	1.5436	1.5621	1.5803	1.6661	1.7359	1.7857
CP	.2657	.2703	.2749	.2796	.2842	.2888	.2934	.3149	.3328	.3460
460.0 H	175.51	174.66	173.82	173.00	172.18	171.38	170.59	166.90	163.73	161.13
V	748.5	596.7	495.7	423.7	369.8	328.1	294.8	196.1	148.4	121.0
MU	9.2359	9.3383	9.4437	9.5527	9.6655	9.7840	9.9076	10.6270	11.5177	12.4921
C*	12922.6	12961.6	13007.6	13060.7	13121.1	13189.0	13264.4	13755.3	14423.3	15236.3
K	3.2529	3.3150	3.3794	3.4459	3.5147	3.5855	3.6585	4.0513	4.4810	4.9321
GA	1.4657	1.4828	1.4995	1.5171	1.5344	1.5515	1.5684	1.6479	1.7134	1.7613
CP	.2647	.2689	.2733	.2776	.2819	.2861	.2904	.3104	.3272	.3399
470.0 H	178.15	177.35	176.55	175.76	174.99	174.23	173.48	169.99	166.98	164.50
V	766.5	611.4	508.1	434.5	379.5	336.8	302.7	201.8	152.8	124.5
MU	9.3767	9.4764	9.5789	9.6845	9.7939	9.9075	10.0261	10.7094	11.5501	12.4780
C*	13073.5	13114.9	13162.8	13217.5	13279.1	13347.7	13423.4	13907.6	14556.8	15342.0
K	3.3054	3.3655	3.4276	3.4918	3.5575	3.6259	3.6958	4.0710	4.4800	4.9097
GA	1.4619	1.4779	1.4939	1.5100	1.5260	1.5419	1.5577	1.6316	1.6931	1.7390
CP	.2637	.2677	.2717	.2757	.2798	.2837	.2877	.3063	.3221	.3342
480.0 H	180.78	180.02	179.26	178.51	177.77	177.05	176.34	173.03	170.18	167.81
V	784.4	625.9	520.5	445.3	389.0	345.4	310.6	207.3	157.1	128.0
MU	9.5163	9.6136	9.7132	9.8157	9.9216	10.0313	10.1453	10.7964	11.5919	12.4762
C*	13222.0	13265.5	13315.3	13371.4	13434.1	13503.3	13579.2	14057.6	14690.2	15450.7
K	3.3579	3.4162	3.4762	3.5381	3.6018	3.6672	3.7344	4.0934	4.4837	4.8938
GA	1.4584	1.4734	1.4884	1.5034	1.5184	1.5334	1.5480	1.6170	1.6748	1.7187
CP	.2628	.2666	.2703	.2741	.2778	.2816	.2852	.3026	.3174	.3291
490.0 H	183.41	182.68	181.96	181.24	180.54	179.86	179.18	176.04	173.33	171.08
V	802.2	640.4	532.8	456.0	390.5	351.9	318.4	212.8	161.4	131.5
MU	9.6548	9.7497	9.8467	9.9464	10.0490	10.1550	10.2650	10.8871	11.6418	12.4852
C*	13368.1	13413.7	13465.1	13522.6	13586.2	13656.1	13732.1	14205.5	14823.2	15561.5
K	3.4104	3.4669	3.5251	3.5849	3.6463	3.7094	3.7740	4.1183	4.4915	4.8837
GA	1.4552	1.4693	1.4834	1.4975	1.5115	1.5254	1.5391	1.6037	1.6581	1.7002
CP	.2620	.2655	.2691	.2726	.2761	.2796	.2830	.2993	.3133	.3244
500.0 H	186.02	185.33	184.64	183.96	183.30	182.64	182.00	179.02	176.45	174.30
V	819.9	654.9	545.0	466.4	407.5	362.4	326.1	218.2	165.6	134.9
MU	9.7921	9.8848	9.9794	10.0763	10.1760	10.2787	10.3849	10.9809	11.6985	12.5037
C*	13512.1	13559.5	13612.4	13671.1	13735.7	13806.1	13882.3	14351.1	14955.6	15674.0
K	3.4629	3.5177	3.5741	3.6320	3.6914	3.7522	3.8145	4.1454	4.5029	4.8786
GA	1.4522	1.4655	1.4788	1.4920	1.5052	1.5182	1.5311	1.5916	1.6430	1.6832
CP	.2612	.2646	.2679	.2712	.2745	.2778	.2810	.2963	.3094	.3201

ENTHALPY-H BTU/LB		SPECIFIC VOLUME-V CUIN/LB	VISCOSITY-MU LB/(IN-SEC) 10**7	SONIC VELOCITY-C* IN/SEC	CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7	SPECIFIC HEAT RATIO-GA	SPECIFIC HEAT-CP BTU/(LB-DEG R)				
PRESSURE PSIA		400.0	500.0	600.0	700.0	800.0	900.0	1000.0	1500.0	2000.0	2500.0
TEMP/ DEG R		NITROGEN									
500.0	H	186.02	185.33	184.64	183.96	183.30	182.64	182.00	179.02	176.45	174.30
	V	819.9	654.9	545.0	466.6	407.9	362.4	326.1	218.2	165.6	134.9
	MU	9.7921	5.8848	4.9794	10.0763	10.1760	10.2787	10.3849	10.9809	11.6985	12.5037
	C*	13512.1	13559.5	13612.4	13671.1	13735.7	13806.1	13882.3	14351.1	14955.6	15674.0
	K	3.4629	3.5177	3.5741	3.6320	3.6914	3.7522	3.8145	4.1454	4.5029	4.8786
	GA	1.4522	1.4655	1.4788	1.4920	1.5052	1.5182	1.5311	1.5916	1.6430	1.6832
	CP	.2612	.2646	.2679	.2712	.2745	.2778	.2810	.2963	.3094	.3201
510.0	H	188.63	187.97	187.31	186.67	186.03	185.41	184.80	181.97	179.52	177.48
	V	837.6	669.2	557.1	477.2	417.3	370.9	333.8	223.6	169.8	138.3
	MU	9.9283	10.0188	10.1112	10.2056	10.3025	10.4021	10.5048	11.0772	11.7612	12.5301
	C*	13653.9	13703.0	13757.4	13817.2	13882.6	13953.5	14030.0	14494.7	15087.2	15787.0
	K	3.5152	3.5686	3.6233	3.6794	3.7369	3.7957	3.8558	4.1743	4.5175	4.8776
	GA	1.4495	1.4620	1.4745	1.4870	1.4994	1.5116	1.5237	1.5806	1.6292	1.6676
	CP	.2606	.2637	.2668	.2699	.2730	.2761	.2791	.2935	.3059	.3161
520.0	H	191.24	190.60	189.98	189.36	188.76	188.17	187.59	184.89	182.56	180.63
	V	855.2	683.5	569.2	487.6	426.6	379.2	341.4	229.0	173.9	141.7
	MU	10.0633	10.1519	10.2421	10.3342	10.4284	10.5252	10.6248	11.1757	11.8289	12.5644
	C*	13793.8	13844.4	13900.1	13961.0	14027.1	14098.5	14175.1	14636.2	15217.9	15901.0
	K	3.5675	3.6194	3.6726	3.7270	3.7827	3.8396	3.8977	4.2048	4.5348	4.8808
	GA	1.4469	1.4588	1.4706	1.4824	1.4940	1.5056	1.5170	1.5706	1.6165	1.6533
	CP	.2599	.2629	.2658	.2688	.2717	.2746	.2775	.2910	.3025	.3125
530.0	H	193.83	193.23	192.63	192.04	191.47	190.91	190.35	187.79	185.58	183.73
	V	872.8	697.8	581.2	498.1	435.5	387.6	349.0	234.2	178.0	145.0
	MU	10.1972	10.2840	10.3721	10.4620	10.5538	10.6479	10.7445	11.2758	11.9010	12.6053
	C*	13931.8	13983.8	14040.7	14102.6	14169.4	14241.2	14318.0	14775.7	15347.5	16015.5
	K	3.6197	3.6702	3.7220	3.7748	3.8289	3.8840	3.9403	4.2367	4.5545	4.8874
	GA	1.4446	1.4558	1.4670	1.4781	1.4891	1.5000	1.5108	1.5614	1.6049	1.6400
	CP	.2594	.2622	.2649	.2677	.2705	.2732	.2759	.2887	.2998	.3091
540.0	H	196.42	195.84	195.28	194.72	194.17	193.63	193.11	190.67	188.56	186.81
	V	890.3	712.0	593.2	508.5	445.1	395.8	356.5	239.5	182.0	148.4
	MU	10.3301	10.4150	10.5013	10.5890	10.6786	10.7702	10.8641	11.3773	11.9770	12.6521
	C*	14068.0	14121.3	14179.3	14242.0	14309.5	14381.7	14458.6	14913.2	15476.1	16130.1
	K	3.6717	3.7210	3.7714	3.8228	3.8753	3.9288	3.9833	4.2700	4.5764	4.8971
	GA	1.4423	1.4530	1.4636	1.4741	1.4846	1.4949	1.5050	1.5529	1.5942	1.6278
	CP	.2588	.2615	.2641	.2668	.2694	.2719	.2745	.2865	.2971	.3060
550.0	H	199.01	198.46	197.91	197.38	196.86	196.35	195.84	193.52	191.52	189.85
	V	907.8	726.1	605.1	518.8	454.2	404.1	364.0	244.7	186.0	151.6
	MU	10.4619	10.5451	10.6295	10.7153	10.8028	10.8921	10.9834	11.4800	12.0561	12.7042
	C*	14202.4	14256.9	14316.0	14379.5	14447.5	14520.1	14597.1	15048.9	15603.5	16244.6
	K	3.7236	3.7717	3.8208	3.8708	3.9219	3.9738	4.0267	4.3043	4.6002	4.9055
	GA	1.4403	1.4504	1.4605	1.4704	1.4803	1.4901	1.4997	1.5450	1.5843	1.6165
	CP	.2583	.2608	.2634	.2658	.2683	.2708	.2732	.2846	.2946	.3031
560.0	H	201.59	201.06	200.54	200.03	199.54	199.05	198.57	196.36	194.45	192.87
	V	925.2	740.2	617.0	529.2	463.4	412.2	371.4	249.9	190.0	154.9
	MU	10.5926	10.6742	10.7565	10.8409	10.9263	11.0134	11.1024	11.5837	12.1382	12.7609
	C*	14335.1	14390.8	14450.8	14515.0	14583.6	14656.5	14733.7	15182.8	15729.7	16359.0
	K	3.7754	3.8223	3.8702	3.9190	3.9686	4.0191	4.0705	4.3395	4.6258	4.9245
	GA	1.4383	1.4480	1.4575	1.4670	1.4764	1.4857	1.4948	1.5378	1.5751	1.6060
	CP	.2579	.2603	.2627	.2650	.2674	.2697	.2720	.2828	.2924	.3005
570.0	H	204.17	203.66	203.16	202.68	202.20	201.74	201.28	199.18	197.36	195.87
	V	942.6	754.3	628.8	539.4	472.4	420.4	378.8	255.0	194.0	158.1
	MU	10.7224	10.8024	10.8835	10.9656	11.0492	11.1342	11.2211	11.6881	12.2226	12.8218
	C*	14466.3	14523.0	14583.8	14648.7	14717.8	14791.0	14868.3	15314.9	15854.7	16473.1
	K	3.8270	3.8729	3.9196	3.9671	4.0155	4.0647	4.1146	4.3757	4.6528	4.9416
	GA	1.4365	1.4457	1.4548	1.4638	1.4727	1.4815	1.4902	1.5310	1.5666	1.5962
	CP	.2575	.2597	.2620	.2642	.2665	.2687	.2708	.2811	.2902	.2980
580.0	H	206.74	206.26	205.78	205.32	204.87	204.42	203.99	201.98	200.26	198.83
	V	959.9	768.3	640.7	549.7	481.5	428.5	386.2	260.1	197.9	161.3
	MU	10.8512	10.9297	11.0092	11.0897	11.1714	11.2546	11.3393	11.7931	12.3089	12.8864
	C*	14595.8	14653.5	14715.1	14780.7	14850.2	14923.6	15001.0	15445.4	15978.3	16586.7
	K	3.8784	3.9233	3.9685	4.0153	4.0625	4.1104	4.1590	4.4126	4.6810	4.9608
	GA	1.4348	1.4435	1.4522	1.4608	1.4693	1.4777	1.4859	1.5248	1.5587	1.5871
	CP	.2571	.2592	.2614	.2635	.2657	.2677	.2698	.2796	.2883	.2957
590.0	H	209.31	208.85	208.39	207.95	207.52	207.09	206.68	204.77	203.13	201.78
	V	977.3	782.3	652.5	559.9	490.5	436.6	393.5	265.1	201.8	164.5
	MU	10.9790	11.0561	11.1341	11.2130	11.2930	11.3743	11.4571	11.8986	12.3973	12.9542
	C*	14723.9	14782.5	14844.8	14911.0	14980.9	15054.6	15132.0	15574.1	16100.9	16699.8
	K	3.9297	3.9736	4.0182	4.0635	4.1095	4.1562	4.2036	4.4501	4.7106	4.9817
	GA	1.4332	1.4415	1.4498	1.4580	1.4661	1.4741	1.4819	1.5189	1.5513	1.5786
	CP	.2567	.2588	.2608	.2629	.2649	.2669	.2689	.2782	.2864	.2936
600.0	H	211.87	211.43	211.00	210.58	210.16	209.76	209.36	207.54	205.99	204.71
	V	994.5	796.3	664.2	570.3	499.4	444.6	400.8	270.2	205.7	167.7
	MU	11.1059	11.1817	11.2582	11.3356	11.4140	11.4936	11.5745	12.0044	12.4872	13.0250
	C*	14850.6	14910.0	14973.0	15039.6	15109.9	15183.8	15261.3	15701.3	16222.4	16812.3
	K	3.9808	4.0237	4.0673	4.1116	4.1565	4.2021	4.2483	4.4883	4.7412	5.0042
	GA	1.4316	1.4396	1.4475	1.4554	1.4631	1.4707	1.4782	1.5135	1.5444	1.5706
	CP	.2564	.2584	.2603	.2623	.2642	.2661	.2680	.2768	.2848	.2916

ENTHALPY-H BTU/LB		SPECIFIC VOLUME-V CUIN/LB		VISCOSITY-MU LB/(IN-SEC) 10**7		SONIC VELOCITY-C* IN/SEC		CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP BTU/(LB-DEG R)									
PRESSURE PSIA		400.0		500.0		600.0		700.0		800.0		900.0		1000.0		1500.0		2000.0		2500.0	
TEMP/ DEG R										NITROGEN											
600.0	H	211.87	211.43	211.00	210.58	210.16	209.76	209.36	207.54	205.99	204.71										
	V	994.5	796.3	664.2	570.0	499.4	444.6	400.8	270.2	205.7	167.7										
	MU	11.1059	11.1817	11.2582	11.3356	11.4140	11.4936	11.5745	12.0044	12.4872	13.0250										
	C*	14850.6	14910.0	14773.0	15039.6	15109.9	15183.8	15261.3	15701.3	16222.2	16812.3										
	K	3.9808	4.0237	4.0673	4.1116	4.1565	4.2021	4.2483	4.4883	4.7412	5.0042										
	GA	1.4316	1.4396	1.4475	1.4553	1.4631	1.4707	1.4782	1.5135	1.5444	1.5706										
	CP	.2564	.2584	.2603	.2623	.2642	.2661	.2680	.2768	.2848	.2916										
620.0	H	217.00	216.59	216.20	215.81	215.43	215.07	214.71	213.05	211.65	210.50										
	V	1029.0	824.1	687.7	590.3	517.3	460.6	415.4	280.2	213.4	173.9										
	MU	11.3571	11.4303	11.5041	11.5786	11.6540	11.7304	11.8079	12.2169	12.6712	13.1743										
	C*	15099.7	15160.5	15224.7	15292.3	15363.2	15437.5	15515.0	15951.1	16461.4	17035.4										
	K	4.0824	4.1236	4.1654	4.2078	4.2507	4.2942	4.3382	4.5661	4.8053	5.0535										
	GA	1.4288	1.4361	1.4433	1.4505	1.4575	1.4645	1.4713	1.5035	1.5319	1.5561										
	CP	.2558	.2576	.2594	.2612	.2630	.2647	.2664	.2745	.2817	.2880										
640.0	H	222.11	221.74	221.38	221.03	220.68	220.35	220.02	218.52	217.26	216.23										
	V	1063.4	851.9	711.0	610.4	535.1	476.5	429.8	290.1	221.0	180.1										
	MU	11.6049	11.6758	11.7471	11.8190	11.8917	11.9652	12.0396	12.4301	12.8593	13.3320										
	C*	15342.5	15405.6	15470.8	15539.1	15610.6	15685.1	15762.7	16195.1	16695.9	17255.5										
	K	4.1812	4.2229	4.2640	4.3036	4.3447	4.3863	4.4284	4.6455	4.8725	5.1075										
	GA	1.4262	1.4329	1.4395	1.4461	1.4525	1.4589	1.4652	1.4948	1.5209	1.5433										
	CP	.2554	.2570	.2587	.2603	.2619	.2635	.2650	.2725	.2791	.2849										
660.0	H	227.21	226.88	226.55	226.22	225.91	225.61	225.31	223.95	222.82	221.90										
	V	1097.7	879.5	734.2	630.5	552.7	492.3	444.1	299.9	228.6	186.3										
	MU	11.8498	11.9184	11.9874	12.0570	12.1271	12.1980	12.2696	12.6435	13.0507	13.4965										
	C*	15582.3	15645.5	15711.5	15780.5	15852.3	15927.0	16004.6	16433.6	16925.8	17472.6										
	K	4.2832	4.3214	4.3601	4.3991	4.4386	4.4784	4.5187	4.7261	4.9422	5.1655										
	GA	1.4238	1.4299	1.4361	1.4421	1.4481	1.4539	1.4597	1.4869	1.5110	1.5318										
	CP	.2550	.2565	.2580	.2595	.2610	.2625	.2639	.2707	.2768	.2822										
680.0	H	232.31	232.00	231.70	231.41	231.12	230.85	230.58	229.35	228.34	227.52										
	V	1131.8	907.1	757.3	650.4	570.3	508.1	458.3	309.7	236.1	192.3										
	MU	12.0919	12.1584	12.2253	12.2926	12.3605	12.4289	12.4980	12.8569	13.2447	13.6666										
	C*	15816.3	15880.4	15947.2	16016.7	16088.8	16163.7	16241.1	16666.8	17151.2	17686.4										
	K	4.3824	4.4153	4.4485	4.4819	4.5154	4.5491	4.5831	4.8077	5.0140	5.2266										
	GA	1.4215	1.4272	1.4329	1.4384	1.4439	1.4494	1.4549	1.4798	1.5021	1.5215										
	CP	.2547	.2561	.2575	.2589	.2603	.2616	.2629	.2692	.2749	.2799										
700.0	H	237.40	237.12	236.85	236.58	236.32	236.07	235.83	234.72	233.82	233.10										
	V	1165.9	934.5	780.4	670.3	587.8	523.7	472.5	319.4	243.5	198.4										
	MU	12.3315	12.3961	12.4610	12.5263	12.5920	12.6582	12.7250	13.0703	13.4407	13.8414										
	C*	16045.8	16110.6	16178.0	16247.9	16320.3	16395.2	16472.6	16895.0	17372.2	17899.9										
	K	4.4808	4.5164	4.5524	4.5887	4.6252	4.6621	4.6993	4.8899	5.0873	5.2904										
	GA	1.4193	1.4246	1.4299	1.4351	1.4402	1.4452	1.4501	1.4734	1.4941	1.5122										
	CP	.2545	.2558	.2571	.2584	.2597	.2609	.2621	.2679	.2732	.2778										
720.0	H	242.49	242.24	241.99	241.75	241.51	241.28	241.06	240.07	239.27	238.64										
	V	1200.0	961.9	803.3	690.1	605.3	539.3	486.6	329.0	250.8	204.4										
	MU	12.5690	12.6317	12.6948	12.7581	12.8218	12.8860	12.9506	13.2836	13.6383	14.0200										
	C*	16270.9	16336.4	16404.2	16474.4	16547.0	16621.9	16699.1	17118.5	17589.0	18104.0										
	K	4.5783	4.6128	4.6476	4.6826	4.7179	4.7535	4.7894	4.9727	5.1619	5.3563										
	GA	1.4173	1.4222	1.4271	1.4319	1.4366	1.4413	1.4459	1.4675	1.4868	1.5037										
	CP	.2544	.2556	.2568	.2580	.2592	.2603	.2614	.2668	.2717	.2761										
740.0	H	247.58	247.35	247.12	246.90	246.68	246.48	246.29	245.40	244.69	244.14										
	V	1234.0	989.3	826.3	709.9	622.6	554.9	500.7	338.6	258.1	210.3										
	MU	12.8045	12.8656	12.9265	12.9884	13.0503	13.1125	13.1751	13.4968	13.8374	14.2020										
	C*	16491.7	16557.7	16626.0	16696.4	16769.1	16844.0	16921.0	17337.4	17801.6	18307.7										
	K	4.6750	4.7084	4.7421	4.7760	4.8101	4.8445	4.8791	5.0557	5.2376	5.4241										
	GA	1.4153	1.4199	1.4244	1.4289	1.4333	1.4376	1.4419	1.4620	1.4800	1.4959										
	CP	.2544	.2555	.2566	.2577	.2588	.2599	.2609	.2659	.2705	.2745										
760.0	H	252.67	252.46	252.25	252.05	251.86	251.68	251.50	250.71	250.09	249.62										
	V	1267.9	1016.6	849.1	729.6	640.0	570.3	514.7	348.1	265.4	216.2										
	MU	13.0384	13.0979	13.1576	13.2174	13.2775	13.3379	13.3987	13.7100	14.0378	14.3869										
	C*	16708.4	16774.9	16843.4	16914.1	16986.8	17061.6	17138.4	17551.8	18010.2	18508.0										
	K	4.7709	4.8033	4.8359	4.8688	4.9018	4.9351	4.9685	5.1389	5.3140	5.4933										
	GA	1.4133	1.4176	1.4218	1.4260	1.4301	1.4341	1.4381	1.4569	1.4738	1.4887										
	CP	.2544	.2555	.2565	.2575	.2585	.2595	.2605	.2652	.2694	.2732										
780.0	H	257.76	257.57	257.38	257.20	257.03	256.87	256.71	256.00	255.46	255.07										
	V	1301.7	1043.8	871.9	749.2	657.3	585.8	528.6	357.6	272.7	222.0										
	MU	13.2711	13.3291	13.3871	13.4454	13.5035	13.5626	13.6217	13.9233	14.2354	14.5745										
	C*	16921.1	16987.9	17056.7	17127.5	17200.2	17274.9	17351.4	17762.0	18214.8	18704.8										
	K	4.8659	4.8974	4.9290	4.9609	4.9929	5														

ENTHALPY-H BTU/LB	SPECIFIC VOLUME-V CUIN/LB	VISCOSITY-MU LB/(IN-SEC) 10**7	SONIC VELOCITY-C* IN/SEC	CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7	SPECIFIC HEAT RATIO-GA	SPECIFIC HEAT-CP BTU/(LB-DEG R)				
TEMP/ DEG R	400.0	500.0	600.0	700.0	800.0	900.0	1000.0	1500.0	2000.0	2500.0
NITROGEN										
800.0 H	262.85	262.68	262.51	262.35	262.20	262.05	261.91	261.29	260.83	260.51
V	1335.6	1071.0	894.7	768.8	674.5	601.2	542.5	367.1	279.9	227.9
MU	13.5034	13.5559	13.6165	13.6733	13.7302	13.7874	13.8448	14.1375	14.4429	14.7651
C*	17129.9	17197.0	17265.9	17336.7	17409.4	17483.9	17560.2	17967.9	18415.5	18898.2
K	4.9601	4.5907	5.0214	5.0524	5.0834	5.1147	5.1461	5.3055	5.4686	5.6350
GA	1.4093	1.4131	1.4168	1.4205	1.4241	1.4276	1.4311	1.4476	1.4624	1.4756
CP	.2547	.2556	.2565	.2574	.2583	.2592	.2600	.2641	.2678	.2712
820.0 H	267.94	267.79	267.64	267.50	267.36	267.23	267.11	266.57	266.18	265.92
V	1369.3	1098.1	917.4	788.4	691.7	616.5	556.4	376.5	287.0	233.7
MU	13.7159	13.7711	13.8263	13.8817	13.9372	13.9928	14.0488	14.3331	14.6286	14.9392
C*	17334.8	17402.1	17471.2	17542.0	17614.6	17688.9	17764.9	18169.8	18612.3	19088.2
K	5.0534	5.0832	5.1131	5.1432	5.1734	5.2037	5.2342	5.3886	5.5464	5.7071
GA	1.4073	1.4108	1.4143	1.4178	1.4211	1.4243	1.4277	1.4432	1.4577	1.4715
CP	.2550	.2558	.2567	.2575	.2583	.2591	.2600	.2638	.2673	.2705
840.0 H	273.05	272.91	272.78	272.65	272.53	272.42	272.31	271.85	271.52	271.33
V	1403.1	1125.3	940.1	807.9	708.8	631.8	570.2	385.9	294.1	239.4
MU	13.9269	13.9808	14.0347	14.0887	14.1428	14.1971	14.2516	14.5281	14.8145	15.1143
C*	17535.9	17603.4	17672.5	17743.3	17815.8	17889.9	17965.6	18367.5	18805.4	19274.7
K	5.1460	5.1750	5.2041	5.2333	5.2627	5.2921	5.3217	5.4716	5.6244	5.7799
GA	1.4052	1.4086	1.4118	1.4151	1.4182	1.4214	1.4244	1.4390	1.4521	1.4638
CP	.2553	.2561	.2569	.2577	.2585	.2592	.2600	.2636	.2669	.2699
860.0 H	278.16	278.04	277.92	277.81	277.70	277.60	277.51	277.12	276.86	276.72
V	1436.8	1152.3	962.8	827.4	726.0	647.1	584.0	395.2	301.3	245.2
MU	14.1364	14.1890	14.2417	14.2944	14.3473	14.4002	14.4534	14.7225	15.0004	15.2904
C*	17733.3	17800.8	17870.0	17940.7	18013.0	18086.9	18162.3	18561.4	18994.6	19457.8
K	5.2377	5.2660	5.2943	5.3228	5.3514	5.3800	5.4088	5.5544	5.7025	5.8531
GA	1.4031	1.4062	1.4093	1.4123	1.4153	1.4183	1.4212	1.4349	1.4472	1.4583
CP	.2557	.2565	.2572	.2580	.2587	.2594	.2601	.2635	.2666	.2695
880.0 H	283.28	283.17	283.07	282.97	282.88	282.79	282.71	282.39	282.19	282.11
V	1470.4	1179.4	985.4	846.9	743.0	662.3	597.8	404.5	308.3	250.9
MU	14.3444	14.3958	14.4473	14.4989	14.5505	14.6022	14.6540	14.9163	15.1863	15.4671
C*	17926.9	17994.5	18063.6	18134.3	18206.4	18280.0	18355.1	18751.4	19180.1	19637.4
K	5.3286	5.3562	5.3838	5.4116	5.4394	5.4673	5.4953	5.6369	5.7867	5.9267
GA	1.4009	1.4038	1.4067	1.4096	1.4124	1.4152	1.4179	1.4308	1.4425	1.4530
CP	.2562	.2570	.2577	.2584	.2591	.2597	.2604	.2636	.2665	.2692
900.0 H	288.24	288.12	288.01	287.91	287.81	287.71	287.61	287.23	286.98	286.84
V	1505.6	1207.9	1009.5	867.8	761.6	678.9	612.9	415.0	316.4	257.4
MU	14.5507	14.6010	14.6512	14.7014	14.7517	14.8020	14.8525	15.1071	15.3684	15.6395
C*	18108.9	18168.7	18229.3	18290.5	18352.5	18415.1	18478.5	18805.3	19141.5	19490.3
K	5.4186	5.4455	5.4724	5.4994	5.5264	5.5535	5.5807	5.7178	5.8569	5.9981
GA	1.4033	1.4067	1.4098	1.4130	1.4161	1.4192	1.4223	1.4369	1.4494	1.4609
CP	.2561	.2568	.2575	.2582	.2589	.2595	.2602	.2633	.2661	.2687
920.0 H	293.42	293.27	293.15	293.03	292.91	292.79	292.67	292.21	291.88	291.66
V	1540.7	1236.2	1033.4	888.6	779.9	695.4	627.8	425.4	324.4	263.9
MU	14.7557	14.8048	14.8538	14.9028	14.9518	15.0009	15.0500	15.2976	15.5508	15.8128
C*	18257.9	18310.6	18361.5	18412.4	18463.4	18514.3	18565.2	18824.0	19067.2	19315.9
K	5.5079	5.5341	5.5603	5.5865	5.6128	5.6392	5.6656	5.7986	5.9333	6.0699
GA	1.4066	1.4105	1.4141	1.4176	1.4211	1.4247	1.4282	1.4449	1.4567	1.4715
CP	.2559	.2566	.2573	.2580	.2587	.2594	.2601	.2632	.2660	.2685
940.0 H	298.75	298.61	298.50	298.39	298.27	298.16	298.04	297.62	297.32	297.12
V	1574.2	1263.0	1055.8	907.8	796.8	710.5	641.4	434.6	331.4	269.6
MU	14.9595	15.0076	15.0556	15.1035	15.1515	15.1996	15.2476	15.4896	15.7364	15.9911
C*	18414.8	18468.1	18518.0	18567.9	18617.7	18667.6	18717.5	18975.1	19213.4	19464.8
K	5.5965	5.6221	5.6477	5.6734	5.6991	5.7248	5.7506	5.8803	6.0115	6.1443
GA	1.4052	1.4090	1.4125	1.4160	1.4195	1.4230	1.4264	1.4429	1.4564	1.4690
CP	.2564	.2571	.2578	.2585	.2592	.2599	.2606	.2636	.2664	.2689
960.0 H	304.08	303.95	303.85	303.74	303.63	303.53	303.42	303.03	302.76	302.59
V	1607.6	1289.9	1078.3	927.1	813.8	725.6	655.0	443.8	338.3	275.2
MU	15.1620	15.2091	15.2561	15.3031	15.3501	15.3971	15.4442	15.6807	15.9216	16.1694
C*	18571.7	18625.7	18674.5	18723.3	18772.1	18820.9	18869.7	19126.1	19359.5	19613.7
K	5.6844	5.7094	5.7345	5.7595	5.7846	5.8098	5.8349	5.9615	6.0894	6.2187
GA	1.4037	1.4075	1.4110	1.4144	1.4178	1.4212	1.4247	1.4408	1.4541	1.4665
CP	.2569	.2577	.2583	.2590	.2597	.2604	.2610	.2641	.2668	.2692
980.0 H	309.42	309.30	309.20	309.10	309.00	308.90	308.80	308.44	308.20	308.06
V	1641.1	1316.7	1100.7	946.4	830.7	740.7	668.6	453.0	345.3	280.9
MU	15.3631	15.4093	15.4554	15.5014	15.5475	15.5935	15.6396	15.8711	16.1062	16.3476
C*	18728.6	18783.2	18831.0	18878.7	18926.5	18974.2	19022.0	19277.2	19505.7	19762.6
K	5.7715	5.7960	5.8205	5.8450	5.8695	5.8941	5.9187	6.0423	6.1670	6.2930
GA	1.4023	1.4060	1.4094	1.4128	1.4162	1.4195	1.4229	1.4387	1.4518	1.4640
CP	.2575	.2582	.2589	.2595	.2602	.2608	.2615	.2645	.2671	.2695
1000.0 H	314.75	314.64	314.55	314.45	314.36	314.27	314.17	313.85	313.63	313.52
V	1674.6	1343.6	1123.1	965.7	847.6	755.7	682.2	462.1	352.3	286.5
MU	15.5630	15.6083	15.6535	15.6986	15.7437	15.7889	15.8340	16.0606	16.2903	16.5256
C*	18885.5	18940.8	18987.5	19034.2	19080.8	19127.5	19174.2	19428.2	19651.4	19911.4
K	5.8579	5.8819	5.9058	5.9298	5.9538	5.9779	6.0019	6.1227	6.2444	6.3672
GA	1.4009	1.4046	1.4079	1.4112	1.4145	1.4178	1.4211	1.4367	1.4496	1.4614
CP	.2580	.2587	.2594	.2600	.2607	.2613	.2620	.2649	.2675	.2699

ENTHALPY-H BTU/LB		SPECIFIC VOLUME-V CUIN/LB		VISCOSITY- μ LB/(IN-SEC) 10**7		SONIC VELOCITY-C* IN/SEC		CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP BTU/(LB-DEG R)	
PRESSURE PSIA TEMP/ DEG R		400.0	500.0	600.0	700.0	800.0	900.0	1000.0	1500.0	2000.0	2500.0		
NITROGEN													
1000.0	H	314.75	314.64	314.55	314.45	314.36	314.27	314.17	313.85	313.63	313.52		
	V	1674.6	1341.6	1123.1	965.7	847.6	755.7	682.2	462.1	352.3	286.5		
	MU	15.5630	15.6082	15.6535	15.6986	15.7437	15.7889	15.8340	16.0606	16.2903	16.5256		
	C*	18885.5	18940.8	18987.5	19034.2	19080.8	19127.5	19174.2	19428.2	19651.9	19911.4		
	K	5.8579	5.8819	5.9058	5.9298	5.9538	5.9779	6.0019	6.1227	6.2444	6.3672		
	GA	1.4009	1.4046	1.4079	1.4112	1.4145	1.4178	1.4211	1.4367	1.4496	1.4614		
	CP	.2580	.2587	.2594	.2600	.2607	.2613	.2620	.2649	.2675	.2699		
1100.0	H	341.42	341.35	341.25	341.23	341.17	341.12	341.06	340.89	340.83	340.85		
	V	1841.9	1477.8	1235.3	1062.0	932.1	831.1	750.2	508.0	387.1	314.7		
	MU	16.5442	16.5855	16.6267	16.6678	16.7088	16.7499	16.7909	16.9960	17.2024	17.4118		
	C*	19669.9	19728.6	19789.5	19852.7	19911.3	19974.1	20035.4	20183.4	20382.8	20655.9		
	K	6.2792	6.3009	6.3226	6.3443	6.3660	6.3876	6.4093	6.5178	6.6265	6.7358		
	GA	1.3938	1.3971	1.4001	1.4032	1.4062	1.4092	1.4122	1.4381	1.4481	1.4581		
	CP	.2607	.2613	.2619	.2625	.2631	.2637	.2643	.2674	.2694	.2715		
1200.0	H	368.09	368.05	368.03	368.01	367.99	367.97	367.94	367.94	368.02	368.19		
	V	2009.1	1612.0	1347.4	1158.4	1016.6	906.4	818.2	553.8	421.9	342.8		
	MU	17.4974	17.5354	17.5732	17.6110	17.6487	17.6863	17.7239	17.9115	18.0992	18.2885		
	C*	20454.4	20516.3	20552.4	20588.5	20624.5	20660.6	20696.7	20938.7	21113.7	21400.3		
	K	6.6841	6.7039	6.7237	6.7435	6.7632	6.7830	6.8027	6.9012	7.0007	7.0982		
	GA	1.3867	1.3897	1.3924	1.3951	1.3979	1.4006	1.4033	1.4160	1.4267	1.4363		
	CP	.2634	.2640	.2645	.2650	.2656	.2661	.2666	.2696	.2712	.2731		
1300.0	H	394.76	394.76	394.77	394.79	394.80	394.81	394.83	394.99	395.22	395.52		
	V	2176.4	1746.1	1459.4	1254.6	1101.1	981.6	886.0	599.6	456.5	370.8		
	MU	18.4255	18.4606	18.4956	18.5306	18.5654	18.6002	18.6349	18.8078	18.9802	19.1532		
	C*	21238.9	21304.1	21334.5	21365.6	21396.4	21427.1	21457.9	21693.9	21844.6	22144.8		
	K	7.0738	7.0970	7.1103	7.1285	7.1466	7.1648	7.1829	7.2732	7.3632	7.4531		
	GA	1.3796	1.3822	1.3847	1.3871	1.3896	1.3920	1.3944	1.4057	1.4152	1.4238		
	CP	.2661	.2666	.2671	.2675	.2680	.2685	.2690	.2711	.2730	.2748		
1400.0	H	421.44	421.47	421.52	421.57	421.61	421.66	421.71	422.03	422.41	422.85		
	V	2343.6	1880.2	1571.5	1350.9	1185.5	1056.8	953.9	645.3	491.1	398.7		
	MU	19.3308	19.3635	19.3961	19.4286	19.4610	19.4933	19.5255	19.6860	19.8456	20.0052		
	C*	22023.3	22091.9	22117.3	22142.8	22168.2	22193.7	22219.1	22449.1	22575.4	22889.2		
	K	7.4496	7.4665	7.4834	7.5003	7.5171	7.5339	7.5506	7.6341	7.7171	7.7997		
	GA	1.3726	1.3748	1.3769	1.3791	1.3813	1.3834	1.3856	1.3953	1.4038	1.4112		
	CP	.2688	.2692	.2696	.2700	.2705	.2709	.2713	.2732	.2749	.2764		
1500.0	H	448.11	448.18	448.26	448.34	448.43	448.51	448.60	449.08	449.61	450.18		
	V	2510.8	2014.3	1683.5	1447.1	1269.9	1132.0	1021.7	690.9	525.6	426.5		
	MU	20.2153	20.2459	20.2764	20.3067	20.3370	20.3672	20.3973	20.5471	20.6958	20.8440		
	C*	22807.8	22879.7	22899.8	22919.9	22940.1	22960.2	22980.3	23204.3	23306.3	23633.7		
	K	7.8127	7.8285	7.8442	7.8599	7.8756	7.8912	7.9068	7.9844	8.0614	8.1381		
	GA	1.3655	1.3673	1.3692	1.3711	1.3729	1.3748	1.3767	1.3850	1.3923	1.3987		
	CP	.2715	.2718	.2722	.2725	.2729	.2733	.2736	.2752	.2767	.2781		
1600.0	H	474.78	474.88	475.00	475.12	475.24	475.36	475.48	476.13	476.80	477.52		
	V	2678.0	2148.4	1795.4	1543.3	1354.2	1207.1	1089.4	736.5	560.1	454.2		
	MU	21.0808	21.1095	21.1381	21.1666	21.1951	21.2234	21.2517	21.3921	21.5313	21.6700		
	C*	23592.3	23667.4	23682.3	23697.1	23711.9	23726.7	23741.6	23959.6	24037.2	24378.1		
	K	8.1641	8.1789	8.1937	8.2083	8.2230	8.2376	8.2522	8.3247	8.3966	8.4681		
	GA	1.3584	1.3599	1.3615	1.3630	1.3646	1.3662	1.3678	1.3747	1.3809	1.3861		
	CP	.2741	.2745	.2748	.2750	.2753	.2756	.2759	.2773	.2786	.2797		
1700.0	H	501.45	501.59	501.75	501.90	502.06	502.21	502.37	503.17	504.00	504.85		
	V	2845.1	2282.5	1907.4	1639.4	1438.2	1282.2	1157.2	782.0	594.5	481.9		
	MU	21.9287	21.9558	21.9827	22.0096	22.0364	22.0631	22.0898	22.2220	22.3530	22.4833		
	C*	24376.7	24455.2	24464.7	24474.2	24483.8	24493.3	24502.8	24714.8	24768.1	25122.6		
	K	8.5330	8.5469	8.5607	8.5745	8.5883	8.6021	8.6158	8.6838	8.7513	8.8183		
	GA	1.3513	1.3524	1.3537	1.3550	1.3563	1.3576	1.3589	1.3643	1.3694	1.3736		
	CP	.2768	.2771	.2773	.2776	.2778	.2780	.2783	.2794	.2804	.2814		
1800.0	H	528.12	528.30	528.49	528.68	528.87	529.06	529.25	530.22	531.19	532.18		
	V	3012.2	2416.5	2019.3	1735.5	1527.7	1357.2	1224.8	827.5	628.8	509.5		
	MU	22.7604	22.7860	22.8115	22.8369	22.8622	22.8875	22.9126	23.0376	23.1614	23.2843		
	C*	25161.2	25243.0	25247.2	25251.4	25255.6	25259.8	25264.0	25470.0	25499.0	25867.0		
	K	8.9479	8.9611	8.9741	8.9872	9.0002	9.0131	9.0260	9.0902	9.1538	9.2169		
	GA	1.3442	1.3450	1.3460	1.3470	1.3480	1.3490	1.3500	1.3540	1.3580	1.3610		
	CP	.2795	.2797	.2799	.2801	.2802	.2804	.2806	.2814	.2822	.2830		
1900.0	H	557.06	557.25	557.46	557.66	557.86	558.06	558.26	559.29	560.32	561.36		
	V	3178.7	2549.8	2130.6	1806.4	1506.2	1311.1	1157.2	782.6	662.8	536.9		
	MU	23.5769	23.6012	23.6254	23.6495	23.6736	23.6975	23.7214	23.8400	23.9573	24.0737		
	C*	25726.2	25803.0	25810.8	25818.6	25826.4	25834.1	25841.9	26045.1	26090.8	26436.1		
	K	9.3350	9.3474	9.3598	9.3721	9.3845	9.3967	9.4090	9.4697	9.5299	9.5895		
	GA	1.3409	1.3417	1.3426	1.3435	1.3445	1.3454	1.3463	1.3501	1.3539	1.3577		
	CP	.2815	.2817	.2819	.2820	.2822	.2824	.2825	.2833	.2841	.2848		
2000.0	H	586.00	586.21	586.42	586.63	586.85	587.06	587.28	588.36	589.45	590.54		
	V	3345.1	2683.1	2241.7	1926.5	1670.1	1506.2	1359.0	917.6	696.7	564.2		
	MU	24.3794	24.4025	24.4255	24.4484	24.4713	24.4941	24.5169	24.6296	24.7411	24.8518		
	C*	26291.1	26363.0	26374.4	26385.7	26397.1	26408.4	26419.8	26620.2	26682.6	27005.2		
	K	9.7208	9.7326	9.7444	9.7561	9.7678	9.7794	9.7911	9.8487	9.9058	9.9624		
	GA	1.3376	1.3383	1.3392	1.3401	1.3409	1.3418	1.3427	1.3462	1.3498	1.3533		
	CP	.2835	.2837	.2839	.2840	.2841	.2843	.2844	.2852	.2859	.2866

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ENTHALPY-H BTU/LB	SPECIFIC VOLUME-V CUIN/LB	VISCOSITY-MU LB/(IN-SEC) 10**7	SONIC VELOCITY-C* IN/SEC	CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7	SPECIFIC HEAT RATIO-GA	SPECIFIC HEAT-CP BTU/(LB-DEG R)				
400.0	500.0	600.0	700.0	800.0	900.0	1000.0				
TEMP/ DEG R				NITROGEN						
3000.0 H	879.38	879.69	880.00	880.32	880.64	880.96	881.27	882.85	884.42	885.97
V	5004.9	4012.0	3349.9	2877.1	2522.4	2246.6	2025.9	1363.7	1032.5	833.7
MU	31.7878	31.8034	31.8195	31.8344	31.8495	31.8653	31.8807	31.9569	32.0324	32.1070
C*	31738.9	31774.7	31809.7	31844.7	31879.7	31914.7	31949.7	32123.3	32295.0	32455.7
K	13.4289	13.4368	13.4446	13.4525	13.4603	13.4681	13.4759	13.5144	13.5526	13.5904
GA	1.3103	1.3107	1.3110	1.3113	1.3117	1.3120	1.3123	1.3140	1.3157	1.3167
CP	.3006	.3006	.3007	.3008	.3008	.3009	.3010	.3013	.3017	.3020
3100.0 H	909.64	909.96	910.28	910.60	910.93	911.25	911.57	913.18	914.78	916.36
V	5170.9	4144.7	3460.6	2972.0	2635.5	2320.5	2092.4	1408.2	1065.9	860.5
MU	32.4783	32.4935	32.5085	32.5240	32.5389	32.5539	32.5688	32.6427	32.7157	32.7881
C*	32236.6	32271.9	32306.4	32341.0	32375.5	32410.0	32444.6	32615.8	32785.0	32944.6
K	13.7676	13.7752	13.7828	13.7904	13.7980	13.8055	13.8130	13.8504	13.8873	13.9239
GA	1.3089	1.3092	1.3095	1.3098	1.3102	1.3105	1.3108	1.3123	1.3139	1.3149
CP	.3016	.3017	.3018	.3018	.3019	.3020	.3020	.3023	.3027	.3030
3200.0 H	939.90	940.22	940.55	940.88	941.27	941.55	941.88	943.52	945.14	946.75
V	5336.5	4277.4	3571.3	3066.9	2688.6	2394.3	2158.9	1452.6	1099.3	887.3
MU	33.1623	33.1770	33.1916	33.2061	33.2206	33.2351	33.2496	33.3212	33.3921	33.4623
C*	32734.4	32769.1	32803.2	32837.2	32871.3	32905.4	32939.4	33108.2	33275.0	33433.4
K	14.1050	14.1124	14.1197	14.1271	14.1344	14.1417	14.1490	14.1852	14.2211	14.2565
GA	1.3075	1.3078	1.3081	1.3084	1.3086	1.3089	1.3092	1.3107	1.3121	1.3131
CP	.3027	.3027	.3028	.3029	.3029	.3030	.3030	.3034	.3037	.3040
3300.0 H	970.16	970.49	970.83	971.17	971.50	971.84	972.18	973.85	975.50	977.14
V	5502.3	4410.1	3681.8	3161.7	2771.5	2468.1	2225.4	1497.0	1132.7	914.0
MU	33.8387	33.8529	33.8671	33.8812	33.8953	33.9094	33.9234	33.9930	34.0618	34.1299
C*	33232.1	33266.3	33299.9	33333.5	33367.1	33400.7	33434.3	33600.7	33765.0	33922.3
K	14.4412	14.4484	14.4555	14.4627	14.4698	14.4769	14.4839	14.5191	14.5538	14.5882
GA	1.3061	1.3063	1.3066	1.3069	1.3071	1.3074	1.3077	1.3090	1.3103	1.3113
CP	.3037	.3038	.3038	.3039	.3040	.3040	.3041	.3044	.3047	.3049
3400.0 H	1000.43	1000.76	1001.11	1001.45	1001.79	1002.13	1002.48	1004.18	1005.86	1007.53
V	5667.9	4542.6	3792.3	3256.4	2854.5	2541.8	2291.7	1541.3	1166.0	940.7
MU	34.5082	34.5220	34.5358	34.5495	34.5632	34.5769	34.5905	34.6581	34.7250	34.7912
C*	33729.8	33763.6	33797.6	33831.2	33864.8	33898.1	33931.2	34093.1	34255.0	34411.2
K	14.7763	14.7833	14.7902	14.7972	14.8041	14.8110	14.8178	14.8520	14.8857	14.9191
GA	1.3046	1.3049	1.3051	1.3054	1.3056	1.3059	1.3061	1.3073	1.3086	1.3096
CP	.3048	.3048	.3049	.3049	.3050	.3051	.3051	.3054	.3057	.3059
3500.0 H	1030.69	1031.03	1031.38	1031.73	1032.08	1032.43	1032.78	1034.51	1036.22	1037.92
V	5833.5	4675.1	3902.8	3351.1	2937.3	2615.5	2358.0	1585.5	1199.2	967.3
MU	35.1711	35.1845	35.1979	35.2113	35.2246	35.2379	35.2511	35.3169	35.3819	35.4464
C*	34227.5	34260.8	34293.4	34326.1	34358.8	34391.4	34424.1	34585.6	34745.0	34900.1
K	15.1105	15.1172	15.1240	15.1307	15.1374	15.1441	15.1508	15.1840	15.2168	15.2493
GA	1.3032	1.3034	1.3037	1.3039	1.3041	1.3043	1.3046	1.3057	1.3068	1.3078
CP	.3058	.3059	.3059	.3060	.3060	.3061	.3061	.3064	.3066	.3069
3600.0 H	1060.95	1061.30	1061.66	1062.01	1062.37	1062.72	1063.08	1064.84	1066.58	1068.31
V	5999.1	4807.6	4013.1	3445.7	3020.1	2689.1	2424.3	1629.7	1232.3	993.8
MU	35.8277	35.8407	35.8537	35.8667	35.8797	35.8926	35.9055	35.9695	36.0329	36.0956
C*	34725.2	34758.0	34790.2	34822.4	34854.6	34886.8	34919.0	35078.0	35235.0	35389.0
K	15.4437	15.4503	15.4565	15.4634	15.4699	15.4764	15.4829	15.5152	15.5471	15.5788
GA	1.3018	1.3020	1.3022	1.3024	1.3026	1.3028	1.3030	1.3040	1.3050	1.3059
CP	.3069	.3069	.3070	.3070	.3071	.3071	.3072	.3074	.3076	.3079
3700.0 H	1091.94	1092.29	1092.65	1093.01	1093.37	1093.73	1094.09	1095.87	1097.63	1099.37
V	6164.9	4940.3	4123.8	3540.6	3103.2	2763.0	2490.8	1674.2	1265.8	1020.6
MU	36.4781	36.4908	36.5035	36.5161	36.5287	36.5413	36.5539	36.6162	36.6779	36.7390
C*	35165.1	35197.3	35229.2	35261.3	35293.3	35325.3	35357.3	35515.4	35669.8	35823.1
K	15.7550	15.7615	15.7678	15.7742	15.7806	15.7869	15.7932	15.8246	15.8557	15.8865
GA	1.3009	1.3011	1.3013	1.3015	1.3017	1.3019	1.3021	1.3031	1.3040	1.3050
CP	.3075	.3075	.3076	.3076	.3077	.3077	.3078	.3080	.3082	.3084
3800.0 H	1122.92	1123.28	1123.64	1124.00	1124.37	1124.73	1125.09	1126.89	1128.67	1130.44
V	6330.7	5073.0	4234.4	3635.5	3186.3	2836.9	2557.4	1718.6	1299.2	1047.4
MU	37.1226	37.1350	37.1473	37.1597	37.1720	37.1842	37.1964	37.2572	37.3173	37.3769
C*	35605.0	35636.7	35668.5	35700.3	35732.1	35763.9	35795.7	35952.9	36104.6	36257.2
K	16.0649	16.0711	16.0773	16.0835	16.0897	16.0959	16.1021	16.1326	16.1629	16.1929
GA	1.3001	1.3002	1.3004	1.3006	1.3008	1.3010	1.3012	1.3022	1.3030	1.3040
CP	.3081	.3081	.3082	.3082	.3083	.3083	.3084	.3086	.3088	.3090
3900.0 H	1153.90	1154.26	1154.63	1155.00	1155.37	1155.73	1156.10	1157.92	1159.72	1161.50
V	6496.5	5205.7	4345.0	3730.3	3269.3	2910.7	2623.8	1763.0	1332.6	1074.2
MU	37.7614	37.7735	37.7855	37.7975	37.8095	37.8215	37.8334	37.8927	37.9513	38.0094
C*	36044.9	36076.0	36107.6	36139.2	36170.9	36202.4	36234.0	36390.3	36539.3	36691.3
K	16.3732	16.3793	16.3854	16.3914	16.3975	16.4035	16.4095	16.4393	16.4688	16.4981
GA	1.2992	1.2993	1.2995	1.2997	1.2999	1.3001	1.3003	1.3013	1.3020	1.3030
CP	.3087	.3087	.3088	.3088	.3089	.3089	.3090	.3092	.3094	.3096
4000.0 H	1184.89	1185.25	1185.62	1185.99	1186.36	1186.74	1187.11	1188.94	1190.76	1192.57
V	6662.2	5338.3	4455.6	3825.1	3352.2	2984.5	2690.2	1807.4	1365.9	1100.9
MU	38.3947	38.4065	38.4182	38.4300	38.4417	38.4533	38.4650	38.5228	38.5800	38.6367
C*	36484.8	36515.3	36546.7	36578.1	36609.5	36640.9	36672.3	36827.8	36974.1	37125.4
K	16.6802	16.6862	16.6921	16.6980	16.7039	16.7097	16.7156	16.7447	16.7735	16.8020
GA	1.2983	1.2984	1.2986	1.2988	1.2990	1.2992	1.2994	1.3004	1.3010	1.3020
CP	.3094	.3093	.3094	.3094	.3095	.3095	.3096	.3098	.3099	.3101

ENTHALPY-H BTU/LB		SPECIFIC VOLUME-V CUIN/LB		VISCOSITY-MU LB/(IN-SEC) 10**7		SONIC VELOCITY-C* IN/SEC		CONDUCTIVITY-K BTU/(SEC-IN-DEG R) 10**7		SPECIFIC HEAT RATIO-GA		SPECIFIC HEAT-CP BTU/(LB-DEG R)	
PRESSURE PSIA		400.0	500.0	600.0	700.0	800.0	900.0	1000.0	1500.0	2000.0	2500.0		
TEMP/ DEG R		NITROGEN											
4000.0	H	1184.89	1185.25	1185.67	1185.99	1186.36	1186.74	1187.11	1188.94	1190.76	1192.57		
	V	6662.2	5338.3	4455.6	3875.1	3352.2	2984.5	2690.2	1807.4	1365.9	1100.9		
	MU	38.3947	38.4065	38.4182	38.4303	38.4417	38.4533	38.4650	38.5228	38.5800	38.6367		
	C*	36484.8	36515.3	36546.7	36578.1	36609.5	36640.9	36672.3	36827.8	36974.1	37125.4		
	K	16.6802	16.6862	16.6921	16.6980	16.7039	16.7097	16.7156	16.7447	16.7735	16.8020		
	GA	1.2983	1.2984	1.2986	1.2988	1.2990	1.2992	1.2994	1.3004	1.3010	1.3020		
4100.0	CP	.3093	.3093	.3094	.3094	.3095	.3095	.3096	.3098	.3099	.3101		
	H	1215.87	1216.24	1216.61	1216.99	1217.36	1217.74	1218.11	1219.97	1221.81	1223.63		
	V	6827.8	5470.8	4566.1	3919.9	3435.2	3058.2	2756.6	1851.7	1399.2	1127.5		
	MU	39.6227	39.6342	39.6456	39.6571	39.6685	39.6799	39.6913	39.1477	39.2036	39.2589		
	C*	36924.6	36954.7	36985.5	37017.1	37048.3	37079.5	37110.7	37265.2	37408.9	37559.6		
	K	16.5859	16.5917	16.5975	17.0033	17.0090	17.0147	17.0204	17.0488	17.0769	17.1048		
4200.0	GA	1.2975	1.2976	1.2978	1.2980	1.2982	1.2984	1.2986	1.2996	1.3000	1.3010		
	CP	.3099	.3100	.3100	.3100	.3101	.3101	.3101	.3103	.3105	.3107		
	H	1246.86	1247.23	1247.61	1247.98	1248.36	1248.74	1249.12	1250.99	1252.85	1254.70		
	V	6993.5	5603.4	4676.6	4014.6	3518.1	3131.9	2822.9	1896.0	1432.4	1154.2		
	MU	39.6455	39.6567	39.6679	39.6791	39.6903	39.7014	39.7125	39.7676	39.8222	39.8763		
	C*	37364.5	37394.0	37425.0	37456.0	37487.0	37518.0	37549.0	37702.7	37843.7	37993.7		
4300.0	K	17.2904	17.2960	17.3017	17.3073	17.3129	17.3185	17.3241	17.3518	17.3793	17.4065		
	GA	1.2966	1.2967	1.2969	1.2971	1.2973	1.2975	1.2977	1.2987	1.2990	1.3000		
	CP	.3105	.3106	.3106	.3106	.3107	.3107	.3107	.3109	.3111	.3113		
	H	1277.84	1278.21	1278.60	1278.98	1279.36	1279.74	1280.13	1282.02	1283.90	1285.76		
	V	7159.0	5735.8	4787.0	4109.2	3600.9	3205.5	2889.2	1940.2	1465.6	1180.8		
	MU	40.2633	40.2743	40.2852	40.2962	40.3071	40.3179	40.3288	40.3827	40.4361	40.4890		
4400.0	C*	37804.4	37833.3	37864.1	37894.9	37925.7	37956.5	37987.3	38140.1	38278.4	38427.8		
	K	17.5937	17.5992	17.6047	17.6102	17.6157	17.6211	17.6266	17.6537	17.6805	17.7071		
	GA	1.2957	1.2958	1.2960	1.2962	1.2964	1.2966	1.2968	1.2978	1.2980	1.2990		
	CP	.3111	.3112	.3112	.3112	.3113	.3113	.3113	.3115	.3117	.3118		
	H	1308.83	1309.20	1309.55	1309.97	1310.36	1310.75	1311.13	1313.04	1314.94	1316.83		
	V	7324.6	5868.3	4897.4	4203.8	3683.7	3279.1	2955.5	1984.4	1498.8	1207.3		
4500.0	MU	40.8763	40.8870	40.8977	40.9084	40.9191	40.9297	40.9403	40.9930	41.0452	41.0970		
	C*	38244.3	38272.7	38303.3	38333.9	38364.5	38395.1	38425.7	38577.6	38713.2	38861.9		
	K	17.8958	17.9012	17.9066	17.9119	17.9173	17.9226	17.9280	17.9545	17.9807	18.0067		
	GA	1.2949	1.2949	1.2951	1.2953	1.2955	1.2957	1.2959	1.2969	1.2970	1.2980		
	CP	.3117	.3118	.3118	.3118	.3119	.3119	.3119	.3121	.3123	.3124		
	H	1339.81	1340.19	1340.58	1340.97	1341.36	1341.75	1342.14	1344.07	1345.99	1347.89		
4600.0	V	7490.1	6000.7	5007.7	4298.4	3766.4	3352.7	3021.7	2028.6	1531.9	1233.8		
	MU	41.4846	41.4951	41.5055	41.5160	41.5264	41.5368	41.5472	41.5988	41.6499	41.7006		
	C*	38684.2	38712.0	38742.4	38772.8	38803.2	38833.6	38864.0	39015.0	39148.0	39296.0		
	K	18.1969	18.2021	18.2074	18.2126	18.2179	18.2231	18.2283	18.2542	18.2799	18.3054		
	GA	1.2940	1.2940	1.2942	1.2944	1.2946	1.2948	1.2950	1.2960	1.2960	1.2970		
	CP	.3123	.3124	.3124	.3124	.3125	.3125	.3125	.3127	.3128	.3130		

NOMENCLATURE

B	Enskog parameter
C^*	Sonic Velocity
C_p	Specific heat at constant pressure
C_v	Specific heat at constant volume
g	Acceleration due to gravity
H	Enthalpy
k	Thermal conductivity
p	Pressure
R	Gas constant
S	Entropy
T	Temperature
V	Specific volume
ρ	Density
μ	Viscosity

SUPERSCRIPTS

*	Arbitrary base
$\circ$	Ideal state

SUBSCRIPTS

c	Critical conditions
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