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A TABLE OF THERMODYNAMIC PROPERTIES OF HYDROGEN FOR
TEMPERATURES FROM 100 TO 3000°K AND PRESSURES
FROM 1 TO 50 ATMOSPHERES

by

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Reactor Engineering Division

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INTRODUCTION

This report presents a table of thermodynamic properties of gaseous hydrogen covering the temperature range from 100 to 3000°K and the pressure range from 1 to 50 atmospheres. The calculations have been done by means of a computer routine which has been described elsewhere.^(1,2) The table has entries for temperature at 10° increments, for pressure at 1-atmosphere and at 5-atmosphere increments from 5 through 50 atmospheres, and for 25%, 50%, 75%, and 100% of the gas initially in the para state. The first of these latter values corresponds to normal hydrogen, whereas the remaining values apply to vapor from liquid which has been stored for varying lengths of time. For each entry, the table gives the density in gm/liter, the enthalpy in joules/gm, the entropy in joules/(gm)(°K) and the fraction of the gas molecules which are dissociated.

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.2458E-00	1573.6	56.32	0.
110.	0.2234E-00	1687.1	57.40	0.
120.	0.2047E-00	1803.6	58.41	0.
130.	0.1889E-00	1923.0	59.37	0.
140.	0.1754E-00	2045.3	60.28	0.
150.	0.1637E-00	2170.2	61.14	0.
160.	0.1535E-00	2297.4	61.96	0.
170.	0.1444E-00	2426.7	62.74	0.
180.	0.1364E-00	2558.0	63.49	0.
190.	0.1292E-00	2691.0	64.21	0.
200.	0.1228E-00	2825.6	64.90	0.
210.	0.1169E-00	2961.6	65.56	0.
220.	0.1116E-00	3098.8	66.20	0.
230.	0.1068E-00	3237.1	66.82	0.
240.	0.1023E-00	3376.4	67.41	0.
250.	0.9822E-01	3516.5	67.98	0.
260.	0.9444E-01	3657.4	68.54	0.
270.	0.9094E-01	3798.9	69.07	0.
280.	0.8769E-01	3941.0	69.59	0.
290.	0.8467E-01	4083.5	70.09	0.
300.	0.8185E-01	4226.5	70.57	0.
310.	0.7921E-01	4369.8	71.04	0.
320.	0.7673E-01	4513.4	71.50	0.
330.	0.7441E-01	4657.2	71.94	0.
340.	0.7222E-01	4801.2	72.37	0.
350.	0.7016E-01	4945.4	72.79	0.
360.	0.6821E-01	5089.8	73.19	0.
370.	0.6637E-01	5234.3	73.59	0.
380.	0.6462E-01	5378.8	73.98	0.
390.	0.6296E-01	5523.5	74.35	0.
400.	0.6139E-01	5668.2	74.72	0.
410.	0.5989E-01	5812.9	75.07	0.
420.	0.5847E-01	5957.8	75.42	0.
430.	0.5711E-01	6102.6	75.76	0.
440.	0.5581E-01	6247.5	76.10	0.
450.	0.5457E-01	6392.5	76.42	0.
460.	0.5339E-01	6537.5	76.74	0.
470.	0.5225E-01	6682.5	77.05	0.
480.	0.5116E-01	6827.6	77.36	0.
490.	0.5012E-01	6972.7	77.66	0.
500.	0.4912E-01	7117.8	77.95	0.
510.	0.4815E-01	7263.0	78.24	0.
520.	0.4723E-01	7408.3	78.52	0.
530.	0.4634E-01	7553.5	78.80	0.
540.	0.4548E-01	7698.9	79.07	0.
550.	0.4465E-01	7844.2	79.34	0.
560.	0.4385E-01	7989.6	79.60	0.
570.	0.4309E-01	8135.0	79.86	0.
580.	0.4234E-01	8280.5	80.11	0.
590.	0.4163E-01	8426.0	80.36	0.

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.4093E-01	8571.0	80.60	0.
610.	0.4026E-01	8716.4	80.84	0.
620.	0.3961E-01	8861.9	81.08	0.
630.	0.3898E-01	9007.4	81.31	0.
640.	0.3837E-01	9153.0	81.54	0.
650.	0.3778E-01	9298.6	81.77	0.
660.	0.3721E-01	9444.3	81.99	0.
670.	0.3666E-01	9590.0	82.21	0.
680.	0.3612E-01	9735.8	82.43	0.
690.	0.3559E-01	9881.7	82.64	0.
700.	0.3509E-01	10027.7	82.85	0.
710.	0.3459E-01	10173.8	83.06	0.
720.	0.3411E-01	10320.0	83.26	0.
730.	0.3364E-01	10466.2	83.46	0.
740.	0.3319E-01	10612.6	83.66	0.
750.	0.3275E-01	10759.1	83.86	0.
760.	0.3232E-01	10905.7	84.05	0.
770.	0.3190E-01	11052.3	84.24	0.
780.	0.3149E-01	11199.1	84.43	0.
790.	0.3109E-01	11346.1	84.62	0.
800.	0.3070E-01	11493.1	84.81	0.
810.	0.3032E-01	11640.2	84.99	0.
820.	0.2995E-01	11787.5	85.17	0.
830.	0.2959E-01	11934.9	85.35	0.
840.	0.2924E-01	12082.4	85.52	0.
850.	0.2890E-01	12230.0	85.70	0.
860.	0.2856E-01	12377.8	85.87	0.
870.	0.2823E-01	12525.7	86.04	0.
880.	0.2791E-01	12673.7	86.21	0.
890.	0.2760E-01	12821.8	86.38	0.
900.	0.2729E-01	12970.1	86.55	0.
910.	0.2699E-01	13118.6	86.71	0.
920.	0.2670E-01	13267.1	86.87	0.
930.	0.2641E-01	13415.8	87.03	0.
940.	0.2613E-01	13564.7	87.19	0.
950.	0.2585E-01	13713.7	87.35	0.
960.	0.2559E-01	13862.8	87.51	0.
970.	0.2532E-01	14012.1	87.66	0.
980.	0.2506E-01	14161.5	87.81	0.
990.	0.2481E-01	14311.1	87.97	0.
1000.	0.2456E-01	14460.9	88.12	0.
1010.	0.2432E-01	14610.8	88.26	0.
1020.	0.2408E-01	14760.9	88.41	0.
1030.	0.2385E-01	14911.1	88.56	0.
1040.	0.2362E-01	15061.5	88.70	0.
1050.	0.2339E-01	15212.0	88.85	0.
1060.	0.2317E-01	15362.7	88.99	0.
1070.	0.2296E-01	15513.6	89.13	0.
1080.	0.2274E-01	15664.7	89.27	0.
1090.	0.2253E-01	15815.9	89.41	0.

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.2233E-01	15967.3	89.55	0.
1110.	0.2213E-01	16118.9	89.69	0.
1120.	0.2193E-01	16270.7	89.82	0.
1130.	0.2174E-01	16422.6	89.96	0.
1140.	0.2155E-01	16574.8	90.09	0.
1150.	0.2136E-01	16727.1	90.23	0.
1160.	0.2117E-01	16879.6	90.36	0.
1170.	0.2099E-01	17032.3	90.49	0.
1180.	0.2082E-01	17185.2	90.62	0.
1190.	0.2064E-01	17338.3	90.75	0.
1200.	0.2047E-01	17491.5	90.88	0.
1210.	0.2030E-01	17645.0	91.00	0.
1220.	0.2013E-01	17798.7	91.13	0.
1230.	0.1997E-01	17952.6	91.26	0.
1240.	0.1981E-01	18106.6	91.38	0.
1250.	0.1965E-01	18260.9	91.51	0.
1260.	0.1949E-01	18415.4	91.63	0.
1270.	0.1934E-01	18570.1	91.75	0.
1280.	0.1919E-01	18725.0	91.87	0.
1290.	0.1904E-01	18880.2	91.99	0.
1300.	0.1889E-01	19035.5	92.11	0.
1310.	0.1875E-01	19191.1	92.23	0.
1320.	0.1861E-01	19346.8	92.35	0.
1330.	0.1847E-01	19502.8	92.47	0.
1340.	0.1833E-01	19659.1	92.59	0.
1350.	0.1819E-01	19815.5	92.70	0.
1360.	0.1806E-01	19972.2	92.82	0.
1370.	0.1793E-01	20129.1	92.93	0.
1380.	0.1780E-01	20286.3	93.05	0.
1390.	0.1767E-01	20443.6	93.16	0.
1400.	0.1755E-01	20601.2	93.27	0.
1410.	0.1742E-01	20759.1	93.39	0.
1420.	0.1730E-01	20917.2	93.50	0.
1430.	0.1718E-01	21075.5	93.61	0.
1440.	0.1706E-01	21234.1	93.72	0.
1450.	0.1694E-01	21392.9	93.83	0.
1460.	0.1682E-01	21552.0	93.94	0.
1470.	0.1671E-01	21711.3	94.05	0.
1480.	0.1660E-01	21870.9	94.16	0.
1490.	0.1649E-01	22030.7	94.26	0.
1500.	0.1638E-01	22202.8	94.38	0.00001
1510.	0.1627E-01	22363.4	94.49	0.00001
1520.	0.1616E-01	22524.2	94.59	0.00001
1530.	0.1606E-01	22685.3	94.70	0.00001
1540.	0.1595E-01	22846.6	94.80	0.00001
1550.	0.1585E-01	23008.2	94.91	0.00002
1560.	0.1575E-01	23170.0	95.01	0.00002
1570.	0.1565E-01	23332.1	95.12	0.00002
1580.	0.1555E-01	23494.4	95.22	0.00002
1590.	0.1545E-01	23657.0	95.32	0.00002

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.1535E-01	23819.9	95.43	0.00003
1610.	0.1526E-01	23983.0	95.53	0.00003
1620.	0.1516E-01	24146.4	95.63	0.00003
1630.	0.1507E-01	24310.1	95.73	0.00004
1640.	0.1498E-01	24474.0	95.83	0.00004
1650.	0.1489E-01	24638.3	95.93	0.00005
1660.	0.1480E-01	24802.8	96.03	0.00005
1670.	0.1471E-01	24967.7	96.13	0.00006
1680.	0.1462E-01	25132.8	96.23	0.00006
1690.	0.1454E-01	25298.3	96.33	0.00007
1700.	0.1445E-01	25464.1	96.43	0.00007
1710.	0.1437E-01	25630.2	96.52	0.00008
1720.	0.1428E-01	25796.7	96.62	0.00009
1730.	0.1420E-01	25963.5	96.72	0.00010
1740.	0.1412E-01	26130.6	96.81	0.00011
1750.	0.1404E-01	26298.2	96.91	0.00012
1760.	0.1396E-01	26466.1	97.01	0.00013
1770.	0.1388E-01	26634.3	97.10	0.00014
1780.	0.1380E-01	26803.0	97.20	0.00015
1790.	0.1372E-01	26972.1	97.29	0.00016
1800.	0.1365E-01	27141.7	97.39	0.00018
1810.	0.1357E-01	27311.6	97.49	0.00019
1820.	0.1350E-01	27482.1	97.58	0.00021
1830.	0.1342E-01	27653.0	97.67	0.00023
1840.	0.1335E-01	27824.3	97.77	0.00025
1850.	0.1328E-01	27996.2	97.86	0.00027
1860.	0.1320E-01	28168.6	97.96	0.00029
1870.	0.1313E-01	28341.6	98.05	0.00032
1880.	0.1306E-01	28515.1	98.15	0.00034
1890.	0.1299E-01	28689.2	98.24	0.00037
1900.	0.1293E-01	28863.9	98.33	0.00040
1910.	0.1286E-01	29039.2	98.43	0.00043
1920.	0.1279E-01	29215.2	98.52	0.00046
1930.	0.1272E-01	29391.8	98.61	0.00050
1940.	0.1266E-01	29569.1	98.71	0.00053
1950.	0.1259E-01	29747.2	98.80	0.00057
1960.	0.1253E-01	29926.0	98.89	0.00062
1970.	0.1246E-01	30105.6	98.99	0.00066
1980.	0.1240E-01	30286.0	99.08	0.00071
1990.	0.1234E-01	30467.3	99.17	0.00076
2000.	0.1227E-01	30649.4	99.27	0.00081
2010.	0.1221E-01	30832.5	99.36	0.00087
2020.	0.1215E-01	31016.4	99.46	0.00093
2030.	0.1209E-01	31201.4	99.55	0.00099
2040.	0.1203E-01	31387.4	99.64	0.00106
2050.	0.1197E-01	31574.4	99.74	0.00113
2060.	0.1191E-01	31762.6	99.83	0.00121
2070.	0.1185E-01	31951.8	99.93	0.00129
2080.	0.1180E-01	32142.3	100.02	0.00137
2090.	0.1174E-01	32334.0	100.12	0.00146

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.1168E-01	32526.9	100.22	0.00156
2110.	0.1162E-01	32721.2	100.31	0.00166
2120.	0.1157E-01	32916.9	100.41	0.00176
2130.	0.1151E-01	33113.9	100.50	0.00187
2140.	0.1146E-01	33312.5	100.60	0.00199
2150.	0.1140E-01	33512.5	100.70	0.00211
2160.	0.1135E-01	33714.2	100.80	0.00223
2170.	0.1129E-01	33917.4	100.90	0.00237
2180.	0.1124E-01	34122.4	101.00	0.00251
2190.	0.1119E-01	34329.1	101.10	0.00266
2200.	0.1114E-01	34537.7	101.20	0.00281
2210.	0.1108E-01	34748.1	101.30	0.00298
2220.	0.1103E-01	34960.5	101.40	0.00315
2230.	0.1098E-01	35174.9	101.50	0.00333
2240.	0.1093E-01	35391.3	101.60	0.00351
2250.	0.1088E-01	35610.0	101.71	0.00371
2260.	0.1083E-01	35830.8	101.81	0.00392
2270.	0.1078E-01	36054.0	101.92	0.00413
2280.	0.1073E-01	36279.5	102.02	0.00435
2290.	0.1068E-01	36507.5	102.13	0.00459
2300.	0.1063E-01	36738.0	102.24	0.00483
2310.	0.1058E-01	36971.1	102.35	0.00509
2320.	0.1053E-01	37207.0	102.46	0.00536
2330.	0.1048E-01	37445.6	102.57	0.00564
2340.	0.1044E-01	37687.1	102.68	0.00593
2350.	0.1039E-01	37931.6	102.79	0.00623
2360.	0.1034E-01	38179.1	102.90	0.00655
2370.	0.1030E-01	38429.8	103.02	0.00687
2380.	0.1025E-01	38683.7	103.14	0.00722
2390.	0.1020E-01	38941.0	103.25	0.00757
2400.	0.1016E-01	39201.7	103.37	0.00794
2410.	0.1011E-01	39466.0	103.49	0.00833
2420.	0.1006E-01	39733.9	103.61	0.00873
2430.	0.1002E-01	40005.6	103.73	0.00915
2440.	0.9973E-02	40281.1	103.86	0.00958
2450.	0.9928E-02	40560.6	103.98	0.01003
2460.	0.9883E-02	40844.2	104.11	0.01050
2470.	0.9838E-02	41132.1	104.24	0.01099
2480.	0.9794E-02	41424.2	104.37	0.01149
2490.	0.9749E-02	41720.7	104.50	0.01201
2500.	0.9705E-02	42021.9	104.63	0.01256
2510.	0.9661E-02	42327.7	104.76	0.01312
2520.	0.9617E-02	42638.3	104.90	0.01370
2530.	0.9573E-02	42953.8	105.03	0.01430
2540.	0.9530E-02	43274.4	105.17	0.01493
2550.	0.9487E-02	43600.3	105.31	0.01558
2560.	0.9443E-02	43931.4	105.46	0.01625
2570.	0.9400E-02	44268.0	105.60	0.01694
2580.	0.9357E-02	44610.2	105.75	0.01766
2590.	0.9314E-02	44958.1	105.90	0.01840

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.9271E-02	45311.9	106.05	0.01917
2610.	0.9229E-02	45671.8	106.20	0.01996
2620.	0.9186E-02	46037.8	106.35	0.02078
2630.	0.9143E-02	46410.1	106.51	0.02162
2640.	0.9101E-02	46788.9	106.66	0.02250
2650.	0.9059E-02	47174.3	106.82	0.02340
2660.	0.9016E-02	47566.5	106.99	0.02433
2670.	0.8974E-02	47965.6	107.15	0.02529
2680.	0.8932E-02	48371.8	107.32	0.02629
2690.	0.8890E-02	48785.3	107.49	0.02731
2700.	0.8848E-02	49206.1	107.66	0.02836
2710.	0.8806E-02	49634.5	107.83	0.02945
2720.	0.8764E-02	50070.7	108.01	0.03057
2730.	0.8722E-02	50514.7	108.18	0.03173
2740.	0.8680E-02	50966.9	108.36	0.03291
2750.	0.8639E-02	51427.2	108.55	0.03414
2760.	0.8597E-02	51896.0	108.73	0.03540
2770.	0.8555E-02	52373.4	108.92	0.03670
2780.	0.8513E-02	52859.5	109.11	0.03803
2790.	0.8472E-02	53354.6	109.30	0.03941
2800.	0.8430E-02	53858.7	109.50	0.04082
2810.	0.8388E-02	54372.2	109.70	0.04228
2820.	0.8347E-02	54895.2	109.90	0.04377
2830.	0.8305E-02	55427.7	110.10	0.04531
2840.	0.8263E-02	55970.2	110.31	0.04688
2850.	0.8221E-02	56522.6	110.52	0.04851
2860.	0.8180E-02	57085.3	110.73	0.05017
2870.	0.8138E-02	57658.4	110.94	0.05188
2880.	0.8096E-02	58242.0	111.16	0.05364
2890.	0.8054E-02	58836.4	111.38	0.05544
2900.	0.8012E-02	59441.8	111.60	0.05729
2910.	0.7971E-02	60058.4	111.83	0.05919
2920.	0.7929E-02	60686.2	112.06	0.06114
2930.	0.7887E-02	61325.6	112.29	0.06314
2940.	0.7845E-02	61976.7	112.52	0.06519
2950.	0.7803E-02	62639.8	112.76	0.06729
2960.	0.7761E-02	63314.9	113.00	0.06944
2970.	0.7719E-02	64002.3	113.24	0.07164
2980.	0.7677E-02	64702.3	113.49	0.07390
2990.	0.7635E-02	65414.9	113.74	0.07622
3000.	0.7592E-02	66140.3	113.99	0.07859

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.2458E-00	1413.0	54.78	0.
110.	0.2234E-00	1534.8	55.94	0.
120.	0.2047E-00	1661.2	57.03	0.
130.	0.1889E-00	1791.6	58.08	0.
140.	0.1754E-00	1925.8	59.07	0.
150.	0.1637E-00	2062.7	60.02	0.
160.	0.1535E-00	2201.8	60.91	0.
170.	0.1444E-00	2342.6	61.77	0.
180.	0.1364E-00	2484.6	62.58	0.
190.	0.1292E-00	2627.5	63.35	0.
200.	0.1228E-00	2771.1	64.09	0.
210.	0.1169E-00	2915.0	64.79	0.
220.	0.1116E-00	3059.3	65.46	0.
230.	0.1068E-00	3203.8	66.10	0.
240.	0.1023E-00	3348.4	66.72	0.
250.	0.9822E-01	3493.1	67.31	0.
260.	0.9444E-01	3637.9	67.88	0.
270.	0.9094E-01	3782.8	68.43	0.
280.	0.8769E-01	3927.6	68.95	0.
290.	0.8467E-01	4072.5	69.46	0.
300.	0.8185E-01	4217.4	69.95	0.
310.	0.7921E-01	4362.3	70.43	0.
320.	0.7673E-01	4507.3	70.89	0.
330.	0.7441E-01	4652.2	71.33	0.
340.	0.7222E-01	4797.2	71.77	0.
350.	0.7016E-01	4942.1	72.19	0.
360.	0.6821E-01	5087.1	72.59	0.
370.	0.6637E-01	5232.1	72.99	0.
380.	0.6462E-01	5377.0	73.38	0.
390.	0.6296E-01	5522.0	73.76	0.
400.	0.6139E-01	5667.0	74.12	0.
410.	0.5989E-01	5812.0	74.48	0.
420.	0.5847E-01	5957.1	74.83	0.
430.	0.5711E-01	6102.1	75.17	0.
440.	0.5581E-01	6247.2	75.50	0.
450.	0.5457E-01	6392.2	75.83	0.
460.	0.5339E-01	6537.3	76.15	0.
470.	0.5225E-01	6682.5	76.46	0.
480.	0.5116E-01	6827.6	76.77	0.
490.	0.5012E-01	6972.8	77.07	0.
500.	0.4912E-01	7118.0	77.36	0.
510.	0.4815E-01	7263.2	77.65	0.
520.	0.4723E-01	7408.4	77.93	0.
530.	0.4634E-01	7553.7	78.21	0.
540.	0.4548E-01	7699.0	78.48	0.
550.	0.4465E-01	7844.4	78.74	0.
560.	0.4385E-01	7989.8	79.01	0.
570.	0.4309E-01	8135.2	79.26	0.
580.	0.4234E-01	8280.6	79.52	0.
590.	0.4163E-01	8426.0	79.77	0.

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.4093E-01	8571.0	79.47	0.
610.	0.4026E-01	8716.4	79.71	0.
620.	0.3961E-01	8861.9	79.95	0.
630.	0.3898E-01	9007.4	80.18	0.
640.	0.3837E-01	9153.0	80.41	0.
650.	0.3778E-01	9298.6	80.64	0.
660.	0.3721E-01	9444.3	80.86	0.
670.	0.3666E-01	9590.0	81.08	0.
680.	0.3612E-01	9735.8	81.29	0.
690.	0.3559E-01	9881.7	81.51	0.
700.	0.3509E-01	10027.7	81.72	0.
710.	0.3459E-01	10173.8	81.92	0.
720.	0.3411E-01	10320.0	82.13	0.
730.	0.3364E-01	10466.2	82.33	0.
740.	0.3319E-01	10612.6	82.53	0.
750.	0.3275E-01	10759.1	82.73	0.
760.	0.3232E-01	10905.7	82.92	0.
770.	0.3190E-01	11052.3	83.11	0.
780.	0.3149E-01	11199.1	83.30	0.
790.	0.3109E-01	11346.1	83.49	0.
800.	0.3070E-01	11493.1	83.67	0.
810.	0.3032E-01	11640.2	83.86	0.
820.	0.2995E-01	11787.5	84.04	0.
830.	0.2959E-01	11934.9	84.21	0.
840.	0.2924E-01	12082.4	84.39	0.
850.	0.2890E-01	12230.0	84.57	0.
860.	0.2856E-01	12377.8	84.74	0.
870.	0.2823E-01	12525.7	84.91	0.
880.	0.2791E-01	12673.7	85.08	0.
890.	0.2760E-01	12821.8	85.25	0.
900.	0.2729E-01	12970.1	85.41	0.
910.	0.2699E-01	13118.6	85.58	0.
920.	0.2670E-01	13267.1	85.74	0.
930.	0.2641E-01	13415.8	85.90	0.
940.	0.2613E-01	13564.7	86.06	0.
950.	0.2585E-01	13713.7	86.22	0.
960.	0.2559E-01	13862.8	86.37	0.
970.	0.2532E-01	14012.1	86.53	0.
980.	0.2506E-01	14161.5	86.68	0.
990.	0.2481E-01	14311.1	86.83	0.
1000.	0.2456E-01	14460.9	86.98	0.
1010.	0.2432E-01	14610.8	87.13	0.
1020.	0.2408E-01	14760.9	87.28	0.
1030.	0.2385E-01	14911.1	87.43	0.
1040.	0.2362E-01	15061.5	87.57	0.
1050.	0.2339E-01	15212.0	87.72	0.
1060.	0.2317E-01	15362.7	87.86	0.
1070.	0.2296E-01	15513.6	88.00	0.
1080.	0.2274E-01	15664.7	88.14	0.
1090.	0.2253E-01	15815.9	88.28	0.

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.2233E-01	15967.3	88.42	0.
1110.	0.2213E-01	16118.9	88.56	0.
1120.	0.2193E-01	16270.7	88.69	0.
1130.	0.2174E-01	16422.6	88.83	0.
1140.	0.2155E-01	16574.8	88.96	0.
1150.	0.2136E-01	16727.1	89.09	0.
1160.	0.2117E-01	16879.6	89.23	0.
1170.	0.2099E-01	17032.3	89.36	0.
1180.	0.2082E-01	17185.2	89.49	0.
1190.	0.2064E-01	17338.3	89.62	0.
1200.	0.2047E-01	17491.5	89.74	0.
1210.	0.2030E-01	17645.0	89.87	0.
1220.	0.2013E-01	17798.7	90.00	0.
1230.	0.1997E-01	17952.6	90.12	0.
1240.	0.1981E-01	18106.6	90.25	0.
1250.	0.1965E-01	18260.9	90.37	0.
1260.	0.1949E-01	18415.4	90.50	0.
1270.	0.1934E-01	18570.1	90.62	0.
1280.	0.1919E-01	18725.0	90.74	0.
1290.	0.1904E-01	18880.2	90.86	0.
1300.	0.1889E-01	19035.5	90.98	0.
1310.	0.1875E-01	19191.1	91.10	0.
1320.	0.1861E-01	19346.8	91.22	0.
1330.	0.1847E-01	19502.8	91.34	0.
1340.	0.1833E-01	19659.1	91.45	0.
1350.	0.1819E-01	19815.5	91.57	0.
1360.	0.1806E-01	19972.2	91.68	0.
1370.	0.1793E-01	20129.1	91.80	0.
1380.	0.1780E-01	20286.3	91.91	0.
1390.	0.1767E-01	20443.6	92.03	0.
1400.	0.1755E-01	20601.2	92.14	0.
1410.	0.1742E-01	20759.1	92.25	0.
1420.	0.1730E-01	20917.2	92.36	0.
1430.	0.1718E-01	21075.5	92.48	0.
1440.	0.1706E-01	21234.1	92.59	0.
1450.	0.1694E-01	21392.9	92.70	0.
1460.	0.1682E-01	21552.0	92.81	0.
1470.	0.1671E-01	21711.3	92.91	0.
1480.	0.1660E-01	21870.9	93.02	0.
1490.	0.1649E-01	22030.7	93.13	0.
1500.	0.1638E-01	22202.8	93.25	0.00001
1510.	0.1627E-01	22365.4	93.35	0.00001
1520.	0.1616E-01	22524.2	93.46	0.00001
1530.	0.1606E-01	22685.3	93.57	0.00001
1540.	0.1595E-01	22846.6	93.67	0.00001
1550.	0.1585E-01	23008.2	93.78	0.00002
1560.	0.1575E-01	23170.0	93.88	0.00002
1570.	0.1565E-01	23332.1	93.98	0.00002
1580.	0.1555E-01	23494.4	94.09	0.00002
1590.	0.1545E-01	23657.0	94.19	0.00002

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.1535E-01	23819.9	94.29	0.00003
1610.	0.1526E-01	23983.0	94.39	0.00003
1620.	0.1516E-01	24146.4	94.50	0.00003
1630.	0.1507E-01	24310.1	94.60	0.00004
1640.	0.1498E-01	24474.0	94.70	0.00004
1650.	0.1489E-01	24638.3	94.80	0.00005
1660.	0.1480E-01	24802.8	94.90	0.00005
1670.	0.1471E-01	24967.7	95.00	0.00006
1680.	0.1462E-01	25132.8	95.10	0.00006
1690.	0.1454E-01	25298.3	95.19	0.00007
1700.	0.1445E-01	25464.1	95.29	0.00007
1710.	0.1437E-01	25630.2	95.39	0.00008
1720.	0.1428E-01	25796.7	95.49	0.00009
1730.	0.1420E-01	25963.5	95.59	0.00010
1740.	0.1412E-01	26130.6	95.68	0.00011
1750.	0.1404E-01	26298.2	95.78	0.00012
1760.	0.1396E-01	26466.1	95.88	0.00013
1770.	0.1388E-01	26634.3	95.97	0.00014
1780.	0.1380E-01	26803.0	96.07	0.00015
1790.	0.1372E-01	26972.1	96.16	0.00016
1800.	0.1365E-01	27141.7	96.26	0.00018
1810.	0.1357E-01	27311.6	96.35	0.00019
1820.	0.1350E-01	27482.1	96.45	0.00021
1830.	0.1342E-01	27653.0	96.54	0.00023
1840.	0.1335E-01	27824.3	96.64	0.00025
1850.	0.1328E-01	27996.2	96.73	0.00027
1860.	0.1320E-01	28168.6	96.83	0.00029
1870.	0.1313E-01	28341.6	96.92	0.00032
1880.	0.1306E-01	28515.1	97.01	0.00034
1890.	0.1299E-01	28689.2	97.11	0.00037
1900.	0.1293E-01	28863.9	97.20	0.00040
1910.	0.1286E-01	29039.2	97.29	0.00043
1920.	0.1279E-01	29215.2	97.39	0.00046
1930.	0.1272E-01	29391.8	97.48	0.00050
1940.	0.1266E-01	29569.1	97.57	0.00053
1950.	0.1259E-01	29747.2	97.67	0.00057
1960.	0.1253E-01	29926.0	97.76	0.00062
1970.	0.1246E-01	30105.6	97.85	0.00066
1980.	0.1240E-01	30286.0	97.95	0.00071
1990.	0.1234E-01	30467.3	98.04	0.00076
2000.	0.1227E-01	30649.4	98.14	0.00081
2010.	0.1221E-01	30832.5	98.23	0.00087
2020.	0.1215E-01	31016.4	98.32	0.00093
2030.	0.1209E-01	31201.4	98.42	0.00099
2040.	0.1203E-01	31387.4	98.51	0.00106
2050.	0.1197E-01	31574.4	98.61	0.00113
2060.	0.1191E-01	31762.6	98.70	0.00121
2070.	0.1185E-01	31951.8	98.80	0.00129
2080.	0.1180E-01	32142.3	98.89	0.00137
2090.	0.1174E-01	32334.0	98.99	0.00146

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY Joules/gm	ENTROPY Joules/gm DEG	FRACTION DISSOCIATED
2100.	0.1168E-01	32526.9	99.04	0.00156
2110.	0.1162E-01	32721.2	99.14	0.00166
2120.	0.1157E-01	32916.9	99.24	0.00176
2130.	0.1151E-01	33112.9	99.37	0.00187
2140.	0.1146E-01	33312.5	99.47	0.00199
2150.	0.1140E-01	33512.5	99.57	0.00211
2160.	0.1135E-01	33714.2	99.67	0.00223
2170.	0.1129E-01	33917.4	99.76	0.00237
2180.	0.1124E-01	34122.4	99.86	0.00251
2190.	0.1119E-01	34329.1	99.96	0.00266
2200.	0.1114E-01	34537.7	100.06	0.00281
2210.	0.1108E-01	34748.1	100.16	0.00298
2220.	0.1103E-01	34960.5	100.27	0.00315
2230.	0.1098E-01	35174.9	100.37	0.00333
2240.	0.1093E-01	35391.3	100.47	0.00351
2250.	0.1088E-01	35610.0	100.57	0.00371
2260.	0.1083E-01	35830.8	100.68	0.00392
2270.	0.1078E-01	36054.0	100.78	0.00413
2280.	0.1073E-01	36279.5	100.89	0.00435
2290.	0.1068E-01	36507.5	101.00	0.00459
2300.	0.1063E-01	36738.0	101.11	0.00483
2310.	0.1058E-01	36971.1	101.21	0.00509
2320.	0.1053E-01	37207.0	101.32	0.00536
2330.	0.1048E-01	37445.6	101.43	0.00564
2340.	0.1044E-01	37687.1	101.55	0.00593
2350.	0.1039E-01	37931.6	101.66	0.00623
2360.	0.1034E-01	38179.1	101.77	0.00655
2370.	0.1030E-01	38429.8	101.89	0.00687
2380.	0.1025E-01	38683.7	102.00	0.00722
2390.	0.1020E-01	38941.0	102.12	0.00757
2400.	0.1016E-01	39201.7	102.24	0.00794
2410.	0.1011E-01	39466.0	102.36	0.00833
2420.	0.1006E-01	39733.9	102.48	0.00873
2430.	0.1002E-01	40005.6	102.60	0.00915
2440.	0.9973E-02	40281.1	102.72	0.00958
2450.	0.9928E-02	40560.5	102.85	0.01003
2460.	0.9883E-02	40844.2	102.98	0.01050
2470.	0.9838E-02	41132.1	103.10	0.01099
2480.	0.9794E-02	41424.2	103.23	0.01149
2490.	0.9749E-02	41720.7	103.36	0.01201
2500.	0.9705E-02	42021.9	103.50	0.01256
2510.	0.9661E-02	42327.7	103.63	0.01312
2520.	0.9617E-02	42638.3	103.77	0.01370
2530.	0.9573E-02	42953.8	103.90	0.01430
2540.	0.9530E-02	43274.4	104.04	0.01493
2550.	0.9487E-02	43600.3	104.18	0.01558
2560.	0.9443E-02	43931.4	104.32	0.01625
2570.	0.9400E-02	44268.0	104.47	0.01694
2580.	0.9357E-02	44610.2	104.61	0.01766
2590.	0.9314E-02	44958.1	104.76	0.01840

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.9271E-02	45311.9	104.91	0.01917
2610.	0.9229E-02	45671.8	105.06	0.01996
2620.	0.9186E-02	46037.8	105.22	0.02078
2630.	0.9143E-02	46410.1	105.37	0.02162
2640.	0.9101E-02	46788.9	105.53	0.02250
2650.	0.9059E-02	47174.3	105.69	0.02340
2660.	0.9016E-02	47566.5	105.85	0.02433
2670.	0.8974E-02	47965.6	106.02	0.02529
2680.	0.8932E-02	48371.8	106.19	0.02629
2690.	0.8890E-02	48785.3	106.35	0.02731
2700.	0.8848E-02	49206.1	106.52	0.02836
2710.	0.8806E-02	49634.5	106.70	0.02945
2720.	0.8764E-02	50070.7	106.87	0.03057
2730.	0.8722E-02	50514.7	107.05	0.03173
2740.	0.8680E-02	50966.9	107.23	0.03291
2750.	0.8639E-02	51427.2	107.42	0.03414
2760.	0.8597E-02	51896.0	107.60	0.03540
2770.	0.8555E-02	52373.4	107.79	0.03670
2780.	0.8513E-02	52859.5	107.98	0.03803
2790.	0.8472E-02	53354.6	108.17	0.03941
2800.	0.8430E-02	53858.7	108.37	0.04082
2810.	0.8388E-02	54372.2	108.56	0.04228
2820.	0.8347E-02	54895.2	108.77	0.04377
2830.	0.8305E-02	55427.7	108.97	0.04531
2840.	0.8263E-02	55970.2	109.18	0.04688
2850.	0.8221E-02	56522.6	109.38	0.04851
2860.	0.8180E-02	57085.3	109.60	0.05017
2870.	0.8138E-02	57658.4	109.81	0.05188
2880.	0.8096E-02	58242.0	110.03	0.05364
2890.	0.8054E-02	58836.4	110.25	0.05544
2900.	0.8012E-02	59441.8	110.47	0.05729
2910.	0.7971E-02	60058.4	110.70	0.05919
2920.	0.7929E-02	60686.2	110.92	0.06114
2930.	0.7887E-02	61325.6	111.16	0.06314
2940.	0.7845E-02	61976.7	111.39	0.06519
2950.	0.7803E-02	62639.8	111.63	0.06729
2960.	0.7761E-02	63314.9	111.87	0.06944
2970.	0.7719E-02	64002.3	112.11	0.07164
2980.	0.7677E-02	64702.3	112.36	0.07390
2990.	0.7635E-02	65414.9	112.61	0.07622
3000.	0.7592E-02	66140.3	112.86	0.07859

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.2458E-00	1252.5	52.15	0.
110.	0.2234E-00	1382.6	53.39	0.
120.	0.2047E-00	1518.9	54.58	0.
130.	0.1889E-00	1660.5	55.71	0.
140.	0.1754E-00	1806.3	56.79	0.
150.	0.1637E-00	1955.3	57.82	0.
160.	0.1535E-00	2106.3	58.79	0.
170.	0.1444E-00	2258.5	59.72	0.
180.	0.1364E-00	2411.2	60.59	0.
190.	0.1292E-00	2564.0	61.42	0.
200.	0.1228E-00	2716.5	62.20	0.
210.	0.1169E-00	2868.5	62.94	0.
220.	0.1116E-00	3019.9	63.64	0.
230.	0.1068E-00	3170.5	64.31	0.
240.	0.1023E-00	3320.5	64.95	0.
250.	0.9822E-01	3469.8	65.56	0.
260.	0.9444E-01	3618.5	66.14	0.
270.	0.9094E-01	3766.6	66.70	0.
280.	0.8769E-01	3914.3	67.24	0.
290.	0.8467E-01	4061.5	67.76	0.
300.	0.8185E-01	4208.3	68.25	0.
310.	0.7921E-01	4354.9	68.73	0.
320.	0.7673E-01	4501.2	69.20	0.
330.	0.7441E-01	4647.2	69.65	0.
340.	0.7222E-01	4793.1	70.08	0.
350.	0.7016E-01	4938.8	70.51	0.
360.	0.6821E-01	5084.4	70.92	0.
370.	0.6637E-01	5229.9	71.32	0.
380.	0.6462E-01	5375.3	71.70	0.
390.	0.6296E-01	5520.6	72.08	0.
400.	0.6139E-01	5665.9	72.45	0.
410.	0.5989E-01	5811.2	72.81	0.
420.	0.5847E-01	5956.4	73.16	0.
430.	0.5711E-01	6101.6	73.50	0.
440.	0.5581E-01	6246.8	73.83	0.
450.	0.5457E-01	6392.0	74.16	0.
460.	0.5339E-01	6537.2	74.48	0.
470.	0.5225E-01	6682.4	74.79	0.
480.	0.5116E-01	6827.6	75.10	0.
490.	0.5012E-01	6972.9	75.40	0.
500.	0.4912E-01	7118.1	75.69	0.
510.	0.4815E-01	7263.4	75.98	0.
520.	0.4723E-01	7408.6	76.26	0.
530.	0.4634E-01	7553.9	76.54	0.
540.	0.4548E-01	7699.2	76.81	0.
550.	0.4465E-01	7844.5	77.07	0.
560.	0.4385E-01	7989.9	77.34	0.
570.	0.4309E-01	8135.3	77.59	0.
580.	0.4234E-01	8280.7	77.85	0.
590.	0.4163E-01	8426.1	78.09	0.

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.4093E-01	8571.0	78.34	0.
610.	0.4026E-01	8716.4	78.58	0.
620.	0.3961E-01	8861.9	78.82	0.
630.	0.3898E-01	9007.4	79.05	0.
640.	0.3837E-01	9153.0	79.28	0.
650.	0.3778E-01	9298.6	79.50	0.
660.	0.3721E-01	9444.3	79.73	0.
670.	0.3666E-01	9590.0	79.94	0.
680.	0.3612E-01	9735.8	80.16	0.
690.	0.3559E-01	9881.7	80.37	0.
700.	0.3509E-01	10027.7	80.58	0.
710.	0.3459E-01	10173.8	80.79	0.
720.	0.3411E-01	10320.0	81.00	0.
730.	0.3364E-01	10466.2	81.20	0.
740.	0.3319E-01	10612.6	81.40	0.
750.	0.3275E-01	10759.1	81.59	0.
760.	0.3232E-01	10905.7	81.79	0.
770.	0.3190E-01	11052.3	81.98	0.
780.	0.3149E-01	11199.1	82.17	0.
790.	0.3109E-01	11346.1	82.36	0.
800.	0.3070E-01	11493.1	82.54	0.
810.	0.3032E-01	11640.2	82.72	0.
820.	0.2995E-01	11787.5	82.90	0.
830.	0.2959E-01	11934.9	83.08	0.
840.	0.2924E-01	12082.4	83.26	0.
850.	0.2890E-01	12230.0	83.43	0.
860.	0.2856E-01	12377.8	83.61	0.
870.	0.2823E-01	12525.7	83.78	0.
880.	0.2791E-01	12673.7	83.95	0.
890.	0.2760E-01	12821.8	84.11	0.
900.	0.2729E-01	12970.1	84.28	0.
910.	0.2699E-01	13118.6	84.44	0.
920.	0.2670E-01	13267.1	84.61	0.
930.	0.2641E-01	13415.8	84.77	0.
940.	0.2613E-01	13564.7	84.93	0.
950.	0.2585E-01	13713.7	85.08	0.
960.	0.2559E-01	13862.8	85.24	0.
970.	0.2532E-01	14012.1	85.39	0.
980.	0.2506E-01	14161.5	85.55	0.
990.	0.2481E-01	14311.1	85.70	0.
1000.	0.2456E-01	14460.9	85.85	0.
1010.	0.2432E-01	14610.8	86.00	0.
1020.	0.2408E-01	14760.9	86.15	0.
1030.	0.2385E-01	14911.1	86.29	0.
1040.	0.2362E-01	15061.5	86.44	0.
1050.	0.2339E-01	15212.0	86.58	0.
1060.	0.2317E-01	15362.7	86.73	0.
1070.	0.2296E-01	15513.6	86.87	0.
1080.	0.2274E-01	15664.7	87.01	0.
1090.	0.2253E-01	15815.9	87.15	0.

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.2233E-01	15967.3	87.29	0.
1110.	0.2213E-01	16118.9	87.42	0.
1120.	0.2193E-01	16270.7	87.56	0.
1130.	0.2174E-01	16422.6	87.69	0.
1140.	0.2155E-01	16574.8	87.83	0.
1150.	0.2136E-01	16727.1	87.96	0.
1160.	0.2117E-01	16879.6	88.09	0.
1170.	0.2099E-01	17032.3	88.22	0.
1180.	0.2082E-01	17185.2	88.35	0.
1190.	0.2064E-01	17338.3	88.48	0.
1200.	0.2047E-01	17491.5	88.61	0.
1210.	0.2030E-01	17645.0	88.74	0.
1220.	0.2013E-01	17798.7	88.87	0.
1230.	0.1997E-01	17952.6	88.99	0.
1240.	0.1981E-01	18106.6	89.12	0.
1250.	0.1965E-01	18260.9	89.24	0.
1260.	0.1949E-01	18415.4	89.36	0.
1270.	0.1934E-01	18570.1	89.49	0.
1280.	0.1919E-01	18725.0	89.61	0.
1290.	0.1904E-01	18880.2	89.73	0.
1300.	0.1889E-01	19035.5	89.85	0.
1310.	0.1875E-01	19191.1	89.97	0.
1320.	0.1861E-01	19346.8	90.09	0.
1330.	0.1847E-01	19502.8	90.20	0.
1340.	0.1833E-01	19659.1	90.32	0.
1350.	0.1819E-01	19815.5	90.44	0.
1360.	0.1806E-01	19972.2	90.55	0.
1370.	0.1793E-01	20129.1	90.67	0.
1380.	0.1780E-01	20286.3	90.78	0.
1390.	0.1767E-01	20443.6	90.89	0.
1400.	0.1755E-01	20601.2	91.01	0.
1410.	0.1742E-01	20759.1	91.12	0.
1420.	0.1730E-01	20917.2	91.23	0.
1430.	0.1718E-01	21075.5	91.34	0.
1440.	0.1706E-01	21234.1	91.45	0.
1450.	0.1694E-01	21392.9	91.56	0.
1460.	0.1682E-01	21552.0	91.67	0.
1470.	0.1671E-01	21711.3	91.78	0.
1480.	0.1660E-01	21870.9	91.89	0.
1490.	0.1649E-01	22030.7	92.00	0.
1500.	0.1638E-01	22202.8	92.12	0.00001
1510.	0.1627E-01	22363.4	92.22	0.00001
1520.	0.1616E-01	22524.2	92.33	0.00001
1530.	0.1606E-01	22685.3	92.43	0.00001
1540.	0.1595E-01	22846.6	92.54	0.00001
1550.	0.1585E-01	23008.2	92.64	0.00002
1560.	0.1575E-01	23170.0	92.75	0.00002
1570.	0.1565E-01	23332.1	92.85	0.00002
1580.	0.1555E-01	23494.4	92.95	0.00002
1590.	0.1545E-01	23657.0	93.06	0.00002

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.1535E-01	23819.9	93.16	0.00003
1610.	0.1526E-01	23983.0	93.26	0.00003
1620.	0.1516E-01	24146.4	93.36	0.00003
1630.	0.1507E-01	24310.1	93.46	0.00004
1640.	0.1498E-01	24474.0	93.56	0.00004
1650.	0.1489E-01	24638.3	93.66	0.00005
1660.	0.1480E-01	24802.8	93.76	0.00005
1670.	0.1471E-01	24967.7	93.86	0.00006
1680.	0.1462E-01	25132.8	93.96	0.00006
1690.	0.1454E-01	25298.3	94.06	0.00007
1700.	0.1445E-01	25464.1	94.16	0.00007
1710.	0.1437E-01	25630.2	94.26	0.00008
1720.	0.1428E-01	25796.7	94.36	0.00009
1730.	0.1420E-01	25963.5	94.45	0.00010
1740.	0.1412E-01	26130.6	94.55	0.00011
1750.	0.1404E-01	26298.2	94.65	0.00012
1760.	0.1396E-01	26466.1	94.74	0.00013
1770.	0.1388E-01	26634.3	94.84	0.00014
1780.	0.1380E-01	26803.0	94.93	0.00015
1790.	0.1372E-01	26972.1	95.03	0.00016
1800.	0.1365E-01	27141.7	95.12	0.00018
1810.	0.1357E-01	27311.6	95.22	0.00019
1820.	0.1350E-01	27482.1	95.31	0.00021
1830.	0.1342E-01	27653.0	95.41	0.00023
1840.	0.1335E-01	27824.3	95.50	0.00025
1850.	0.1328E-01	27996.2	95.60	0.00027
1860.	0.1320E-01	28168.6	95.69	0.00029
1870.	0.1313E-01	28341.6	95.79	0.00032
1880.	0.1306E-01	28515.1	95.88	0.00034
1890.	0.1299E-01	28689.2	95.97	0.00037
1900.	0.1293E-01	28863.9	96.07	0.00040
1910.	0.1286E-01	29039.2	96.16	0.00043
1920.	0.1279E-01	29215.2	96.25	0.00046
1930.	0.1272E-01	29391.8	96.35	0.00050
1940.	0.1266E-01	29569.1	96.44	0.00053
1950.	0.1259E-01	29747.2	96.54	0.00057
1960.	0.1253E-01	29926.0	96.63	0.00062
1970.	0.1246E-01	30105.6	96.72	0.00066
1980.	0.1240E-01	30286.0	96.82	0.00071
1990.	0.1234E-01	30467.3	96.91	0.00076
2000.	0.1227E-01	30649.4	97.00	0.00081
2010.	0.1221E-01	30832.5	97.10	0.00087
2020.	0.1215E-01	31016.4	97.19	0.00093
2030.	0.1209E-01	31201.4	97.28	0.00099
2040.	0.1203E-01	31387.4	97.38	0.00106
2050.	0.1197E-01	31574.4	97.47	0.00113
2060.	0.1191E-01	31762.6	97.57	0.00121
2070.	0.1185E-01	31951.8	97.66	0.00129
2080.	0.1180E-01	32142.3	97.76	0.00137
2090.	0.1174E-01	32334.0	97.85	0.00146

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.1168E-01	32526.9	97.95	0.00156
2110.	0.1162E-01	32721.2	98.05	0.00166
2120.	0.1157E-01	32916.9	98.14	0.00176
2130.	0.1151E-01	33113.9	98.24	0.00187
2140.	0.1146E-01	33312.5	98.34	0.00199
2150.	0.1140E-01	33512.5	98.43	0.00211
2160.	0.1135E-01	33714.2	98.53	0.00223
2170.	0.1129E-01	33917.4	98.63	0.00237
2180.	0.1124E-01	34122.4	98.73	0.00251
2190.	0.1119E-01	34329.1	98.83	0.00266
2200.	0.1114E-01	34537.7	98.93	0.00281
2210.	0.1108E-01	34748.1	99.03	0.00298
2220.	0.1103E-01	34960.5	99.13	0.00315
2230.	0.1098E-01	35174.9	99.24	0.00333
2240.	0.1093E-01	35391.3	99.34	0.00351
2250.	0.1088E-01	35610.0	99.44	0.00371
2260.	0.1083E-01	35830.8	99.55	0.00392
2270.	0.1078E-01	36054.0	99.65	0.00413
2280.	0.1073E-01	36279.5	99.76	0.00435
2290.	0.1068E-01	36507.5	99.86	0.00459
2300.	0.1063E-01	36738.0	99.97	0.00483
2310.	0.1058E-01	36971.1	100.08	0.00509
2320.	0.1053E-01	37207.0	100.19	0.00536
2330.	0.1048E-01	37445.6	100.30	0.00564
2340.	0.1044E-01	37687.1	100.41	0.00593
2350.	0.1039E-01	37931.6	100.53	0.00623
2360.	0.1034E-01	38179.1	100.64	0.00655
2370.	0.1030E-01	38429.8	100.75	0.00687
2380.	0.1025E-01	38683.7	100.87	0.00722
2390.	0.1020E-01	38941.0	100.99	0.00757
2400.	0.1016E-01	39201.7	101.11	0.00794
2410.	0.1011E-01	39466.0	101.23	0.00833
2420.	0.1006E-01	39733.9	101.35	0.00873
2430.	0.1002E-01	40005.6	101.47	0.00915
2440.	0.9973E-02	40281.1	101.59	0.00958
2450.	0.9928E-02	40560.6	101.72	0.01003
2460.	0.9883E-02	40844.2	101.84	0.01050
2470.	0.9838E-02	41132.1	101.97	0.01099
2480.	0.9794E-02	41424.2	102.10	0.01149
2490.	0.9749E-02	41720.7	102.23	0.01201
2500.	0.9705E-02	42021.9	102.36	0.01256
2510.	0.9661E-02	42327.7	102.50	0.01312
2520.	0.9617E-02	42638.3	102.63	0.01370
2530.	0.9573E-02	42953.8	102.77	0.01430
2540.	0.9530E-02	43274.4	102.91	0.01493
2550.	0.9487E-02	43600.3	103.05	0.01558
2560.	0.9443E-02	43931.4	103.19	0.01625
2570.	0.9400E-02	44268.0	103.34	0.01694
2580.	0.9357E-02	44610.2	103.48	0.01766
2590.	0.9314E-02	44958.1	103.63	0.01840

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.9271E-02	45311.9	103.78	0.01917
2610.	0.9229E-02	45671.8	103.93	0.01996
2620.	0.9186E-02	46037.8	104.09	0.02078
2630.	0.9143E-02	46410.1	104.24	0.02162
2640.	0.9101E-02	46788.9	104.40	0.02250
2650.	0.9059E-02	47174.3	104.56	0.02340
2660.	0.9016E-02	47566.5	104.72	0.02433
2670.	0.8974E-02	47965.6	104.89	0.02529
2680.	0.8932E-02	48371.8	105.05	0.02629
2690.	0.8890E-02	48785.3	105.22	0.02731
2700.	0.8848E-02	49206.1	105.39	0.02836
2710.	0.8806E-02	49634.5	105.57	0.02945
2720.	0.8764E-02	50070.7	105.74	0.03057
2730.	0.8722E-02	50514.7	105.92	0.03173
2740.	0.8680E-02	50966.9	106.10	0.03291
2750.	0.8639E-02	51427.2	106.28	0.03414
2760.	0.8597E-02	51896.0	106.47	0.03540
2770.	0.8555E-02	52373.4	106.66	0.03670
2780.	0.8513E-02	52859.5	106.85	0.03803
2790.	0.8472E-02	53354.6	107.04	0.03941
2800.	0.8430E-02	53858.7	107.23	0.04082
2810.	0.8388E-02	54372.2	107.43	0.04228
2820.	0.8347E-02	54895.2	107.63	0.04377
2830.	0.8305E-02	55427.7	107.84	0.04531
2840.	0.8263E-02	55970.2	108.04	0.04688
2850.	0.8221E-02	56522.6	108.25	0.04851
2860.	0.8180E-02	57085.3	108.46	0.05017
2870.	0.8138E-02	57658.4	108.68	0.05188
2880.	0.8096E-02	58242.0	108.89	0.05364
2890.	0.8054E-02	58836.4	109.11	0.05544
2900.	0.8012E-02	59441.8	109.34	0.05729
2910.	0.7971E-02	60058.4	109.56	0.05919
2920.	0.7929E-02	60686.2	109.79	0.06114
2930.	0.7887E-02	61325.6	110.02	0.06314
2940.	0.7845E-02	61976.7	110.26	0.06519
2950.	0.7803E-02	62639.8	110.50	0.06729
2960.	0.7761E-02	63314.9	110.74	0.06944
2970.	0.7719E-02	64002.3	110.98	0.07164
2980.	0.7677E-02	64702.3	111.23	0.07390
2990.	0.7635E-02	65414.9	111.48	0.07622
3000.	0.7592E-02	66140.3	111.73	0.07859

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.2458E-00	1091.9	47.75	0.
110.	0.2234E-00	1230.3	49.07	0.
120.	0.2047E-00	1376.5	50.34	0.
130.	0.1889E-00	1529.2	51.56	0.
140.	0.1754E-00	1686.8	52.73	0.
150.	0.1637E-00	1847.8	53.84	0.
160.	0.1535E-00	2010.7	54.89	0.
170.	0.1444E-00	2174.4	55.88	0.
180.	0.1364E-00	2337.9	56.82	0.
190.	0.1292E-00	2500.5	57.70	0.
200.	0.1228E-00	2662.0	58.53	0.
210.	0.1169E-00	2822.0	59.31	0.
220.	0.1116E-00	2980.4	60.04	0.
230.	0.1068E-00	3137.2	60.74	0.
240.	0.1023E-00	3292.5	61.40	0.
250.	0.9822E-01	3446.4	62.03	0.
260.	0.9444E-01	3599.0	62.63	0.
270.	0.9094E-01	3750.4	63.20	0.
280.	0.8769E-01	3900.9	63.75	0.
290.	0.8467E-01	4050.5	64.27	0.
300.	0.8185E-01	4199.3	64.78	0.
310.	0.7921E-01	4347.5	65.26	0.
320.	0.7673E-01	4495.1	65.73	0.
330.	0.7441E-01	4642.2	66.18	0.
340.	0.7222E-01	4789.0	66.62	0.
350.	0.7016E-01	4935.5	67.05	0.
360.	0.6821E-01	5081.7	67.46	0.
370.	0.6637E-01	5227.7	67.86	0.
380.	0.6462E-01	5373.5	68.25	0.
390.	0.6296E-01	5519.2	68.63	0.
400.	0.6139E-01	5664.8	68.99	0.
410.	0.5989E-01	5810.3	69.35	0.
420.	0.5847E-01	5955.7	69.70	0.
430.	0.5711E-01	6101.1	70.05	0.
440.	0.5581E-01	6246.4	70.38	0.
450.	0.5457E-01	6391.8	70.71	0.
460.	0.5339E-01	6537.1	71.03	0.
470.	0.5225E-01	6682.4	71.34	0.
480.	0.5116E-01	6827.7	71.65	0.
490.	0.5012E-01	6973.0	71.94	0.
500.	0.4912E-01	7118.3	72.24	0.
510.	0.4815E-01	7263.5	72.53	0.
520.	0.4723E-01	7408.8	72.81	0.
530.	0.4634E-01	7554.1	73.08	0.
540.	0.4548E-01	7699.4	73.36	0.
550.	0.4465E-01	7844.7	73.62	0.
560.	0.4385E-01	7990.0	73.88	0.
570.	0.4309E-01	8135.4	74.14	0.
580.	0.4234E-01	8280.7	74.40	0.
590.	0.4163E-01	8426.2	74.64	0.

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.4093E-01	8571.0	77.21	0.
610.	0.4026E-01	8716.4	77.45	0.
620.	0.3961E-01	8861.9	77.68	0.
630.	0.3898E-01	9007.4	77.92	0.
640.	0.3837E-01	9153.0	78.14	0.
650.	0.3778E-01	9298.6	78.37	0.
660.	0.3721E-01	9444.3	78.59	0.
670.	0.3666E-01	9590.0	78.81	0.
680.	0.3612E-01	9735.8	79.03	0.
690.	0.3559E-01	9881.7	79.24	0.
700.	0.3509E-01	10027.7	79.45	0.
710.	0.3459E-01	10173.8	79.66	0.
720.	0.3411E-01	10320.0	79.86	0.
730.	0.3364E-01	10466.2	80.06	0.
740.	0.3319E-01	10612.6	80.26	0.
750.	0.3275E-01	10759.1	80.46	0.
760.	0.3232E-01	10905.7	80.65	0.
770.	0.3190E-01	11052.3	80.85	0.
780.	0.3149E-01	11199.1	81.04	0.
790.	0.3109E-01	11346.1	81.22	0.
800.	0.3070E-01	11493.1	81.41	0.
810.	0.3032E-01	11640.2	81.59	0.
820.	0.2995E-01	11787.5	81.77	0.
830.	0.2959E-01	11934.9	81.95	0.
840.	0.2924E-01	12082.4	82.13	0.
850.	0.2890E-01	12230.0	82.30	0.
860.	0.2856E-01	12377.8	82.47	0.
870.	0.2823E-01	12525.7	82.64	0.
880.	0.2791E-01	12673.7	82.81	0.
890.	0.2760E-01	12821.8	82.98	0.
900.	0.2729E-01	12970.1	83.15	0.
910.	0.2699E-01	13118.6	83.31	0.
920.	0.2670E-01	13267.1	83.47	0.
930.	0.2641E-01	13415.8	83.63	0.
940.	0.2613E-01	13564.7	83.79	0.
950.	0.2585E-01	13713.7	83.95	0.
960.	0.2559E-01	13862.8	84.11	0.
970.	0.2532E-01	14012.1	84.26	0.
980.	0.2506E-01	14161.5	84.42	0.
990.	0.2481E-01	14311.1	84.57	0.
1000.	0.2456E-01	14460.9	84.72	0.
1010.	0.2432E-01	14610.8	84.87	0.
1020.	0.2408E-01	14760.9	85.01	0.
1030.	0.2385E-01	14911.1	85.16	0.
1040.	0.2362E-01	15061.5	85.31	0.
1050.	0.2339E-01	15212.0	85.45	0.
1060.	0.2317E-01	15362.7	85.59	0.
1070.	0.2296E-01	15513.6	85.74	0.
1080.	0.2274E-01	15664.7	85.88	0.
1090.	0.2253E-01	15815.9	86.01	0.

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.2233E-01	15967.3	86.15	0.
1110.	0.2213E-01	16118.9	86.29	0.
1120.	0.2193E-01	16270.7	86.43	0.
1130.	0.2174E-01	16422.6	86.56	0.
1140.	0.2155E-01	16574.8	86.70	0.
1150.	0.2136E-01	16727.1	86.83	0.
1160.	0.2117E-01	16879.6	86.96	0.
1170.	0.2099E-01	17032.3	87.09	0.
1180.	0.2082E-01	17185.2	87.22	0.
1190.	0.2064E-01	17338.3	87.35	0.
1200.	0.2047E-01	17491.5	87.48	0.
1210.	0.2030E-01	17645.0	87.61	0.
1220.	0.2013E-01	17798.7	87.73	0.
1230.	0.1997E-01	17952.6	87.86	0.
1240.	0.1981E-01	18106.6	87.98	0.
1250.	0.1965E-01	18260.9	88.11	0.
1260.	0.1949E-01	18415.4	88.23	0.
1270.	0.1934E-01	18570.1	88.35	0.
1280.	0.1919E-01	18725.0	88.47	0.
1290.	0.1904E-01	18880.2	88.60	0.
1300.	0.1889E-01	19035.5	88.72	0.
1310.	0.1875E-01	19191.1	88.83	0.
1320.	0.1861E-01	19346.8	88.95	0.
1330.	0.1847E-01	19502.8	89.07	0.
1340.	0.1833E-01	19659.1	89.19	0.
1350.	0.1819E-01	19815.5	89.30	0.
1360.	0.1806E-01	19972.2	89.42	0.
1370.	0.1793E-01	20129.1	89.53	0.
1380.	0.1780E-01	20286.3	89.65	0.
1390.	0.1767E-01	20443.6	89.76	0.
1400.	0.1755E-01	20601.2	89.88	0.
1410.	0.1742E-01	20759.1	89.99	0.
1420.	0.1730E-01	20917.2	90.10	0.
1430.	0.1718E-01	21075.5	90.21	0.
1440.	0.1706E-01	21234.1	90.32	0.
1450.	0.1694E-01	21392.9	90.43	0.
1460.	0.1682E-01	21552.0	90.54	0.
1470.	0.1671E-01	21711.3	90.65	0.
1480.	0.1660E-01	21870.9	90.76	0.
1490.	0.1649E-01	22030.7	90.86	0.
1500.	0.1638E-01	22202.8	90.98	0.00001
1510.	0.1627E-01	22363.4	91.09	0.00001
1520.	0.1616E-01	22524.2	91.20	0.00001
1530.	0.1606E-01	22685.3	91.30	0.00001
1540.	0.1595E-01	22846.6	91.41	0.00001
1550.	0.1585E-01	23008.2	91.51	0.00002
1560.	0.1575E-01	23170.0	91.62	0.00002
1570.	0.1565E-01	23332.1	91.72	0.00002
1580.	0.1555E-01	23494.4	91.82	0.00002
1590.	0.1545E-01	23657.0	91.93	0.00002

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.1535E-01	23819.9	92.03	0.00003
1610.	0.1526E-01	23983.0	92.13	0.00003
1620.	0.1516E-01	24146.4	92.23	0.00003
1630.	0.1507E-01	24310.1	92.33	0.00004
1640.	0.1498E-01	24474.0	92.43	0.00004
1650.	0.1489E-01	24638.3	92.53	0.00005
1660.	0.1480E-01	24802.8	92.63	0.00005
1670.	0.1471E-01	24967.7	92.73	0.00006
1680.	0.1462E-01	25132.8	92.83	0.00006
1690.	0.1454E-01	25298.3	92.93	0.00007
1700.	0.1445E-01	25464.1	93.03	0.00007
1710.	0.1437E-01	25630.2	93.13	0.00008
1720.	0.1428E-01	25796.7	93.22	0.00009
1730.	0.1420E-01	25963.5	93.32	0.00010
1740.	0.1412E-01	26130.6	93.42	0.00011
1750.	0.1404E-01	26298.2	93.51	0.00012
1760.	0.1396E-01	26466.1	93.61	0.00013
1770.	0.1388E-01	26634.3	93.71	0.00014
1780.	0.1380E-01	26803.0	93.80	0.00015
1790.	0.1372E-01	26972.1	93.90	0.00016
1800.	0.1365E-01	27141.7	93.99	0.00018
1810.	0.1357E-01	27311.6	94.09	0.00019
1820.	0.1350E-01	27482.1	94.18	0.00021
1830.	0.1342E-01	27653.0	94.28	0.00023
1840.	0.1335E-01	27824.3	94.37	0.00025
1850.	0.1328E-01	27996.2	94.47	0.00027
1860.	0.1320E-01	28168.6	94.56	0.00029
1870.	0.1313E-01	28341.6	94.65	0.00032
1880.	0.1306E-01	28515.1	94.75	0.00034
1890.	0.1299E-01	28689.2	94.84	0.00037
1900.	0.1293E-01	28863.9	94.93	0.00040
1910.	0.1286E-01	29039.2	95.03	0.00043
1920.	0.1279E-01	29215.2	95.12	0.00046
1930.	0.1272E-01	29391.8	95.22	0.00050
1940.	0.1266E-01	29569.1	95.31	0.00053
1950.	0.1259E-01	29747.2	95.40	0.00057
1960.	0.1253E-01	29926.0	95.50	0.00062
1970.	0.1246E-01	30105.6	95.59	0.00066
1980.	0.1240E-01	30286.0	95.68	0.00071
1990.	0.1234E-01	30467.3	95.78	0.00076
2000.	0.1227E-01	30649.4	95.87	0.00081
2010.	0.1221E-01	30832.5	95.96	0.00087
2020.	0.1215E-01	31016.4	96.06	0.00093
2030.	0.1209E-01	31201.4	96.15	0.00099
2040.	0.1203E-01	31387.4	96.25	0.00106
2050.	0.1197E-01	31574.4	96.34	0.00113
2060.	0.1191E-01	31762.6	96.44	0.00121
2070.	0.1185E-01	31951.8	96.53	0.00129
2080.	0.1180E-01	32142.3	96.63	0.00137
2090.	0.1174E-01	32334.0	96.72	0.00146

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.1168E-01	32526.9	96.82	0.00156
2110.	0.1162E-01	32721.2	96.91	0.00166
2120.	0.1157E-01	32916.9	97.01	0.00176
2130.	0.1151E-01	33113.9	97.11	0.00187
2140.	0.1146E-01	33312.5	97.20	0.00199
2150.	0.1140E-01	33512.5	97.30	0.00211
2160.	0.1135E-01	33714.2	97.40	0.00223
2170.	0.1129E-01	33917.4	97.50	0.00237
2180.	0.1124E-01	34122.4	97.60	0.00251
2190.	0.1119E-01	34329.1	97.70	0.00266
2200.	0.1114E-01	34537.7	97.80	0.00281
2210.	0.1108E-01	34748.1	97.90	0.00298
2220.	0.1103E-01	34960.5	98.00	0.00315
2230.	0.1098E-01	35174.9	98.10	0.00333
2240.	0.1093E-01	35391.3	98.21	0.00351
2250.	0.1088E-01	35610.0	98.31	0.00371
2260.	0.1083E-01	35830.8	98.41	0.00392
2270.	0.1078E-01	36054.0	98.52	0.00413
2280.	0.1073E-01	36279.5	98.63	0.00435
2290.	0.1068E-01	36507.5	98.73	0.00459
2300.	0.1063E-01	36738.0	98.84	0.00483
2310.	0.1058E-01	36971.1	98.95	0.00509
2320.	0.1053E-01	37207.0	99.06	0.00536
2330.	0.1048E-01	37445.6	99.17	0.00564
2340.	0.1044E-01	37687.1	99.28	0.00593
2350.	0.1039E-01	37931.6	99.39	0.00623
2360.	0.1034E-01	38179.1	99.51	0.00655
2370.	0.1030E-01	38429.8	99.62	0.00687
2380.	0.1025E-01	38683.7	99.74	0.00722
2390.	0.1020E-01	38941.0	99.85	0.00757
2400.	0.1016E-01	39201.7	99.97	0.00794
2410.	0.1011E-01	39466.0	100.09	0.00833
2420.	0.1006E-01	39733.9	100.21	0.00873
2430.	0.1002E-01	40005.6	100.34	0.00915
2440.	0.9973E-02	40281.1	100.46	0.00958
2450.	0.9928E-02	40560.6	100.58	0.01003
2460.	0.9883E-02	40844.2	100.71	0.01050
2470.	0.9838E-02	41132.1	100.84	0.01099
2480.	0.9794E-02	41424.2	100.97	0.01149
2490.	0.9749E-02	41720.7	101.10	0.01201
2500.	0.9705E-02	42021.9	101.23	0.01256
2510.	0.9661E-02	42327.7	101.36	0.01312
2520.	0.9617E-02	42638.3	101.50	0.01370
2530.	0.9573E-02	42953.8	101.64	0.01430
2540.	0.9530E-02	43274.4	101.78	0.01493
2550.	0.9487E-02	43600.3	101.92	0.01558
2560.	0.9443E-02	43931.4	102.06	0.01625
2570.	0.9400E-02	44268.0	102.20	0.01694
2580.	0.9357E-02	44610.2	102.35	0.01766
2590.	0.9314E-02	44958.1	102.50	0.01840

PRESSURE 1. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.9271E-02	45311.9	102.65	0.01917
2610.	0.9229E-02	45671.8	102.80	0.01996
2620.	0.9186E-02	46037.8	102.95	0.02078
2630.	0.9143E-02	46410.1	103.11	0.02162
2640.	0.9101E-02	46788.9	103.27	0.02250
2650.	0.9059E-02	47174.3	103.43	0.02340
2660.	0.9016E-02	47566.5	103.59	0.02433
2670.	0.8974E-02	47965.6	103.75	0.02529
2680.	0.8932E-02	48371.8	103.92	0.02629
2690.	0.8890E-02	48785.3	104.09	0.02731
2700.	0.8848E-02	49206.1	104.26	0.02836
2710.	0.8806E-02	49634.5	104.43	0.02945
2720.	0.8764E-02	50070.7	104.61	0.03057
2730.	0.8722E-02	50514.7	104.79	0.03173
2740.	0.8680E-02	50966.9	104.97	0.03291
2750.	0.8639E-02	51427.2	105.15	0.03414
2760.	0.8597E-02	51896.0	105.34	0.03540
2770.	0.8555E-02	52373.4	105.52	0.03670
2780.	0.8513E-02	52859.5	105.71	0.03803
2790.	0.8472E-02	53354.6	105.91	0.03941
2800.	0.8430E-02	53858.7	106.10	0.04082
2810.	0.8388E-02	54372.2	106.30	0.04228
2820.	0.8347E-02	54895.2	106.50	0.04377
2830.	0.8305E-02	55427.7	106.70	0.04531
2840.	0.8263E-02	55970.2	106.91	0.04688
2850.	0.8221E-02	56522.6	107.12	0.04851
2860.	0.8180E-02	57085.3	107.33	0.05017
2870.	0.8138E-02	57658.4	107.54	0.05188
2880.	0.8096E-02	58242.0	107.76	0.05364
2890.	0.8054E-02	58836.4	107.98	0.05544
2900.	0.8012E-02	59441.8	108.20	0.05729
2910.	0.7971E-02	60058.4	108.43	0.05919
2920.	0.7929E-02	60686.2	108.66	0.06114
2930.	0.7887E-02	61325.6	108.89	0.06314
2940.	0.7845E-02	61976.7	109.13	0.06519
2950.	0.7803E-02	62639.8	109.36	0.06729
2960.	0.7761E-02	63314.9	109.60	0.06944
2970.	0.7719E-02	64002.3	109.85	0.07164
2980.	0.7677E-02	64702.3	110.09	0.07390
2990.	0.7635E-02	65414.9	110.34	0.07622
3000.	0.7592E-02	66140.3	110.60	0.07859

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.1231E 01	1567.8	49.63	0.
110.	0.1117E 01	1682.3	50.72	0.
120.	0.1023E 01	1799.6	51.74	0.
130.	0.9438E 00	1919.7	52.70	0.
140.	0.8759E 00	2042.6	53.61	0.
150.	0.8172E 00	2167.9	54.48	0.
160.	0.7660E 00	2295.5	55.30	0.
170.	0.7208E 00	2425.2	56.09	0.
180.	0.6806E 00	2556.8	56.84	0.
190.	0.6448E 00	2690.1	57.56	0.
200.	0.6125E 00	2825.0	58.25	0.
210.	0.5833E 00	2961.2	58.92	0.
220.	0.5568E 00	3098.6	59.56	0.
230.	0.5326E 00	3237.1	60.17	0.
240.	0.5104E 00	3376.6	60.76	0.
250.	0.4900E-00	3516.9	61.34	0.
260.	0.4711E-00	3657.9	61.89	0.
270.	0.4537E-00	3799.6	62.42	0.
280.	0.4375E-00	3941.8	62.94	0.
290.	0.4224E-00	4084.4	63.44	0.
300.	0.4084E-00	4227.5	63.93	0.
310.	0.3952E-00	4370.9	64.40	0.
320.	0.3829E-00	4514.6	64.85	0.
330.	0.3713E-00	4658.5	65.30	0.
340.	0.3604E-00	4802.6	65.73	0.
350.	0.3501E-00	4946.9	66.15	0.
360.	0.3404E-00	5091.3	66.55	0.
370.	0.3312E-00	5235.9	66.95	0.
380.	0.3225E-00	5380.5	67.33	0.
390.	0.3142E-00	5525.2	67.71	0.
400.	0.3064E-00	5670.0	68.08	0.
410.	0.2989E-00	5814.8	68.43	0.
420.	0.2918E-00	5959.7	68.78	0.
430.	0.2850E-00	6104.6	69.12	0.
440.	0.2786E-00	6249.6	69.46	0.
450.	0.2724E-00	6394.6	69.78	0.
460.	0.2665E-00	6539.6	70.10	0.
470.	0.2608E-00	6684.7	70.41	0.
480.	0.2554E-00	6829.8	70.72	0.
490.	0.2502E-00	6974.9	71.02	0.
500.	0.2452E-00	7120.1	71.31	0.
510.	0.2404E-00	7265.4	71.60	0.
520.	0.2358E-00	7410.6	71.88	0.
530.	0.2313E-00	7555.9	72.16	0.
540.	0.2271E-00	7701.3	72.43	0.
550.	0.2229E-00	7846.7	72.70	0.
560.	0.2190E-00	7992.1	72.96	0.
570.	0.2151E-00	8137.6	73.22	0.
580.	0.2114E-00	8283.1	73.47	0.
590.	0.2078E-00	8428.6	73.72	0.

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.2044E-00	8573.6	73.96	0.
610.	0.2010E-00	8719.1	74.20	0.
620.	0.1978E-00	8864.6	74.44	0.
630.	0.1947E-00	9010.1	74.67	0.
640.	0.1916E-00	9155.7	74.90	0.
650.	0.1887E-00	9301.3	75.13	0.
660.	0.1858E-00	9447.0	75.35	0.
670.	0.1830E-00	9592.8	75.57	0.
680.	0.1804E-00	9738.6	75.79	0.
690.	0.1777E-00	9884.6	76.00	0.
700.	0.1752E-00	10030.6	76.21	0.
710.	0.1727E-00	10176.7	76.42	0.
720.	0.1704E-00	10322.9	76.62	0.
730.	0.1680E-00	10469.1	76.82	0.
740.	0.1658E-00	10615.5	77.02	0.
750.	0.1635E-00	10762.0	77.22	0.
760.	0.1614E-00	10908.6	77.41	0.
770.	0.1593E-00	11055.3	77.61	0.
780.	0.1573E-00	11202.1	77.79	0.
790.	0.1553E-00	11349.1	77.98	0.
800.	0.1533E-00	11496.1	78.17	0.
810.	0.1514E-00	11643.3	78.35	0.
820.	0.1496E-00	11790.5	78.53	0.
830.	0.1478E-00	11937.9	78.71	0.
840.	0.1460E-00	12085.5	78.89	0.
850.	0.1443E-00	12233.1	79.06	0.
860.	0.1426E-00	12380.9	79.23	0.
870.	0.1410E-00	12528.8	79.40	0.
880.	0.1394E-00	12676.8	79.57	0.
890.	0.1378E-00	12825.0	79.74	0.
900.	0.1363E-00	12973.3	79.91	0.
910.	0.1348E-00	13121.7	80.07	0.
920.	0.1334E-00	13270.3	80.23	0.
930.	0.1319E-00	13419.0	80.39	0.
940.	0.1305E-00	13567.9	80.55	0.
950.	0.1291E-00	13716.9	80.71	0.
960.	0.1278E-00	13866.0	80.87	0.
970.	0.1265E-00	14015.3	81.02	0.
980.	0.1252E-00	14164.8	81.17	0.
990.	0.1239E-00	14314.4	81.33	0.
1000.	0.1227E-00	14464.1	81.48	0.
1010.	0.1215E-00	14614.1	81.63	0.
1020.	0.1203E-00	14764.1	81.77	0.
1030.	0.1191E-00	14914.4	81.92	0.
1040.	0.1180E-00	15064.8	82.07	0.
1050.	0.1169E-00	15215.3	82.21	0.
1060.	0.1158E-00	15366.1	82.35	0.
1070.	0.1147E-00	15517.0	82.49	0.
1080.	0.1136E-00	15668.0	82.64	0.
1090.	0.1126E-00	15819.3	82.77	0.

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.1116E-00	15970.7	82.91	0.
1110.	0.1105E-00	16122.3	83.05	0.
1120.	0.1096E-00	16274.1	83.19	0.
1130.	0.1086E-00	16426.0	83.32	0.
1140.	0.1076E-00	16578.2	83.46	0.
1150.	0.1067E-00	16730.5	83.59	0.
1160.	0.1058E-00	16883.0	83.72	0.
1170.	0.1049E-00	17035.7	83.85	0.
1180.	0.1040E-00	17188.6	83.98	0.
1190.	0.1031E-00	17341.7	84.11	0.
1200.	0.1023E-00	17495.0	84.24	0.
1210.	0.1014E-00	17648.4	84.37	0.
1220.	0.1006E-00	17802.1	84.49	0.
1230.	0.9977E-01	17956.0	84.62	0.
1240.	0.9897E-01	18110.1	84.74	0.
1250.	0.9818E-01	18264.4	84.87	0.
1260.	0.9740E-01	18418.9	84.99	0.
1270.	0.9663E-01	18573.6	85.11	0.
1280.	0.9588E-01	18728.5	85.23	0.
1290.	0.9514E-01	18883.6	85.35	0.
1300.	0.9441E-01	19039.0	85.47	0.
1310.	0.9369E-01	19194.5	85.59	0.
1320.	0.9298E-01	19350.3	85.71	0.
1330.	0.9228E-01	19506.3	85.83	0.
1340.	0.9159E-01	19662.6	85.95	0.
1350.	0.9091E-01	19819.0	86.06	0.
1360.	0.9024E-01	19975.7	86.18	0.
1370.	0.8959E-01	20132.6	86.29	0.
1380.	0.8894E-01	20289.8	86.41	0.
1390.	0.8830E-01	20447.2	86.52	0.
1400.	0.8767E-01	20604.8	86.64	0.
1410.	0.8705E-01	20762.6	86.75	0.
1420.	0.8643E-01	20920.7	86.86	0.
1430.	0.8583E-01	21079.1	86.97	0.
1440.	0.8523E-01	21237.7	87.08	0.
1450.	0.8465E-01	21396.5	87.19	0.
1460.	0.8407E-01	21555.6	87.30	0.
1470.	0.8350E-01	21714.9	87.41	0.
1480.	0.8293E-01	21874.5	87.52	0.
1490.	0.8238E-01	22034.3	87.62	0.
1500.	0.8189E-01	22201.7	87.74	0.00000
1510.	0.8135E-01	22362.2	87.85	0.00000
1520.	0.8081E-01	22522.8	87.95	0.00000
1530.	0.8029E-01	22683.7	88.06	0.00001
1540.	0.7976E-01	22844.9	88.16	0.00001
1550.	0.7925E-01	23006.2	88.27	0.00001
1560.	0.7874E-01	23167.8	88.37	0.00001
1570.	0.7824E-01	23329.6	88.48	0.00001
1580.	0.7774E-01	23491.7	88.58	0.00001
1590.	0.7726E-01	23654.0	88.68	0.00001

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.7677E-01	23816.5	88.78	0.00001
1610.	0.7630E-01	23979.3	88.89	0.00001
1620.	0.7582E-01	24142.2	88.99	0.00001
1630.	0.7536E-01	24305.5	89.09	0.00002
1640.	0.7490E-01	24469.0	89.19	0.00002
1650.	0.7445E-01	24632.7	89.29	0.00002
1660.	0.7400E-01	24796.6	89.39	0.00002
1670.	0.7355E-01	24960.8	89.48	0.00002
1680.	0.7312E-01	25125.3	89.58	0.00003
1690.	0.7268E-01	25290.0	89.68	0.00003
1700.	0.7225E-01	25455.0	89.78	0.00003
1710.	0.7183E-01	25620.2	89.88	0.00004
1720.	0.7141E-01	25785.7	89.97	0.00004
1730.	0.7100E-01	25951.4	90.07	0.00004
1740.	0.7059E-01	26117.5	90.17	0.00005
1750.	0.7019E-01	26283.8	90.26	0.00005
1760.	0.6979E-01	26450.3	90.36	0.00006
1770.	0.6940E-01	26617.2	90.45	0.00006
1780.	0.6900E-01	26784.3	90.55	0.00007
1790.	0.6862E-01	26951.8	90.64	0.00007
1800.	0.6824E-01	27119.5	90.73	0.00008
1810.	0.6786E-01	27287.5	90.83	0.00009
1820.	0.6749E-01	27455.9	90.92	0.00009
1830.	0.6712E-01	27624.5	91.01	0.00010
1840.	0.6675E-01	27793.5	91.11	0.00011
1850.	0.6639E-01	27962.8	91.20	0.00012
1860.	0.6603E-01	28132.5	91.29	0.00013
1870.	0.6568E-01	28302.5	91.38	0.00014
1880.	0.6533E-01	28472.8	91.47	0.00015
1890.	0.6498E-01	28643.5	91.56	0.00016
1900.	0.6464E-01	28814.6	91.66	0.00018
1910.	0.6430E-01	28986.1	91.75	0.00019
1920.	0.6396E-01	29158.0	91.84	0.00021
1930.	0.6363E-01	29330.2	91.93	0.00022
1940.	0.6330E-01	29502.9	92.02	0.00024
1950.	0.6298E-01	29676.0	92.11	0.00026
1960.	0.6265E-01	29849.5	92.20	0.00028
1970.	0.6234E-01	30023.5	92.29	0.00030
1980.	0.6202E-01	30198.0	92.38	0.00032
1990.	0.6171E-01	30372.9	92.47	0.00034
2000.	0.6140E-01	30548.3	92.55	0.00036
2010.	0.6109E-01	30724.3	92.64	0.00039
2020.	0.6079E-01	30900.7	92.73	0.00042
2030.	0.6048E-01	31077.7	92.82	0.00044
2040.	0.6019E-01	31255.2	92.91	0.00047
2050.	0.5989E-01	31433.3	93.00	0.00051
2060.	0.5960E-01	31612.0	93.09	0.00054
2070.	0.5931E-01	31791.3	93.18	0.00058
2080.	0.5902E-01	31971.2	93.26	0.00061
2090.	0.5874E-01	32151.8	93.35	0.00065

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.5845E-01	32333.0	93.44	0.00070
2110.	0.5817E-01	32514.9	93.53	0.00074
2120.	0.5790E-01	32697.5	93.62	0.00079
2130.	0.5762E-01	32880.8	93.71	0.00084
2140.	0.5735E-01	33064.9	93.80	0.00089
2150.	0.5708E-01	33249.8	93.88	0.00094
2160.	0.5681E-01	33435.4	93.97	0.00100
2170.	0.5655E-01	33621.9	94.06	0.00106
2180.	0.5628E-01	33809.3	94.15	0.00112
2190.	0.5602E-01	33997.5	94.24	0.00119
2200.	0.5576E-01	34186.6	94.33	0.00126
2210.	0.5551E-01	34376.6	94.42	0.00133
2220.	0.5525E-01	34567.6	94.51	0.00141
2230.	0.5500E-01	34759.6	94.60	0.00149
2240.	0.5475E-01	34952.6	94.69	0.00157
2250.	0.5450E-01	35146.7	94.78	0.00166
2260.	0.5426E-01	35341.8	94.87	0.00175
2270.	0.5401E-01	35538.1	94.96	0.00185
2280.	0.5377E-01	35735.5	95.05	0.00195
2290.	0.5353E-01	35934.1	95.14	0.00205
2300.	0.5329E-01	36133.9	95.23	0.00216
2310.	0.5306E-01	36335.0	95.32	0.00228
2320.	0.5282E-01	36537.3	95.41	0.00240
2330.	0.5259E-01	36741.0	95.50	0.00252
2340.	0.5236E-01	36946.1	95.60	0.00265
2350.	0.5213E-01	37152.6	95.69	0.00279
2360.	0.5190E-01	37360.5	95.78	0.00293
2370.	0.5167E-01	37569.9	95.87	0.00307
2380.	0.5145E-01	37780.8	95.97	0.00323
2390.	0.5122E-01	37993.4	96.06	0.00339
2400.	0.5100E-01	38207.5	96.16	0.00355
2410.	0.5078E-01	38423.3	96.25	0.00373
2420.	0.5056E-01	38640.9	96.35	0.00391
2430.	0.5034E-01	38860.1	96.45	0.00409
2440.	0.5013E-01	39081.2	96.54	0.00429
2450.	0.4991E-01	39304.2	96.64	0.00449
2460.	0.4970E-01	39529.1	96.74	0.00470
2470.	0.4949E-01	39755.9	96.84	0.00491
2480.	0.4928E-01	39984.7	96.93	0.00514
2490.	0.4907E-01	40215.6	97.03	0.00537
2500.	0.4886E-01	40448.6	97.13	0.00562
2510.	0.4865E-01	40683.8	97.24	0.00587
2520.	0.4845E-01	40921.2	97.34	0.00613
2530.	0.4824E-01	41160.9	97.44	0.00640
2540.	0.4804E-01	41402.9	97.54	0.00668
2550.	0.4784E-01	41647.4	97.65	0.00697
2560.	0.4764E-01	41894.3	97.75	0.00727
2570.	0.4744E-01	42143.7	97.86	0.00758
2580.	0.4724E-01	42395.7	97.96	0.00790
2590.	0.4704E-01	42650.3	98.07	0.00823

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.4684E-01	42907.6	98.18	0.00857
2610.	0.4665E-01	43167.8	98.29	0.00893
2620.	0.4645E-01	43430.7	98.39	0.00929
2630.	0.4626E-01	43696.6	98.51	0.00967
2640.	0.4607E-01	43965.4	98.62	0.01006
2650.	0.4587E-01	44237.2	98.73	0.01047
2660.	0.4568E-01	44512.2	98.84	0.01088
2670.	0.4549E-01	44790.3	98.96	0.01131
2680.	0.4530E-01	45071.7	99.07	0.01176
2690.	0.4511E-01	45356.4	99.19	0.01222
2700.	0.4493E-01	45644.5	99.30	0.01269
2710.	0.4474E-01	45936.0	99.42	0.01318
2720.	0.4455E-01	46231.1	99.54	0.01368
2730.	0.4437E-01	46529.8	99.66	0.01419
2740.	0.4418E-01	46832.2	99.78	0.01473
2750.	0.4400E-01	47138.4	99.90	0.01527
2760.	0.4381E-01	47448.4	100.03	0.01584
2770.	0.4363E-01	47762.3	100.15	0.01642
2780.	0.4345E-01	48080.2	100.28	0.01702
2790.	0.4326E-01	48402.3	100.40	0.01763
2800.	0.4308E-01	48728.4	100.53	0.01827
2810.	0.4290E-01	49058.9	100.66	0.01892
2820.	0.4272E-01	49393.6	100.79	0.01959
2830.	0.4254E-01	49732.8	100.92	0.02028
2840.	0.4236E-01	50076.5	101.06	0.02099
2850.	0.4218E-01	50424.7	101.19	0.02171
2860.	0.4201E-01	50777.7	101.33	0.02246
2870.	0.4183E-01	51135.4	101.47	0.02323
2880.	0.4165E-01	51497.9	101.60	0.02402
2890.	0.4147E-01	51865.4	101.74	0.02483
2900.	0.4130E-01	52237.9	101.88	0.02566
2910.	0.4112E-01	52615.5	102.03	0.02651
2920.	0.4095E-01	52998.3	102.17	0.02738
2930.	0.4077E-01	53386.4	102.32	0.02828
2940.	0.4060E-01	53779.9	102.46	0.02920
2950.	0.4042E-01	54178.9	102.61	0.03015
2960.	0.4025E-01	54583.5	102.76	0.03111
2970.	0.4007E-01	54993.7	102.91	0.03211
2980.	0.3990E-01	55409.7	103.06	0.03312
2990.	0.3973E-01	55831.5	103.22	0.03416
3000.	0.3955E-01	56259.3	103.37	0.03523

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.1231E 01	1407.3	48.09	0.
110.	0.1117E 01	1530.0	49.26	0.
120.	0.1023E 01	1657.2	50.36	0.
130.	0.9438E 00	1788.4	51.41	0.
140.	0.8759E 00	1923.1	52.41	0.
150.	0.8172E 00	2060.4	53.36	0.
160.	0.7660E 00	2200.0	54.26	0.
170.	0.7208E 00	2341.1	55.11	0.
180.	0.6806E 00	2483.4	55.93	0.
190.	0.6448E 00	2626.6	56.70	0.
200.	0.6125E 00	2770.4	57.44	0.
210.	0.5833E 00	2914.7	58.14	0.
220.	0.5568E 00	3059.2	58.81	0.
230.	0.5326E 00	3203.8	59.46	0.
240.	0.5104E 00	3348.6	60.07	0.
250.	0.4900E-00	3493.5	60.67	0.
260.	0.4711E-00	3638.4	61.23	0.
270.	0.4537E-00	3783.4	61.78	0.
280.	0.4375E-00	3928.4	62.31	0.
290.	0.4224E-00	4073.4	62.82	0.
300.	0.4084E-00	4218.4	63.31	0.
310.	0.3952E-00	4363.4	63.78	0.
320.	0.3829E-00	4508.5	64.24	0.
330.	0.3713E-00	4653.5	64.69	0.
340.	0.3604E-00	4798.6	65.12	0.
350.	0.3501E-00	4943.6	65.54	0.
360.	0.3404E-00	5088.6	65.95	0.
370.	0.3312E-00	5233.7	66.35	0.
380.	0.3225E-00	5378.7	66.74	0.
390.	0.3142E-00	5523.8	67.11	0.
400.	0.3064E-00	5668.9	67.48	0.
410.	0.2989E-00	5813.9	67.84	0.
420.	0.2918E-00	5959.0	68.19	0.
430.	0.2850E-00	6104.1	68.53	0.
440.	0.2786E-00	6249.2	68.86	0.
450.	0.2724E-00	6394.3	69.19	0.
460.	0.2665E-00	6539.5	69.51	0.
470.	0.2608E-00	6684.6	69.82	0.
480.	0.2554E-00	6829.8	70.13	0.
490.	0.2502E-00	6975.0	70.43	0.
500.	0.2452E-00	7120.3	70.72	0.
510.	0.2404E-00	7265.5	71.01	0.
520.	0.2358E-00	7410.8	71.29	0.
530.	0.2313E-00	7556.1	71.57	0.
540.	0.2271E-00	7701.5	71.84	0.
550.	0.2229E-00	7846.9	72.11	0.
560.	0.2190E-00	7992.3	72.37	0.
570.	0.2151E-00	8137.7	72.62	0.
580.	0.2114E-00	8283.1	72.88	0.
590.	0.2078E-00	8428.6	73.13	0.

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.2044E-00	8573.6	72.83	0.
610.	0.2010E-00	8719.1	73.07	0.
620.	0.1978E-00	8864.6	73.31	0.
630.	0.1947E-00	9010.1	73.54	0.
640.	0.1916E-00	9155.7	73.77	0.
650.	0.1887E-00	9301.3	74.00	0.
660.	0.1858E-00	9447.0	74.22	0.
670.	0.1830E-00	9592.8	74.44	0.
680.	0.1804E-00	9738.6	74.65	0.
690.	0.1777E-00	9884.6	74.87	0.
700.	0.1752E-00	10030.6	75.08	0.
710.	0.1727E-00	10176.7	75.28	0.
720.	0.1704E-00	10322.9	75.49	0.
730.	0.1680E-00	10469.1	75.69	0.
740.	0.1658E-00	10615.5	75.89	0.
750.	0.1635E-00	10762.0	76.09	0.
760.	0.1614E-00	10908.6	76.28	0.
770.	0.1593E-00	11055.3	76.47	0.
780.	0.1573E-00	11202.1	76.66	0.
790.	0.1553E-00	11349.1	76.85	0.
800.	0.1533E-00	11496.1	77.03	0.
810.	0.1514E-00	11643.3	77.22	0.
820.	0.1496E-00	11790.5	77.40	0.
830.	0.1478E-00	11937.9	77.58	0.
840.	0.1460E-00	12085.5	77.75	0.
850.	0.1443E-00	12233.1	77.93	0.
860.	0.1426E-00	12380.9	78.10	0.
870.	0.1410E-00	12528.8	78.27	0.
880.	0.1394E-00	12676.8	78.44	0.
890.	0.1378E-00	12825.0	78.61	0.
900.	0.1363E-00	12973.3	78.77	0.
910.	0.1348E-00	13121.7	78.94	0.
920.	0.1334E-00	13270.3	79.10	0.
930.	0.1319E-00	13419.0	79.26	0.
940.	0.1305E-00	13567.9	79.42	0.
950.	0.1291E-00	13716.9	79.58	0.
960.	0.1278E-00	13866.0	79.73	0.
970.	0.1265E-00	14015.3	79.89	0.
980.	0.1252E-00	14164.8	80.04	0.
990.	0.1239E-00	14314.4	80.19	0.
1000.	0.1227E-00	14464.1	80.34	0.
1010.	0.1215E-00	14614.1	80.49	0.
1020.	0.1203E-00	14764.1	80.64	0.
1030.	0.1191E-00	14914.4	80.79	0.
1040.	0.1180E-00	15064.8	80.93	0.
1050.	0.1169E-00	15215.3	81.08	0.
1060.	0.1158E-00	15366.1	81.22	0.
1070.	0.1147E-00	15517.0	81.36	0.
1080.	0.1136E-00	15668.0	81.50	0.
1090.	0.1126E-00	15819.3	81.64	0.

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.1116E-00	15970.7	81.78	0.
1110.	0.1105E-00	16122.3	81.92	0.
1120.	0.1096E-00	16274.1	82.05	0.
1130.	0.1086E-00	16426.0	82.19	0.
1140.	0.1076E-00	16578.2	82.32	0.
1150.	0.1067E-00	16730.5	82.46	0.
1160.	0.1058E-00	16883.0	82.59	0.
1170.	0.1049E-00	17035.7	82.72	0.
1180.	0.1040E-00	17188.6	82.85	0.
1190.	0.1031E-00	17341.7	82.98	0.
1200.	0.1023E-00	17495.0	83.11	0.
1210.	0.1014E-00	17648.4	83.23	0.
1220.	0.1006E-00	17802.1	83.36	0.
1230.	0.9977E-01	17956.0	83.49	0.
1240.	0.9897E-01	18110.1	83.61	0.
1250.	0.9818E-01	18264.4	83.73	0.
1260.	0.9740E-01	18418.9	83.86	0.
1270.	0.9663E-01	18573.6	83.98	0.
1280.	0.9588E-01	18728.5	84.10	0.
1290.	0.9514E-01	18883.6	84.22	0.
1300.	0.9441E-01	19039.0	84.34	0.
1310.	0.9369E-01	19194.5	84.46	0.
1320.	0.9298E-01	19350.3	84.58	0.
1330.	0.9228E-01	19506.3	84.70	0.
1340.	0.9159E-01	19662.6	84.81	0.
1350.	0.9091E-01	19819.0	84.93	0.
1360.	0.9024E-01	19975.7	85.05	0.
1370.	0.8959E-01	20132.6	85.16	0.
1380.	0.8894E-01	20289.8	85.28	0.
1390.	0.8830E-01	20447.2	85.39	0.
1400.	0.8767E-01	20604.8	85.50	0.
1410.	0.8705E-01	20762.6	85.61	0.
1420.	0.8643E-01	20920.7	85.73	0.
1430.	0.8583E-01	21079.1	85.84	0.
1440.	0.8523E-01	21237.7	85.95	0.
1450.	0.8465E-01	21396.5	86.06	0.
1460.	0.8407E-01	21555.6	86.17	0.
1470.	0.8350E-01	21714.9	86.28	0.
1480.	0.8293E-01	21874.5	86.38	0.
1490.	0.8238E-01	22034.3	86.49	0.
1500.	0.8189E-01	22201.7	86.61	0.00000
1510.	0.8135E-01	22362.2	86.72	0.00000
1520.	0.8081E-01	22522.8	86.82	0.00000
1530.	0.8029E-01	22683.7	86.93	0.00001
1540.	0.7976E-01	22844.9	87.03	0.00001
1550.	0.7925E-01	23006.2	87.14	0.00001
1560.	0.7874E-01	23167.8	87.24	0.00001
1570.	0.7824E-01	23329.6	87.34	0.00001
1580.	0.7774E-01	23491.7	87.45	0.00001
1590.	0.7726E-01	23654.0	87.55	0.00001

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.7677E-01	23816.5	87.65	0.00001
1610.	0.7630E-01	23979.3	87.75	0.00001
1620.	0.7582E-01	24142.2	87.85	0.00001
1630.	0.7536E-01	24305.5	87.95	0.00002
1640.	0.7490E-01	24469.0	88.05	0.00002
1650.	0.7445E-01	24632.7	88.15	0.00002
1660.	0.7400E-01	24796.6	88.25	0.00002
1670.	0.7355E-01	24960.8	88.35	0.00002
1680.	0.7312E-01	25125.3	88.45	0.00003
1690.	0.7268E-01	25290.0	88.55	0.00003
1700.	0.7225E-01	25455.0	88.65	0.00003
1710.	0.7183E-01	25620.2	88.74	0.00004
1720.	0.7141E-01	25785.7	88.84	0.00004
1730.	0.7100E-01	25951.4	88.94	0.00004
1740.	0.7059E-01	26117.5	89.03	0.00005
1750.	0.7019E-01	26283.8	89.13	0.00005
1760.	0.6979E-01	26450.3	89.22	0.00006
1770.	0.6940E-01	26617.2	89.32	0.00006
1780.	0.6900E-01	26784.3	89.41	0.00007
1790.	0.6862E-01	26951.8	89.51	0.00007
1800.	0.6824E-01	27119.5	89.60	0.00008
1810.	0.6786E-01	27287.5	89.69	0.00009
1820.	0.6749E-01	27455.9	89.79	0.00009
1830.	0.6712E-01	27624.5	89.88	0.00010
1840.	0.6675E-01	27793.5	89.97	0.00011
1850.	0.6639E-01	27962.8	90.07	0.00012
1860.	0.6603E-01	28132.5	90.16	0.00013
1870.	0.6568E-01	28302.5	90.25	0.00014
1880.	0.6533E-01	28472.8	90.34	0.00015
1890.	0.6498E-01	28643.5	90.43	0.00016
1900.	0.6464E-01	28814.6	90.52	0.00018
1910.	0.6430E-01	28986.1	90.61	0.00019
1920.	0.6396E-01	29158.0	90.70	0.00021
1930.	0.6363E-01	29330.2	90.79	0.00022
1940.	0.6330E-01	29502.9	90.88	0.00024
1950.	0.6298E-01	29676.0	90.97	0.00026
1960.	0.6265E-01	29849.5	91.06	0.00028
1970.	0.6234E-01	30023.5	91.15	0.00030
1980.	0.6202E-01	30198.0	91.24	0.00032
1990.	0.6171E-01	30372.9	91.33	0.00034
2000.	0.6140E-01	30548.3	91.42	0.00036
2010.	0.6109E-01	30724.3	91.51	0.00039
2020.	0.6079E-01	30900.7	91.60	0.00042
2030.	0.6048E-01	31077.7	91.69	0.00044
2040.	0.6019E-01	31255.2	91.78	0.00047
2050.	0.5989E-01	31433.3	91.87	0.00051
2060.	0.5960E-01	31612.0	91.95	0.00054
2070.	0.5931E-01	31791.3	92.04	0.00058
2080.	0.5902E-01	31971.2	92.13	0.00061
2090.	0.5874E-01	32151.8	92.22	0.00065

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.5845E-01	32333.0	92.31	0.00070
2110.	0.5817E-01	32514.9	92.40	0.00074
2120.	0.5790E-01	32697.5	92.49	0.00079
2130.	0.5762E-01	32880.8	92.57	0.00084
2140.	0.5735E-01	33064.9	92.66	0.00089
2150.	0.5708E-01	33249.8	92.75	0.00094
2160.	0.5681E-01	33435.4	92.84	0.00100
2170.	0.5655E-01	33621.9	92.93	0.00106
2180.	0.5628E-01	33809.3	93.02	0.00112
2190.	0.5602E-01	33997.5	93.11	0.00119
2200.	0.5576E-01	34186.6	93.20	0.00126
2210.	0.5551E-01	34376.6	93.28	0.00133
2220.	0.5525E-01	34567.6	93.37	0.00141
2230.	0.5500E-01	34759.6	93.46	0.00149
2240.	0.5475E-01	34952.6	93.55	0.00157
2250.	0.5450E-01	35146.7	93.64	0.00166
2260.	0.5426E-01	35341.8	93.73	0.00175
2270.	0.5401E-01	35538.1	93.82	0.00185
2280.	0.5377E-01	35735.5	93.91	0.00195
2290.	0.5353E-01	35934.1	94.00	0.00205
2300.	0.5329E-01	36133.9	94.10	0.00216
2310.	0.5306E-01	36335.0	94.19	0.00228
2320.	0.5282E-01	36537.3	94.28	0.00240
2330.	0.5259E-01	36741.0	94.37	0.00252
2340.	0.5236E-01	36946.1	94.46	0.00265
2350.	0.5213E-01	37152.6	94.56	0.00279
2360.	0.5190E-01	37360.5	94.65	0.00293
2370.	0.5167E-01	37569.9	94.74	0.00307
2380.	0.5145E-01	37780.8	94.84	0.00323
2390.	0.5122E-01	37993.4	94.93	0.00339
2400.	0.5100E-01	38207.5	95.03	0.00355
2410.	0.5078E-01	38423.3	95.12	0.00373
2420.	0.5056E-01	38640.9	95.22	0.00391
2430.	0.5034E-01	38860.1	95.31	0.00409
2440.	0.5013E-01	39081.2	95.41	0.00429
2450.	0.4991E-01	39304.2	95.51	0.00449
2460.	0.4970E-01	39529.1	95.60	0.00470
2470.	0.4949E-01	39755.9	95.70	0.00491
2480.	0.4928E-01	39984.7	95.80	0.00514
2490.	0.4907E-01	40215.6	95.90	0.00537
2500.	0.4886E-01	40448.6	96.00	0.00562
2510.	0.4865E-01	40683.8	96.10	0.00587
2520.	0.4845E-01	40921.2	96.20	0.00613
2530.	0.4824E-01	41160.9	96.31	0.00640
2540.	0.4804E-01	41402.9	96.41	0.00668
2550.	0.4784E-01	41647.4	96.51	0.00697
2560.	0.4764E-01	41894.3	96.62	0.00727
2570.	0.4744E-01	42143.7	96.72	0.00758
2580.	0.4724E-01	42395.7	96.83	0.00790
2590.	0.4704E-01	42650.3	96.94	0.00823

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.4684E-01	42907.6	97.04	0.00857
2610.	0.4665E-01	43167.8	97.15	0.00893
2620.	0.4645E-01	43430.7	97.26	0.00929
2630.	0.4626E-01	43696.6	97.37	0.00967
2640.	0.4607E-01	43965.4	97.48	0.01006
2650.	0.4587E-01	44237.2	97.60	0.01047
2660.	0.4568E-01	44512.2	97.71	0.01088
2670.	0.4549E-01	44790.3	97.82	0.01131
2680.	0.4530E-01	45071.7	97.94	0.01176
2690.	0.4511E-01	45356.4	98.05	0.01222
2700.	0.4493E-01	45644.5	98.17	0.01269
2710.	0.4474E-01	45936.0	98.29	0.01318
2720.	0.4455E-01	46231.1	98.41	0.01368
2730.	0.4437E-01	46529.8	98.53	0.01419
2740.	0.4418E-01	46832.2	98.65	0.01473
2750.	0.4400E-01	47138.4	98.77	0.01527
2760.	0.4381E-01	47448.4	98.89	0.01584
2770.	0.4363E-01	47762.3	99.02	0.01642
2780.	0.4345E-01	48080.2	99.15	0.01702
2790.	0.4326E-01	48402.3	99.27	0.01763
2800.	0.4308E-01	48728.4	99.40	0.01827
2810.	0.4290E-01	49058.9	99.53	0.01892
2820.	0.4272E-01	49393.6	99.66	0.01959
2830.	0.4254E-01	49732.8	99.79	0.02028
2840.	0.4236E-01	50076.5	99.93	0.02099
2850.	0.4218E-01	50424.7	100.06	0.02171
2860.	0.4201E-01	50777.7	100.20	0.02246
2870.	0.4183E-01	51135.4	100.33	0.02323
2880.	0.4165E-01	51497.9	100.47	0.02402
2890.	0.4147E-01	51865.4	100.61	0.02483
2900.	0.4130E-01	52237.9	100.75	0.02566
2910.	0.4112E-01	52615.5	100.89	0.02651
2920.	0.4095E-01	52998.3	101.04	0.02738
2930.	0.4077E-01	53386.4	101.18	0.02828
2940.	0.4060E-01	53779.9	101.33	0.02920
2950.	0.4042E-01	54178.9	101.48	0.03015
2960.	0.4025E-01	54583.5	101.63	0.03111
2970.	0.4007E-01	54993.7	101.78	0.03211
2980.	0.3990E-01	55409.7	101.93	0.03312
2990.	0.3973E-01	55831.5	102.09	0.03416
3000.	0.3955E-01	56259.3	102.24	0.03523

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.1231E 01	1246.7	45.46	0.
110.	0.1117E 01	1377.8	46.71	0.
120.	0.1023E 01	1514.9	47.90	0.
130.	0.9438E 00	1657.2	49.04	0.
140.	0.8759E 00	1803.6	50.13	0.
150.	0.8172E 00	1953.0	51.16	0.
160.	0.7660E 00	2104.4	52.14	0.
170.	0.7208E 00	2257.0	53.06	0.
180.	0.6806E 00	2410.1	53.94	0.
190.	0.6448E 00	2563.2	54.76	0.
200.	0.6125E 00	2715.9	55.55	0.
210.	0.5833E 00	2868.1	56.29	0.
220.	0.5568E 00	3019.7	57.00	0.
230.	0.5326E 00	3170.5	57.67	0.
240.	0.5104E 00	3320.7	58.30	0.
250.	0.4900E-00	3470.1	58.92	0.
260.	0.4711E-00	3619.0	59.50	0.
270.	0.4537E-00	3767.3	60.06	0.
280.	0.4375E-00	3915.0	60.60	0.
290.	0.4224E-00	4062.4	61.11	0.
300.	0.4084E-00	4209.4	61.61	0.
310.	0.3952E-00	4356.0	62.09	0.
320.	0.3829E-00	4502.4	62.56	0.
330.	0.3713E-00	4648.5	63.01	0.
340.	0.3604E-00	4794.5	63.44	0.
350.	0.3501E-00	4940.3	63.86	0.
360.	0.3404E-00	5085.9	64.28	0.
370.	0.3312E-00	5231.5	64.67	0.
380.	0.3225E-00	5377.0	65.06	0.
390.	0.3142E-00	5522.4	65.44	0.
400.	0.3064E-00	5667.7	65.81	0.
410.	0.2989E-00	5813.0	66.17	0.
420.	0.2918E-00	5958.3	66.52	0.
430.	0.2850E-00	6103.6	66.86	0.
440.	0.2786E-00	6248.8	67.19	0.
450.	0.2724E-00	6394.1	67.52	0.
460.	0.2665E-00	6539.3	67.84	0.
470.	0.2608E-00	6684.6	68.15	0.
480.	0.2554E-00	6829.9	68.46	0.
490.	0.2502E-00	6975.1	68.76	0.
500.	0.2452E-00	7120.4	69.05	0.
510.	0.2404E-00	7265.7	69.34	0.
520.	0.2358E-00	7411.0	69.62	0.
530.	0.2313E-00	7556.3	69.90	0.
540.	0.2271E-00	7701.7	70.17	0.
550.	0.2229E-00	7847.0	70.43	0.
560.	0.2190E-00	7992.4	70.70	0.
570.	0.2151E-00	8137.8	70.95	0.
580.	0.2114E-00	8283.2	71.21	0.
590.	0.2078E-00	8428.7	71.46	0.

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.2044E-00	8573.6	71.70	0.
610.	0.2010E-00	8719.1	71.94	0.
620.	0.1978E-00	8864.6	72.18	0.
630.	0.1947E-00	9010.1	72.41	0.
640.	0.1916E-00	9155.7	72.64	0.
650.	0.1887E-00	9301.3	72.86	0.
660.	0.1858E-00	9447.0	73.09	0.
670.	0.1830E-00	9592.8	73.31	0.
680.	0.1804E-00	9738.6	73.52	0.
690.	0.1777E-00	9884.6	73.73	0.
700.	0.1752E-00	10030.6	73.94	0.
710.	0.1727E-00	10176.7	74.15	0.
720.	0.1704E-00	10322.9	74.36	0.
730.	0.1680E-00	10469.1	74.56	0.
740.	0.1658E-00	10615.5	74.76	0.
750.	0.1635E-00	10762.0	74.95	0.
760.	0.1614E-00	10908.6	75.15	0.
770.	0.1593E-00	11055.3	75.34	0.
780.	0.1573E-00	11202.1	75.53	0.
790.	0.1553E-00	11349.1	75.72	0.
800.	0.1533E-00	11496.1	75.90	0.
810.	0.1514E-00	11643.3	76.08	0.
820.	0.1496E-00	11790.5	76.27	0.
830.	0.1478E-00	11937.9	76.44	0.
840.	0.1460E-00	12085.5	76.62	0.
850.	0.1443E-00	12233.1	76.80	0.
860.	0.1426E-00	12380.9	76.97	0.
870.	0.1410E-00	12528.8	77.14	0.
880.	0.1394E-00	12676.8	77.31	0.
890.	0.1378E-00	12825.0	77.48	0.
900.	0.1363E-00	12973.3	77.64	0.
910.	0.1348E-00	13121.7	77.81	0.
920.	0.1334E-00	13270.3	77.97	0.
930.	0.1319E-00	13419.0	78.13	0.
940.	0.1305E-00	13567.9	78.29	0.
950.	0.1291E-00	13716.9	78.45	0.
960.	0.1278E-00	13866.0	78.60	0.
970.	0.1265E-00	14015.3	78.76	0.
980.	0.1252E-00	14164.8	78.91	0.
990.	0.1239E-00	14314.4	79.06	0.
1000.	0.1227E-00	14464.1	79.21	0.
1010.	0.1215E-00	14614.1	79.36	0.
1020.	0.1203E-00	14764.1	79.51	0.
1030.	0.1191E-00	14914.4	79.66	0.
1040.	0.1180E-00	15064.8	79.80	0.
1050.	0.1169E-00	15215.3	79.94	0.
1060.	0.1158E-00	15366.1	80.09	0.
1070.	0.1147E-00	15517.0	80.23	0.
1080.	0.1136E-00	15668.0	80.37	0.
1090.	0.1126E-00	15819.3	80.51	0.

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.1116E-00	15970.7	80.65	0.
1110.	0.1105E-00	16122.3	80.78	0.
1120.	0.1096E-00	16274.1	80.92	0.
1130.	0.1086E-00	16426.0	81.06	0.
1140.	0.1076E-00	16578.2	81.19	0.
1150.	0.1067E-00	16730.5	81.32	0.
1160.	0.1058E-00	16883.0	81.46	0.
1170.	0.1049E-00	17035.7	81.59	0.
1180.	0.1040E-00	17188.6	81.72	0.
1190.	0.1031E-00	17341.7	81.85	0.
1200.	0.1023E-00	17495.0	81.97	0.
1210.	0.1014E-00	17648.4	82.10	0.
1220.	0.1006E-00	17802.1	82.23	0.
1230.	0.9977E-01	17956.0	82.35	0.
1240.	0.9897E-01	18110.1	82.48	0.
1250.	0.9818E-01	18264.4	82.60	0.
1260.	0.9740E-01	18418.9	82.73	0.
1270.	0.9663E-01	18573.6	82.85	0.
1280.	0.9588E-01	18728.5	82.97	0.
1290.	0.9514E-01	18883.6	83.09	0.
1300.	0.9441E-01	19039.0	83.21	0.
1310.	0.9369E-01	19194.5	83.33	0.
1320.	0.9298E-01	19350.3	83.45	0.
1330.	0.9228E-01	19506.3	83.56	0.
1340.	0.9159E-01	19662.6	83.68	0.
1350.	0.9091E-01	19819.0	83.80	0.
1360.	0.9024E-01	19975.7	83.91	0.
1370.	0.8959E-01	20132.6	84.03	0.
1380.	0.8894E-01	20289.8	84.14	0.
1390.	0.8830E-01	20447.2	84.26	0.
1400.	0.8767E-01	20604.8	84.37	0.
1410.	0.8705E-01	20762.6	84.48	0.
1420.	0.8643E-01	20920.7	84.59	0.
1430.	0.8583E-01	21079.1	84.71	0.
1440.	0.8523E-01	21237.7	84.82	0.
1450.	0.8465E-01	21396.5	84.93	0.
1460.	0.8407E-01	21555.6	85.03	0.
1470.	0.8350E-01	21714.9	85.14	0.
1480.	0.8293E-01	21874.5	85.25	0.
1490.	0.8238E-01	22034.3	85.36	0.
1500.	0.8189E-01	22201.7	85.48	0.00000
1510.	0.8135E-01	22362.2	85.58	0.00000
1520.	0.8081E-01	22522.8	85.69	0.00000
1530.	0.8029E-01	22683.7	85.79	0.00001
1540.	0.7976E-01	22844.9	85.90	0.00001
1550.	0.7925E-01	23006.2	86.00	0.00001
1560.	0.7874E-01	23167.8	86.11	0.00001
1570.	0.7824E-01	23329.6	86.21	0.00001
1580.	0.7774E-01	23491.7	86.31	0.00001
1590.	0.7726E-01	23654.0	86.42	0.00001

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.7677E-01	23816.5	86.52	0.00001
1610.	0.7630E-01	23979.3	86.62	0.00001
1620.	0.7582E-01	24142.2	86.72	0.00001
1630.	0.7536E-01	24305.5	86.82	0.00002
1640.	0.7490E-01	24469.0	86.92	0.00002
1650.	0.7445E-01	24632.7	87.02	0.00002
1660.	0.7400E-01	24796.6	87.12	0.00002
1670.	0.7355E-01	24960.8	87.22	0.00002
1680.	0.7312E-01	25125.3	87.32	0.00003
1690.	0.7268E-01	25290.0	87.42	0.00003
1700.	0.7225E-01	25455.0	87.51	0.00003
1710.	0.7183E-01	25620.2	87.61	0.00004
1720.	0.7141E-01	25785.7	87.71	0.00004
1730.	0.7100E-01	25951.4	87.80	0.00004
1740.	0.7059E-01	26117.5	87.90	0.00005
1750.	0.7019E-01	26283.8	88.00	0.00005
1760.	0.6979E-01	26450.3	88.09	0.00006
1770.	0.6940E-01	26617.2	88.19	0.00006
1780.	0.6900E-01	26784.3	88.28	0.00007
1790.	0.6862E-01	26951.8	88.37	0.00007
1800.	0.6824E-01	27119.5	88.47	0.00008
1810.	0.6786E-01	27287.5	88.56	0.00009
1820.	0.6749E-01	27455.9	88.65	0.00009
1830.	0.6712E-01	27624.5	88.75	0.00010
1840.	0.6675E-01	27793.5	88.84	0.00011
1850.	0.6639E-01	27962.8	88.93	0.00012
1860.	0.6603E-01	28132.5	89.02	0.00013
1870.	0.6568E-01	28302.5	89.12	0.00014
1880.	0.6533E-01	28472.8	89.21	0.00015
1890.	0.6498E-01	28643.5	89.30	0.00016
1900.	0.6464E-01	28814.6	89.39	0.00018
1910.	0.6430E-01	28986.1	89.48	0.00019
1920.	0.6396E-01	29158.0	89.57	0.00021
1930.	0.6363E-01	29330.2	89.66	0.00022
1940.	0.6330E-01	29502.9	89.75	0.00024
1950.	0.6298E-01	29676.0	89.84	0.00026
1960.	0.6265E-01	29849.5	89.93	0.00028
1970.	0.6234E-01	30023.5	90.02	0.00030
1980.	0.6202E-01	30198.0	90.11	0.00032
1990.	0.6171E-01	30372.9	90.20	0.00034
2000.	0.6140E-01	30548.3	90.29	0.00036
2010.	0.6109E-01	30724.3	90.38	0.00039
2020.	0.6079E-01	30900.7	90.47	0.00042
2030.	0.6048E-01	31077.7	90.56	0.00044
2040.	0.6019E-01	31255.2	90.65	0.00047
2050.	0.5989E-01	31433.3	90.73	0.00051
2060.	0.5960E-01	31612.0	90.82	0.00054
2070.	0.5931E-01	31791.3	90.91	0.00058
2080.	0.5902E-01	31971.2	91.00	0.00061
2090.	0.5874E-01	32151.8	91.09	0.00065

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.5845E-01	32333.0	91.18	0.00070
2110.	0.5817E-01	32514.9	91.26	0.00074
2120.	0.5790E-01	32697.5	91.35	0.00079
2130.	0.5762E-01	32880.8	91.44	0.00084
2140.	0.5735E-01	33064.9	91.53	0.00089
2150.	0.5708E-01	33249.8	91.62	0.00094
2160.	0.5681E-01	33435.4	91.71	0.00100
2170.	0.5655E-01	33621.9	91.80	0.00106
2180.	0.5628E-01	33809.3	91.88	0.00112
2190.	0.5602E-01	33997.5	91.97	0.00119
2200.	0.5576E-01	34186.6	92.06	0.00126
2210.	0.5551E-01	34376.6	92.15	0.00133
2220.	0.5525E-01	34567.6	92.24	0.00141
2230.	0.5500E-01	34759.6	92.33	0.00149
2240.	0.5475E-01	34952.6	92.42	0.00157
2250.	0.5450E-01	35146.7	92.51	0.00166
2260.	0.5426E-01	35341.8	92.60	0.00175
2270.	0.5401E-01	35538.1	92.69	0.00185
2280.	0.5377E-01	35735.5	92.78	0.00195
2290.	0.5353E-01	35934.1	92.87	0.00205
2300.	0.5329E-01	36133.9	92.96	0.00216
2310.	0.5306E-01	36335.0	93.05	0.00228
2320.	0.5282E-01	36537.3	93.15	0.00240
2330.	0.5259E-01	36741.0	93.24	0.00252
2340.	0.5236E-01	36946.1	93.33	0.00265
2350.	0.5213E-01	37152.6	93.42	0.00279
2360.	0.5190E-01	37360.5	93.52	0.00293
2370.	0.5167E-01	37569.9	93.61	0.00307
2380.	0.5145E-01	37780.8	93.70	0.00323
2390.	0.5122E-01	37993.4	93.80	0.00339
2400.	0.5100E-01	38207.5	93.89	0.00355
2410.	0.5078E-01	38423.3	93.99	0.00373
2420.	0.5056E-01	38640.9	94.08	0.00391
2430.	0.5034E-01	38860.1	94.18	0.00409
2440.	0.5013E-01	39081.2	94.28	0.00429
2450.	0.4991E-01	39304.2	94.37	0.00449
2460.	0.4970E-01	39529.1	94.47	0.00470
2470.	0.4949E-01	39755.9	94.57	0.00491
2480.	0.4928E-01	39984.7	94.67	0.00514
2490.	0.4907E-01	40215.6	94.77	0.00537
2500.	0.4886E-01	40448.6	94.87	0.00562
2510.	0.4865E-01	40683.8	94.97	0.00587
2520.	0.4845E-01	40921.2	95.07	0.00613
2530.	0.4824E-01	41160.9	95.17	0.00640
2540.	0.4804E-01	41402.9	95.28	0.00668
2550.	0.4784E-01	41647.4	95.38	0.00697
2560.	0.4764E-01	41894.3	95.49	0.00727
2570.	0.4744E-01	42143.7	95.59	0.00758
2580.	0.4724E-01	42395.7	95.70	0.00790
2590.	0.4704E-01	42650.3	95.80	0.00823

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.4684E-01	42907.6	95.91	0.00857
2610.	0.4665E-01	43167.8	96.02	0.00893
2620.	0.4645E-01	43430.7	96.13	0.00929
2630.	0.4626E-01	43696.6	96.24	0.00967
2640.	0.4607E-01	43965.4	96.35	0.01006
2650.	0.4587E-01	44237.2	96.46	0.01047
2660.	0.4568E-01	44512.2	96.58	0.01088
2670.	0.4549E-01	44790.3	96.69	0.01131
2680.	0.4530E-01	45071.7	96.81	0.01176
2690.	0.4511E-01	45356.4	96.92	0.01222
2700.	0.4493E-01	45644.5	97.04	0.01269
2710.	0.4474E-01	45936.0	97.16	0.01318
2720.	0.4455E-01	46231.1	97.28	0.01368
2730.	0.4437E-01	46529.8	97.40	0.01419
2740.	0.4418E-01	46832.2	97.52	0.01473
2750.	0.4400E-01	47138.4	97.64	0.01527
2760.	0.4381E-01	47448.4	97.76	0.01584
2770.	0.4363E-01	47762.3	97.89	0.01642
2780.	0.4345E-01	48080.2	98.01	0.01702
2790.	0.4326E-01	48402.3	98.14	0.01763
2800.	0.4308E-01	48728.4	98.27	0.01827
2810.	0.4290E-01	49058.9	98.40	0.01892
2820.	0.4272E-01	49393.6	98.53	0.01959
2830.	0.4254E-01	49732.8	98.66	0.02028
2840.	0.4236E-01	50076.5	98.79	0.02099
2850.	0.4218E-01	50424.7	98.93	0.02171
2860.	0.4201E-01	50777.7	99.06	0.02246
2870.	0.4183E-01	51135.4	99.20	0.02323
2880.	0.4165E-01	51497.9	99.34	0.02402
2890.	0.4147E-01	51865.4	99.48	0.02483
2900.	0.4130E-01	52237.9	99.62	0.02566
2910.	0.4112E-01	52615.5	99.76	0.02651
2920.	0.4095E-01	52998.3	99.91	0.02738
2930.	0.4077E-01	53386.4	100.05	0.02828
2940.	0.4060E-01	53779.9	100.20	0.02920
2950.	0.4042E-01	54178.9	100.35	0.03015
2960.	0.4025E-01	54583.5	100.50	0.03111
2970.	0.4007E-01	54993.7	100.65	0.03211
2980.	0.3990E-01	55409.7	100.80	0.03312
2990.	0.3973E-01	55831.5	100.95	0.03416
3000.	0.3955E-01	56259.3	101.11	0.03523

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.1231E 01	1086.2	41.06	0.
110.	0.1117E 01	1225.5	42.39	0.
120.	0.1023E 01	1372.5	43.67	0.
130.	0.9438E 00	1525.9	44.90	0.
140.	0.8759E 00	1684.1	46.07	0.
150.	0.8172E 00	1845.5	47.18	0.
160.	0.7660E 00	2008.8	48.23	0.
170.	0.7208E 00	2172.9	49.23	0.
180.	0.6806E 00	2336.7	50.17	0.
190.	0.6448E 00	2499.7	51.05	0.
200.	0.6125E 00	2661.4	51.88	0.
210.	0.5833E 00	2821.6	52.66	0.
220.	0.5568E 00	2980.2	53.40	0.
230.	0.5326E 00	3137.2	54.09	0.
240.	0.5104E 00	3292.7	54.76	0.
250.	0.4900E-00	3446.8	55.38	0.
260.	0.4711E-00	3599.5	55.98	0.
270.	0.4537E-00	3751.1	56.56	0.
280.	0.4375E-00	3901.7	57.10	0.
290.	0.4224E-00	4051.4	57.63	0.
300.	0.4084E-00	4200.3	58.13	0.
310.	0.3952E-00	4348.6	58.62	0.
320.	0.3829E-00	4496.3	59.09	0.
330.	0.3713E-00	4643.5	59.54	0.
340.	0.3604E-00	4790.4	59.98	0.
350.	0.3501E-00	4936.9	60.41	0.
360.	0.3404E-00	5083.2	60.82	0.
370.	0.3312E-00	5229.3	61.22	0.
380.	0.3225E-00	5375.2	61.61	0.
390.	0.3142E-00	5520.9	61.99	0.
400.	0.3064E-00	5666.6	62.35	0.
410.	0.2989E-00	5812.1	62.71	0.
420.	0.2918E-00	5957.6	63.06	0.
430.	0.2850E-00	6103.1	63.41	0.
440.	0.2786E-00	6248.5	63.74	0.
450.	0.2724E-00	6393.9	64.07	0.
460.	0.2665E-00	6539.2	64.39	0.
470.	0.2608E-00	6684.6	64.70	0.
480.	0.2554E-00	6829.9	65.01	0.
490.	0.2502E-00	6975.2	65.30	0.
500.	0.2452E-00	7120.5	65.60	0.
510.	0.2404E-00	7265.9	65.89	0.
520.	0.2358E-00	7411.2	66.17	0.
530.	0.2313E-00	7556.5	66.45	0.
540.	0.2271E-00	7701.8	66.72	0.
550.	0.2229E-00	7847.2	66.98	0.
560.	0.2190E-00	7992.5	67.25	0.
570.	0.2151E-00	8137.9	67.50	0.
580.	0.2114E-00	8283.3	67.76	0.
590.	0.2078E-00	8428.7	68.00	0.

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.2044E-00	8573.6	70.57	0.
610.	0.2010E-00	8719.1	70.81	0.
620.	0.1978E-00	8864.6	71.04	0.
630.	0.1947E-00	9010.1	71.28	0.
640.	0.1916E-00	9155.7	71.51	0.
650.	0.1887E-00	9301.3	71.73	0.
660.	0.1858E-00	9447.0	71.95	0.
670.	0.1830E-00	9592.8	72.17	0.
680.	0.1804E-00	9738.6	72.39	0.
690.	0.1777E-00	9884.6	72.60	0.
700.	0.1752E-00	10030.6	72.81	0.
710.	0.1727E-00	10176.7	73.02	0.
720.	0.1704E-00	10322.9	73.22	0.
730.	0.1680E-00	10469.1	73.43	0.
740.	0.1658E-00	10615.5	73.62	0.
750.	0.1635E-00	10762.0	73.82	0.
760.	0.1614E-00	10908.6	74.02	0.
770.	0.1593E-00	11055.3	74.21	0.
780.	0.1573E-00	11202.1	74.40	0.
790.	0.1553E-00	11349.1	74.58	0.
800.	0.1533E-00	11496.1	74.77	0.
810.	0.1514E-00	11643.3	74.95	0.
820.	0.1496E-00	11790.5	75.13	0.
830.	0.1478E-00	11937.9	75.31	0.
840.	0.1460E-00	12085.5	75.49	0.
850.	0.1443E-00	12233.1	75.66	0.
860.	0.1426E-00	12380.9	75.84	0.
870.	0.1410E-00	12528.8	76.01	0.
880.	0.1394E-00	12676.8	76.18	0.
890.	0.1378E-00	12825.0	76.34	0.
900.	0.1363E-00	12973.3	76.51	0.
910.	0.1348E-00	13121.7	76.67	0.
920.	0.1334E-00	13270.3	76.83	0.
930.	0.1319E-00	13419.0	77.00	0.
940.	0.1305E-00	13567.9	77.15	0.
950.	0.1291E-00	13716.9	77.31	0.
960.	0.1278E-00	13866.0	77.47	0.
970.	0.1265E-00	14015.3	77.62	0.
980.	0.1252E-00	14164.8	77.78	0.
990.	0.1239E-00	14314.4	77.93	0.
1000.	0.1227E-00	14464.1	78.08	0.
1010.	0.1215E-00	14614.1	78.23	0.
1020.	0.1203E-00	14764.1	78.38	0.
1030.	0.1191E-00	14914.4	78.52	0.
1040.	0.1180E-00	15064.8	78.67	0.
1050.	0.1169E-00	15215.3	78.81	0.
1060.	0.1158E-00	15366.1	78.96	0.
1070.	0.1147E-00	15517.0	79.10	0.
1080.	0.1136E-00	15668.0	79.24	0.
1090.	0.1126E-00	15819.3	79.38	0.

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.1116E-00	15970.7	79.51	0.
1110.	0.1105E-00	16122.3	79.65	0.
1120.	0.1096E-00	16274.1	79.79	0.
1130.	0.1086E-00	16426.0	79.92	0.
1140.	0.1076E-00	16578.2	80.06	0.
1150.	0.1067E-00	16730.5	80.19	0.
1160.	0.1058E-00	16883.0	80.32	0.
1170.	0.1049E-00	17035.7	80.45	0.
1180.	0.1040E-00	17188.6	80.58	0.
1190.	0.1031E-00	17341.7	80.71	0.
1200.	0.1023E-00	17495.0	80.84	0.
1210.	0.1014E-00	17648.4	80.97	0.
1220.	0.1006E-00	17802.1	81.10	0.
1230.	0.9977E-01	17956.0	81.22	0.
1240.	0.9897E-01	18110.1	81.35	0.
1250.	0.9818E-01	18264.4	81.47	0.
1260.	0.9740E-01	18418.9	81.59	0.
1270.	0.9663E-01	18573.6	81.71	0.
1280.	0.9588E-01	18728.5	81.84	0.
1290.	0.9514E-01	18883.6	81.96	0.
1300.	0.9441E-01	19039.0	82.08	0.
1310.	0.9369E-01	19194.5	82.20	0.
1320.	0.9298E-01	19350.3	82.31	0.
1330.	0.9228E-01	19506.3	82.43	0.
1340.	0.9159E-01	19662.6	82.55	0.
1350.	0.9091E-01	19819.0	82.67	0.
1360.	0.9024E-01	19975.7	82.78	0.
1370.	0.8959E-01	20132.6	82.90	0.
1380.	0.8894E-01	20289.8	83.01	0.
1390.	0.8830E-01	20447.2	83.12	0.
1400.	0.8767E-01	20604.8	83.24	0.
1410.	0.8705E-01	20762.6	83.35	0.
1420.	0.8643E-01	20920.7	83.46	0.
1430.	0.8583E-01	21079.1	83.57	0.
1440.	0.8523E-01	21237.7	83.68	0.
1450.	0.8465E-01	21396.5	83.79	0.
1460.	0.8407E-01	21555.6	83.90	0.
1470.	0.8350E-01	21714.9	84.01	0.
1480.	0.8293E-01	21874.5	84.12	0.
1490.	0.8238E-01	22034.3	84.23	0.
1500.	0.8189E-01	22201.7	84.34	0.00000
1510.	0.8135E-01	22362.2	84.45	0.00000
1520.	0.8081E-01	22522.8	84.56	0.00000
1530.	0.8029E-01	22683.7	84.66	0.00001
1540.	0.7976E-01	22844.9	84.77	0.00001
1550.	0.7925E-01	23006.2	84.87	0.00001
1560.	0.7874E-01	23167.8	84.98	0.00001
1570.	0.7824E-01	23329.6	85.08	0.00001
1580.	0.7774E-01	23491.7	85.18	0.00001
1590.	0.7726E-01	23654.0	85.28	0.00001

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.7677E-01	23816.5	85.39	0.00001
1610.	0.7630E-01	23979.3	85.49	0.00001
1620.	0.7582E-01	24142.2	85.59	0.00001
1630.	0.7536E-01	24305.5	85.69	0.00002
1640.	0.7490E-01	24469.0	85.79	0.00002
1650.	0.7445E-01	24632.7	85.89	0.00002
1660.	0.7400E-01	24796.6	85.99	0.00002
1670.	0.7355E-01	24960.8	86.09	0.00002
1680.	0.7312E-01	25125.3	86.19	0.00003
1690.	0.7268E-01	25290.0	86.28	0.00003
1700.	0.7225E-01	25455.0	86.38	0.00003
1710.	0.7183E-01	25620.2	86.48	0.00004
1720.	0.7141E-01	25785.7	86.57	0.00004
1730.	0.7100E-01	25951.4	86.67	0.00004
1740.	0.7059E-01	26117.5	86.77	0.00005
1750.	0.7019E-01	26283.8	86.86	0.00005
1760.	0.6979E-01	26450.3	86.96	0.00006
1770.	0.6940E-01	26617.2	87.05	0.00006
1780.	0.6900E-01	26784.3	87.15	0.00007
1790.	0.6862E-01	26951.8	87.24	0.00007
1800.	0.6824E-01	27119.5	87.34	0.00008
1810.	0.6786E-01	27287.5	87.43	0.00009
1820.	0.6749E-01	27455.9	87.52	0.00009
1830.	0.6712E-01	27624.5	87.62	0.00010
1840.	0.6675E-01	27793.5	87.71	0.00011
1850.	0.6639E-01	27962.8	87.80	0.00012
1860.	0.6603E-01	28132.5	87.89	0.00013
1870.	0.6568E-01	28302.5	87.98	0.00014
1880.	0.6533E-01	28472.8	88.08	0.00015
1890.	0.6498E-01	28643.5	88.17	0.00016
1900.	0.6464E-01	28814.6	88.26	0.00018
1910.	0.6430E-01	28986.1	88.35	0.00019
1920.	0.6396E-01	29158.0	88.44	0.00021
1930.	0.6363E-01	29330.2	88.53	0.00022
1940.	0.6330E-01	29502.9	88.62	0.00024
1950.	0.6298E-01	29676.0	88.71	0.00026
1960.	0.6265E-01	29849.5	88.80	0.00028
1970.	0.6234E-01	30023.5	88.89	0.00030
1980.	0.6202E-01	30198.0	88.98	0.00032
1990.	0.6171E-01	30372.9	89.07	0.00034
2000.	0.6140E-01	30548.3	89.16	0.00036
2010.	0.6109E-01	30724.3	89.25	0.00039
2020.	0.6079E-01	30900.7	89.33	0.00042
2030.	0.6048E-01	31077.7	89.42	0.00044
2040.	0.6019E-01	31255.2	89.51	0.00047
2050.	0.5989E-01	31433.3	89.60	0.00051
2060.	0.5960E-01	31612.0	89.69	0.00054
2070.	0.5931E-01	31791.3	89.78	0.00058
2080.	0.5902E-01	31971.2	89.87	0.00061
2090.	0.5874E-01	32151.8	89.96	0.00065

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.5845E-01	32333.0	90.04	0.00070
2110.	0.5817E-01	32514.9	90.13	0.00074
2120.	0.5790E-01	32697.5	90.22	0.00079
2130.	0.5762E-01	32880.8	90.31	0.00084
2140.	0.5735E-01	33064.9	90.40	0.00089
2150.	0.5708E-01	33249.8	90.49	0.00094
2160.	0.5681E-01	33435.4	90.57	0.00100
2170.	0.5655E-01	33621.9	90.66	0.00106
2180.	0.5628E-01	33809.3	90.75	0.00112
2190.	0.5602E-01	33997.5	90.84	0.00119
2200.	0.5576E-01	34186.6	90.93	0.00126
2210.	0.5551E-01	34376.6	91.02	0.00133
2220.	0.5525E-01	34567.6	91.11	0.00141
2230.	0.5500E-01	34759.6	91.20	0.00149
2240.	0.5475E-01	34952.6	91.29	0.00157
2250.	0.5450E-01	35146.7	91.38	0.00166
2260.	0.5426E-01	35341.8	91.47	0.00175
2270.	0.5401E-01	35538.1	91.56	0.00185
2280.	0.5377E-01	35735.5	91.65	0.00195
2290.	0.5353E-01	35934.1	91.74	0.00205
2300.	0.5329E-01	36133.9	91.83	0.00216
2310.	0.5306E-01	36335.0	91.92	0.00228
2320.	0.5282E-01	36537.3	92.01	0.00240
2330.	0.5259E-01	36741.0	92.11	0.00252
2340.	0.5236E-01	36946.1	92.20	0.00265
2350.	0.5213E-01	37152.6	92.29	0.00279
2360.	0.5190E-01	37360.5	92.38	0.00293
2370.	0.5167E-01	37569.9	92.48	0.00307
2380.	0.5145E-01	37780.8	92.57	0.00323
2390.	0.5122E-01	37993.4	92.67	0.00339
2400.	0.5100E-01	38207.5	92.76	0.00355
2410.	0.5078E-01	38423.3	92.86	0.00373
2420.	0.5056E-01	38640.9	92.95	0.00391
2430.	0.5034E-01	38860.1	93.05	0.00409
2440.	0.5013E-01	39081.2	93.14	0.00429
2450.	0.4991E-01	39304.2	93.24	0.00449
2460.	0.4970E-01	39529.1	93.34	0.00470
2470.	0.4949E-01	39755.9	93.44	0.00491
2480.	0.4928E-01	39984.7	93.54	0.00514
2490.	0.4907E-01	40215.6	93.64	0.00537
2500.	0.4886E-01	40448.6	93.74	0.00562
2510.	0.4865E-01	40683.8	93.84	0.00587
2520.	0.4845E-01	40921.2	93.94	0.00613
2530.	0.4824E-01	41160.9	94.04	0.00640
2540.	0.4804E-01	41402.9	94.14	0.00668
2550.	0.4784E-01	41647.4	94.25	0.00697
2560.	0.4764E-01	41894.3	94.35	0.00727
2570.	0.4744E-01	42143.7	94.46	0.00758
2580.	0.4724E-01	42395.7	94.56	0.00790
2590.	0.4704E-01	42650.3	94.67	0.00823

PRESSURE 5. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.4684E-01	42907.6	94.78	0.00857
2610.	0.4665E-01	43167.8	94.89	0.00893
2620.	0.4645E-01	43430.7	95.00	0.00929
2630.	0.4626E-01	43696.6	95.11	0.00967
2640.	0.4607E-01	43965.4	95.22	0.01006
2650.	0.4587E-01	44237.2	95.33	0.01047
2660.	0.4568E-01	44512.2	95.44	0.01088
2670.	0.4549E-01	44790.3	95.56	0.01131
2680.	0.4530E-01	45071.7	95.67	0.01176
2690.	0.4511E-01	45356.4	95.79	0.01222
2700.	0.4493E-01	45644.5	95.91	0.01269
2710.	0.4474E-01	45936.0	96.02	0.01318
2720.	0.4455E-01	46231.1	96.14	0.01368
2730.	0.4437E-01	46529.8	96.26	0.01419
2740.	0.4418E-01	46832.2	96.38	0.01473
2750.	0.4400E-01	47138.4	96.51	0.01527
2760.	0.4381E-01	47448.4	96.63	0.01584
2770.	0.4363E-01	47762.3	96.75	0.01642
2780.	0.4345E-01	48080.2	96.88	0.01702
2790.	0.4326E-01	48402.3	97.01	0.01763
2800.	0.4308E-01	48728.4	97.14	0.01827
2810.	0.4290E-01	49058.9	97.26	0.01892
2820.	0.4272E-01	49393.6	97.40	0.01959
2830.	0.4254E-01	49732.8	97.53	0.02028
2840.	0.4236E-01	50076.5	97.66	0.02099
2850.	0.4218E-01	50424.7	97.79	0.02171
2860.	0.4201E-01	50777.7	97.93	0.02246
2870.	0.4183E-01	51135.4	98.07	0.02323
2880.	0.4165E-01	51497.9	98.21	0.02402
2890.	0.4147E-01	51865.4	98.35	0.02483
2900.	0.4130E-01	52237.9	98.49	0.02566
2910.	0.4112E-01	52615.5	98.63	0.02651
2920.	0.4095E-01	52998.3	98.77	0.02738
2930.	0.4077E-01	53386.4	98.92	0.02828
2940.	0.4060E-01	53779.9	99.07	0.02920
2950.	0.4042E-01	54178.9	99.21	0.03015
2960.	0.4025E-01	54583.5	99.36	0.03111
2970.	0.4007E-01	54993.7	99.51	0.03211
2980.	0.3990E-01	55409.7	99.67	0.03312
2990.	0.3973E-01	55831.5	99.82	0.03416
3000.	0.3955E-01	56259.3	99.98	0.03523

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.2465E 01	1560.8	46.71	0.
110.	0.2234E 01	1676.5	47.81	0.
120.	0.2044E 01	1794.7	48.84	0.
130.	0.1885E 01	1915.7	49.81	0.
140.	0.1748E 01	2039.3	50.72	0.
150.	0.1631E 01	2165.2	51.59	0.
160.	0.1528E 01	2293.3	52.42	0.
170.	0.1438E 01	2423.5	53.21	0.
180.	0.1357E 01	2555.5	53.96	0.
190.	0.1286E 01	2689.2	54.68	0.
200.	0.1221E 01	2824.3	55.38	0.
210.	0.1163E 01	2960.8	56.04	0.
220.	0.1110E 01	3098.5	56.68	0.
230.	0.1062E 01	3237.3	57.30	0.
240.	0.1018E 01	3376.9	57.90	0.
250.	0.9771E 00	3517.4	58.47	0.
260.	0.9396E 00	3658.6	59.02	0.
270.	0.9049E 00	3800.5	59.56	0.
280.	0.8726E 00	3942.8	60.08	0.
290.	0.8426E 00	4085.6	60.58	0.
300.	0.8145E 00	4228.8	61.06	0.
310.	0.7883E 00	4372.3	61.53	0.
320.	0.7638E 00	4516.2	61.99	0.
330.	0.7407E 00	4660.2	62.43	0.
340.	0.7189E 00	4804.4	62.86	0.
350.	0.6984E 00	4948.8	63.28	0.
360.	0.6791E 00	5093.3	63.69	0.
370.	0.6608E 00	5238.0	64.09	0.
380.	0.6435E 00	5382.7	64.47	0.
390.	0.6270E 00	5527.5	64.85	0.
400.	0.6114E 00	5672.3	65.21	0.
410.	0.5965E 00	5817.2	65.57	0.
420.	0.5823E 00	5962.2	65.92	0.
430.	0.5688E 00	6107.1	66.26	0.
440.	0.5559E 00	6252.2	66.60	0.
450.	0.5436E 00	6397.2	66.92	0.
460.	0.5318E 00	6542.3	67.24	0.
470.	0.5206E 00	6687.4	67.55	0.
480.	0.5097E 00	6832.6	67.86	0.
490.	0.4994E-00	6977.8	68.16	0.
500.	0.4894E-00	7123.0	68.45	0.
510.	0.4798E-00	7268.3	68.74	0.
520.	0.4706E-00	7413.6	69.02	0.
530.	0.4618E-00	7559.0	69.30	0.
540.	0.4532E-00	7704.4	69.57	0.
550.	0.4450E-00	7849.8	69.84	0.
560.	0.4371E-00	7995.3	70.10	0.
570.	0.4295E-00	8140.8	70.36	0.
580.	0.4221E-00	8286.3	70.61	0.
590.	0.4149E-00	8431.8	70.86	0.

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.4080E-00	8576.9	71.10	0.
610.	0.4014E-00	8722.4	71.34	0.
620.	0.3949E-00	8868.0	71.58	0.
630.	0.3887E-00	9013.5	71.81	0.
640.	0.3826E-00	9159.1	72.04	0.
650.	0.3767E-00	9304.8	72.27	0.
660.	0.3710E-00	9450.5	72.49	0.
670.	0.3655E-00	9596.3	72.71	0.
680.	0.3602E-00	9742.2	72.93	0.
690.	0.3549E-00	9888.1	73.14	0.
700.	0.3499E-00	10034.2	73.35	0.
710.	0.3450E-00	10180.3	73.56	0.
720.	0.3402E-00	10326.5	73.76	0.
730.	0.3355E-00	10472.8	73.96	0.
740.	0.3310E-00	10619.2	74.16	0.
750.	0.3266E-00	10765.7	74.36	0.
760.	0.3223E-00	10912.3	74.55	0.
770.	0.3182E-00	11059.0	74.75	0.
780.	0.3141E-00	11205.9	74.93	0.
790.	0.3101E-00	11352.8	75.12	0.
800.	0.3063E-00	11499.9	75.31	0.
810.	0.3025E-00	11647.1	75.49	0.
820.	0.2988E-00	11794.4	75.67	0.
830.	0.2952E-00	11941.8	75.85	0.
840.	0.2917E-00	12089.3	76.03	0.
850.	0.2883E-00	12237.0	76.20	0.
860.	0.2849E-00	12384.8	76.37	0.
870.	0.2817E-00	12532.7	76.54	0.
880.	0.2785E-00	12680.7	76.71	0.
890.	0.2753E-00	12828.9	76.88	0.
900.	0.2723E-00	12977.2	77.05	0.
910.	0.2693E-00	13125.7	77.21	0.
920.	0.2664E-00	13274.3	77.37	0.
930.	0.2635E-00	13423.0	77.53	0.
940.	0.2607E-00	13571.9	77.69	0.
950.	0.2580E-00	13720.9	77.85	0.
960.	0.2553E-00	13870.1	78.01	0.
970.	0.2527E-00	14019.4	78.16	0.
980.	0.2501E-00	14168.8	78.32	0.
990.	0.2476E-00	14318.5	78.47	0.
1000.	0.2451E-00	14468.2	78.62	0.
1010.	0.2427E-00	14618.2	78.77	0.
1020.	0.2403E-00	14768.2	78.91	0.
1030.	0.2380E-00	14918.5	79.06	0.
1040.	0.2357E-00	15068.9	79.21	0.
1050.	0.2335E-00	15219.5	79.35	0.
1060.	0.2313E-00	15370.2	79.49	0.
1070.	0.2291E-00	15521.1	79.64	0.
1080.	0.2270E-00	15672.2	79.78	0.
1090.	0.2249E-00	15823.4	79.92	0.

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.2229E-00	15974.9	80.05	0.
1110.	0.2209E-00	16126.5	80.19	0.
1120.	0.2189E-00	16278.3	80.33	0.
1130.	0.2170E-00	16430.2	80.46	0.
1140.	0.2151E-00	16582.4	80.60	0.
1150.	0.2132E-00	16734.7	80.73	0.
1160.	0.2114E-00	16887.2	80.86	0.
1170.	0.2096E-00	17039.9	80.99	0.
1180.	0.2078E-00	17192.8	81.12	0.
1190.	0.2060E-00	17345.9	81.25	0.
1200.	0.2043E-00	17499.2	81.38	0.
1210.	0.2026E-00	17652.7	81.51	0.
1220.	0.2010E-00	17806.4	81.63	0.
1230.	0.1994E-00	17960.3	81.76	0.
1240.	0.1978E-00	18114.4	81.88	0.
1250.	0.1962E-00	18268.7	82.01	0.
1260.	0.1946E-00	18423.2	82.13	0.
1270.	0.1931E-00	18577.9	82.25	0.
1280.	0.1916E-00	18732.8	82.38	0.
1290.	0.1901E-00	18888.0	82.50	0.
1300.	0.1886E-00	19043.3	82.62	0.
1310.	0.1872E-00	19198.9	82.73	0.
1320.	0.1858E-00	19354.7	82.85	0.
1330.	0.1844E-00	19510.7	82.97	0.
1340.	0.1830E-00	19666.9	83.09	0.
1350.	0.1817E-00	19823.4	83.20	0.
1360.	0.1803E-00	19980.1	83.32	0.
1370.	0.1790E-00	20137.0	83.44	0.
1380.	0.1777E-00	20294.2	83.55	0.
1390.	0.1764E-00	20451.6	83.66	0.
1400.	0.1752E-00	20609.2	83.78	0.
1410.	0.1739E-00	20767.1	83.89	0.
1420.	0.1727E-00	20925.2	84.00	0.
1430.	0.1715E-00	21083.5	84.11	0.
1440.	0.1703E-00	21242.1	84.22	0.
1450.	0.1692E-00	21400.9	84.33	0.
1460.	0.1680E-00	21560.0	84.44	0.
1470.	0.1669E-00	21719.4	84.55	0.
1480.	0.1657E-00	21878.9	84.66	0.
1490.	0.1646E-00	22038.8	84.77	0.
1500.	0.1638E-00	22201.5	84.88	0.00000
1510.	0.1627E-00	22361.9	84.99	0.00000
1520.	0.1616E-00	22522.5	85.09	0.00000
1530.	0.1606E-00	22683.4	85.20	0.00000
1540.	0.1595E-00	22844.5	85.31	0.00000
1550.	0.1585E-00	23005.8	85.41	0.00000
1560.	0.1575E-00	23167.3	85.51	0.00001
1570.	0.1565E-00	23329.1	85.62	0.00001
1580.	0.1555E-00	23491.0	85.72	0.00001
1590.	0.1545E-00	23653.3	85.82	0.00001

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.1535E-00	23815.7	85.92	0.00001
1610.	0.1526E-00	23978.4	86.03	0.00001
1620.	0.1516E-00	24141.3	86.13	0.00001
1630.	0.1507E-00	24304.4	86.23	0.00001
1640.	0.1498E-00	24467.8	86.33	0.00001
1650.	0.1489E-00	24631.3	86.43	0.00001
1660.	0.1480E-00	24795.2	86.53	0.00002
1670.	0.1471E-00	24959.2	86.62	0.00002
1680.	0.1462E-00	25123.5	86.72	0.00002
1690.	0.1454E-00	25288.0	86.82	0.00002
1700.	0.1445E-00	25452.8	86.92	0.00002
1710.	0.1437E-00	25617.8	87.01	0.00003
1720.	0.1428E-00	25783.1	87.11	0.00003
1730.	0.1420E-00	25948.6	87.21	0.00003
1740.	0.1412E-00	26114.3	87.30	0.00003
1750.	0.1404E-00	26280.3	87.40	0.00004
1760.	0.1396E-00	26446.6	87.49	0.00004
1770.	0.1388E-00	26613.1	87.59	0.00004
1780.	0.1380E-00	26779.9	87.68	0.00005
1790.	0.1372E-00	26946.9	87.78	0.00005
1800.	0.1365E-00	27114.2	87.87	0.00006
1810.	0.1357E-00	27281.8	87.96	0.00006
1820.	0.1350E-00	27449.7	88.06	0.00007
1830.	0.1342E-00	27617.8	88.15	0.00007
1840.	0.1335E-00	27786.2	88.24	0.00008
1850.	0.1328E-00	27954.9	88.33	0.00009
1860.	0.1321E-00	28123.9	88.42	0.00009
1870.	0.1314E-00	28293.2	88.52	0.00010
1880.	0.1307E-00	28462.8	88.61	0.00011
1890.	0.1300E-00	28632.7	88.70	0.00012
1900.	0.1293E-00	28803.0	88.79	0.00013
1910.	0.1286E-00	28973.5	88.88	0.00014
1920.	0.1279E-00	29144.4	88.97	0.00015
1930.	0.1273E-00	29315.6	89.06	0.00016
1940.	0.1266E-00	29487.2	89.15	0.00017
1950.	0.1260E-00	29659.1	89.24	0.00018
1960.	0.1253E-00	29831.4	89.32	0.00019
1970.	0.1247E-00	30004.1	89.41	0.00021
1980.	0.1240E-00	30177.1	89.50	0.00022
1990.	0.1234E-00	30350.6	89.59	0.00024
2000.	0.1228E-00	30524.4	89.68	0.00026
2010.	0.1222E-00	30698.6	89.77	0.00027
2020.	0.1216E-00	30873.3	89.85	0.00029
2030.	0.1210E-00	31048.4	89.94	0.00031
2040.	0.1204E-00	31223.9	90.03	0.00034
2050.	0.1198E-00	31399.9	90.12	0.00036
2060.	0.1192E-00	31576.3	90.20	0.00038
2070.	0.1186E-00	31753.3	90.29	0.00041
2080.	0.1181E-00	31930.7	90.38	0.00043
2090.	0.1175E-00	32108.6	90.46	0.00046

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.1169E-00	32287.0	90.55	0.00049
2110.	0.1164E-00	32466.0	90.64	0.00052
2120.	0.1158E-00	32645.5	90.72	0.00056
2130.	0.1153E-00	32825.6	90.81	0.00059
2140.	0.1147E-00	33006.3	90.90	0.00063
2150.	0.1142E-00	33187.5	90.98	0.00067
2160.	0.1137E-00	33369.4	91.07	0.00071
2170.	0.1131E-00	33551.9	91.15	0.00075
2180.	0.1126E-00	33735.1	91.24	0.00079
2190.	0.1121E-00	33918.9	91.33	0.00084
2200.	0.1116E-00	34103.4	91.41	0.00089
2210.	0.1111E-00	34288.6	91.50	0.00094
2220.	0.1106E-00	34474.5	91.59	0.00100
2230.	0.1101E-00	34661.2	91.67	0.00105
2240.	0.1096E-00	34848.7	91.76	0.00111
2250.	0.1091E-00	35036.9	91.84	0.00117
2260.	0.1086E-00	35226.0	91.93	0.00124
2270.	0.1081E-00	35415.8	92.02	0.00131
2280.	0.1076E-00	35606.6	92.10	0.00138
2290.	0.1071E-00	35798.2	92.19	0.00145
2300.	0.1067E-00	35990.7	92.28	0.00153
2310.	0.1062E-00	36184.2	92.37	0.00161
2320.	0.1057E-00	36378.6	92.45	0.00169
2330.	0.1053E-00	36574.1	92.54	0.00178
2340.	0.1048E-00	36770.5	92.63	0.00187
2350.	0.1043E-00	36967.9	92.72	0.00197
2360.	0.1039E-00	37166.5	92.80	0.00207
2370.	0.1034E-00	37366.1	92.89	0.00217
2380.	0.1030E-00	37566.9	92.98	0.00228
2390.	0.1025E-00	37768.8	93.07	0.00240
2400.	0.1021E-00	37971.9	93.16	0.00251
2410.	0.1017E-00	38176.2	93.25	0.00263
2420.	0.1012E-00	38381.8	93.34	0.00276
2430.	0.1008E-00	38588.7	93.43	0.00289
2440.	0.1004E-00	38796.9	93.52	0.00303
2450.	0.9996E-01	39006.5	93.61	0.00317
2460.	0.9954E-01	39217.4	93.70	0.00332
2470.	0.9912E-01	39429.8	93.79	0.00347
2480.	0.9870E-01	39643.6	93.88	0.00363
2490.	0.9829E-01	39858.9	93.97	0.00380
2500.	0.9788E-01	40075.8	94.06	0.00397
2510.	0.9747E-01	40294.2	94.16	0.00415
2520.	0.9707E-01	40514.3	94.25	0.00433
2530.	0.9667E-01	40736.0	94.34	0.00452
2540.	0.9627E-01	40959.4	94.44	0.00472
2550.	0.9587E-01	41184.6	94.53	0.00493
2560.	0.9548E-01	41411.5	94.63	0.00514
2570.	0.9508E-01	41640.2	94.72	0.00536
2580.	0.9469E-01	41870.8	94.82	0.00558
2590.	0.9431E-01	42103.4	94.92	0.00582

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.9392E-01	42337.8	95.01	0.00606
2610.	0.9354E-01	42574.3	95.11	0.00631
2620.	0.9316E-01	42812.8	95.21	0.00657
2630.	0.9278E-01	43053.4	95.31	0.00684
2640.	0.9240E-01	43296.1	95.41	0.00712
2650.	0.9203E-01	43541.0	95.51	0.00740
2660.	0.9165E-01	43788.2	95.61	0.00770
2670.	0.9128E-01	44037.6	95.71	0.00800
2680.	0.9091E-01	44289.4	95.81	0.00831
2690.	0.9055E-01	44543.5	95.91	0.00864
2700.	0.9018E-01	44800.1	96.02	0.00897
2710.	0.8982E-01	45059.2	96.12	0.00932
2720.	0.8946E-01	45320.8	96.23	0.00967
2730.	0.8910E-01	45585.0	96.33	0.01004
2740.	0.8874E-01	45851.8	96.44	0.01041
2750.	0.8838E-01	46121.4	96.54	0.01080
2760.	0.8803E-01	46393.7	96.65	0.01120
2770.	0.8767E-01	46668.8	96.76	0.01161
2780.	0.8732E-01	46946.8	96.87	0.01204
2790.	0.8697E-01	47227.7	96.98	0.01247
2800.	0.8662E-01	47511.6	97.09	0.01292
2810.	0.8627E-01	47798.5	97.20	0.01338
2820.	0.8593E-01	48088.5	97.32	0.01385
2830.	0.8558E-01	48381.7	97.43	0.01434
2840.	0.8524E-01	48678.1	97.54	0.01484
2850.	0.8490E-01	48977.8	97.66	0.01536
2860.	0.8456E-01	49280.8	97.78	0.01588
2870.	0.8422E-01	49587.2	97.89	0.01643
2880.	0.8388E-01	49897.1	98.01	0.01698
2890.	0.8354E-01	50210.5	98.13	0.01756
2900.	0.8321E-01	50527.5	98.25	0.01814
2910.	0.8287E-01	50848.1	98.37	0.01875
2920.	0.8254E-01	51172.5	98.49	0.01937
2930.	0.8220E-01	51500.7	98.62	0.02000
2940.	0.8187E-01	51832.7	98.74	0.02065
2950.	0.8154E-01	52168.6	98.87	0.02132
2960.	0.8121E-01	52508.5	98.99	0.02201
2970.	0.8088E-01	52852.4	99.12	0.02271
2980.	0.8055E-01	53200.5	99.25	0.02343
2990.	0.8023E-01	53552.7	99.38	0.02416
3000.	0.7990E-01	53909.2	99.51	0.02492

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.2465E 01	1400.2	45.16	0.
110.	0.2234E 01	1524.2	46.35	0.
120.	0.2044E 01	1652.4	47.46	0.
130.	0.1885E 01	1784.5	48.52	0.
140.	0.1748E 01	1919.8	49.52	0.
150.	0.1631E 01	2057.7	50.47	0.
160.	0.1528E 01	2197.8	51.38	0.
170.	0.1438E 01	2339.4	52.23	0.
180.	0.1357E 01	2482.1	53.05	0.
190.	0.1286E 01	2625.7	53.83	0.
200.	0.1221E 01	2769.8	54.57	0.
210.	0.1163E 01	2914.3	55.27	0.
220.	0.1110E 01	3059.1	55.94	0.
230.	0.1062E 01	3204.0	56.59	0.
240.	0.1018E 01	3349.0	57.21	0.
250.	0.9771E 00	3494.1	57.80	0.
260.	0.9396E 00	3639.2	58.37	0.
270.	0.9049E 00	3784.3	58.91	0.
280.	0.8726E 00	3929.4	59.44	0.
290.	0.8426E 00	4074.6	59.95	0.
300.	0.8145E 00	4219.8	60.44	0.
310.	0.7883E 00	4364.9	60.92	0.
320.	0.7638E 00	4510.1	61.38	0.
330.	0.7407E 00	4655.2	61.83	0.
340.	0.7189E 00	4800.3	62.26	0.
350.	0.6984E 00	4945.5	62.68	0.
360.	0.6791E 00	5090.6	63.09	0.
370.	0.6608E 00	5235.8	63.49	0.
380.	0.6435E 00	5380.9	63.87	0.
390.	0.6270E 00	5526.0	64.25	0.
400.	0.6114E 00	5671.2	64.62	0.
410.	0.5965E 00	5816.3	64.98	0.
420.	0.5823E 00	5961.5	65.33	0.
430.	0.5688E 00	6106.6	65.67	0.
440.	0.5559E 00	6251.8	66.00	0.
450.	0.5436E 00	6397.0	66.33	0.
460.	0.5318E 00	6542.2	66.65	0.
470.	0.5206E 00	6687.4	66.96	0.
480.	0.5097E 00	6832.6	67.27	0.
490.	0.4994E-00	6977.9	67.57	0.
500.	0.4894E-00	7123.2	67.86	0.
510.	0.4798E-00	7268.5	68.15	0.
520.	0.4706E-00	7413.8	68.43	0.
530.	0.4618E-00	7559.2	68.71	0.
540.	0.4532E-00	7704.6	68.98	0.
550.	0.4450E-00	7850.0	69.24	0.
560.	0.4371E-00	7995.4	69.51	0.
570.	0.4295E-00	8140.9	69.76	0.
580.	0.4221E-00	8286.4	70.02	0.
590.	0.4149E-00	8431.9	70.27	0.

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.4080E-00	8576.9	69.97	0.
610.	0.4014E-00	8722.4	70.21	0.
620.	0.3949E-00	8868.0	70.45	0.
630.	0.3887E-00	9013.5	70.68	0.
640.	0.3826E-00	9159.1	70.91	0.
650.	0.3767E-00	9304.8	71.14	0.
660.	0.3710E-00	9450.5	71.36	0.
670.	0.3655E-00	9596.3	71.58	0.
680.	0.3602E-00	9742.2	71.79	0.
690.	0.3549E-00	9888.1	72.01	0.
700.	0.3499E-00	10034.2	72.22	0.
710.	0.3450E-00	10180.3	72.42	0.
720.	0.3402E-00	10326.5	72.63	0.
730.	0.3355E-00	10472.8	72.83	0.
740.	0.3310E-00	10619.2	73.03	0.
750.	0.3266E-00	10765.7	73.23	0.
760.	0.3223E-00	10912.3	73.42	0.
770.	0.3182E-00	11059.0	73.61	0.
780.	0.3141E-00	11205.9	73.80	0.
790.	0.3101E-00	11352.8	73.99	0.
800.	0.3063E-00	11499.9	74.17	0.
810.	0.3025E-00	11647.1	74.36	0.
820.	0.2988E-00	11794.4	74.54	0.
830.	0.2952E-00	11941.8	74.72	0.
840.	0.2917E-00	12089.3	74.89	0.
850.	0.2883E-00	12237.0	75.07	0.
860.	0.2849E-00	12384.8	75.24	0.
870.	0.2817E-00	12532.7	75.41	0.
880.	0.2785E-00	12680.7	75.58	0.
890.	0.2753E-00	12828.9	75.75	0.
900.	0.2723E-00	12977.2	75.91	0.
910.	0.2693E-00	13125.7	76.08	0.
920.	0.2664E-00	13274.3	76.24	0.
930.	0.2635E-00	13423.0	76.40	0.
940.	0.2607E-00	13571.9	76.56	0.
950.	0.2580E-00	13720.9	76.72	0.
960.	0.2553E-00	13870.1	76.87	0.
970.	0.2527E-00	14019.4	77.03	0.
980.	0.2501E-00	14168.8	77.18	0.
990.	0.2476E-00	14318.5	77.33	0.
1000.	0.2451E-00	14468.2	77.49	0.
1010.	0.2427E-00	14618.2	77.63	0.
1020.	0.2403E-00	14768.2	77.78	0.
1030.	0.2380E-00	14918.5	77.93	0.
1040.	0.2357E-00	15068.9	78.07	0.
1050.	0.2335E-00	15219.5	78.22	0.
1060.	0.2313E-00	15370.2	78.36	0.
1070.	0.2291E-00	15521.1	78.50	0.
1080.	0.2270E-00	15672.2	78.64	0.
1090.	0.2249E-00	15823.4	78.78	0.

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.2229E-00	15974.9	78.92	0.
1110.	0.2209E-00	16126.5	79.06	0.
1120.	0.2189E-00	16278.3	79.19	0.
1130.	0.2170E-00	16430.2	79.33	0.
1140.	0.2151E-00	16582.4	79.46	0.
1150.	0.2132E-00	16734.7	79.60	0.
1160.	0.2114E-00	16887.2	79.73	0.
1170.	0.2096E-00	17039.9	79.86	0.
1180.	0.2078E-00	17192.8	79.99	0.
1190.	0.2060E-00	17345.9	80.12	0.
1200.	0.2043E-00	17499.2	80.25	0.
1210.	0.2026E-00	17652.7	80.37	0.
1220.	0.2010E-00	17806.4	80.50	0.
1230.	0.1994E-00	17960.3	80.63	0.
1240.	0.1978E-00	18114.4	80.75	0.
1250.	0.1962E-00	18268.7	80.88	0.
1260.	0.1946E-00	18423.2	81.00	0.
1270.	0.1931E-00	18577.9	81.12	0.
1280.	0.1916E-00	18732.8	81.24	0.
1290.	0.1901E-00	18888.0	81.36	0.
1300.	0.1886E-00	19043.3	81.48	0.
1310.	0.1872E-00	19198.9	81.60	0.
1320.	0.1858E-00	19354.7	81.72	0.
1330.	0.1844E-00	19510.7	81.84	0.
1340.	0.1830E-00	19666.9	81.96	0.
1350.	0.1817E-00	19823.4	82.07	0.
1360.	0.1803E-00	19980.1	82.19	0.
1370.	0.1790E-00	20137.0	82.30	0.
1380.	0.1777E-00	20294.2	82.42	0.
1390.	0.1764E-00	20451.6	82.53	0.
1400.	0.1752E-00	20609.2	82.64	0.
1410.	0.1739E-00	20767.1	82.76	0.
1420.	0.1727E-00	20925.2	82.87	0.
1430.	0.1715E-00	21083.5	82.98	0.
1440.	0.1703E-00	21242.1	83.09	0.
1450.	0.1692E-00	21400.9	83.20	0.
1460.	0.1680E-00	21560.0	83.31	0.
1470.	0.1669E-00	21719.4	83.42	0.
1480.	0.1657E-00	21878.9	83.53	0.
1490.	0.1646E-00	22038.8	83.63	0.
1500.	0.1638E-00	22201.5	83.75	0.00000
1510.	0.1627E-00	22361.9	83.86	0.00000
1520.	0.1616E-00	22522.5	83.96	0.00000
1530.	0.1606E-00	22683.4	84.07	0.00000
1540.	0.1595E-00	22844.5	84.17	0.00000
1550.	0.1585E-00	23005.8	84.28	0.00000
1560.	0.1575E-00	23167.3	84.38	0.00001
1570.	0.1565E-00	23329.1	84.48	0.00001
1580.	0.1555E-00	23491.0	84.59	0.00001
1590.	0.1545E-00	23653.3	84.69	0.00001

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.1535E-00	23815.7	84.79	0.00001
1610.	0.1526E-00	23978.4	84.89	0.00001
1620.	0.1516E-00	24141.3	84.99	0.00001
1630.	0.1507E-00	24304.4	85.09	0.00001
1640.	0.1498E-00	24467.8	85.19	0.00001
1650.	0.1489E-00	24631.3	85.29	0.00001
1660.	0.1480E-00	24795.2	85.39	0.00002
1670.	0.1471E-00	24959.2	85.49	0.00002
1680.	0.1462E-00	25123.5	85.59	0.00002
1690.	0.1454E-00	25288.0	85.69	0.00002
1700.	0.1445E-00	25452.8	85.79	0.00002
1710.	0.1437E-00	25617.8	85.88	0.00003
1720.	0.1428E-00	25783.1	85.98	0.00003
1730.	0.1420E-00	25948.6	86.07	0.00003
1740.	0.1412E-00	26114.3	86.17	0.00003
1750.	0.1404E-00	26280.3	86.27	0.00004
1760.	0.1396E-00	26446.6	86.36	0.00004
1770.	0.1388E-00	26613.1	86.46	0.00004
1780.	0.1380E-00	26779.9	86.55	0.00005
1790.	0.1372E-00	26946.9	86.64	0.00005
1800.	0.1365E-00	27114.2	86.74	0.00006
1810.	0.1357E-00	27281.8	86.83	0.00006
1820.	0.1350E-00	27449.7	86.92	0.00007
1830.	0.1342E-00	27617.8	87.02	0.00007
1840.	0.1335E-00	27786.2	87.11	0.00008
1850.	0.1328E-00	27954.9	87.20	0.00009
1860.	0.1321E-00	28123.9	87.29	0.00009
1870.	0.1314E-00	28293.2	87.38	0.00010
1880.	0.1307E-00	28462.8	87.47	0.00011
1890.	0.1300E-00	28632.7	87.56	0.00012
1900.	0.1293E-00	28803.0	87.65	0.00013
1910.	0.1286E-00	28973.5	87.74	0.00014
1920.	0.1279E-00	29144.4	87.83	0.00015
1930.	0.1273E-00	29315.6	87.92	0.00016
1940.	0.1266E-00	29487.2	88.01	0.00017
1950.	0.1260E-00	29659.1	88.10	0.00018
1960.	0.1253E-00	29831.4	88.19	0.00019
1970.	0.1247E-00	30004.1	88.28	0.00021
1980.	0.1240E-00	30177.1	88.37	0.00022
1990.	0.1234E-00	30350.6	88.46	0.00024
2000.	0.1228E-00	30524.4	88.54	0.00026
2010.	0.1222E-00	30698.6	88.63	0.00027
2020.	0.1216E-00	30873.3	88.72	0.00029
2030.	0.1210E-00	31048.4	88.81	0.00031
2040.	0.1204E-00	31223.9	88.90	0.00034
2050.	0.1198E-00	31399.9	88.98	0.00036
2060.	0.1192E-00	31576.3	89.07	0.00038
2070.	0.1186E-00	31753.3	89.16	0.00041
2080.	0.1181E-00	31930.7	89.24	0.00043
2090.	0.1175E-00	32108.6	89.33	0.00046

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.1169E-00	32287.0	89.42	0.00049
2110.	0.1164E-00	32466.0	89.50	0.00052
2120.	0.1158E-00	32645.5	89.59	0.00056
2130.	0.1153E-00	32825.6	89.68	0.00059
2140.	0.1147E-00	33006.3	89.76	0.00063
2150.	0.1142E-00	33187.5	89.85	0.00067
2160.	0.1137E-00	33369.4	89.94	0.00071
2170.	0.1131E-00	33551.9	90.02	0.00075
2180.	0.1126E-00	33735.1	90.11	0.00079
2190.	0.1121E-00	33918.9	90.19	0.00084
2200.	0.1116E-00	34103.4	90.28	0.00089
2210.	0.1111E-00	34288.6	90.37	0.00094
2220.	0.1106E-00	34474.5	90.45	0.00100
2230.	0.1101E-00	34661.2	90.54	0.00105
2240.	0.1096E-00	34848.7	90.63	0.00111
2250.	0.1091E-00	35036.9	90.71	0.00117
2260.	0.1086E-00	35226.0	90.80	0.00124
2270.	0.1081E-00	35415.8	90.88	0.00131
2280.	0.1076E-00	35606.6	90.97	0.00138
2290.	0.1071E-00	35798.2	91.06	0.00145
2300.	0.1067E-00	35990.7	91.15	0.00153
2310.	0.1062E-00	36184.2	91.23	0.00161
2320.	0.1057E-00	36378.6	91.32	0.00169
2330.	0.1053E-00	36574.1	91.41	0.00178
2340.	0.1048E-00	36770.5	91.49	0.00187
2350.	0.1043E-00	36967.9	91.58	0.00197
2360.	0.1039E-00	37166.5	91.67	0.00207
2370.	0.1034E-00	37366.1	91.76	0.00217
2380.	0.1030E-00	37566.9	91.85	0.00228
2390.	0.1025E-00	37768.8	91.94	0.00240
2400.	0.1021E-00	37971.9	92.02	0.00251
2410.	0.1017E-00	38176.2	92.11	0.00263
2420.	0.1012E-00	38381.8	92.20	0.00276
2430.	0.1008E-00	38588.7	92.29	0.00289
2440.	0.1004E-00	38796.9	92.38	0.00303
2450.	0.9996E-01	39006.5	92.47	0.00317
2460.	0.9954E-01	39217.4	92.56	0.00332
2470.	0.9912E-01	39429.8	92.66	0.00347
2480.	0.9870E-01	39643.6	92.75	0.00363
2490.	0.9829E-01	39858.9	92.84	0.00380
2500.	0.9788E-01	40075.8	92.93	0.00397
2510.	0.9747E-01	40294.2	93.02	0.00415
2520.	0.9707E-01	40514.3	93.12	0.00433
2530.	0.9667E-01	40736.0	93.21	0.00452
2540.	0.9627E-01	40959.4	93.31	0.00472
2550.	0.9587E-01	41184.6	93.40	0.00493
2560.	0.9548E-01	41411.5	93.49	0.00514
2570.	0.9508E-01	41640.2	93.59	0.00536
2580.	0.9469E-01	41870.8	93.69	0.00558
2590.	0.9431E-01	42103.4	93.78	0.00582

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.9392E-01	42337.8	93.88	0.00606
2610.	0.9354E-01	42574.3	93.98	0.00631
2620.	0.9316E-01	42812.8	94.08	0.00657
2630.	0.9278E-01	43053.4	94.17	0.00684
2640.	0.9240E-01	43296.1	94.27	0.00712
2650.	0.9203E-01	43541.0	94.37	0.00740
2660.	0.9165E-01	43788.2	94.47	0.00770
2670.	0.9128E-01	44037.6	94.58	0.00800
2680.	0.9091E-01	44289.4	94.68	0.00831
2690.	0.9055E-01	44543.5	94.78	0.00864
2700.	0.9018E-01	44800.1	94.88	0.00897
2710.	0.8982E-01	45059.2	94.99	0.00932
2720.	0.8946E-01	45320.8	95.09	0.00967
2730.	0.8910E-01	45585.0	95.20	0.01004
2740.	0.8874E-01	45851.8	95.30	0.01041
2750.	0.8838E-01	46121.4	95.41	0.01080
2760.	0.8803E-01	46393.7	95.52	0.01120
2770.	0.8767E-01	46668.8	95.63	0.01161
2780.	0.8732E-01	46946.8	95.74	0.01204
2790.	0.8697E-01	47227.7	95.85	0.01247
2800.	0.8662E-01	47511.6	95.96	0.01292
2810.	0.8627E-01	47798.5	96.07	0.01338
2820.	0.8593E-01	48088.5	96.18	0.01385
2830.	0.8558E-01	48381.7	96.30	0.01434
2840.	0.8524E-01	48678.1	96.41	0.01484
2850.	0.8490E-01	48977.8	96.53	0.01536
2860.	0.8456E-01	49280.8	96.64	0.01588
2870.	0.8422E-01	49587.2	96.76	0.01643
2880.	0.8388E-01	49897.1	96.88	0.01698
2890.	0.8354E-01	50210.5	97.00	0.01756
2900.	0.8321E-01	50527.5	97.12	0.01814
2910.	0.8287E-01	50848.1	97.24	0.01875
2920.	0.8254E-01	51172.5	97.36	0.01937
2930.	0.8220E-01	51500.7	97.49	0.02000
2940.	0.8187E-01	51832.7	97.61	0.02065
2950.	0.8154E-01	52168.6	97.73	0.02132
2960.	0.8121E-01	52508.5	97.86	0.02201
2970.	0.8088E-01	52852.4	97.99	0.02271
2980.	0.8055E-01	53200.5	98.12	0.02343
2990.	0.8023E-01	53552.7	98.25	0.02416
3000.	0.7990E-01	53909.2	98.38	0.02492

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.2465E 01	1239.7	42.54	0.
110.	0.2234E 01	1372.0	43.80	0.
120.	0.2044E 01	1510.1	45.00	0.
130.	0.1885E 01	1653.2	46.15	0.
140.	0.1748E 01	1800.3	47.24	0.
150.	0.1631E 01	1950.3	48.27	0.
160.	0.1528E 01	2102.2	49.25	0.
170.	0.1438E 01	2255.3	50.18	0.
180.	0.1357E 01	2408.7	51.06	0.
190.	0.1286E 01	2562.2	51.89	0.
200.	0.1221E 01	2715.3	52.67	0.
210.	0.1163E 01	2867.8	53.42	0.
220.	0.1110E 01	3019.6	54.12	0.
230.	0.1062E 01	3170.7	54.80	0.
240.	0.1018E 01	3321.0	55.44	0.
250.	0.9771E 00	3470.7	56.05	0.
260.	0.9396E 00	3619.7	56.63	0.
270.	0.9049E 00	3768.1	57.19	0.
280.	0.8726E 00	3916.1	57.73	0.
290.	0.8426E 00	4063.6	58.25	0.
300.	0.8145E 00	4210.7	58.75	0.
310.	0.7883E 00	4357.5	59.23	0.
320.	0.7638E 00	4504.0	59.69	0.
330.	0.7407E 00	4650.2	60.14	0.
340.	0.7189E 00	4796.3	60.58	0.
350.	0.6984E 00	4942.2	61.00	0.
360.	0.6791E 00	5087.9	61.41	0.
370.	0.6608E 00	5233.6	61.81	0.
380.	0.6435E 00	5379.1	62.20	0.
390.	0.6270E 00	5524.6	62.58	0.
400.	0.6114E 00	5670.0	62.95	0.
410.	0.5965E 00	5815.4	63.30	0.
420.	0.5823E 00	5960.8	63.65	0.
430.	0.5688E 00	6106.1	64.00	0.
440.	0.5559E 00	6251.4	64.33	0.
450.	0.5436E 00	6396.7	64.66	0.
460.	0.5318E 00	6542.0	64.98	0.
470.	0.5206E 00	6687.4	65.29	0.
480.	0.5097E 00	6832.7	65.59	0.
490.	0.4994E-00	6978.0	65.89	0.
500.	0.4894E-00	7123.3	66.19	0.
510.	0.4798E-00	7268.7	66.48	0.
520.	0.4706E-00	7414.0	66.76	0.
530.	0.4618E-00	7559.4	67.04	0.
540.	0.4532E-00	7704.7	67.31	0.
550.	0.4450E-00	7850.1	67.57	0.
560.	0.4371E-00	7995.5	67.84	0.
570.	0.4295E-00	8141.0	68.09	0.
580.	0.4221E-00	8286.5	68.35	0.
590.	0.4149E-00	8431.9	68.59	0.

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.4080E-00	8576.9	68.84	0.
610.	0.4014E-00	8722.4	69.08	0.
620.	0.3949E-00	8868.0	69.32	0.
630.	0.3887E-00	9013.5	69.55	0.
640.	0.3826E-00	9159.1	69.78	0.
650.	0.3767E-00	9304.8	70.00	0.
660.	0.3710E-00	9450.5	70.23	0.
670.	0.3655E-00	9596.3	70.45	0.
680.	0.3602E-00	9742.2	70.66	0.
690.	0.3549E-00	9888.1	70.87	0.
700.	0.3499E-00	10034.2	71.08	0.
710.	0.3450E-00	10180.3	71.29	0.
720.	0.3402E-00	10326.5	71.50	0.
730.	0.3355E-00	10472.8	71.70	0.
740.	0.3310E-00	10619.2	71.90	0.
750.	0.3266E-00	10765.7	72.09	0.
760.	0.3223E-00	10912.3	72.29	0.
770.	0.3182E-00	11059.0	72.48	0.
780.	0.3141E-00	11205.9	72.67	0.
790.	0.3101E-00	11352.8	72.86	0.
800.	0.3063E-00	11499.9	73.04	0.
810.	0.3025E-00	11647.1	73.22	0.
820.	0.2988E-00	11794.4	73.41	0.
830.	0.2952E-00	11941.8	73.58	0.
840.	0.2917E-00	12089.3	73.76	0.
850.	0.2883E-00	12237.0	73.94	0.
860.	0.2849E-00	12384.8	74.11	0.
870.	0.2817E-00	12532.7	74.28	0.
880.	0.2785E-00	12680.7	74.45	0.
890.	0.2753E-00	12828.9	74.62	0.
900.	0.2723E-00	12977.2	74.78	0.
910.	0.2693E-00	13125.7	74.95	0.
920.	0.2664E-00	13274.3	75.11	0.
930.	0.2635E-00	13423.0	75.27	0.
940.	0.2607E-00	13571.9	75.43	0.
950.	0.2580E-00	13720.9	75.59	0.
960.	0.2553E-00	13870.1	75.74	0.
970.	0.2527E-00	14019.4	75.90	0.
980.	0.2501E-00	14168.8	76.05	0.
990.	0.2476E-00	14318.5	76.20	0.
1000.	0.2451E-00	14468.2	76.35	0.
1010.	0.2427E-00	14618.2	76.50	0.
1020.	0.2403E-00	14768.2	76.65	0.
1030.	0.2380E-00	14918.5	76.80	0.
1040.	0.2357E-00	15068.9	76.94	0.
1050.	0.2335E-00	15219.5	77.09	0.
1060.	0.2313E-00	15370.2	77.23	0.
1070.	0.2291E-00	15521.1	77.37	0.
1080.	0.2270E-00	15672.2	77.51	0.
1090.	0.2249E-00	15823.4	77.65	0.

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.2229E-00	15974.9	77.79	0.
1110.	0.2209E-00	16126.5	77.93	0.
1120.	0.2189E-00	16278.3	78.06	0.
1130.	0.2170E-00	16430.2	78.20	0.
1140.	0.2151E-00	16582.4	78.33	0.
1150.	0.2132E-00	16734.7	78.46	0.
1160.	0.2114E-00	16887.2	78.60	0.
1170.	0.2096E-00	17039.9	78.73	0.
1180.	0.2078E-00	17192.8	78.86	0.
1190.	0.2060E-00	17345.9	78.99	0.
1200.	0.2043E-00	17499.2	79.11	0.
1210.	0.2026E-00	17652.7	79.24	0.
1220.	0.2010E-00	17806.4	79.37	0.
1230.	0.1994E-00	17960.3	79.49	0.
1240.	0.1978E-00	18114.4	79.62	0.
1250.	0.1962E-00	18268.7	79.74	0.
1260.	0.1946E-00	18423.2	79.87	0.
1270.	0.1931E-00	18577.9	79.99	0.
1280.	0.1916E-00	18732.8	80.11	0.
1290.	0.1901E-00	18888.0	80.23	0.
1300.	0.1886E-00	19043.3	80.35	0.
1310.	0.1872E-00	19198.9	80.47	0.
1320.	0.1858E-00	19354.7	80.59	0.
1330.	0.1844E-00	19510.7	80.71	0.
1340.	0.1830E-00	19666.9	80.82	0.
1350.	0.1817E-00	19823.4	80.94	0.
1360.	0.1803E-00	19980.1	81.05	0.
1370.	0.1790E-00	20137.0	81.17	0.
1380.	0.1777E-00	20294.2	81.28	0.
1390.	0.1764E-00	20451.6	81.40	0.
1400.	0.1752E-00	20609.2	81.51	0.
1410.	0.1739E-00	20767.1	81.62	0.
1420.	0.1727E-00	20925.2	81.73	0.
1430.	0.1715E-00	21083.5	81.85	0.
1440.	0.1703E-00	21242.1	81.96	0.
1450.	0.1692E-00	21400.9	82.07	0.
1460.	0.1680E-00	21560.0	82.18	0.
1470.	0.1669E-00	21719.4	82.28	0.
1480.	0.1657E-00	21878.9	82.39	0.
1490.	0.1646E-00	22038.8	82.50	0.
1500.	0.1638E-00	22201.5	82.62	0.00000
1510.	0.1627E-00	22361.9	82.72	0.00000
1520.	0.1616E-00	22522.5	82.83	0.00000
1530.	0.1606E-00	22683.4	82.94	0.00000
1540.	0.1595E-00	22844.5	83.04	0.00000
1550.	0.1585E-00	23005.8	83.14	0.00000
1560.	0.1575E-00	23167.3	83.25	0.00001
1570.	0.1565E-00	23329.1	83.35	0.00001
1580.	0.1555E-00	23491.0	83.45	0.00001
1590.	0.1545E-00	23653.3	83.56	0.00001

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.1535E-00	23815.7	83.66	0.00001
1610.	0.1526E-00	23978.4	83.76	0.00001
1620.	0.1516E-00	24141.3	83.86	0.00001
1630.	0.1507E-00	24304.4	83.96	0.00001
1640.	0.1498E-00	24467.8	84.06	0.00001
1650.	0.1489E-00	24631.3	84.16	0.00001
1660.	0.1480E-00	24795.2	84.26	0.00002
1670.	0.1471E-00	24959.2	84.36	0.00002
1680.	0.1462E-00	25123.5	84.46	0.00002
1690.	0.1454E-00	25288.0	84.56	0.00002
1700.	0.1445E-00	25452.8	84.65	0.00002
1710.	0.1437E-00	25617.8	84.75	0.00003
1720.	0.1428E-00	25783.1	84.85	0.00003
1730.	0.1420E-00	25948.6	84.94	0.00003
1740.	0.1412E-00	26114.3	85.04	0.00003
1750.	0.1404E-00	26280.3	85.13	0.00004
1760.	0.1396E-00	26446.6	85.23	0.00004
1770.	0.1388E-00	26613.1	85.32	0.00004
1780.	0.1380E-00	26779.9	85.42	0.00005
1790.	0.1372E-00	26946.9	85.51	0.00005
1800.	0.1365E-00	27114.2	85.60	0.00006
1810.	0.1357E-00	27281.8	85.70	0.00006
1820.	0.1350E-00	27449.7	85.79	0.00007
1830.	0.1342E-00	27617.8	85.88	0.00007
1840.	0.1335E-00	27786.2	85.98	0.00008
1850.	0.1328E-00	27954.9	86.07	0.00009
1860.	0.1321E-00	28123.9	86.16	0.00009
1870.	0.1314E-00	28293.2	86.25	0.00010
1880.	0.1307E-00	28462.8	86.34	0.00011
1890.	0.1300E-00	28632.7	86.43	0.00012
1900.	0.1293E-00	28803.0	86.52	0.00013
1910.	0.1286E-00	28973.5	86.61	0.00014
1920.	0.1279E-00	29144.4	86.70	0.00015
1930.	0.1273E-00	29315.6	86.79	0.00016
1940.	0.1266E-00	29487.2	86.88	0.00017
1950.	0.1260E-00	29659.1	86.97	0.00018
1960.	0.1253E-00	29831.4	87.06	0.00019
1970.	0.1247E-00	30004.1	87.15	0.00021
1980.	0.1240E-00	30177.1	87.24	0.00022
1990.	0.1234E-00	30350.6	87.32	0.00024
2000.	0.1228E-00	30524.4	87.41	0.00026
2010.	0.1222E-00	30698.6	87.50	0.00027
2020.	0.1216E-00	30873.3	87.59	0.00029
2030.	0.1210E-00	31048.4	87.68	0.00031
2040.	0.1204E-00	31223.9	87.76	0.00034
2050.	0.1198E-00	31399.9	87.85	0.00036
2060.	0.1192E-00	31576.3	87.94	0.00038
2070.	0.1186E-00	31753.3	88.02	0.00041
2080.	0.1181E-00	31930.7	88.11	0.00043
2090.	0.1175E-00	32108.6	88.20	0.00046

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.1169E-00	32287.0	88.28	0.00049
2110.	0.1164E-00	32466.0	88.37	0.00052
2120.	0.1158E-00	32645.5	88.46	0.00056
2130.	0.1153E-00	32825.6	88.54	0.00059
2140.	0.1147E-00	33006.3	88.63	0.00063
2150.	0.1142E-00	33187.5	88.72	0.00067
2160.	0.1137E-00	33369.4	88.80	0.00071
2170.	0.1131E-00	33551.9	88.89	0.00075
2180.	0.1126E-00	33735.1	88.97	0.00079
2190.	0.1121E-00	33918.9	89.06	0.00084
2200.	0.1116E-00	34103.4	89.15	0.00089
2210.	0.1111E-00	34288.6	89.23	0.00094
2220.	0.1106E-00	34474.5	89.32	0.00100
2230.	0.1101E-00	34661.2	89.41	0.00105
2240.	0.1096E-00	34848.7	89.49	0.00111
2250.	0.1091E-00	35036.9	89.58	0.00117
2260.	0.1086E-00	35226.0	89.67	0.00124
2270.	0.1081E-00	35415.8	89.75	0.00131
2280.	0.1076E-00	35606.6	89.84	0.00138
2290.	0.1071E-00	35798.2	89.93	0.00145
2300.	0.1067E-00	35990.7	90.01	0.00153
2310.	0.1062E-00	36184.2	90.10	0.00161
2320.	0.1057E-00	36378.6	90.19	0.00169
2330.	0.1053E-00	36574.1	90.27	0.00178
2340.	0.1048E-00	36770.5	90.36	0.00187
2350.	0.1043E-00	36967.9	90.45	0.00197
2360.	0.1039E-00	37166.5	90.54	0.00207
2370.	0.1034E-00	37366.1	90.63	0.00217
2380.	0.1030E-00	37566.9	90.71	0.00228
2390.	0.1025E-00	37768.8	90.80	0.00240
2400.	0.1021E-00	37971.9	90.89	0.00251
2410.	0.1017E-00	38176.2	90.98	0.00263
2420.	0.1012E-00	38381.8	91.07	0.00276
2430.	0.1008E-00	38588.7	91.16	0.00289
2440.	0.1004E-00	38796.9	91.25	0.00303
2450.	0.9996E-01	39006.5	91.34	0.00317
2460.	0.9954E-01	39217.4	91.43	0.00332
2470.	0.9912E-01	39429.8	91.52	0.00347
2480.	0.9870E-01	39643.6	91.61	0.00363
2490.	0.9829E-01	39858.9	91.71	0.00380
2500.	0.9788E-01	40075.8	91.80	0.00397
2510.	0.9747E-01	40294.2	91.89	0.00415
2520.	0.9707E-01	40514.3	91.98	0.00433
2530.	0.9667E-01	40736.0	92.08	0.00452
2540.	0.9627E-01	40959.4	92.17	0.00472
2550.	0.9587E-01	41184.6	92.27	0.00493
2560.	0.9548E-01	41411.5	92.36	0.00514
2570.	0.9508E-01	41640.2	92.46	0.00536
2580.	0.9469E-01	41870.8	92.55	0.00558
2590.	0.9431E-01	42103.4	92.65	0.00582

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.9392E-01	42337.8	92.75	0.00606
2610.	0.9354E-01	42574.3	92.85	0.00631
2620.	0.9316E-01	42812.8	92.94	0.00657
2630.	0.9278E-01	43053.4	93.04	0.00684
2640.	0.9240E-01	43296.1	93.14	0.00712
2650.	0.9203E-01	43541.0	93.24	0.00740
2660.	0.9165E-01	43788.2	93.34	0.00770
2670.	0.9128E-01	44037.6	93.44	0.00800
2680.	0.9091E-01	44289.4	93.55	0.00831
2690.	0.9055E-01	44543.5	93.65	0.00864
2700.	0.9018E-01	44800.1	93.75	0.00897
2710.	0.8982E-01	45059.2	93.86	0.00932
2720.	0.8946E-01	45320.8	93.96	0.00967
2730.	0.8910E-01	45585.0	94.07	0.01004
2740.	0.8874E-01	45851.8	94.17	0.01041
2750.	0.8838E-01	46121.4	94.28	0.01080
2760.	0.8803E-01	46393.7	94.39	0.01120
2770.	0.8767E-01	46668.8	94.50	0.01161
2780.	0.8732E-01	46946.8	94.61	0.01204
2790.	0.8697E-01	47227.7	94.72	0.01247
2800.	0.8662E-01	47511.6	94.83	0.01292
2810.	0.8627E-01	47798.5	94.94	0.01338
2820.	0.8593E-01	48088.5	95.05	0.01385
2830.	0.8558E-01	48381.7	95.16	0.01434
2840.	0.8524E-01	48678.1	95.28	0.01484
2850.	0.8490E-01	48977.8	95.39	0.01536
2860.	0.8456E-01	49280.8	95.51	0.01588
2870.	0.8422E-01	49587.2	95.63	0.01643
2880.	0.8388E-01	49897.1	95.75	0.01698
2890.	0.8354E-01	50210.5	95.87	0.01756
2900.	0.8321E-01	50527.5	95.99	0.01814
2910.	0.8287E-01	50848.1	96.11	0.01875
2920.	0.8254E-01	51172.5	96.23	0.01937
2930.	0.8220E-01	51500.7	96.35	0.02000
2940.	0.8187E-01	51832.7	96.48	0.02065
2950.	0.8154E-01	52168.6	96.60	0.02132
2960.	0.8121E-01	52508.5	96.73	0.02201
2970.	0.8088E-01	52852.4	96.86	0.02271
2980.	0.8055E-01	53200.5	96.98	0.02343
2990.	0.8023E-01	53552.7	97.11	0.02416
3000.	0.7990E-01	53909.2	97.24	0.02492

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.2465E 01	1079.1	38.14	0.
110.	0.2234E 01	1219.7	39.48	0.
120.	0.2044E 01	1367.7	40.77	0.
130.	0.1885E 01	1521.9	42.00	0.
140.	0.1748E 01	1680.8	43.18	0.
150.	0.1631E 01	1842.8	44.30	0.
160.	0.1528E 01	2006.7	45.35	0.
170.	0.1438E 01	2171.2	46.35	0.
180.	0.1357E 01	2335.4	47.29	0.
190.	0.1286E 01	2498.7	48.17	0.
200.	0.1221E 01	2660.7	49.00	0.
210.	0.1163E 01	2821.2	49.79	0.
220.	0.1110E 01	2980.1	50.53	0.
230.	0.1062E 01	3137.4	51.22	0.
240.	0.1018E 01	3293.1	51.89	0.
250.	0.9771E 00	3447.3	52.52	0.
260.	0.9396E 00	3600.2	53.12	0.
270.	0.9049E 00	3752.0	53.69	0.
280.	0.8726E 00	3902.7	54.24	0.
290.	0.8426E 00	4052.6	54.76	0.
300.	0.8145E 00	4201.6	55.27	0.
310.	0.7883E 00	4350.0	55.76	0.
320.	0.7638E 00	4497.9	56.22	0.
330.	0.7407E 00	4645.2	56.68	0.
340.	0.7189E 00	4792.2	57.12	0.
350.	0.6984E 00	4938.8	57.54	0.
360.	0.6791E 00	5085.2	57.95	0.
370.	0.6608E 00	5231.4	58.35	0.
380.	0.6435E 00	5377.3	58.74	0.
390.	0.6270E 00	5523.2	59.12	0.
400.	0.6114E 00	5668.9	59.49	0.
410.	0.5965E 00	5814.5	59.85	0.
420.	0.5823E 00	5960.1	60.20	0.
430.	0.5688E 00	6105.6	60.54	0.
440.	0.5559E 00	6251.1	60.88	0.
450.	0.5436E 00	6396.5	61.21	0.
460.	0.5318E 00	6541.9	61.53	0.
470.	0.5206E 00	6687.3	61.84	0.
480.	0.5097E 00	6832.7	62.14	0.
490.	0.4994E-00	6978.1	62.44	0.
500.	0.4894E-00	7123.5	62.74	0.
510.	0.4798E-00	7268.8	63.03	0.
520.	0.4706E-00	7414.2	63.31	0.
530.	0.4618E-00	7559.5	63.58	0.
540.	0.4532E-00	7704.9	63.86	0.
550.	0.4450E-00	7850.3	64.12	0.
560.	0.4371E-00	7995.7	64.38	0.
570.	0.4295E-00	8141.1	64.64	0.
580.	0.4221E-00	8286.5	64.90	0.
590.	0.4149E-00	8432.0	65.14	0.

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.4080E-00	8576.9	67.71	0.
610.	0.4014E-00	8722.4	67.95	0.
620.	0.3949E-00	8868.0	68.18	0.
630.	0.3887E-00	9013.5	68.42	0.
640.	0.3826E-00	9159.1	68.65	0.
650.	0.3767E-00	9304.8	68.87	0.
660.	0.3710E-00	9450.5	69.09	0.
670.	0.3655E-00	9596.3	69.31	0.
680.	0.3602E-00	9742.2	69.53	0.
690.	0.3549E-00	9888.1	69.74	0.
700.	0.3499E-00	10034.2	69.95	0.
710.	0.3450E-00	10180.3	70.16	0.
720.	0.3402E-00	10326.5	70.36	0.
730.	0.3355E-00	10472.8	70.57	0.
740.	0.3310E-00	10619.2	70.76	0.
750.	0.3266E-00	10765.7	70.96	0.
760.	0.3223E-00	10912.3	71.16	0.
770.	0.3182E-00	11059.0	71.35	0.
780.	0.3141E-00	11205.9	71.54	0.
790.	0.3101E-00	11352.8	71.72	0.
800.	0.3063E-00	11499.9	71.91	0.
810.	0.3025E-00	11647.1	72.09	0.
820.	0.2988E-00	11794.4	72.27	0.
830.	0.2952E-00	11941.8	72.45	0.
840.	0.2917E-00	12089.3	72.63	0.
850.	0.2883E-00	12237.0	72.80	0.
860.	0.2849E-00	12384.8	72.98	0.
870.	0.2817E-00	12532.7	73.15	0.
880.	0.2785E-00	12680.7	73.32	0.
890.	0.2753E-00	12828.9	73.48	0.
900.	0.2723E-00	12977.2	73.65	0.
910.	0.2693E-00	13125.7	73.81	0.
920.	0.2664E-00	13274.3	73.98	0.
930.	0.2635E-00	13423.0	74.14	0.
940.	0.2607E-00	13571.9	74.30	0.
950.	0.2580E-00	13720.9	74.45	0.
960.	0.2553E-00	13870.1	74.61	0.
970.	0.2527E-00	14019.4	74.76	0.
980.	0.2501E-00	14168.8	74.92	0.
990.	0.2476E-00	14318.5	75.07	0.
1000.	0.2451E-00	14468.2	75.22	0.
1010.	0.2427E-00	14618.2	75.37	0.
1020.	0.2403E-00	14768.2	75.52	0.
1030.	0.2380E-00	14918.5	75.66	0.
1040.	0.2357E-00	15068.9	75.81	0.
1050.	0.2335E-00	15219.5	75.95	0.
1060.	0.2313E-00	15370.2	76.10	0.
1070.	0.2291E-00	15521.1	76.24	0.
1080.	0.2270E-00	15672.2	76.38	0.
1090.	0.2249E-00	15823.4	76.52	0.

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.2229E-00	15974.9	76.66	0.
1110.	0.2209E-00	16126.5	76.79	0.
1120.	0.2189E-00	16278.3	76.93	0.
1130.	0.2170E-00	16430.2	77.06	0.
1140.	0.2151E-00	16582.4	77.20	0.
1150.	0.2132E-00	16734.7	77.33	0.
1160.	0.2114E-00	16887.2	77.46	0.
1170.	0.2096E-00	17039.9	77.59	0.
1180.	0.2078E-00	17192.8	77.72	0.
1190.	0.2060E-00	17345.9	77.85	0.
1200.	0.2043E-00	17499.2	77.98	0.
1210.	0.2026E-00	17652.7	78.11	0.
1220.	0.2010E-00	17806.4	78.24	0.
1230.	0.1994E-00	17960.3	78.36	0.
1240.	0.1978E-00	18114.4	78.49	0.
1250.	0.1962E-00	18268.7	78.61	0.
1260.	0.1946E-00	18423.2	78.73	0.
1270.	0.1931E-00	18577.9	78.86	0.
1280.	0.1916E-00	18732.8	78.98	0.
1290.	0.1901E-00	18888.0	79.10	0.
1300.	0.1886E-00	19043.3	79.22	0.
1310.	0.1872E-00	19198.9	79.34	0.
1320.	0.1858E-00	19354.7	79.46	0.
1330.	0.1844E-00	19510.7	79.57	0.
1340.	0.1830E-00	19666.9	79.69	0.
1350.	0.1817E-00	19823.4	79.81	0.
1360.	0.1803E-00	19980.1	79.92	0.
1370.	0.1790E-00	20137.0	80.04	0.
1380.	0.1777E-00	20294.2	80.15	0.
1390.	0.1764E-00	20451.6	80.27	0.
1400.	0.1752E-00	20609.2	80.38	0.
1410.	0.1739E-00	20767.1	80.49	0.
1420.	0.1727E-00	20925.2	80.60	0.
1430.	0.1715E-00	21083.5	80.71	0.
1440.	0.1703E-00	21242.1	80.82	0.
1450.	0.1692E-00	21400.9	80.93	0.
1460.	0.1680E-00	21560.0	81.04	0.
1470.	0.1669E-00	21719.4	81.15	0.
1480.	0.1657E-00	21878.9	81.26	0.
1490.	0.1646E-00	22038.8	81.37	0.
1500.	0.1638E-00	22201.5	81.48	0.00000
1510.	0.1627E-00	22361.9	81.59	0.00000
1520.	0.1616E-00	22522.5	81.70	0.00000
1530.	0.1606E-00	22683.4	81.80	0.00000
1540.	0.1595E-00	22844.5	81.91	0.00000
1550.	0.1585E-00	23005.8	82.01	0.00000
1560.	0.1575E-00	23167.3	82.12	0.00001
1570.	0.1565E-00	23329.1	82.22	0.00001
1580.	0.1555E-00	23491.0	82.32	0.00001
1590.	0.1545E-00	23653.3	82.42	0.00001

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.1535E-00	23815.7	82.53	0.00001
1610.	0.1526E-00	23978.4	82.63	0.00001
1620.	0.1516E-00	24141.3	82.73	0.00001
1630.	0.1507E-00	24304.4	82.83	0.00001
1640.	0.1498E-00	24467.8	82.93	0.00001
1650.	0.1489E-00	24631.3	83.03	0.00001
1660.	0.1480E-00	24795.2	83.13	0.00002
1670.	0.1471E-00	24959.2	83.23	0.00002
1680.	0.1462E-00	25123.5	83.32	0.00002
1690.	0.1454E-00	25288.0	83.42	0.00002
1700.	0.1445E-00	25452.8	83.52	0.00002
1710.	0.1437E-00	25617.8	83.62	0.00003
1720.	0.1428E-00	25783.1	83.71	0.00003
1730.	0.1420E-00	25948.6	83.81	0.00003
1740.	0.1412E-00	26114.3	83.91	0.00003
1750.	0.1404E-00	26280.3	84.00	0.00004
1760.	0.1396E-00	26446.6	84.10	0.00004
1770.	0.1388E-00	26613.1	84.19	0.00004
1780.	0.1380E-00	26779.9	84.28	0.00005
1790.	0.1372E-00	26946.9	84.38	0.00005
1800.	0.1365E-00	27114.2	84.47	0.00006
1810.	0.1357E-00	27281.8	84.57	0.00006
1820.	0.1350E-00	27449.7	84.66	0.00007
1830.	0.1342E-00	27617.8	84.75	0.00007
1840.	0.1335E-00	27786.2	84.84	0.00008
1850.	0.1328E-00	27954.9	84.93	0.00009
1860.	0.1321E-00	28123.9	85.03	0.00009
1870.	0.1314E-00	28293.2	85.12	0.00010
1880.	0.1307E-00	28462.8	85.21	0.00011
1890.	0.1300E-00	28632.7	85.30	0.00012
1900.	0.1293E-00	28803.0	85.39	0.00013
1910.	0.1286E-00	28973.5	85.48	0.00014
1920.	0.1279E-00	29144.4	85.57	0.00015
1930.	0.1273E-00	29315.6	85.66	0.00016
1940.	0.1266E-00	29487.2	85.75	0.00017
1950.	0.1260E-00	29659.1	85.84	0.00018
1960.	0.1253E-00	29831.4	85.93	0.00019
1970.	0.1247E-00	30004.1	86.01	0.00021
1980.	0.1240E-00	30177.1	86.10	0.00022
1990.	0.1234E-00	30350.6	86.19	0.00024
2000.	0.1228E-00	30524.4	86.28	0.00026
2010.	0.1222E-00	30698.6	86.37	0.00027
2020.	0.1216E-00	30873.3	86.46	0.00029
2030.	0.1210E-00	31048.4	86.54	0.00031
2040.	0.1204E-00	31223.9	86.63	0.00034
2050.	0.1198E-00	31399.9	86.72	0.00036
2060.	0.1192E-00	31576.3	86.80	0.00038
2070.	0.1186E-00	31753.3	86.89	0.00041
2080.	0.1181E-00	31930.7	86.98	0.00043
2090.	0.1175E-00	32108.6	87.06	0.00046

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.1169E-00	32287.0	87.15	0.00049
2110.	0.1164E-00	32466.0	87.24	0.00052
2120.	0.1158E-00	32645.5	87.32	0.00056
2130.	0.1153E-00	32825.6	87.41	0.00059
2140.	0.1147E-00	33006.3	87.50	0.00063
2150.	0.1142E-00	33187.5	87.58	0.00067
2160.	0.1137E-00	33369.4	87.67	0.00071
2170.	0.1131E-00	33551.9	87.76	0.00075
2180.	0.1126E-00	33735.1	87.84	0.00079
2190.	0.1121E-00	33918.9	87.93	0.00084
2200.	0.1116E-00	34103.4	88.01	0.00089
2210.	0.1111E-00	34288.6	88.10	0.00094
2220.	0.1106E-00	34474.5	88.19	0.00100
2230.	0.1101E-00	34661.2	88.27	0.00105
2240.	0.1096E-00	34848.7	88.36	0.00111
2250.	0.1091E-00	35036.9	88.45	0.00117
2260.	0.1086E-00	35226.0	88.53	0.00124
2270.	0.1081E-00	35415.8	88.62	0.00131
2280.	0.1076E-00	35606.6	88.71	0.00138
2290.	0.1071E-00	35798.2	88.79	0.00145
2300.	0.1067E-00	35990.7	88.88	0.00153
2310.	0.1062E-00	36184.2	88.97	0.00161
2320.	0.1057E-00	36378.6	89.05	0.00169
2330.	0.1053E-00	36574.1	89.14	0.00178
2340.	0.1048E-00	36770.5	89.23	0.00187
2350.	0.1043E-00	36967.9	89.32	0.00197
2360.	0.1039E-00	37166.5	89.41	0.00207
2370.	0.1034E-00	37366.1	89.49	0.00217
2380.	0.1030E-00	37566.9	89.58	0.00228
2390.	0.1025E-00	37768.8	89.67	0.00240
2400.	0.1021E-00	37971.9	89.76	0.00251
2410.	0.1017E-00	38176.2	89.85	0.00263
2420.	0.1012E-00	38381.8	89.94	0.00276
2430.	0.1008E-00	38588.7	90.03	0.00289
2440.	0.1004E-00	38796.9	90.12	0.00303
2450.	0.9996E-01	39006.5	90.21	0.00317
2460.	0.9954E-01	39217.4	90.30	0.00332
2470.	0.9912E-01	39429.8	90.39	0.00347
2480.	0.9870E-01	39643.6	90.48	0.00363
2490.	0.9829E-01	39858.9	90.57	0.00380
2500.	0.9788E-01	40075.8	90.67	0.00397
2510.	0.9747E-01	40294.2	90.76	0.00415
2520.	0.9707E-01	40514.3	90.85	0.00433
2530.	0.9667E-01	40736.0	90.95	0.00452
2540.	0.9627E-01	40959.4	91.04	0.00472
2550.	0.9587E-01	41184.6	91.13	0.00493
2560.	0.9548E-01	41411.5	91.23	0.00514
2570.	0.9508E-01	41640.2	91.33	0.00536
2580.	0.9469E-01	41870.8	91.42	0.00558
2590.	0.9431E-01	42103.4	91.52	0.00582

PRESSURE 10. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.9392E-01	42337.8	91.61	0.00606
2610.	0.9354E-01	42574.3	91.71	0.00631
2620.	0.9316E-01	42812.8	91.81	0.00657
2630.	0.9278E-01	43053.4	91.91	0.00684
2640.	0.9240E-01	43296.1	92.01	0.00712
2650.	0.9203E-01	43541.0	92.11	0.00740
2660.	0.9165E-01	43788.2	92.21	0.00770
2670.	0.9128E-01	44037.6	92.31	0.00800
2680.	0.9091E-01	44289.4	92.41	0.00831
2690.	0.9055E-01	44543.5	92.52	0.00864
2700.	0.9018E-01	44800.1	92.62	0.00897
2710.	0.8982E-01	45059.2	92.72	0.00932
2720.	0.8946E-01	45320.8	92.83	0.00967
2730.	0.8910E-01	45585.0	92.93	0.01004
2740.	0.8874E-01	45851.8	93.04	0.01041
2750.	0.8838E-01	46121.4	93.15	0.01080
2760.	0.8803E-01	46393.7	93.25	0.01120
2770.	0.8767E-01	46668.8	93.36	0.01161
2780.	0.8732E-01	46946.8	93.47	0.01204
2790.	0.8697E-01	47227.7	93.58	0.01247
2800.	0.8662E-01	47511.6	93.69	0.01292
2810.	0.8627E-01	47798.5	93.81	0.01338
2820.	0.8593E-01	48088.5	93.92	0.01385
2830.	0.8558E-01	48381.7	94.03	0.01434
2840.	0.8524E-01	48678.1	94.15	0.01484
2850.	0.8490E-01	48977.8	94.26	0.01536
2860.	0.8456E-01	49280.8	94.38	0.01588
2870.	0.8422E-01	49587.2	94.50	0.01643
2880.	0.8388E-01	49897.1	94.61	0.01698
2890.	0.8354E-01	50210.5	94.73	0.01756
2900.	0.8321E-01	50527.5	94.85	0.01814
2910.	0.8287E-01	50848.1	94.97	0.01875
2920.	0.8254E-01	51172.5	95.10	0.01937
2930.	0.8220E-01	51500.7	95.22	0.02000
2940.	0.8187E-01	51832.7	95.34	0.02065
2950.	0.8154E-01	52168.6	95.47	0.02132
2960.	0.8121E-01	52508.5	95.60	0.02201
2970.	0.8088E-01	52852.4	95.72	0.02271
2980.	0.8055E-01	53200.5	95.85	0.02343
2990.	0.8023E-01	53552.7	95.98	0.02416
3000.	0.7990E-01	53909.2	96.11	0.02492

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.3700E 01	1553.9	44.97	0.
110.	0.3350E 01	1670.9	46.09	0.
120.	0.3062E 01	1790.1	47.13	0.
130.	0.2821E 01	1911.9	48.10	0.
140.	0.2616E 01	2036.2	49.02	0.
150.	0.2440E 01	2162.7	49.89	0.
160.	0.2286E 01	2291.3	50.72	0.
170.	0.2150E 01	2421.9	51.51	0.
180.	0.2030E 01	2554.3	52.27	0.
190.	0.1923E 01	2688.3	53.00	0.
200.	0.1827E 01	2823.8	53.69	0.
210.	0.1740E 01	2960.6	54.36	0.
220.	0.1660E 01	3098.5	55.00	0.
230.	0.1588E 01	3237.5	55.62	0.
240.	0.1522E 01	3377.4	56.21	0.
250.	0.1461E 01	3518.1	56.79	0.
260.	0.1405E 01	3659.5	57.34	0.
270.	0.1353E 01	3801.4	57.88	0.
280.	0.1305E 01	3943.9	58.40	0.
290.	0.1260E 01	4086.9	58.90	0.
300.	0.1218E 01	4230.2	59.38	0.
310.	0.1179E 01	4373.9	59.85	0.
320.	0.1143E 01	4517.8	60.31	0.
330.	0.1108E 01	4662.0	60.76	0.
340.	0.1076E 01	4806.3	61.19	0.
350.	0.1045E 01	4950.8	61.60	0.
360.	0.1016E 01	5095.4	62.01	0.
370.	0.9888E 00	5240.1	62.41	0.
380.	0.9628E 00	5384.9	62.79	0.
390.	0.9383E 00	5529.8	63.17	0.
400.	0.9149E 00	5674.7	63.54	0.
410.	0.8927E 00	5819.7	63.90	0.
420.	0.8715E 00	5964.7	64.25	0.
430.	0.8513E 00	6109.7	64.59	0.
440.	0.8321E 00	6254.8	64.92	0.
450.	0.8137E 00	6399.9	65.25	0.
460.	0.7961E 00	6545.0	65.57	0.
470.	0.7792E 00	6690.2	65.88	0.
480.	0.7630E 00	6835.4	66.18	0.
490.	0.7475E 00	6980.7	66.48	0.
500.	0.7326E 00	7126.0	66.78	0.
510.	0.7183E 00	7271.3	67.06	0.
520.	0.7046E 00	7416.7	67.35	0.
530.	0.6913E 00	7562.1	67.62	0.
540.	0.6786E 00	7707.5	67.90	0.
550.	0.6663E 00	7853.0	68.16	0.
560.	0.6545E 00	7998.5	68.42	0.
570.	0.6430E 00	8144.0	68.68	0.
580.	0.6320E 00	8289.6	68.94	0.
590.	0.6213E 00	8435.1	69.18	0.

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.6110E 00	8580.2	69.43	0.
610.	0.6010E 00	8725.8	69.67	0.
620.	0.5914E 00	8871.3	69.91	0.
630.	0.5820E 00	9016.9	70.14	0.
640.	0.5730E 00	9162.6	70.37	0.
650.	0.5642E 00	9308.3	70.60	0.
660.	0.5557E 00	9454.0	70.82	0.
670.	0.5474E 00	9599.8	71.04	0.
680.	0.5394E 00	9745.7	71.25	0.
690.	0.5316E 00	9891.7	71.47	0.
700.	0.5240E 00	10037.8	71.68	0.
710.	0.5167E 00	10183.9	71.88	0.
720.	0.5095E 00	10330.1	72.09	0.
730.	0.5026E 00	10476.5	72.29	0.
740.	0.4958E-00	10622.9	72.49	0.
750.	0.4892E-00	10769.4	72.69	0.
760.	0.4828E-00	10916.1	72.88	0.
770.	0.4766E-00	11062.8	73.07	0.
780.	0.4705E-00	11209.7	73.26	0.
790.	0.4645E-00	11356.6	73.45	0.
800.	0.4587E-00	11503.7	73.63	0.
810.	0.4531E-00	11650.9	73.82	0.
820.	0.4476E-00	11798.2	74.00	0.
830.	0.4422E-00	11945.6	74.18	0.
840.	0.4370E-00	12093.2	74.35	0.
850.	0.4318E-00	12240.9	74.53	0.
860.	0.4268E-00	12388.7	74.70	0.
870.	0.4220E-00	12536.6	74.87	0.
880.	0.4172E-00	12684.7	75.04	0.
890.	0.4125E-00	12832.9	75.21	0.
900.	0.4079E-00	12981.2	75.37	0.
910.	0.4035E-00	13129.7	75.54	0.
920.	0.3991E-00	13278.3	75.70	0.
930.	0.3948E-00	13427.0	75.86	0.
940.	0.3906E-00	13575.9	76.02	0.
950.	0.3865E-00	13724.9	76.18	0.
960.	0.3825E-00	13874.1	76.33	0.
970.	0.3786E-00	14023.4	76.49	0.
980.	0.3747E-00	14172.9	76.64	0.
990.	0.3710E-00	14322.5	76.79	0.
1000.	0.3673E-00	14472.3	76.94	0.
1010.	0.3636E-00	14622.3	77.09	0.
1020.	0.3601E-00	14772.4	77.24	0.
1030.	0.3566E-00	14922.6	77.39	0.
1040.	0.3532E-00	15073.0	77.53	0.
1050.	0.3498E-00	15223.6	77.68	0.
1060.	0.3465E-00	15374.4	77.82	0.
1070.	0.3433E-00	15525.3	77.96	0.
1080.	0.3401E-00	15676.4	78.10	0.
1090.	0.3370E-00	15827.6	78.24	0.

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.3340E-00	15979.1	78.38	0.
1110.	0.3310E-00	16130.7	78.52	0.
1120.	0.3280E-00	16282.5	78.65	0.
1130.	0.3251E-00	16434.5	78.79	0.
1140.	0.3223E-00	16586.6	78.92	0.
1150.	0.3195E-00	16739.0	79.06	0.
1160.	0.3167E-00	16891.5	79.19	0.
1170.	0.3140E-00	17044.2	79.32	0.
1180.	0.3114E-00	17197.1	79.45	0.
1190.	0.3088E-00	17350.2	79.58	0.
1200.	0.3062E-00	17503.5	79.71	0.
1210.	0.3037E-00	17657.0	79.83	0.
1220.	0.3012E-00	17810.7	79.96	0.
1230.	0.2988E-00	17964.6	80.09	0.
1240.	0.2964E-00	18118.7	80.21	0.
1250.	0.2940E-00	18273.0	80.34	0.
1260.	0.2917E-00	18427.5	80.46	0.
1270.	0.2894E-00	18582.3	80.58	0.
1280.	0.2871E-00	18737.2	80.70	0.
1290.	0.2849E-00	18892.3	80.82	0.
1300.	0.2827E-00	19047.7	80.94	0.
1310.	0.2806E-00	19203.3	81.06	0.
1320.	0.2784E-00	19359.1	81.18	0.
1330.	0.2763E-00	19515.1	81.30	0.
1340.	0.2743E-00	19671.3	81.42	0.
1350.	0.2723E-00	19827.8	81.53	0.
1360.	0.2703E-00	19984.5	81.65	0.
1370.	0.2683E-00	20141.4	81.76	0.
1380.	0.2664E-00	20298.6	81.88	0.
1390.	0.2644E-00	20456.0	81.99	0.
1400.	0.2626E-00	20613.6	82.10	0.
1410.	0.2607E-00	20771.5	82.22	0.
1420.	0.2589E-00	20929.6	82.33	0.
1430.	0.2571E-00	21088.0	82.44	0.
1440.	0.2553E-00	21246.6	82.55	0.
1450.	0.2535E-00	21405.4	82.66	0.
1460.	0.2518E-00	21564.5	82.77	0.
1470.	0.2501E-00	21723.8	82.88	0.
1480.	0.2484E-00	21883.4	82.99	0.
1490.	0.2467E-00	22043.3	83.09	0.
1500.	0.2457E-00	22201.4	83.21	0.00000
1510.	0.2440E-00	22361.8	83.32	0.00000
1520.	0.2424E-00	22522.4	83.42	0.00000
1530.	0.2409E-00	22683.2	83.53	0.00000
1540.	0.2393E-00	22844.3	83.63	0.00000
1550.	0.2377E-00	23005.6	83.74	0.00000
1560.	0.2362E-00	23167.1	83.84	0.00000
1570.	0.2347E-00	23328.8	83.94	0.00001
1580.	0.2332E-00	23490.8	84.05	0.00001
1590.	0.2318E-00	23652.9	84.15	0.00001

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.2303E-00	23815.3	84.25	0.00001
1610.	0.2289E-00	23978.0	84.35	0.00001
1620.	0.2275E-00	24140.8	84.45	0.00001
1630.	0.2261E-00	24303.9	84.55	0.00001
1640.	0.2247E-00	24467.2	84.65	0.00001
1650.	0.2233E-00	24630.8	84.75	0.00001
1660.	0.2220E-00	24794.5	84.85	0.00001
1670.	0.2207E-00	24958.5	84.95	0.00001
1680.	0.2193E-00	25122.7	85.05	0.00002
1690.	0.2180E-00	25287.2	85.15	0.00002
1700.	0.2168E-00	25451.9	85.24	0.00002
1710.	0.2155E-00	25616.8	85.34	0.00002
1720.	0.2142E-00	25781.9	85.44	0.00002
1730.	0.2130E-00	25947.3	85.53	0.00003
1740.	0.2118E-00	26113.0	85.63	0.00003
1750.	0.2106E-00	26278.8	85.73	0.00003
1760.	0.2094E-00	26444.9	85.82	0.00003
1770.	0.2082E-00	26611.3	85.91	0.00004
1780.	0.2070E-00	26777.9	86.01	0.00004
1790.	0.2059E-00	26944.8	86.10	0.00004
1800.	0.2047E-00	27111.9	86.20	0.00005
1810.	0.2036E-00	27279.3	86.29	0.00005
1820.	0.2025E-00	27446.9	86.38	0.00005
1830.	0.2014E-00	27614.8	86.47	0.00006
1840.	0.2003E-00	27783.0	86.57	0.00006
1850.	0.1992E-00	27951.4	86.66	0.00007
1860.	0.1981E-00	28120.1	86.75	0.00008
1870.	0.1970E-00	28289.1	86.84	0.00008
1880.	0.1960E-00	28458.4	86.93	0.00009
1890.	0.1950E-00	28627.9	87.02	0.00009
1900.	0.1939E-00	28797.8	87.11	0.00010
1910.	0.1929E-00	28967.9	87.20	0.00011
1920.	0.1919E-00	29138.4	87.29	0.00012
1930.	0.1909E-00	29309.2	87.38	0.00013
1940.	0.1899E-00	29480.3	87.47	0.00014
1950.	0.1890E-00	29651.7	87.56	0.00015
1960.	0.1880E-00	29823.4	87.65	0.00016
1970.	0.1870E-00	29995.5	87.73	0.00017
1980.	0.1861E-00	30167.9	87.82	0.00018
1990.	0.1851E-00	30340.7	87.91	0.00020
2000.	0.1842E-00	30513.8	88.00	0.00021
2010.	0.1833E-00	30687.3	88.08	0.00022
2020.	0.1824E-00	30861.1	88.17	0.00024
2030.	0.1815E-00	31035.4	88.26	0.00026
2040.	0.1806E-00	31210.0	88.35	0.00027
2050.	0.1797E-00	31385.1	88.43	0.00029
2060.	0.1788E-00	31560.5	88.52	0.00031
2070.	0.1780E-00	31736.4	88.60	0.00033
2080.	0.1771E-00	31912.7	88.69	0.00035
2090.	0.1763E-00	32089.5	88.78	0.00038

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.1754E-00	32266.7	88.86	0.00040
2110.	0.1746E-00	32444.3	88.95	0.00043
2120.	0.1737E-00	32622.5	89.03	0.00045
2130.	0.1729E-00	32801.1	89.12	0.00048
2140.	0.1721E-00	32980.3	89.20	0.00051
2150.	0.1713E-00	33160.0	89.29	0.00054
2160.	0.1705E-00	33340.1	89.37	0.00058
2170.	0.1697E-00	33520.9	89.46	0.00061
2180.	0.1689E-00	33702.2	89.55	0.00065
2190.	0.1682E-00	33884.1	89.63	0.00069
2200.	0.1674E-00	34066.5	89.72	0.00073
2210.	0.1666E-00	34249.6	89.80	0.00077
2220.	0.1659E-00	34433.3	89.88	0.00081
2230.	0.1651E-00	34617.6	89.97	0.00086
2240.	0.1644E-00	34802.6	90.05	0.00091
2250.	0.1636E-00	34988.3	90.14	0.00096
2260.	0.1629E-00	35174.6	90.22	0.00101
2270.	0.1622E-00	35361.7	90.31	0.00107
2280.	0.1614E-00	35549.5	90.39	0.00112
2290.	0.1607E-00	35738.0	90.48	0.00118
2300.	0.1600E-00	35927.3	90.56	0.00125
2310.	0.1593E-00	36117.4	90.65	0.00131
2320.	0.1586E-00	36308.3	90.73	0.00138
2330.	0.1579E-00	36500.1	90.82	0.00146
2340.	0.1572E-00	36692.7	90.91	0.00153
2350.	0.1566E-00	36886.2	90.99	0.00161
2360.	0.1559E-00	37080.5	91.08	0.00169
2370.	0.1552E-00	37275.8	91.16	0.00177
2380.	0.1545E-00	37472.1	91.25	0.00186
2390.	0.1539E-00	37669.3	91.33	0.00196
2400.	0.1532E-00	37867.5	91.42	0.00205
2410.	0.1526E-00	38066.8	91.51	0.00215
2420.	0.1519E-00	38267.1	91.59	0.00225
2430.	0.1513E-00	38468.5	91.68	0.00236
2440.	0.1507E-00	38670.9	91.77	0.00247
2450.	0.1500E-00	38874.6	91.86	0.00259
2460.	0.1494E-00	39079.3	91.94	0.00271
2470.	0.1488E-00	39285.3	92.03	0.00284
2480.	0.1482E-00	39492.5	92.12	0.00297
2490.	0.1475E-00	39700.9	92.21	0.00310
2500.	0.1469E-00	39910.6	92.30	0.00324
2510.	0.1463E-00	40121.7	92.39	0.00339
2520.	0.1457E-00	40334.0	92.47	0.00354
2530.	0.1451E-00	40547.8	92.56	0.00369
2540.	0.1445E-00	40762.9	92.65	0.00386
2550.	0.1439E-00	40979.5	92.74	0.00402
2560.	0.1433E-00	41197.6	92.84	0.00420
2570.	0.1428E-00	41417.2	92.93	0.00437
2580.	0.1422E-00	41638.3	93.02	0.00456
2590.	0.1416E-00	41861.0	93.11	0.00475

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.1410E-00	42085.4	93.20	0.00495
2610.	0.1405E-00	42311.4	93.30	0.00515
2620.	0.1399E-00	42539.0	93.39	0.00537
2630.	0.1393E-00	42768.4	93.48	0.00558
2640.	0.1388E-00	42999.6	93.58	0.00581
2650.	0.1382E-00	43232.6	93.67	0.00604
2660.	0.1377E-00	43467.4	93.77	0.00628
2670.	0.1371E-00	43704.1	93.86	0.00653
2680.	0.1366E-00	43942.8	93.96	0.00679
2690.	0.1360E-00	44183.4	94.05	0.00705
2700.	0.1355E-00	44426.0	94.15	0.00733
2710.	0.1350E-00	44670.7	94.25	0.00761
2720.	0.1344E-00	44917.5	94.35	0.00790
2730.	0.1339E-00	45166.4	94.45	0.00820
2740.	0.1334E-00	45417.5	94.55	0.00850
2750.	0.1328E-00	45670.8	94.65	0.00882
2760.	0.1323E-00	45926.4	94.75	0.00915
2770.	0.1318E-00	46184.3	94.85	0.00948
2780.	0.1313E-00	46444.6	94.95	0.00983
2790.	0.1308E-00	46707.2	95.05	0.01018
2800.	0.1302E-00	46972.4	95.16	0.01055
2810.	0.1297E-00	47240.0	95.26	0.01092
2820.	0.1292E-00	47510.2	95.36	0.01131
2830.	0.1287E-00	47783.0	95.47	0.01171
2840.	0.1282E-00	48058.4	95.58	0.01212
2850.	0.1277E-00	48336.6	95.68	0.01254
2860.	0.1272E-00	48617.5	95.79	0.01297
2870.	0.1267E-00	48901.2	95.90	0.01341
2880.	0.1262E-00	49187.7	96.01	0.01387
2890.	0.1257E-00	49477.1	96.12	0.01434
2900.	0.1252E-00	49769.5	96.23	0.01482
2910.	0.1247E-00	50064.9	96.34	0.01531
2920.	0.1242E-00	50363.3	96.45	0.01581
2930.	0.1238E-00	50664.9	96.56	0.01633
2940.	0.1233E-00	50969.6	96.68	0.01686
2950.	0.1228E-00	51277.6	96.79	0.01741
2960.	0.1223E-00	51588.8	96.91	0.01797
2970.	0.1218E-00	51903.3	97.02	0.01854
2980.	0.1213E-00	52221.2	97.14	0.01913
2990.	0.1209E-00	52542.6	97.26	0.01973
3000.	0.1204E-00	52867.4	97.38	0.02035

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.3700E 01	1393.4	43.43	0.
110.	0.3350E 01	1518.6	44.62	0.
120.	0.3062E 01	1647.8	45.75	0.
130.	0.2821E 01	1780.7	46.81	0.
140.	0.2616E 01	1916.7	47.82	0.
150.	0.2440E 01	2055.2	48.77	0.
160.	0.2286E 01	2195.8	49.68	0.
170.	0.2150E 01	2337.8	50.54	0.
180.	0.2030E 01	2480.9	51.36	0.
190.	0.1923E 01	2624.8	52.14	0.
200.	0.1827E 01	2769.3	52.88	0.
210.	0.1740E 01	2914.1	53.59	0.
220.	0.1660E 01	3059.1	54.26	0.
230.	0.1588E 01	3204.2	54.90	0.
240.	0.1522E 01	3349.4	55.52	0.
250.	0.1461E 01	3494.7	56.12	0.
260.	0.1405E 01	3640.0	56.69	0.
270.	0.1353E 01	3785.3	57.23	0.
280.	0.1305E 01	3930.6	57.76	0.
290.	0.1260E 01	4075.9	58.27	0.
300.	0.1218E 01	4221.2	58.76	0.
310.	0.1179E 01	4366.4	59.24	0.
320.	0.1143E 01	4511.7	59.70	0.
330.	0.1108E 01	4657.0	60.15	0.
340.	0.1076E 01	4802.2	60.58	0.
350.	0.1045E 01	4947.5	61.00	0.
360.	0.1016E 01	5092.7	61.41	0.
370.	0.9888E 00	5237.9	61.81	0.
380.	0.9628E 00	5383.1	62.20	0.
390.	0.9383E 00	5528.3	62.58	0.
400.	0.9149E 00	5673.5	62.94	0.
410.	0.8927E 00	5818.8	63.30	0.
420.	0.8715E 00	5964.0	63.65	0.
430.	0.8513E 00	6109.2	63.99	0.
440.	0.8321E 00	6254.4	64.33	0.
450.	0.8137E 00	6399.7	64.65	0.
460.	0.7961E 00	6544.9	64.97	0.
470.	0.7792E 00	6690.2	65.29	0.
480.	0.7630E 00	6835.5	65.59	0.
490.	0.7475E 00	6980.8	65.89	0.
500.	0.7326E 00	7126.1	66.18	0.
510.	0.7183E 00	7271.5	66.47	0.
520.	0.7046E 00	7416.9	66.75	0.
530.	0.6913E 00	7562.3	67.03	0.
540.	0.6786E 00	7707.7	67.30	0.
550.	0.6663E 00	7853.1	67.57	0.
560.	0.6545E 00	7998.6	67.83	0.
570.	0.6430E 00	8144.1	68.09	0.
580.	0.6320E 00	8289.6	68.34	0.
590.	0.6213E 00	8435.2	68.59	0.

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.6110E 00	8580.2	68.30	0.
610.	0.6010E 00	8725.8	68.54	0.
620.	0.5914E 00	8871.3	68.77	0.
630.	0.5820E 00	9016.9	69.01	0.
640.	0.5730E 00	9162.6	69.24	0.
650.	0.5642E 00	9308.3	69.46	0.
660.	0.5557E 00	9454.0	69.69	0.
670.	0.5474E 00	9599.8	69.90	0.
680.	0.5394E 00	9745.7	70.12	0.
690.	0.5316E 00	9891.7	70.33	0.
700.	0.5240E 00	10037.8	70.54	0.
710.	0.5167E 00	10183.9	70.75	0.
720.	0.5095E 00	10330.1	70.96	0.
730.	0.5026E 00	10476.5	71.16	0.
740.	0.4958E-00	10622.9	71.36	0.
750.	0.4892E-00	10769.4	71.55	0.
760.	0.4828E-00	10916.1	71.75	0.
770.	0.4766E-00	11062.8	71.94	0.
780.	0.4705E-00	11209.7	72.13	0.
790.	0.4645E-00	11356.6	72.32	0.
800.	0.4587E-00	11503.7	72.50	0.
810.	0.4531E-00	11650.9	72.68	0.
820.	0.4476E-00	11798.2	72.86	0.
830.	0.4422E-00	11945.6	73.04	0.
840.	0.4370E-00	12093.2	73.22	0.
850.	0.4318E-00	12240.9	73.40	0.
860.	0.4268E-00	12388.7	73.57	0.
870.	0.4220E-00	12536.6	73.74	0.
880.	0.4172E-00	12684.7	73.91	0.
890.	0.4125E-00	12832.9	74.08	0.
900.	0.4079E-00	12981.2	74.24	0.
910.	0.4035E-00	13129.7	74.41	0.
920.	0.3991E-00	13278.3	74.57	0.
930.	0.3948E-00	13427.0	74.73	0.
940.	0.3906E-00	13575.9	74.89	0.
950.	0.3865E-00	13724.9	75.05	0.
960.	0.3825E-00	13874.1	75.20	0.
970.	0.3786E-00	14023.4	75.36	0.
980.	0.3747E-00	14172.9	75.51	0.
990.	0.3710E-00	14322.5	75.66	0.
1000.	0.3673E-00	14472.3	75.81	0.
1010.	0.3636E-00	14622.3	75.96	0.
1020.	0.3601E-00	14772.4	76.11	0.
1030.	0.3566E-00	14922.6	76.26	0.
1040.	0.3532E-00	15073.0	76.40	0.
1050.	0.3498E-00	15223.6	76.55	0.
1060.	0.3465E-00	15374.4	76.69	0.
1070.	0.3433E-00	15525.3	76.83	0.
1080.	0.3401E-00	15676.4	76.97	0.
1090.	0.3370E-00	15827.6	77.11	0.

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.3340E-00	15979.1	77.25	0.
1110.	0.3310E-00	16130.7	77.39	0.
1120.	0.3280E-00	16282.5	77.52	0.
1130.	0.3251E-00	16434.5	77.66	0.
1140.	0.3223E-00	16586.6	77.79	0.
1150.	0.3195E-00	16739.0	77.92	0.
1160.	0.3167E-00	16891.5	78.06	0.
1170.	0.3140E-00	17044.2	78.19	0.
1180.	0.3114E-00	17197.1	78.32	0.
1190.	0.3088E-00	17350.2	78.45	0.
1200.	0.3062E-00	17503.5	78.57	0.
1210.	0.3037E-00	17657.0	78.70	0.
1220.	0.3012E-00	17810.7	78.83	0.
1230.	0.2988E-00	17964.6	78.95	0.
1240.	0.2964E-00	18118.7	79.08	0.
1250.	0.2940E-00	18273.0	79.20	0.
1260.	0.2917E-00	18427.5	79.33	0.
1270.	0.2894E-00	18582.3	79.45	0.
1280.	0.2871E-00	18737.2	79.57	0.
1290.	0.2849E-00	18892.3	79.69	0.
1300.	0.2827E-00	19047.7	79.81	0.
1310.	0.2806E-00	19203.3	79.93	0.
1320.	0.2784E-00	19359.1	80.05	0.
1330.	0.2763E-00	19515.1	80.17	0.
1340.	0.2743E-00	19671.3	80.28	0.
1350.	0.2723E-00	19827.8	80.40	0.
1360.	0.2703E-00	19984.5	80.51	0.
1370.	0.2683E-00	20141.4	80.63	0.
1380.	0.2664E-00	20298.6	80.74	0.
1390.	0.2644E-00	20456.0	80.86	0.
1400.	0.2626E-00	20613.6	80.97	0.
1410.	0.2607E-00	20771.5	81.08	0.
1420.	0.2589E-00	20929.6	81.19	0.
1430.	0.2571E-00	21088.0	81.31	0.
1440.	0.2553E-00	21246.6	81.42	0.
1450.	0.2535E-00	21405.4	81.53	0.
1460.	0.2518E-00	21564.5	81.64	0.
1470.	0.2501E-00	21723.8	81.74	0.
1480.	0.2484E-00	21883.4	81.85	0.
1490.	0.2467E-00	22043.3	81.96	0.
1500.	0.2457E-00	22201.4	82.08	0.00000
1510.	0.2440E-00	22361.8	82.18	0.00000
1520.	0.2424E-00	22522.4	82.29	0.00000
1530.	0.2409E-00	22683.2	82.40	0.00000
1540.	0.2393E-00	22844.3	82.50	0.00000
1550.	0.2377E-00	23005.6	82.60	0.00000
1560.	0.2362E-00	23167.1	82.71	0.00000
1570.	0.2347E-00	23328.8	82.81	0.00001
1580.	0.2332E-00	23490.8	82.91	0.00001
1590.	0.2318E-00	23652.9	83.02	0.00001

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.2303E-00	23815.3	83.12	0.00001
1610.	0.2289E-00	23978.0	83.22	0.00001
1620.	0.2275E-00	24140.8	83.32	0.00001
1630.	0.2261E-00	24303.9	83.42	0.00001
1640.	0.2247E-00	24467.2	83.52	0.00001
1650.	0.2233E-00	24630.8	83.62	0.00001
1660.	0.2220E-00	24794.5	83.72	0.00001
1670.	0.2207E-00	24958.5	83.82	0.00001
1680.	0.2193E-00	25122.7	83.92	0.00002
1690.	0.2180E-00	25287.2	84.01	0.00002
1700.	0.2168E-00	25451.9	84.11	0.00002
1710.	0.2155E-00	25616.8	84.21	0.00002
1720.	0.2142E-00	25781.9	84.31	0.00002
1730.	0.2130E-00	25947.3	84.40	0.00003
1740.	0.2118E-00	26113.0	84.50	0.00003
1750.	0.2106E-00	26278.8	84.59	0.00003
1760.	0.2094E-00	26444.9	84.69	0.00003
1770.	0.2082E-00	26611.3	84.78	0.00004
1780.	0.2070E-00	26777.9	84.88	0.00004
1790.	0.2059E-00	26944.8	84.97	0.00004
1800.	0.2047E-00	27111.9	85.06	0.00005
1810.	0.2036E-00	27279.3	85.16	0.00005
1820.	0.2025E-00	27446.9	85.25	0.00005
1830.	0.2014E-00	27614.8	85.34	0.00006
1840.	0.2003E-00	27783.0	85.43	0.00006
1850.	0.1992E-00	27951.4	85.52	0.00007
1860.	0.1981E-00	28120.1	85.62	0.00008
1870.	0.1970E-00	28289.1	85.71	0.00008
1880.	0.1960E-00	28458.4	85.80	0.00009
1890.	0.1950E-00	28627.9	85.89	0.00009
1900.	0.1939E-00	28797.8	85.98	0.00010
1910.	0.1929E-00	28967.9	86.07	0.00011
1920.	0.1919E-00	29138.4	86.16	0.00012
1930.	0.1909E-00	29309.2	86.25	0.00013
1940.	0.1899E-00	29480.3	86.34	0.00014
1950.	0.1890E-00	29651.7	86.42	0.00015
1960.	0.1880E-00	29823.4	86.51	0.00016
1970.	0.1870E-00	29995.5	86.60	0.00017
1980.	0.1861E-00	30167.9	86.69	0.00018
1990.	0.1851E-00	30340.7	86.78	0.00020
2000.	0.1842E-00	30513.8	86.86	0.00021
2010.	0.1833E-00	30687.3	86.95	0.00022
2020.	0.1824E-00	30861.1	87.04	0.00024
2030.	0.1815E-00	31035.4	87.13	0.00026
2040.	0.1806E-00	31210.0	87.21	0.00027
2050.	0.1797E-00	31385.1	87.30	0.00029
2060.	0.1788E-00	31560.5	87.39	0.00031
2070.	0.1780E-00	31736.4	87.47	0.00033
2080.	0.1771E-00	31912.7	87.56	0.00035
2090.	0.1763E-00	32089.5	87.64	0.00038

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.1754E-00	32266.7	87.73	0.00040
2110.	0.1746E-00	32444.3	87.82	0.00043
2120.	0.1737E-00	32622.5	87.90	0.00045
2130.	0.1729E-00	32801.1	87.99	0.00048
2140.	0.1721E-00	32980.3	88.07	0.00051
2150.	0.1713E-00	33160.0	88.16	0.00054
2160.	0.1705E-00	33340.1	88.24	0.00058
2170.	0.1697E-00	33520.9	88.33	0.00061
2180.	0.1689E-00	33702.2	88.41	0.00065
2190.	0.1682E-00	33884.1	88.50	0.00069
2200.	0.1674E-00	34066.5	88.58	0.00073
2210.	0.1666E-00	34249.6	88.67	0.00077
2220.	0.1659E-00	34433.3	88.75	0.00081
2230.	0.1651E-00	34617.6	88.84	0.00086
2240.	0.1644E-00	34802.6	88.92	0.00091
2250.	0.1636E-00	34988.3	89.01	0.00096
2260.	0.1629E-00	35174.6	89.09	0.00101
2270.	0.1622E-00	35361.7	89.18	0.00107
2280.	0.1614E-00	35549.5	89.26	0.00112
2290.	0.1607E-00	35738.0	89.35	0.00118
2300.	0.1600E-00	35927.3	89.43	0.00125
2310.	0.1593E-00	36117.4	89.52	0.00131
2320.	0.1586E-00	36308.3	89.60	0.00138
2330.	0.1579E-00	36500.1	89.69	0.00146
2340.	0.1572E-00	36692.7	89.77	0.00153
2350.	0.1566E-00	36886.2	89.86	0.00161
2360.	0.1559E-00	37080.5	89.94	0.00169
2370.	0.1552E-00	37275.8	90.03	0.00177
2380.	0.1545E-00	37472.1	90.12	0.00186
2390.	0.1539E-00	37669.3	90.20	0.00196
2400.	0.1532E-00	37867.5	90.29	0.00205
2410.	0.1526E-00	38066.8	90.38	0.00215
2420.	0.1519E-00	38267.1	90.46	0.00225
2430.	0.1513E-00	38468.5	90.55	0.00236
2440.	0.1507E-00	38670.9	90.64	0.00247
2450.	0.1500E-00	38874.6	90.72	0.00259
2460.	0.1494E-00	39079.3	90.81	0.00271
2470.	0.1488E-00	39285.3	90.90	0.00284
2480.	0.1482E-00	39492.5	90.99	0.00297
2490.	0.1475E-00	39700.9	91.08	0.00310
2500.	0.1469E-00	39910.6	91.16	0.00324
2510.	0.1463E-00	40121.7	91.25	0.00339
2520.	0.1457E-00	40334.0	91.34	0.00354
2530.	0.1451E-00	40547.8	91.43	0.00369
2540.	0.1445E-00	40762.9	91.52	0.00386
2550.	0.1439E-00	40979.5	91.61	0.00402
2560.	0.1433E-00	41197.6	91.70	0.00420
2570.	0.1428E-00	41417.2	91.79	0.00437
2580.	0.1422E-00	41638.3	91.89	0.00456
2590.	0.1416E-00	41861.0	91.98	0.00475

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.1410E-00	42085.4	92.07	0.00495
2610.	0.1405E-00	42311.4	92.16	0.00515
2620.	0.1399E-00	42539.0	92.26	0.00537
2630.	0.1393E-00	42768.4	92.35	0.00558
2640.	0.1388E-00	42999.6	92.44	0.00581
2650.	0.1382E-00	43232.6	92.54	0.00604
2660.	0.1377E-00	43467.4	92.63	0.00628
2670.	0.1371E-00	43704.1	92.73	0.00653
2680.	0.1366E-00	43942.8	92.82	0.00679
2690.	0.1360E-00	44183.4	92.92	0.00705
2700.	0.1355E-00	44426.0	93.02	0.00733
2710.	0.1350E-00	44670.7	93.12	0.00761
2720.	0.1344E-00	44917.5	93.21	0.00790
2730.	0.1339E-00	45166.4	93.31	0.00820
2740.	0.1334E-00	45417.5	93.41	0.00850
2750.	0.1328E-00	45670.8	93.51	0.00882
2760.	0.1323E-00	45926.4	93.61	0.00915
2770.	0.1318E-00	46184.3	93.71	0.00948
2780.	0.1313E-00	46444.6	93.82	0.00983
2790.	0.1308E-00	46707.2	93.92	0.01018
2800.	0.1302E-00	46972.4	94.02	0.01055
2810.	0.1297E-00	47240.0	94.13	0.01092
2820.	0.1292E-00	47510.2	94.23	0.01131
2830.	0.1287E-00	47783.0	94.34	0.01171
2840.	0.1282E-00	48058.4	94.44	0.01212
2850.	0.1277E-00	48336.6	94.55	0.01254
2860.	0.1272E-00	48617.5	94.66	0.01297
2870.	0.1267E-00	48901.2	94.77	0.01341
2880.	0.1262E-00	49187.7	94.87	0.01387
2890.	0.1257E-00	49477.1	94.98	0.01434
2900.	0.1252E-00	49769.5	95.09	0.01482
2910.	0.1247E-00	50064.9	95.21	0.01531
2920.	0.1242E-00	50363.3	95.32	0.01581
2930.	0.1238E-00	50664.9	95.43	0.01633
2940.	0.1233E-00	50969.6	95.55	0.01686
2950.	0.1228E-00	51277.6	95.66	0.01741
2960.	0.1223E-00	51588.8	95.78	0.01797
2970.	0.1218E-00	51903.3	95.89	0.01854
2980.	0.1213E-00	52221.2	96.01	0.01913
2990.	0.1209E-00	52542.6	96.13	0.01973
3000.	0.1204E-00	52867.4	96.25	0.02035

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.3700E 01	1232.8	40.81	0.
110.	0.3350E 01	1366.4	42.08	0.
120.	0.3062E 01	1505.5	43.29	0.
130.	0.2821E 01	1649.4	44.44	0.
140.	0.2616E 01	1797.2	45.54	0.
150.	0.2440E 01	1947.8	46.58	0.
160.	0.2286E 01	2100.2	47.56	0.
170.	0.2150E 01	2253.7	48.49	0.
180.	0.2030E 01	2407.6	49.37	0.
190.	0.1923E 01	2561.4	50.20	0.
200.	0.1827E 01	2714.7	50.99	0.
210.	0.1740E 01	2867.5	51.73	0.
220.	0.1660E 01	3019.6	52.44	0.
230.	0.1588E 01	3170.9	53.11	0.
240.	0.1522E 01	3321.5	53.75	0.
250.	0.1461E 01	3471.3	54.37	0.
260.	0.1405E 01	3620.5	54.95	0.
270.	0.1353E 01	3769.1	55.51	0.
280.	0.1305E 01	3917.2	56.05	0.
290.	0.1260E 01	4064.9	56.57	0.
300.	0.1218E 01	4212.1	57.07	0.
310.	0.1179E 01	4359.0	57.55	0.
320.	0.1143E 01	4505.6	58.01	0.
330.	0.1108E 01	4652.0	58.46	0.
340.	0.1076E 01	4798.1	58.90	0.
350.	0.1045E 01	4944.1	59.32	0.
360.	0.1016E 01	5090.0	59.74	0.
370.	0.9888E 00	5235.7	60.13	0.
380.	0.9628E 00	5381.3	60.52	0.
390.	0.9383E 00	5526.9	60.90	0.
400.	0.9149E 00	5672.4	61.27	0.
410.	0.8927E 00	5817.9	61.63	0.
420.	0.8715E 00	5963.3	61.98	0.
430.	0.8513E 00	6108.7	62.32	0.
440.	0.8321E 00	6254.1	62.66	0.
450.	0.8137E 00	6399.4	62.98	0.
460.	0.7961E 00	6544.8	63.30	0.
470.	0.7792E 00	6690.2	63.61	0.
480.	0.7630E 00	6835.5	63.92	0.
490.	0.7475E 00	6980.9	64.22	0.
500.	0.7326E 00	7126.3	64.51	0.
510.	0.7183E 00	7271.6	64.80	0.
520.	0.7046E 00	7417.0	65.08	0.
530.	0.6913E 00	7562.4	65.36	0.
540.	0.6786E 00	7707.9	65.63	0.
550.	0.6663E 00	7853.3	65.90	0.
560.	0.6545E 00	7998.7	66.16	0.
570.	0.6430E 00	8144.2	66.42	0.
580.	0.6320E 00	8289.7	66.67	0.
590.	0.6213E 00	8435.2	66.92	0.

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.6110E 00	8580.2	67.16	0.
610.	0.6010E 00	8725.8	67.41	0.
620.	0.5914E 00	8871.3	67.64	0.
630.	0.5820E 00	9016.9	67.87	0.
640.	0.5730E 00	9162.6	68.10	0.
650.	0.5642E 00	9308.3	68.33	0.
660.	0.5557E 00	9454.0	68.55	0.
670.	0.5474E 00	9599.8	68.77	0.
680.	0.5394E 00	9745.7	68.99	0.
690.	0.5316E 00	9891.7	69.20	0.
700.	0.5240E 00	10037.8	69.41	0.
710.	0.5167E 00	10183.9	69.62	0.
720.	0.5095E 00	10330.1	69.82	0.
730.	0.5026E 00	10476.5	70.02	0.
740.	0.4958E-00	10622.9	70.22	0.
750.	0.4892E-00	10769.4	70.42	0.
760.	0.4828E-00	10916.1	70.62	0.
770.	0.4766E-00	11062.8	70.81	0.
780.	0.4705E-00	11209.7	71.00	0.
790.	0.4645E-00	11356.6	71.18	0.
800.	0.4587E-00	11503.7	71.37	0.
810.	0.4531E-00	11650.9	71.55	0.
820.	0.4476E-00	11798.2	71.73	0.
830.	0.4422E-00	11945.6	71.91	0.
840.	0.4370E-00	12093.2	72.09	0.
850.	0.4318E-00	12240.9	72.26	0.
860.	0.4268E-00	12388.7	72.44	0.
870.	0.4220E-00	12536.6	72.61	0.
880.	0.4172E-00	12684.7	72.78	0.
890.	0.4125E-00	12832.9	72.94	0.
900.	0.4079E-00	12981.2	73.11	0.
910.	0.4035E-00	13129.7	73.27	0.
920.	0.3991E-00	13278.3	73.44	0.
930.	0.3948E-00	13427.0	73.60	0.
940.	0.3906E-00	13575.9	73.76	0.
950.	0.3865E-00	13724.9	73.91	0.
960.	0.3825E-00	13874.1	74.07	0.
970.	0.3786E-00	14023.4	74.22	0.
980.	0.3747E-00	14172.9	74.38	0.
990.	0.3710E-00	14322.5	74.53	0.
1000.	0.3673E-00	14472.3	74.68	0.
1010.	0.3636E-00	14622.3	74.83	0.
1020.	0.3601E-00	14772.4	74.98	0.
1030.	0.3566E-00	14922.6	75.12	0.
1040.	0.3532E-00	15073.0	75.27	0.
1050.	0.3498E-00	15223.6	75.41	0.
1060.	0.3465E-00	15374.4	75.56	0.
1070.	0.3433E-00	15525.3	75.70	0.
1080.	0.3401E-00	15676.4	75.84	0.
1090.	0.3370E-00	15827.6	75.98	0.

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.3340E-00	15979.1	76.12	0.
1110.	0.3310E-00	16130.7	76.25	0.
1120.	0.3280E-00	16282.5	76.39	0.
1130.	0.3251E-00	16434.5	76.52	0.
1140.	0.3223E-00	16586.6	76.66	0.
1150.	0.3195E-00	16739.0	76.79	0.
1160.	0.3167E-00	16891.5	76.92	0.
1170.	0.3140E-00	17044.2	77.05	0.
1180.	0.3114E-00	17197.1	77.18	0.
1190.	0.3088E-00	17350.2	77.31	0.
1200.	0.3062E-00	17503.5	77.44	0.
1210.	0.3037E-00	17657.0	77.57	0.
1220.	0.3012E-00	17810.7	77.70	0.
1230.	0.2988E-00	17964.6	77.82	0.
1240.	0.2964E-00	18118.7	77.95	0.
1250.	0.2940E-00	18273.0	78.07	0.
1260.	0.2917E-00	18427.5	78.19	0.
1270.	0.2894E-00	18582.3	78.32	0.
1280.	0.2871E-00	18737.2	78.44	0.
1290.	0.2849E-00	18892.3	78.56	0.
1300.	0.2827E-00	19047.7	78.68	0.
1310.	0.2806E-00	19203.3	78.80	0.
1320.	0.2784E-00	19359.1	78.92	0.
1330.	0.2763E-00	19515.1	79.03	0.
1340.	0.2743E-00	19671.3	79.15	0.
1350.	0.2723E-00	19827.8	79.27	0.
1360.	0.2703E-00	19984.5	79.38	0.
1370.	0.2683E-00	20141.4	79.50	0.
1380.	0.2664E-00	20298.6	79.61	0.
1390.	0.2644E-00	20456.0	79.73	0.
1400.	0.2626E-00	20613.6	79.84	0.
1410.	0.2607E-00	20771.5	79.95	0.
1420.	0.2589E-00	20929.6	80.06	0.
1430.	0.2571E-00	21088.0	80.17	0.
1440.	0.2553E-00	21246.6	80.28	0.
1450.	0.2535E-00	21405.4	80.39	0.
1460.	0.2518E-00	21564.5	80.50	0.
1470.	0.2501E-00	21723.8	80.61	0.
1480.	0.2484E-00	21883.4	80.72	0.
1490.	0.2467E-00	22043.3	80.83	0.
1500.	0.2457E-00	22201.4	80.94	0.00000
1510.	0.2440E-00	22361.8	81.05	0.00000
1520.	0.2424E-00	22522.4	81.16	0.00000
1530.	0.2409E-00	22683.2	81.26	0.00000
1540.	0.2393E-00	22844.3	81.37	0.00000
1550.	0.2377E-00	23005.6	81.47	0.00000
1560.	0.2362E-00	23167.1	81.58	0.00000
1570.	0.2347E-00	23328.8	81.68	0.00001
1580.	0.2332E-00	23490.8	81.78	0.00001
1590.	0.2318E-00	23652.9	81.88	0.00001

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.2303E-00	23815.3	81.99	0.00001
1610.	0.2289E-00	23978.0	82.09	0.00001
1620.	0.2275E-00	24140.8	82.19	0.00001
1630.	0.2261E-00	24303.9	82.29	0.00001
1640.	0.2247E-00	24467.2	82.39	0.00001
1650.	0.2233E-00	24630.8	82.49	0.00001
1660.	0.2220E-00	24794.5	82.59	0.00001
1670.	0.2207E-00	24958.5	82.69	0.00001
1680.	0.2193E-00	25122.7	82.78	0.00002
1690.	0.2180E-00	25287.2	82.88	0.00002
1700.	0.2168E-00	25451.9	82.98	0.00002
1710.	0.2155E-00	25616.8	83.08	0.00002
1720.	0.2142E-00	25781.9	83.17	0.00002
1730.	0.2130E-00	25947.3	83.27	0.00003
1740.	0.2118E-00	26113.0	83.36	0.00003
1750.	0.2106E-00	26278.8	83.46	0.00003
1760.	0.2094E-00	26444.9	83.55	0.00003
1770.	0.2082E-00	26611.3	83.65	0.00004
1780.	0.2070E-00	26777.9	83.74	0.00004
1790.	0.2059E-00	26944.8	83.84	0.00004
1800.	0.2047E-00	27111.9	83.93	0.00005
1810.	0.2036E-00	27279.3	84.02	0.00005
1820.	0.2025E-00	27446.9	84.12	0.00005
1830.	0.2014E-00	27614.8	84.21	0.00006
1840.	0.2003E-00	27783.0	84.30	0.00006
1850.	0.1992E-00	27951.4	84.39	0.00007
1860.	0.1981E-00	28120.1	84.48	0.00008
1870.	0.1970E-00	28289.1	84.57	0.00008
1880.	0.1960E-00	28458.4	84.66	0.00009
1890.	0.1950E-00	28627.9	84.76	0.00009
1900.	0.1939E-00	28797.8	84.85	0.00010
1910.	0.1929E-00	28967.9	84.94	0.00011
1920.	0.1919E-00	29138.4	85.02	0.00012
1930.	0.1909E-00	29309.2	85.11	0.00013
1940.	0.1899E-00	29480.3	85.20	0.00014
1950.	0.1890E-00	29651.7	85.29	0.00015
1960.	0.1880E-00	29823.4	85.38	0.00016
1970.	0.1870E-00	29995.5	85.47	0.00017
1980.	0.1861E-00	30167.9	85.56	0.00018
1990.	0.1851E-00	30340.7	85.64	0.00020
2000.	0.1842E-00	30513.8	85.73	0.00021
2010.	0.1833E-00	30687.3	85.82	0.00022
2020.	0.1824E-00	30861.1	85.91	0.00024
2030.	0.1815E-00	31035.4	85.99	0.00026
2040.	0.1806E-00	31210.0	86.08	0.00027
2050.	0.1797E-00	31385.1	86.17	0.00029
2060.	0.1788E-00	31560.5	86.25	0.00031
2070.	0.1780E-00	31736.4	86.34	0.00033
2080.	0.1771E-00	31912.7	86.43	0.00035
2090.	0.1763E-00	32089.5	86.51	0.00038

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.1754E-00	32266.7	86.60	0.00040
2110.	0.1746E-00	32444.3	86.68	0.00043
2120.	0.1737E-00	32622.5	86.77	0.00045
2130.	0.1729E-00	32801.1	86.85	0.00048
2140.	0.1721E-00	32980.3	86.94	0.00051
2150.	0.1713E-00	33160.0	87.02	0.00054
2160.	0.1705E-00	33340.1	87.11	0.00058
2170.	0.1697E-00	33520.9	87.19	0.00061
2180.	0.1689E-00	33702.2	87.28	0.00065
2190.	0.1682E-00	33884.1	87.36	0.00069
2200.	0.1674E-00	34066.5	87.45	0.00073
2210.	0.1666E-00	34249.6	87.53	0.00077
2220.	0.1659E-00	34433.3	87.62	0.00081
2230.	0.1651E-00	34617.6	87.70	0.00086
2240.	0.1644E-00	34802.6	87.79	0.00091
2250.	0.1636E-00	34988.3	87.87	0.00096
2260.	0.1629E-00	35174.6	87.96	0.00101
2270.	0.1622E-00	35361.7	88.04	0.00107
2280.	0.1614E-00	35549.5	88.13	0.00112
2290.	0.1607E-00	35738.0	88.21	0.00118
2300.	0.1600E-00	35927.3	88.30	0.00125
2310.	0.1593E-00	36117.4	88.38	0.00131
2320.	0.1586E-00	36308.3	88.47	0.00138
2330.	0.1579E-00	36500.1	88.56	0.00146
2340.	0.1572E-00	36692.7	88.64	0.00153
2350.	0.1566E-00	36886.2	88.73	0.00161
2360.	0.1559E-00	37080.5	88.81	0.00169
2370.	0.1552E-00	37275.8	88.90	0.00177
2380.	0.1545E-00	37472.1	88.98	0.00186
2390.	0.1539E-00	37669.3	89.07	0.00196
2400.	0.1532E-00	37867.5	89.16	0.00205
2410.	0.1526E-00	38066.8	89.24	0.00215
2420.	0.1519E-00	38267.1	89.33	0.00225
2430.	0.1513E-00	38468.5	89.42	0.00236
2440.	0.1507E-00	38670.9	89.50	0.00247
2450.	0.1500E-00	38874.6	89.59	0.00259
2460.	0.1494E-00	39079.3	89.68	0.00271
2470.	0.1488E-00	39285.3	89.77	0.00284
2480.	0.1482E-00	39492.5	89.85	0.00297
2490.	0.1475E-00	39700.9	89.94	0.00310
2500.	0.1469E-00	39910.6	90.03	0.00324
2510.	0.1463E-00	40121.7	90.12	0.00339
2520.	0.1457E-00	40334.0	90.21	0.00354
2530.	0.1451E-00	40547.8	90.30	0.00369
2540.	0.1445E-00	40762.9	90.39	0.00386
2550.	0.1439E-00	40979.5	90.48	0.00402
2560.	0.1433E-00	41197.6	90.57	0.00420
2570.	0.1428E-00	41417.2	90.66	0.00437
2580.	0.1422E-00	41638.3	90.75	0.00456
2590.	0.1416E-00	41861.0	90.84	0.00475

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.1410E-00	42085.4	90.94	0.00495
2610.	0.1405E-00	42311.4	91.03	0.00515
2620.	0.1399E-00	42539.0	91.12	0.00537
2630.	0.1393E-00	42768.4	91.22	0.00558
2640.	0.1388E-00	42999.6	91.31	0.00581
2650.	0.1382E-00	43232.6	91.41	0.00604
2660.	0.1377E-00	43467.4	91.50	0.00628
2670.	0.1371E-00	43704.1	91.60	0.00653
2680.	0.1366E-00	43942.8	91.69	0.00679
2690.	0.1360E-00	44183.4	91.79	0.00705
2700.	0.1355E-00	44426.0	91.89	0.00733
2710.	0.1350E-00	44670.7	91.98	0.00761
2720.	0.1344E-00	44917.5	92.08	0.00790
2730.	0.1339E-00	45166.4	92.18	0.00820
2740.	0.1334E-00	45417.5	92.28	0.00850
2750.	0.1328E-00	45670.8	92.38	0.00882
2760.	0.1323E-00	45926.4	92.48	0.00915
2770.	0.1318E-00	46184.3	92.58	0.00948
2780.	0.1313E-00	46444.6	92.68	0.00983
2790.	0.1308E-00	46707.2	92.79	0.01018
2800.	0.1302E-00	46972.4	92.89	0.01055
2810.	0.1297E-00	47240.0	92.99	0.01092
2820.	0.1292E-00	47510.2	93.10	0.01131
2830.	0.1287E-00	47783.0	93.20	0.01171
2840.	0.1282E-00	48058.4	93.31	0.01212
2850.	0.1277E-00	48336.6	93.42	0.01254
2860.	0.1272E-00	48617.5	93.52	0.01297
2870.	0.1267E-00	48901.2	93.63	0.01341
2880.	0.1262E-00	49187.7	93.74	0.01387
2890.	0.1257E-00	49477.1	93.85	0.01434
2900.	0.1252E-00	49769.5	93.96	0.01482
2910.	0.1247E-00	50064.9	94.07	0.01531
2920.	0.1242E-00	50363.3	94.19	0.01581
2930.	0.1238E-00	50664.9	94.30	0.01633
2940.	0.1233E-00	50969.6	94.41	0.01686
2950.	0.1228E-00	51277.6	94.53	0.01741
2960.	0.1223E-00	51588.8	94.64	0.01797
2970.	0.1218E-00	51903.3	94.76	0.01854
2980.	0.1213E-00	52221.2	94.88	0.01913
2990.	0.1209E-00	52542.6	94.99	0.01973
3000.	0.1204E-00	52867.4	95.11	0.02035

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.3700E 01	1072.3	36.40	0.
110.	0.3350E 01	1214.1	37.76	0.
120.	0.3062E 01	1363.1	39.05	0.
130.	0.2821E 01	1518.1	40.29	0.
140.	0.2616E 01	1677.7	41.47	0.
150.	0.2440E 01	1840.3	42.60	0.
160.	0.2286E 01	2004.7	43.66	0.
170.	0.2150E 01	2169.6	44.66	0.
180.	0.2030E 01	2334.2	45.60	0.
190.	0.1923E 01	2497.9	46.48	0.
200.	0.1827E 01	2660.2	47.32	0.
210.	0.1740E 01	2821.0	48.10	0.
220.	0.1660E 01	2980.1	48.84	0.
230.	0.1588E 01	3137.6	49.54	0.
240.	0.1522E 01	3293.5	50.20	0.
250.	0.1461E 01	3447.9	50.83	0.
260.	0.1405E 01	3601.0	51.44	0.
270.	0.1353E 01	3753.0	52.01	0.
280.	0.1305E 01	3903.9	52.56	0.
290.	0.1260E 01	4053.8	53.08	0.
300.	0.1218E 01	4203.0	53.59	0.
310.	0.1179E 01	4351.6	54.08	0.
320.	0.1143E 01	4499.5	54.55	0.
330.	0.1108E 01	4647.0	55.00	0.
340.	0.1076E 01	4794.1	55.44	0.
350.	0.1045E 01	4940.8	55.86	0.
360.	0.1016E 01	5087.3	56.28	0.
370.	0.9888E 00	5233.5	56.68	0.
380.	0.9628E 00	5379.6	57.07	0.
390.	0.9383E 00	5525.5	57.45	0.
400.	0.9149E 00	5671.3	57.82	0.
410.	0.8927E 00	5817.0	58.18	0.
420.	0.8715E 00	5962.6	58.53	0.
430.	0.8513E 00	6108.2	58.87	0.
440.	0.8321E 00	6253.7	59.20	0.
450.	0.8137E 00	6399.2	59.53	0.
460.	0.7961E 00	6544.7	59.85	0.
470.	0.7792E 00	6690.1	60.16	0.
480.	0.7630E 00	6835.6	60.47	0.
490.	0.7475E 00	6981.0	60.77	0.
500.	0.7326E 00	7126.4	61.06	0.
510.	0.7183E 00	7271.8	61.35	0.
520.	0.7046E 00	7417.2	61.63	0.
530.	0.6913E 00	7562.6	61.91	0.
540.	0.6786E 00	7708.0	62.18	0.
550.	0.6663E 00	7853.4	62.45	0.
560.	0.6545E 00	7998.9	62.71	0.
570.	0.6430E 00	8144.3	62.97	0.
580.	0.6320E 00	8289.8	63.22	0.
590.	0.6213E 00	8435.3	63.47	0.

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.6110E 00	8580.2	66.03	0.
610.	0.6010E 00	8725.8	66.27	0.
620.	0.5914E 00	8871.3	66.51	0.
630.	0.5820E 00	9016.9	66.74	0.
640.	0.5730E 00	9162.6	66.97	0.
650.	0.5642E 00	9308.3	67.20	0.
660.	0.5557E 00	9454.0	67.42	0.
670.	0.5474E 00	9599.8	67.64	0.
680.	0.5394E 00	9745.7	67.86	0.
690.	0.5316E 00	9891.7	68.07	0.
700.	0.5240E 00	10037.8	68.28	0.
710.	0.5167E 00	10183.9	68.49	0.
720.	0.5095E 00	10330.1	68.69	0.
730.	0.5026E 00	10476.5	68.89	0.
740.	0.4958E-00	10622.9	69.09	0.
750.	0.4892E-00	10769.4	69.29	0.
760.	0.4828E-00	10916.1	69.48	0.
770.	0.4766E-00	11062.8	69.67	0.
780.	0.4705E-00	11209.7	69.86	0.
790.	0.4645E-00	11356.6	70.05	0.
800.	0.4587E-00	11503.7	70.24	0.
810.	0.4531E-00	11650.9	70.42	0.
820.	0.4476E-00	11798.2	70.60	0.
830.	0.4422E-00	11945.6	70.78	0.
840.	0.4370E-00	12093.2	70.95	0.
850.	0.4318E-00	12240.9	71.13	0.
860.	0.4268E-00	12388.7	71.30	0.
870.	0.4220E-00	12536.6	71.47	0.
880.	0.4172E-00	12684.7	71.64	0.
890.	0.4125E-00	12832.9	71.81	0.
900.	0.4079E-00	12981.2	71.98	0.
910.	0.4035E-00	13129.7	72.14	0.
920.	0.3991E-00	13278.3	72.30	0.
930.	0.3948E-00	13427.0	72.46	0.
940.	0.3906E-00	13575.9	72.62	0.
950.	0.3865E-00	13724.9	72.78	0.
960.	0.3825E-00	13874.1	72.94	0.
970.	0.3786E-00	14023.4	73.09	0.
980.	0.3747E-00	14172.9	73.24	0.
990.	0.3710E-00	14322.5	73.40	0.
1000.	0.3673E-00	14472.3	73.55	0.
1010.	0.3636E-00	14622.3	73.70	0.
1020.	0.3601E-00	14772.4	73.84	0.
1030.	0.3566E-00	14922.6	73.99	0.
1040.	0.3532E-00	15073.0	74.14	0.
1050.	0.3498E-00	15223.6	74.28	0.
1060.	0.3465E-00	15374.4	74.42	0.
1070.	0.3433E-00	15525.3	74.56	0.
1080.	0.3401E-00	15676.4	74.71	0.
1090.	0.3370E-00	15827.6	74.84	0.

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.3340E-00	15979.1	74.98	0.
1110.	0.3310E-00	16130.7	75.12	0.
1120.	0.3280E-00	16282.5	75.26	0.
1130.	0.3251E-00	16434.5	75.39	0.
1140.	0.3223E-00	16586.6	75.53	0.
1150.	0.3195E-00	16739.0	75.66	0.
1160.	0.3167E-00	16891.5	75.79	0.
1170.	0.3140E-00	17044.2	75.92	0.
1180.	0.3114E-00	17197.1	76.05	0.
1190.	0.3088E-00	17350.2	76.18	0.
1200.	0.3062E-00	17503.5	76.31	0.
1210.	0.3037E-00	17657.0	76.44	0.
1220.	0.3012E-00	17810.7	76.56	0.
1230.	0.2988E-00	17964.6	76.69	0.
1240.	0.2964E-00	18118.7	76.81	0.
1250.	0.2940E-00	18273.0	76.94	0.
1260.	0.2917E-00	18427.5	77.06	0.
1270.	0.2894E-00	18582.3	77.18	0.
1280.	0.2871E-00	18737.2	77.30	0.
1290.	0.2849E-00	18892.3	77.43	0.
1300.	0.2827E-00	19047.7	77.55	0.
1310.	0.2806E-00	19203.3	77.66	0.
1320.	0.2784E-00	19359.1	77.78	0.
1330.	0.2763E-00	19515.1	77.90	0.
1340.	0.2743E-00	19671.3	78.02	0.
1350.	0.2723E-00	19827.8	78.13	0.
1360.	0.2703E-00	19984.5	78.25	0.
1370.	0.2683E-00	20141.4	78.36	0.
1380.	0.2664E-00	20298.6	78.48	0.
1390.	0.2644E-00	20456.0	78.59	0.
1400.	0.2626E-00	20613.6	78.71	0.
1410.	0.2607E-00	20771.5	78.82	0.
1420.	0.2589E-00	20929.6	78.93	0.
1430.	0.2571E-00	21088.0	79.04	0.
1440.	0.2553E-00	21246.6	79.15	0.
1450.	0.2535E-00	21405.4	79.26	0.
1460.	0.2518E-00	21564.5	79.37	0.
1470.	0.2501E-00	21723.8	79.48	0.
1480.	0.2484E-00	21883.4	79.59	0.
1490.	0.2467E-00	22043.3	79.70	0.
1500.	0.2457E-00	22201.4	79.81	0.00000
1510.	0.2440E-00	22361.8	79.92	0.00000
1520.	0.2424E-00	22522.4	80.02	0.00000
1530.	0.2409E-00	22683.2	80.13	0.00000
1540.	0.2393E-00	22844.3	80.23	0.00000
1550.	0.2377E-00	23005.6	80.34	0.00000
1560.	0.2362E-00	23167.1	80.44	0.00000
1570.	0.2347E-00	23328.8	80.55	0.00001
1580.	0.2332E-00	23490.8	80.65	0.00001
1590.	0.2318E-00	23652.9	80.75	0.00001

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.2303E-00	23815.3	80.85	0.00001
1610.	0.2289E-00	23978.0	80.96	0.00001
1620.	0.2275E-00	24140.8	81.06	0.00001
1630.	0.2261E-00	24303.9	81.16	0.00001
1640.	0.2247E-00	24467.2	81.26	0.00001
1650.	0.2233E-00	24630.8	81.36	0.00001
1660.	0.2220E-00	24794.5	81.46	0.00001
1670.	0.2207E-00	24958.5	81.55	0.00001
1680.	0.2193E-00	25122.7	81.65	0.00002
1690.	0.2180E-00	25287.2	81.75	0.00002
1700.	0.2168E-00	25451.9	81.85	0.00002
1710.	0.2155E-00	25616.8	81.94	0.00002
1720.	0.2142E-00	25781.9	82.04	0.00002
1730.	0.2130E-00	25947.3	82.14	0.00003
1740.	0.2118E-00	26113.0	82.23	0.00003
1750.	0.2106E-00	26278.8	82.33	0.00003
1760.	0.2094E-00	26444.9	82.42	0.00003
1770.	0.2082E-00	26611.3	82.52	0.00004
1780.	0.2070E-00	26777.9	82.61	0.00004
1790.	0.2059E-00	26944.8	82.70	0.00004
1800.	0.2047E-00	27111.9	82.80	0.00005
1810.	0.2036E-00	27279.3	82.89	0.00005
1820.	0.2025E-00	27446.9	82.98	0.00005
1830.	0.2014E-00	27614.8	83.08	0.00006
1840.	0.2003E-00	27783.0	83.17	0.00006
1850.	0.1992E-00	27951.4	83.26	0.00007
1860.	0.1981E-00	28120.1	83.35	0.00008
1870.	0.1970E-00	28289.1	83.44	0.00008
1880.	0.1960E-00	28458.4	83.53	0.00009
1890.	0.1950E-00	28627.9	83.62	0.00009
1900.	0.1939E-00	28797.8	83.71	0.00010
1910.	0.1929E-00	28967.9	83.80	0.00011
1920.	0.1919E-00	29138.4	83.89	0.00012
1930.	0.1909E-00	29309.2	83.98	0.00013
1940.	0.1899E-00	29480.3	84.07	0.00014
1950.	0.1890E-00	29651.7	84.16	0.00015
1960.	0.1880E-00	29823.4	84.25	0.00016
1970.	0.1870E-00	29995.5	84.34	0.00017
1980.	0.1861E-00	30167.9	84.42	0.00018
1990.	0.1851E-00	30340.7	84.51	0.00020
2000.	0.1842E-00	30513.8	84.60	0.00021
2010.	0.1833E-00	30687.3	84.69	0.00022
2020.	0.1824E-00	30861.1	84.77	0.00024
2030.	0.1815E-00	31035.4	84.86	0.00026
2040.	0.1806E-00	31210.0	84.95	0.00027
2050.	0.1797E-00	31385.1	85.03	0.00029
2060.	0.1788E-00	31560.5	85.12	0.00031
2070.	0.1780E-00	31736.4	85.21	0.00033
2080.	0.1771E-00	31912.7	85.29	0.00035
2090.	0.1763E-00	32089.5	85.38	0.00038

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.1754E-00	32266.7	85.46	0.00040
2110.	0.1746E-00	32444.3	85.55	0.00043
2120.	0.1737E-00	32622.5	85.64	0.00045
2130.	0.1729E-00	32801.1	85.72	0.00048
2140.	0.1721E-00	32980.3	85.81	0.00051
2150.	0.1713E-00	33160.0	85.89	0.00054
2160.	0.1705E-00	33340.1	85.98	0.00058
2170.	0.1697E-00	33520.9	86.06	0.00061
2180.	0.1689E-00	33702.2	86.15	0.00065
2190.	0.1682E-00	33884.1	86.23	0.00069
2200.	0.1674E-00	34066.5	86.32	0.00073
2210.	0.1666E-00	34249.6	86.40	0.00077
2220.	0.1659E-00	34433.3	86.49	0.00081
2230.	0.1651E-00	34617.6	86.57	0.00086
2240.	0.1644E-00	34802.6	86.66	0.00091
2250.	0.1636E-00	34988.3	86.74	0.00096
2260.	0.1629E-00	35174.6	86.83	0.00101
2270.	0.1622E-00	35361.7	86.91	0.00107
2280.	0.1614E-00	35549.5	87.00	0.00112
2290.	0.1607E-00	35738.0	87.08	0.00118
2300.	0.1600E-00	35927.3	87.17	0.00125
2310.	0.1593E-00	36117.4	87.25	0.00131
2320.	0.1586E-00	36308.3	87.34	0.00138
2330.	0.1579E-00	36500.1	87.42	0.00146
2340.	0.1572E-00	36692.7	87.51	0.00153
2350.	0.1566E-00	36886.2	87.59	0.00161
2360.	0.1559E-00	37080.5	87.68	0.00169
2370.	0.1552E-00	37275.8	87.76	0.00177
2380.	0.1545E-00	37472.1	87.85	0.00186
2390.	0.1539E-00	37669.3	87.94	0.00196
2400.	0.1532E-00	37867.5	88.02	0.00205
2410.	0.1526E-00	38066.8	88.11	0.00215
2420.	0.1519E-00	38267.1	88.20	0.00225
2430.	0.1513E-00	38468.5	88.28	0.00236
2440.	0.1507E-00	38670.9	88.37	0.00247
2450.	0.1500E-00	38874.6	88.46	0.00259
2460.	0.1494E-00	39079.3	88.55	0.00271
2470.	0.1488E-00	39285.3	88.63	0.00284
2480.	0.1482E-00	39492.5	88.72	0.00297
2490.	0.1475E-00	39700.9	88.81	0.00310
2500.	0.1469E-00	39910.6	88.90	0.00324
2510.	0.1463E-00	40121.7	88.99	0.00339
2520.	0.1457E-00	40334.0	89.08	0.00354
2530.	0.1451E-00	40547.8	89.17	0.00369
2540.	0.1445E-00	40762.9	89.26	0.00386
2550.	0.1439E-00	40979.5	89.35	0.00402
2560.	0.1433E-00	41197.6	89.44	0.00420
2570.	0.1428E-00	41417.2	89.53	0.00437
2580.	0.1422E-00	41638.3	89.62	0.00456
2590.	0.1416E-00	41861.0	89.71	0.00475

PRESSURE 15. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.1410E-00	42085.4	89.80	0.00495
2610.	0.1405E-00	42311.4	89.90	0.00515
2620.	0.1399E-00	42539.0	89.99	0.00537
2630.	0.1393E-00	42768.4	90.08	0.00558
2640.	0.1388E-00	42999.6	90.18	0.00581
2650.	0.1382E-00	43232.6	90.27	0.00604
2660.	0.1377E-00	43467.4	90.37	0.00628
2670.	0.1371E-00	43704.1	90.46	0.00653
2680.	0.1366E-00	43942.8	90.56	0.00679
2690.	0.1360E-00	44183.4	90.66	0.00705
2700.	0.1355E-00	44426.0	90.75	0.00733
2710.	0.1350E-00	44670.7	90.85	0.00761
2720.	0.1344E-00	44917.5	90.95	0.00790
2730.	0.1339E-00	45166.4	91.05	0.00820
2740.	0.1334E-00	45417.5	91.15	0.00850
2750.	0.1328E-00	45670.8	91.25	0.00882
2760.	0.1323E-00	45926.4	91.35	0.00915
2770.	0.1318E-00	46184.3	91.45	0.00948
2780.	0.1313E-00	46444.6	91.55	0.00983
2790.	0.1308E-00	46707.2	91.65	0.01018
2800.	0.1302E-00	46972.4	91.76	0.01055
2810.	0.1297E-00	47240.0	91.86	0.01092
2820.	0.1292E-00	47510.2	91.97	0.01131
2830.	0.1287E-00	47783.0	92.07	0.01171
2840.	0.1282E-00	48058.4	92.18	0.01212
2850.	0.1277E-00	48336.6	92.28	0.01254
2860.	0.1272E-00	48617.5	92.39	0.01297
2870.	0.1267E-00	48901.2	92.50	0.01341
2880.	0.1262E-00	49187.7	92.61	0.01387
2890.	0.1257E-00	49477.1	92.72	0.01434
2900.	0.1252E-00	49769.5	92.83	0.01482
2910.	0.1247E-00	50064.9	92.94	0.01531
2920.	0.1242E-00	50363.3	93.05	0.01581
2930.	0.1238E-00	50664.9	93.17	0.01633
2940.	0.1233E-00	50969.6	93.28	0.01686
2950.	0.1228E-00	51277.6	93.39	0.01741
2960.	0.1223E-00	51588.8	93.51	0.01797
2970.	0.1218E-00	51903.3	93.63	0.01854
2980.	0.1213E-00	52221.2	93.74	0.01913
2990.	0.1209E-00	52542.6	93.86	0.01973
3000.	0.1204E-00	52867.4	93.98	0.02035

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.4934E 01	1547.3	43.73	0.
110.	0.4462E 01	1665.5	44.85	0.
120.	0.4076E 01	1785.7	45.90	0.
130.	0.3754E 01	1908.4	46.88	0.
140.	0.3480E 01	2033.3	47.80	0.
150.	0.3244E 01	2160.3	48.68	0.
160.	0.3039E 01	2289.5	49.51	0.
170.	0.2858E 01	2420.5	50.31	0.
180.	0.2699E 01	2553.3	51.07	0.
190.	0.2556E 01	2687.6	51.79	0.
200.	0.2428E 01	2823.4	52.49	0.
210.	0.2312E 01	2960.5	53.16	0.
220.	0.2207E 01	3098.7	53.80	0.
230.	0.2111E 01	3237.9	54.42	0.
240.	0.2023E 01	3377.9	55.02	0.
250.	0.1943E 01	3518.8	55.59	0.
260.	0.1868E 01	3660.4	56.15	0.
270.	0.1799E 01	3802.5	56.68	0.
280.	0.1735E 01	3945.2	57.20	0.
290.	0.1676E 01	4088.3	57.70	0.
300.	0.1620E 01	4231.7	58.19	0.
310.	0.1568E 01	4375.5	58.66	0.
320.	0.1519E 01	4519.5	59.12	0.
330.	0.1474E 01	4663.8	59.56	0.
340.	0.1430E 01	4808.2	59.99	0.
350.	0.1390E 01	4952.8	60.41	0.
360.	0.1351E 01	5097.5	60.82	0.
370.	0.1315E 01	5242.3	61.22	0.
380.	0.1281E 01	5387.2	61.60	0.
390.	0.1248E 01	5532.1	61.98	0.
400.	0.1217E 01	5677.1	62.35	0.
410.	0.1187E 01	5822.1	62.71	0.
420.	0.1159E 01	5967.2	63.06	0.
430.	0.1133E 01	6112.3	63.40	0.
440.	0.1107E 01	6257.5	63.73	0.
450.	0.1083E 01	6402.6	64.06	0.
460.	0.1059E 01	6547.8	64.38	0.
470.	0.1037E 01	6693.1	64.69	0.
480.	0.1015E 01	6838.3	64.99	0.
490.	0.9947E 00	6983.6	65.29	0.
500.	0.9749E 00	7129.0	65.59	0.
510.	0.9559E 00	7274.3	65.88	0.
520.	0.9376E 00	7419.7	66.16	0.
530.	0.9200E 00	7565.2	66.43	0.
540.	0.9031E 00	7710.7	66.71	0.
550.	0.8867E 00	7856.2	66.97	0.
560.	0.8710E 00	8001.7	67.24	0.
570.	0.8558E 00	8147.3	67.49	0.
580.	0.8411E 00	8292.9	67.75	0.
590.	0.8269E 00	8438.5	68.00	0.

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.8132E 00	8583.6	68.24	0.
610.	0.8000E 00	8729.2	68.48	0.
620.	0.7871E 00	8874.8	68.72	0.
630.	0.7747E 00	9020.4	68.95	0.
640.	0.7627E 00	9166.1	69.18	0.
650.	0.7510E 00	9311.8	69.41	0.
660.	0.7397E 00	9457.6	69.63	0.
670.	0.7287E 00	9603.4	69.85	0.
680.	0.7180E 00	9749.3	70.07	0.
690.	0.7077E 00	9895.3	70.28	0.
700.	0.6976E 00	10041.4	70.49	0.
710.	0.6878E 00	10187.6	70.70	0.
720.	0.6783E 00	10333.8	70.90	0.
730.	0.6691E 00	10480.2	71.10	0.
740.	0.6601E 00	10626.6	71.30	0.
750.	0.6513E 00	10773.2	71.50	0.
760.	0.6428E 00	10919.8	71.69	0.
770.	0.6345E 00	11066.6	71.88	0.
780.	0.6264E 00	11213.5	72.07	0.
790.	0.6185E 00	11360.4	72.26	0.
800.	0.6108E 00	11507.5	72.45	0.
810.	0.6033E 00	11654.7	72.63	0.
820.	0.5960E 00	11802.1	72.81	0.
830.	0.5888E 00	11949.5	72.99	0.
840.	0.5819E 00	12097.1	73.17	0.
850.	0.5750E 00	12244.8	73.34	0.
860.	0.5684E 00	12392.6	73.51	0.
870.	0.5619E 00	12540.6	73.68	0.
880.	0.5555E 00	12688.6	73.85	0.
890.	0.5493E 00	12836.9	74.02	0.
900.	0.5432E 00	12985.2	74.19	0.
910.	0.5373E 00	13133.7	74.35	0.
920.	0.5315E 00	13282.3	74.51	0.
930.	0.5258E 00	13431.1	74.67	0.
940.	0.5202E 00	13580.0	74.83	0.
950.	0.5148E 00	13729.0	74.99	0.
960.	0.5094E 00	13878.2	75.15	0.
970.	0.5042E 00	14027.5	75.30	0.
980.	0.4991E-00	14177.0	75.46	0.
990.	0.4940E-00	14326.7	75.61	0.
1000.	0.4891E-00	14476.4	75.76	0.
1010.	0.4843E-00	14626.4	75.91	0.
1020.	0.4796E-00	14776.5	76.05	0.
1030.	0.4749E-00	14926.8	76.20	0.
1040.	0.4704E-00	15077.2	76.35	0.
1050.	0.4659E-00	15227.8	76.49	0.
1060.	0.4615E-00	15378.6	76.63	0.
1070.	0.4572E-00	15529.5	76.78	0.
1080.	0.4530E-00	15680.6	76.92	0.
1090.	0.4489E-00	15831.9	77.06	0.

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.4448E-00	15983.3	77.19	0.
1110.	0.4408E-00	16134.9	77.33	0.
1120.	0.4369E-00	16286.7	77.47	0.
1130.	0.4331E-00	16438.7	77.60	0.
1140.	0.4293E-00	16590.9	77.74	0.
1150.	0.4255E-00	16743.2	77.87	0.
1160.	0.4219E-00	16895.8	78.00	0.
1170.	0.4183E-00	17048.5	78.13	0.
1180.	0.4148E-00	17201.4	78.26	0.
1190.	0.4113E-00	17354.5	78.39	0.
1200.	0.4079E-00	17507.8	78.52	0.
1210.	0.4045E-00	17661.3	78.65	0.
1220.	0.4012E-00	17815.0	78.77	0.
1230.	0.3980E-00	17968.9	78.90	0.
1240.	0.3948E-00	18123.1	79.02	0.
1250.	0.3916E-00	18277.4	79.15	0.
1260.	0.3885E-00	18431.9	79.27	0.
1270.	0.3855E-00	18586.6	79.39	0.
1280.	0.3825E-00	18741.6	79.52	0.
1290.	0.3795E-00	18896.7	79.64	0.
1300.	0.3766E-00	19052.1	79.76	0.
1310.	0.3737E-00	19207.7	79.88	0.
1320.	0.3709E-00	19363.5	79.99	0.
1330.	0.3681E-00	19519.5	80.11	0.
1340.	0.3654E-00	19675.8	80.23	0.
1350.	0.3627E-00	19832.2	80.35	0.
1360.	0.3600E-00	19988.9	80.46	0.
1370.	0.3574E-00	20145.9	80.58	0.
1380.	0.3548E-00	20303.0	80.69	0.
1390.	0.3523E-00	20460.4	80.80	0.
1400.	0.3498E-00	20618.1	80.92	0.
1410.	0.3473E-00	20775.9	81.03	0.
1420.	0.3449E-00	20934.1	81.14	0.
1430.	0.3425E-00	21092.4	81.25	0.
1440.	0.3401E-00	21251.0	81.36	0.
1450.	0.3378E-00	21409.9	81.47	0.
1460.	0.3355E-00	21569.0	81.58	0.
1470.	0.3332E-00	21728.3	81.69	0.
1480.	0.3309E-00	21887.9	81.80	0.
1490.	0.3287E-00	22047.8	81.91	0.
1500.	0.3276E-00	22201.3	82.02	0.00000
1510.	0.3254E-00	22361.7	82.13	0.00000
1520.	0.3233E-00	22522.3	82.24	0.00000
1530.	0.3211E-00	22683.1	82.34	0.00000
1540.	0.3191E-00	22844.2	82.45	0.00000
1550.	0.3170E-00	23005.4	82.55	0.00000
1560.	0.3150E-00	23166.9	82.65	0.00000
1570.	0.3130E-00	23328.7	82.76	0.00000
1580.	0.3110E-00	23490.6	82.86	0.00000
1590.	0.3090E-00	23652.8	82.96	0.00001

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.3071E-00	23815.1	83.07	0.00001
1610.	0.3052E-00	23977.7	83.17	0.00001
1620.	0.3033E-00	24140.6	83.27	0.00001
1630.	0.3014E-00	24303.6	83.37	0.00001
1640.	0.2996E-00	24466.9	83.47	0.00001
1650.	0.2978E-00	24630.4	83.57	0.00001
1660.	0.2960E-00	24794.1	83.67	0.00001
1670.	0.2942E-00	24958.1	83.76	0.00001
1680.	0.2925E-00	25122.3	83.86	0.00001
1690.	0.2907E-00	25286.7	83.96	0.00001
1700.	0.2890E-00	25451.3	84.06	0.00002
1710.	0.2873E-00	25616.2	84.15	0.00002
1720.	0.2857E-00	25781.2	84.25	0.00002
1730.	0.2840E-00	25946.6	84.35	0.00002
1740.	0.2824E-00	26112.1	84.44	0.00002
1750.	0.2808E-00	26277.9	84.54	0.00003
1760.	0.2792E-00	26444.0	84.63	0.00003
1770.	0.2776E-00	26610.2	84.73	0.00003
1780.	0.2760E-00	26776.7	84.82	0.00003
1790.	0.2745E-00	26943.5	84.91	0.00004
1800.	0.2730E-00	27110.5	85.01	0.00004
1810.	0.2715E-00	27277.8	85.10	0.00004
1820.	0.2700E-00	27445.3	85.19	0.00005
1830.	0.2685E-00	27613.0	85.29	0.00005
1840.	0.2670E-00	27781.0	85.38	0.00006
1850.	0.2656E-00	27949.3	85.47	0.00006
1860.	0.2641E-00	28117.8	85.56	0.00007
1870.	0.2627E-00	28286.7	85.65	0.00007
1880.	0.2613E-00	28455.7	85.74	0.00008
1890.	0.2600E-00	28625.1	85.83	0.00008
1900.	0.2586E-00	28794.7	85.92	0.00009
1910.	0.2572E-00	28964.6	86.01	0.00010
1920.	0.2559E-00	29134.8	86.10	0.00010
1930.	0.2546E-00	29305.3	86.19	0.00011
1940.	0.2532E-00	29476.1	86.28	0.00012
1950.	0.2519E-00	29647.2	86.37	0.00013
1960.	0.2507E-00	29818.6	86.46	0.00014
1970.	0.2494E-00	29990.3	86.54	0.00015
1980.	0.2481E-00	30162.4	86.63	0.00016
1990.	0.2469E-00	30334.7	86.72	0.00017
2000.	0.2456E-00	30507.5	86.81	0.00018
2010.	0.2444E-00	30680.5	86.89	0.00019
2020.	0.2432E-00	30853.9	86.98	0.00021
2030.	0.2420E-00	31027.6	87.07	0.00022
2040.	0.2408E-00	31201.7	87.15	0.00024
2050.	0.2396E-00	31376.2	87.24	0.00025
2060.	0.2385E-00	31551.1	87.32	0.00027
2070.	0.2373E-00	31726.4	87.41	0.00029
2080.	0.2362E-00	31902.0	87.50	0.00031
2090.	0.2350E-00	32078.1	87.58	0.00033

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.2339E-00	32254.5	87.67	0.00035
2110.	0.2328E-00	32431.4	87.75	0.00037
2120.	0.2317E-00	32608.8	87.84	0.00039
2130.	0.2306E-00	32786.6	87.92	0.00042
2140.	0.2295E-00	32964.8	88.01	0.00044
2150.	0.2284E-00	33143.5	88.09	0.00047
2160.	0.2274E-00	33322.7	88.18	0.00050
2170.	0.2263E-00	33502.4	88.26	0.00053
2180.	0.2253E-00	33682.6	88.34	0.00056
2190.	0.2242E-00	33863.3	88.43	0.00059
2200.	0.2232E-00	34044.6	88.51	0.00063
2210.	0.2222E-00	34226.4	88.60	0.00067
2220.	0.2212E-00	34408.7	88.68	0.00070
2230.	0.2202E-00	34591.6	88.77	0.00074
2240.	0.2192E-00	34775.2	88.85	0.00079
2250.	0.2182E-00	34959.3	88.93	0.00083
2260.	0.2172E-00	35144.0	89.02	0.00088
2270.	0.2163E-00	35329.4	89.10	0.00092
2280.	0.2153E-00	35515.4	89.19	0.00097
2290.	0.2143E-00	35702.1	89.27	0.00103
2300.	0.2134E-00	35889.5	89.35	0.00108
2310.	0.2125E-00	36077.6	89.44	0.00114
2320.	0.2115E-00	36266.4	89.52	0.00120
2330.	0.2106E-00	36456.0	89.61	0.00126
2340.	0.2097E-00	36646.3	89.69	0.00133
2350.	0.2088E-00	36837.4	89.77	0.00139
2360.	0.2079E-00	37029.3	89.86	0.00146
2370.	0.2070E-00	37222.0	89.94	0.00154
2380.	0.2061E-00	37415.6	90.03	0.00161
2390.	0.2052E-00	37610.0	90.11	0.00169
2400.	0.2044E-00	37805.3	90.20	0.00178
2410.	0.2035E-00	38001.5	90.28	0.00186
2420.	0.2026E-00	38198.7	90.37	0.00195
2430.	0.2018E-00	38396.8	90.45	0.00205
2440.	0.2009E-00	38595.9	90.54	0.00214
2450.	0.2001E-00	38795.9	90.62	0.00224
2460.	0.1993E-00	38997.0	90.71	0.00235
2470.	0.1984E-00	39199.2	90.79	0.00246
2480.	0.1976E-00	39402.4	90.88	0.00257
2490.	0.1968E-00	39606.7	90.97	0.00269
2500.	0.1960E-00	39812.2	91.05	0.00281
2510.	0.1952E-00	40018.8	91.14	0.00293
2520.	0.1944E-00	40226.6	91.23	0.00306
2530.	0.1936E-00	40435.6	91.31	0.00320
2540.	0.1928E-00	40645.8	91.40	0.00334
2550.	0.1920E-00	40857.3	91.49	0.00348
2560.	0.1912E-00	41070.1	91.58	0.00363
2570.	0.1905E-00	41284.2	91.67	0.00379
2580.	0.1897E-00	41499.7	91.75	0.00395
2590.	0.1889E-00	41716.6	91.84	0.00411

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.1882E-00	41934.9	91.93	0.00429
2610.	0.1874E-00	42154.6	92.02	0.00446
2620.	0.1867E-00	42375.8	92.11	0.00465
2630.	0.1859E-00	42598.6	92.20	0.00484
2640.	0.1852E-00	42822.9	92.29	0.00503
2650.	0.1844E-00	43048.7	92.39	0.00523
2660.	0.1837E-00	43276.2	92.48	0.00544
2670.	0.1830E-00	43505.3	92.57	0.00566
2680.	0.1823E-00	43736.2	92.66	0.00588
2690.	0.1815E-00	43968.7	92.75	0.00611
2700.	0.1808E-00	44203.0	92.85	0.00634
2710.	0.1801E-00	44439.1	92.94	0.00659
2720.	0.1794E-00	44677.0	93.04	0.00684
2730.	0.1787E-00	44916.8	93.13	0.00710
2740.	0.1780E-00	45158.5	93.23	0.00736
2750.	0.1773E-00	45402.2	93.32	0.00764
2760.	0.1766E-00	45647.8	93.42	0.00792
2770.	0.1759E-00	45895.5	93.52	0.00821
2780.	0.1753E-00	46145.2	93.61	0.00851
2790.	0.1746E-00	46397.0	93.71	0.00882
2800.	0.1739E-00	46650.9	93.81	0.00914
2810.	0.1732E-00	46907.1	93.91	0.00946
2820.	0.1725E-00	47165.5	94.01	0.00980
2830.	0.1719E-00	47426.1	94.11	0.01014
2840.	0.1712E-00	47689.0	94.21	0.01049
2850.	0.1706E-00	47954.3	94.31	0.01086
2860.	0.1699E-00	48222.0	94.41	0.01123
2870.	0.1692E-00	48492.1	94.52	0.01162
2880.	0.1686E-00	48764.8	94.62	0.01201
2890.	0.1679E-00	49039.9	94.72	0.01242
2900.	0.1673E-00	49317.6	94.83	0.01283
2910.	0.1666E-00	49597.9	94.93	0.01326
2920.	0.1660E-00	49880.9	95.04	0.01370
2930.	0.1654E-00	50166.6	95.15	0.01414
2940.	0.1647E-00	50455.1	95.25	0.01461
2950.	0.1641E-00	50746.3	95.36	0.01508
2960.	0.1635E-00	51040.4	95.47	0.01556
2970.	0.1628E-00	51337.4	95.58	0.01606
2980.	0.1622E-00	51637.4	95.69	0.01657
2990.	0.1616E-00	51940.3	95.80	0.01709
3000.	0.1609E-00	52246.3	95.91	0.01762

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.4934E 01	1386.8	42.18	0.
110.	0.4462E 01	1513.2	43.39	0.
120.	0.4076E 01	1643.4	44.52	0.
130.	0.3754E 01	1777.1	45.59	0.
140.	0.3480E 01	1913.8	46.60	0.
150.	0.3244E 01	2052.9	47.56	0.
160.	0.3039E 01	2193.9	48.47	0.
170.	0.2858E 01	2336.4	49.34	0.
180.	0.2699E 01	2479.9	50.16	0.
190.	0.2556E 01	2624.1	50.94	0.
200.	0.2428E 01	2768.9	51.68	0.
210.	0.2312E 01	2913.9	52.39	0.
220.	0.2207E 01	3059.2	53.06	0.
230.	0.2111E 01	3204.5	53.71	0.
240.	0.2023E 01	3350.0	54.33	0.
250.	0.1943E 01	3495.4	54.92	0.
260.	0.1868E 01	3640.9	55.49	0.
270.	0.1799E 01	3786.4	56.04	0.
280.	0.1735E 01	3931.8	56.57	0.
290.	0.1676E 01	4077.2	57.08	0.
300.	0.1620E 01	4222.7	57.57	0.
310.	0.1568E 01	4368.1	58.05	0.
320.	0.1519E 01	4513.4	58.51	0.
330.	0.1474E 01	4658.8	58.96	0.
340.	0.1430E 01	4804.1	59.39	0.
350.	0.1390E 01	4949.5	59.81	0.
360.	0.1351E 01	5094.8	60.22	0.
370.	0.1315E 01	5240.1	60.62	0.
380.	0.1281E 01	5385.4	61.01	0.
390.	0.1248E 01	5530.7	61.39	0.
400.	0.1217E 01	5676.0	61.75	0.
410.	0.1187E 01	5821.2	62.11	0.
420.	0.1159E 01	5966.5	62.46	0.
430.	0.1133E 01	6111.8	62.80	0.
440.	0.1107E 01	6257.1	63.14	0.
450.	0.1083E 01	6402.4	63.46	0.
460.	0.1059E 01	6547.7	63.78	0.
470.	0.1037E 01	6693.0	64.10	0.
480.	0.1015E 01	6838.4	64.40	0.
490.	0.9947E 00	6983.7	64.70	0.
500.	0.9749E 00	7129.1	65.00	0.
510.	0.9559E 00	7274.5	65.28	0.
520.	0.9376E 00	7419.9	65.57	0.
530.	0.9200E 00	7565.4	65.84	0.
540.	0.9031E 00	7710.8	66.11	0.
550.	0.8867E 00	7856.3	66.38	0.
560.	0.8710E 00	8001.8	66.64	0.
570.	0.8558E 00	8147.4	66.90	0.
580.	0.8411E 00	8292.9	67.15	0.
590.	0.8269E 00	8438.5	67.40	0.

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.8132E 00	8583.6	67.11	0.
610.	0.8000E 00	8729.2	67.35	0.
620.	0.7871E 00	8874.8	67.59	0.
630.	0.7747E 00	9020.4	67.82	0.
640.	0.7627E 00	9166.1	68.05	0.
650.	0.7510E 00	9311.8	68.27	0.
660.	0.7397E 00	9457.6	68.50	0.
670.	0.7287E 00	9603.4	68.72	0.
680.	0.7180E 00	9749.3	68.93	0.
690.	0.7077E 00	9895.3	69.15	0.
700.	0.6976E 00	10041.4	69.36	0.
710.	0.6878E 00	10187.6	69.56	0.
720.	0.6783E 00	10333.8	69.77	0.
730.	0.6691E 00	10480.2	69.97	0.
740.	0.6601E 00	10626.6	70.17	0.
750.	0.6513E 00	10773.2	70.37	0.
760.	0.6428E 00	10919.8	70.56	0.
770.	0.6345E 00	11066.6	70.75	0.
780.	0.6264E 00	11213.5	70.94	0.
790.	0.6185E 00	11360.4	71.13	0.
800.	0.6108E 00	11507.5	71.31	0.
810.	0.6033E 00	11654.7	71.50	0.
820.	0.5960E 00	11802.1	71.68	0.
830.	0.5888E 00	11949.5	71.86	0.
840.	0.5819E 00	12097.1	72.03	0.
850.	0.5750E 00	12244.8	72.21	0.
860.	0.5684E 00	12392.6	72.38	0.
870.	0.5619E 00	12540.6	72.55	0.
880.	0.5555E 00	12688.6	72.72	0.
890.	0.5493E 00	12836.9	72.89	0.
900.	0.5432E 00	12985.2	73.05	0.
910.	0.5373E 00	13133.7	73.22	0.
920.	0.5315E 00	13282.3	73.38	0.
930.	0.5258E 00	13431.1	73.54	0.
940.	0.5202E 00	13580.0	73.70	0.
950.	0.5148E 00	13729.0	73.86	0.
960.	0.5094E 00	13878.2	74.01	0.
970.	0.5042E 00	14027.5	74.17	0.
980.	0.4991E-00	14177.0	74.32	0.
990.	0.4940E-00	14326.7	74.47	0.
1000.	0.4891E-00	14476.4	74.63	0.
1010.	0.4843E-00	14626.4	74.77	0.
1020.	0.4796E-00	14776.5	74.92	0.
1030.	0.4749E-00	14926.8	75.07	0.
1040.	0.4704E-00	15077.2	75.21	0.
1050.	0.4659E-00	15227.8	75.36	0.
1060.	0.4615E-00	15378.6	75.50	0.
1070.	0.4572E-00	15529.5	75.64	0.
1080.	0.4530E-00	15680.6	75.78	0.
1090.	0.4489E-00	15831.9	75.92	0.

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.4448E-00	15983.3	76.06	0.
1110.	0.4408E-00	16134.9	76.20	0.
1120.	0.4369E-00	16286.7	76.33	0.
1130.	0.4331E-00	16438.7	76.47	0.
1140.	0.4293E-00	16590.9	76.60	0.
1150.	0.4255E-00	16743.2	76.74	0.
1160.	0.4219E-00	16895.8	76.87	0.
1170.	0.4183E-00	17048.5	77.00	0.
1180.	0.4148E-00	17201.4	77.13	0.
1190.	0.4113E-00	17354.5	77.26	0.
1200.	0.4079E-00	17507.8	77.39	0.
1210.	0.4045E-00	17661.3	77.52	0.
1220.	0.4012E-00	17815.0	77.64	0.
1230.	0.3980E-00	17968.9	77.77	0.
1240.	0.3948E-00	18123.1	77.89	0.
1250.	0.3916E-00	18277.4	78.02	0.
1260.	0.3885E-00	18431.9	78.14	0.
1270.	0.3855E-00	18586.6	78.26	0.
1280.	0.3825E-00	18741.6	78.38	0.
1290.	0.3795E-00	18896.7	78.50	0.
1300.	0.3766E-00	19052.1	78.62	0.
1310.	0.3737E-00	19207.7	78.74	0.
1320.	0.3709E-00	19363.5	78.86	0.
1330.	0.3681E-00	19519.5	78.98	0.
1340.	0.3654E-00	19675.8	79.10	0.
1350.	0.3627E-00	19832.2	79.21	0.
1360.	0.3600E-00	19988.9	79.33	0.
1370.	0.3574E-00	20145.9	79.44	0.
1380.	0.3548E-00	20303.0	79.56	0.
1390.	0.3523E-00	20460.4	79.67	0.
1400.	0.3498E-00	20618.1	79.78	0.
1410.	0.3473E-00	20775.9	79.90	0.
1420.	0.3449E-00	20934.1	80.01	0.
1430.	0.3425E-00	21092.4	80.12	0.
1440.	0.3401E-00	21251.0	80.23	0.
1450.	0.3378E-00	21409.9	80.34	0.
1460.	0.3355E-00	21569.0	80.45	0.
1470.	0.3332E-00	21728.3	80.56	0.
1480.	0.3309E-00	21887.9	80.67	0.
1490.	0.3287E-00	22047.8	80.77	0.
1500.	0.3276E-00	22201.3	80.89	0.00000
1510.	0.3254E-00	22361.7	81.00	0.00000
1520.	0.3233E-00	22522.3	81.10	0.00000
1530.	0.3211E-00	22683.1	81.21	0.00000
1540.	0.3191E-00	22844.2	81.31	0.00000
1550.	0.3170E-00	23005.4	81.42	0.00000
1560.	0.3150E-00	23166.9	81.52	0.00000
1570.	0.3130E-00	23328.7	81.63	0.00000
1580.	0.3110E-00	23490.6	81.73	0.00000
1590.	0.3090E-00	23652.8	81.83	0.00001

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.3071E-00	23815.1	81.93	0.00001
1610.	0.3052E-00	23977.7	82.03	0.00001
1620.	0.3033E-00	24140.6	82.13	0.00001
1630.	0.3014E-00	24303.6	82.24	0.00001
1640.	0.2996E-00	24466.9	82.33	0.00001
1650.	0.2978E-00	24630.4	82.43	0.00001
1660.	0.2960E-00	24794.1	82.53	0.00001
1670.	0.2942E-00	24958.1	82.63	0.00001
1680.	0.2925E-00	25122.3	82.73	0.00001
1690.	0.2907E-00	25286.7	82.83	0.00001
1700.	0.2890E-00	25451.3	82.93	0.00002
1710.	0.2873E-00	25616.2	83.02	0.00002
1720.	0.2857E-00	25781.2	83.12	0.00002
1730.	0.2840E-00	25946.6	83.21	0.00002
1740.	0.2824E-00	26112.1	83.31	0.00002
1750.	0.2808E-00	26277.9	83.41	0.00003
1760.	0.2792E-00	26444.0	83.50	0.00003
1770.	0.2776E-00	26610.2	83.59	0.00003
1780.	0.2760E-00	26776.7	83.69	0.00003
1790.	0.2745E-00	26943.5	83.78	0.00004
1800.	0.2730E-00	27110.5	83.88	0.00004
1810.	0.2715E-00	27277.8	83.97	0.00004
1820.	0.2700E-00	27445.3	84.06	0.00005
1830.	0.2685E-00	27613.0	84.15	0.00005
1840.	0.2670E-00	27781.0	84.24	0.00006
1850.	0.2656E-00	27949.3	84.34	0.00006
1860.	0.2641E-00	28117.8	84.43	0.00007
1870.	0.2627E-00	28286.7	84.52	0.00007
1880.	0.2613E-00	28455.7	84.61	0.00008
1890.	0.2600E-00	28625.1	84.70	0.00008
1900.	0.2586E-00	28794.7	84.79	0.00009
1910.	0.2572E-00	28964.6	84.88	0.00010
1920.	0.2559E-00	29134.8	84.97	0.00010
1930.	0.2546E-00	29305.3	85.06	0.00011
1940.	0.2532E-00	29476.1	85.15	0.00012
1950.	0.2519E-00	29647.2	85.23	0.00013
1960.	0.2507E-00	29818.6	85.32	0.00014
1970.	0.2494E-00	29990.3	85.41	0.00015
1980.	0.2481E-00	30162.4	85.50	0.00016
1990.	0.2469E-00	30334.7	85.59	0.00017
2000.	0.2456E-00	30507.5	85.67	0.00018
2010.	0.2444E-00	30680.5	85.76	0.00019
2020.	0.2432E-00	30853.9	85.85	0.00021
2030.	0.2420E-00	31027.6	85.93	0.00022
2040.	0.2408E-00	31201.7	86.02	0.00024
2050.	0.2396E-00	31376.2	86.11	0.00025
2060.	0.2385E-00	31551.1	86.19	0.00027
2070.	0.2373E-00	31726.4	86.28	0.00029
2080.	0.2362E-00	31902.0	86.36	0.00031
2090.	0.2350E-00	32078.1	86.45	0.00033

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.2339E-00	32254.5	86.53	0.00035
2110.	0.2328E-00	32431.4	86.62	0.00037
2120.	0.2317E-00	32608.8	86.70	0.00039
2130.	0.2306E-00	32786.6	86.79	0.00042
2140.	0.2295E-00	32964.8	86.87	0.00044
2150.	0.2284E-00	33143.5	86.96	0.00047
2160.	0.2274E-00	33322.7	87.04	0.00050
2170.	0.2263E-00	33502.4	87.13	0.00053
2180.	0.2253E-00	33682.6	87.21	0.00056
2190.	0.2242E-00	33863.3	87.30	0.00059
2200.	0.2232E-00	34044.6	87.38	0.00063
2210.	0.2222E-00	34226.4	87.46	0.00067
2220.	0.2212E-00	34408.7	87.55	0.00070
2230.	0.2202E-00	34591.6	87.63	0.00074
2240.	0.2192E-00	34775.2	87.72	0.00079
2250.	0.2182E-00	34959.3	87.80	0.00083
2260.	0.2172E-00	35144.0	87.88	0.00088
2270.	0.2163E-00	35329.4	87.97	0.00092
2280.	0.2153E-00	35515.4	88.05	0.00097
2290.	0.2143E-00	35702.1	88.14	0.00103
2300.	0.2134E-00	35889.5	88.22	0.00108
2310.	0.2125E-00	36077.6	88.30	0.00114
2320.	0.2115E-00	36266.4	88.39	0.00120
2330.	0.2106E-00	36456.0	88.47	0.00126
2340.	0.2097E-00	36646.3	88.56	0.00133
2350.	0.2088E-00	36837.4	88.64	0.00139
2360.	0.2079E-00	37029.3	88.73	0.00146
2370.	0.2070E-00	37222.0	88.81	0.00154
2380.	0.2061E-00	37415.6	88.89	0.00161
2390.	0.2052E-00	37610.0	88.98	0.00169
2400.	0.2044E-00	37805.3	89.06	0.00178
2410.	0.2035E-00	38001.5	89.15	0.00186
2420.	0.2026E-00	38198.7	89.23	0.00195
2430.	0.2018E-00	38396.8	89.32	0.00205
2440.	0.2009E-00	38595.9	89.40	0.00214
2450.	0.2001E-00	38795.9	89.49	0.00224
2460.	0.1993E-00	38997.0	89.58	0.00235
2470.	0.1984E-00	39199.2	89.66	0.00246
2480.	0.1976E-00	39402.4	89.75	0.00257
2490.	0.1968E-00	39606.7	89.83	0.00269
2500.	0.1960E-00	39812.2	89.92	0.00281
2510.	0.1952E-00	40018.8	90.01	0.00293
2520.	0.1944E-00	40226.6	90.09	0.00306
2530.	0.1936E-00	40435.6	90.18	0.00320
2540.	0.1928E-00	40645.8	90.27	0.00334
2550.	0.1920E-00	40857.3	90.36	0.00348
2560.	0.1912E-00	41070.1	90.44	0.00363
2570.	0.1905E-00	41284.2	90.53	0.00379
2580.	0.1897E-00	41499.7	90.62	0.00395
2590.	0.1889E-00	41716.6	90.71	0.00411

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.1882E-00	41934.9	90.80	0.00429
2610.	0.1874E-00	42154.6	90.89	0.00446
2620.	0.1867E-00	42375.8	90.98	0.00465
2630.	0.1859E-00	42598.6	91.07	0.00484
2640.	0.1852E-00	42822.9	91.16	0.00503
2650.	0.1844E-00	43048.7	91.25	0.00523
2660.	0.1837E-00	43276.2	91.34	0.00544
2670.	0.1830E-00	43505.3	91.44	0.00566
2680.	0.1823E-00	43736.2	91.53	0.00588
2690.	0.1815E-00	43968.7	91.62	0.00611
2700.	0.1808E-00	44203.0	91.72	0.00634
2710.	0.1801E-00	44439.1	91.81	0.00659
2720.	0.1794E-00	44677.0	91.90	0.00684
2730.	0.1787E-00	44916.8	92.00	0.00710
2740.	0.1780E-00	45158.5	92.09	0.00736
2750.	0.1773E-00	45402.2	92.19	0.00764
2760.	0.1766E-00	45647.8	92.29	0.00792
2770.	0.1759E-00	45895.5	92.38	0.00821
2780.	0.1753E-00	46145.2	92.48	0.00851
2790.	0.1746E-00	46397.0	92.58	0.00882
2800.	0.1739E-00	46650.9	92.68	0.00914
2810.	0.1732E-00	46907.1	92.78	0.00946
2820.	0.1725E-00	47165.5	92.88	0.00980
2830.	0.1719E-00	47426.1	92.98	0.01014
2840.	0.1712E-00	47689.0	93.08	0.01049
2850.	0.1706E-00	47954.3	93.18	0.01086
2860.	0.1699E-00	48222.0	93.28	0.01123
2870.	0.1692E-00	48492.1	93.38	0.01162
2880.	0.1686E-00	48764.8	93.49	0.01201
2890.	0.1679E-00	49039.9	93.59	0.01242
2900.	0.1673E-00	49317.6	93.70	0.01283
2910.	0.1666E-00	49597.9	93.80	0.01326
2920.	0.1660E-00	49880.9	93.91	0.01370
2930.	0.1654E-00	50166.6	94.01	0.01414
2940.	0.1647E-00	50455.1	94.12	0.01461
2950.	0.1641E-00	50746.3	94.23	0.01508
2960.	0.1635E-00	51040.4	94.34	0.01556
2970.	0.1628E-00	51337.4	94.45	0.01606
2980.	0.1622E-00	51637.4	94.56	0.01657
2990.	0.1616E-00	51940.3	94.67	0.01709
3000.	0.1609E-00	52246.3	94.78	0.01762

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.4934E 01	1226.2	39.56	0.
110.	0.4462E 01	1361.0	40.84	0.
120.	0.4076E 01	1501.1	42.06	0.
130.	0.3754E 01	1645.8	43.22	0.
140.	0.3480E 01	1794.3	44.32	0.
150.	0.3244E 01	1945.4	45.36	0.
160.	0.3039E 01	2098.4	46.35	0.
170.	0.2858E 01	2252.3	47.28	0.
180.	0.2699E 01	2406.5	48.16	0.
190.	0.2556E 01	2560.6	49.00	0.
200.	0.2428E 01	2714.3	49.79	0.
210.	0.2312E 01	2867.4	50.53	0.
220.	0.2207E 01	3019.7	51.24	0.
230.	0.2111E 01	3171.2	51.92	0.
240.	0.2023E 01	3322.0	52.56	0.
250.	0.1943E 01	3472.1	53.17	0.
260.	0.1868E 01	3621.4	53.76	0.
270.	0.1799E 01	3770.2	54.32	0.
280.	0.1735E 01	3918.4	54.86	0.
290.	0.1676E 01	4066.2	55.37	0.
300.	0.1620E 01	4213.6	55.87	0.
310.	0.1568E 01	4360.6	56.36	0.
320.	0.1519E 01	4507.3	56.82	0.
330.	0.1474E 01	4653.8	57.27	0.
340.	0.1430E 01	4800.1	57.71	0.
350.	0.1390E 01	4946.2	58.13	0.
360.	0.1351E 01	5092.1	58.54	0.
370.	0.1315E 01	5237.9	58.94	0.
380.	0.1281E 01	5383.6	59.33	0.
390.	0.1248E 01	5529.3	59.71	0.
400.	0.1217E 01	5674.8	60.08	0.
410.	0.1187E 01	5820.4	60.44	0.
420.	0.1159E 01	5965.8	60.79	0.
430.	0.1133E 01	6111.3	61.13	0.
440.	0.1107E 01	6256.7	61.47	0.
450.	0.1083E 01	6402.2	61.79	0.
460.	0.1059E 01	6547.6	62.11	0.
470.	0.1037E 01	6693.0	62.42	0.
480.	0.1015E 01	6838.4	62.73	0.
490.	0.9947E 00	6983.8	63.03	0.
500.	0.9749E 00	7129.2	63.32	0.
510.	0.9559E 00	7274.7	63.61	0.
520.	0.9376E 00	7420.1	63.90	0.
530.	0.9200E 00	7565.6	64.17	0.
540.	0.9031E 00	7711.0	64.44	0.
550.	0.8867E 00	7856.5	64.71	0.
560.	0.8710E 00	8002.0	64.97	0.
570.	0.8558E 00	8147.5	65.23	0.
580.	0.8411E 00	8293.0	65.48	0.
590.	0.8269E 00	8438.6	65.73	0.

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.8132E 00	8583.6	65.98	0.
610.	0.8000E 00	8729.2	66.22	0.
620.	0.7871E 00	8874.8	66.45	0.
630.	0.7747E 00	9020.4	66.69	0.
640.	0.7627E 00	9166.1	66.92	0.
650.	0.7510E 00	9311.8	67.14	0.
660.	0.7397E 00	9457.6	67.36	0.
670.	0.7287E 00	9603.4	67.58	0.
680.	0.7180E 00	9749.3	67.80	0.
690.	0.7077E 00	9895.3	68.01	0.
700.	0.6976E 00	10041.4	68.22	0.
710.	0.6878E 00	10187.6	68.43	0.
720.	0.6783E 00	10333.8	68.64	0.
730.	0.6691E 00	10480.2	68.84	0.
740.	0.6601E 00	10626.6	69.04	0.
750.	0.6513E 00	10773.2	69.23	0.
760.	0.6428E 00	10919.8	69.43	0.
770.	0.6345E 00	11066.6	69.62	0.
780.	0.6264E 00	11213.5	69.81	0.
790.	0.6185E 00	11360.4	70.00	0.
800.	0.6108E 00	11507.5	70.18	0.
810.	0.6033E 00	11654.7	70.36	0.
820.	0.5960E 00	11802.1	70.54	0.
830.	0.5888E 00	11949.5	70.72	0.
840.	0.5819E 00	12097.1	70.90	0.
850.	0.5750E 00	12244.8	71.08	0.
860.	0.5684E 00	12392.6	71.25	0.
870.	0.5619E 00	12540.6	71.42	0.
880.	0.5555E 00	12688.6	71.59	0.
890.	0.5493E 00	12836.9	71.76	0.
900.	0.5432E 00	12985.2	71.92	0.
910.	0.5373E 00	13133.7	72.09	0.
920.	0.5315E 00	13282.3	72.25	0.
930.	0.5258E 00	13431.1	72.41	0.
940.	0.5202E 00	13580.0	72.57	0.
950.	0.5148E 00	13729.0	72.73	0.
960.	0.5094E 00	13878.2	72.88	0.
970.	0.5042E 00	14027.5	73.04	0.
980.	0.4991E-00	14177.0	73.19	0.
990.	0.4940E-00	14326.7	73.34	0.
1000.	0.4891E-00	14476.4	73.49	0.
1010.	0.4843E-00	14626.4	73.64	0.
1020.	0.4796E-00	14776.5	73.79	0.
1030.	0.4749E-00	14926.8	73.94	0.
1040.	0.4704E-00	15077.2	74.08	0.
1050.	0.4659E-00	15227.8	74.23	0.
1060.	0.4615E-00	15378.6	74.37	0.
1070.	0.4572E-00	15529.5	74.51	0.
1080.	0.4530E-00	15680.6	74.65	0.
1090.	0.4489E-00	15831.9	74.79	0.

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.4448E-00	15983.3	74.93	0.
1110.	0.4408E-00	16134.9	75.07	0.
1120.	0.4369E-00	16286.7	75.20	0.
1130.	0.4331E-00	16438.7	75.34	0.
1140.	0.4293E-00	16590.9	75.47	0.
1150.	0.4255E-00	16743.2	75.60	0.
1160.	0.4219E-00	16895.8	75.74	0.
1170.	0.4183E-00	17048.5	75.87	0.
1180.	0.4148E-00	17201.4	76.00	0.
1190.	0.4113E-00	17354.5	76.13	0.
1200.	0.4079E-00	17507.8	76.26	0.
1210.	0.4045E-00	17661.3	76.38	0.
1220.	0.4012E-00	17815.0	76.51	0.
1230.	0.3980E-00	17968.9	76.63	0.
1240.	0.3948E-00	18123.1	76.76	0.
1250.	0.3916E-00	18277.4	76.88	0.
1260.	0.3885E-00	18431.9	77.01	0.
1270.	0.3855E-00	18586.6	77.13	0.
1280.	0.3825E-00	18741.6	77.25	0.
1290.	0.3795E-00	18896.7	77.37	0.
1300.	0.3766E-00	19052.1	77.49	0.
1310.	0.3737E-00	19207.7	77.61	0.
1320.	0.3709E-00	19363.5	77.73	0.
1330.	0.3681E-00	19519.5	77.85	0.
1340.	0.3654E-00	19675.8	77.96	0.
1350.	0.3627E-00	19832.2	78.08	0.
1360.	0.3600E-00	19988.9	78.20	0.
1370.	0.3574E-00	20145.9	78.31	0.
1380.	0.3548E-00	20303.0	78.42	0.
1390.	0.3523E-00	20460.4	78.54	0.
1400.	0.3498E-00	20618.1	78.65	0.
1410.	0.3473E-00	20775.9	78.76	0.
1420.	0.3449E-00	20934.1	78.88	0.
1430.	0.3425E-00	21092.4	78.99	0.
1440.	0.3401E-00	21251.0	79.10	0.
1450.	0.3378E-00	21409.9	79.21	0.
1460.	0.3355E-00	21569.0	79.32	0.
1470.	0.3332E-00	21728.3	79.43	0.
1480.	0.3309E-00	21887.9	79.53	0.
1490.	0.3287E-00	22047.8	79.64	0.
1500.	0.3276E-00	22201.3	79.76	0.00000
1510.	0.3254E-00	22361.7	79.86	0.00000
1520.	0.3233E-00	22522.3	79.97	0.00000
1530.	0.3211E-00	22683.1	80.08	0.00000
1540.	0.3191E-00	22844.2	80.18	0.00000
1550.	0.3170E-00	23005.4	80.29	0.00000
1560.	0.3150E-00	23166.9	80.39	0.00000
1570.	0.3130E-00	23328.7	80.49	0.00000
1580.	0.3110E-00	23490.6	80.60	0.00000
1590.	0.3090E-00	23652.8	80.70	0.00001

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.3071E-00	23815.1	80.80	0.00001
1610.	0.3052E-00	23977.7	80.90	0.00001
1620.	0.3033E-00	24140.6	81.00	0.00001
1630.	0.3014E-00	24303.6	81.10	0.00001
1640.	0.2996E-00	24466.9	81.20	0.00001
1650.	0.2978E-00	24630.4	81.30	0.00001
1660.	0.2960E-00	24794.1	81.40	0.00001
1670.	0.2942E-00	24958.1	81.50	0.00001
1680.	0.2925E-00	25122.3	81.60	0.00001
1690.	0.2907E-00	25286.7	81.70	0.00001
1700.	0.2890E-00	25451.3	81.79	0.00002
1710.	0.2873E-00	25616.2	81.89	0.00002
1720.	0.2857E-00	25781.2	81.99	0.00002
1730.	0.2840E-00	25946.6	82.08	0.00002
1740.	0.2824E-00	26112.1	82.18	0.00002
1750.	0.2808E-00	26277.9	82.27	0.00003
1760.	0.2792E-00	26444.0	82.37	0.00003
1770.	0.2776E-00	26610.2	82.46	0.00003
1780.	0.2760E-00	26776.7	82.56	0.00003
1790.	0.2745E-00	26943.5	82.65	0.00004
1800.	0.2730E-00	27110.5	82.74	0.00004
1810.	0.2715E-00	27277.8	82.84	0.00004
1820.	0.2700E-00	27445.3	82.93	0.00005
1830.	0.2685E-00	27613.0	83.02	0.00005
1840.	0.2670E-00	27781.0	83.11	0.00006
1850.	0.2656E-00	27949.3	83.20	0.00006
1860.	0.2641E-00	28117.8	83.29	0.00007
1870.	0.2627E-00	28286.7	83.39	0.00007
1880.	0.2613E-00	28455.7	83.48	0.00008
1890.	0.2600E-00	28625.1	83.57	0.00008
1900.	0.2586E-00	28794.7	83.66	0.00009
1910.	0.2572E-00	28964.6	83.75	0.00010
1920.	0.2559E-00	29134.8	83.84	0.00010
1930.	0.2546E-00	29305.3	83.92	0.00011
1940.	0.2532E-00	29476.1	84.01	0.00012
1950.	0.2519E-00	29647.2	84.10	0.00013
1960.	0.2507E-00	29818.6	84.19	0.00014
1970.	0.2494E-00	29990.3	84.28	0.00015
1980.	0.2481E-00	30162.4	84.37	0.00016
1990.	0.2469E-00	30334.7	84.45	0.00017
2000.	0.2456E-00	30507.5	84.54	0.00018
2010.	0.2444E-00	30680.5	84.63	0.00019
2020.	0.2432E-00	30853.9	84.71	0.00021
2030.	0.2420E-00	31027.6	84.80	0.00022
2040.	0.2408E-00	31201.7	84.89	0.00024
2050.	0.2396E-00	31376.2	84.97	0.00025
2060.	0.2385E-00	31551.1	85.06	0.00027
2070.	0.2373E-00	31726.4	85.15	0.00029
2080.	0.2362E-00	31902.0	85.23	0.00031
2090.	0.2350E-00	32078.1	85.32	0.00033

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.2339E-00	32254.5	85.40	0.00035
2110.	0.2328E-00	32431.4	85.49	0.00037
2120.	0.2317E-00	32608.8	85.57	0.00039
2130.	0.2306E-00	32786.6	85.66	0.00042
2140.	0.2295E-00	32964.8	85.74	0.00044
2150.	0.2284E-00	33143.5	85.83	0.00047
2160.	0.2274E-00	33322.7	85.91	0.00050
2170.	0.2263E-00	33502.4	86.00	0.00053
2180.	0.2253E-00	33682.6	86.08	0.00056
2190.	0.2242E-00	33863.3	86.16	0.00059
2200.	0.2232E-00	34044.6	86.25	0.00063
2210.	0.2222E-00	34226.4	86.33	0.00067
2220.	0.2212E-00	34408.7	86.42	0.00070
2230.	0.2202E-00	34591.6	86.50	0.00074
2240.	0.2192E-00	34775.2	86.58	0.00079
2250.	0.2182E-00	34959.3	86.67	0.00083
2260.	0.2172E-00	35144.0	86.75	0.00088
2270.	0.2163E-00	35329.4	86.84	0.00092
2280.	0.2153E-00	35515.4	86.92	0.00097
2290.	0.2143E-00	35702.1	87.00	0.00103
2300.	0.2134E-00	35889.5	87.09	0.00108
2310.	0.2125E-00	36077.6	87.17	0.00114
2320.	0.2115E-00	36266.4	87.26	0.00120
2330.	0.2106E-00	36456.0	87.34	0.00126
2340.	0.2097E-00	36646.3	87.42	0.00133
2350.	0.2088E-00	36837.4	87.51	0.00139
2360.	0.2079E-00	37029.3	87.59	0.00146
2370.	0.2070E-00	37222.0	87.68	0.00154
2380.	0.2061E-00	37415.6	87.76	0.00161
2390.	0.2052E-00	37610.0	87.85	0.00169
2400.	0.2044E-00	37805.3	87.93	0.00178
2410.	0.2035E-00	38001.5	88.02	0.00186
2420.	0.2026E-00	38198.7	88.10	0.00195
2430.	0.2018E-00	38396.8	88.19	0.00205
2440.	0.2009E-00	38595.9	88.27	0.00214
2450.	0.2001E-00	38795.9	88.36	0.00224
2460.	0.1993E-00	38997.0	88.44	0.00235
2470.	0.1984E-00	39199.2	88.53	0.00246
2480.	0.1976E-00	39402.4	88.61	0.00257
2490.	0.1968E-00	39606.7	88.70	0.00269
2500.	0.1960E-00	39812.2	88.79	0.00281
2510.	0.1952E-00	40018.8	88.87	0.00293
2520.	0.1944E-00	40226.6	88.96	0.00306
2530.	0.1936E-00	40435.6	89.05	0.00320
2540.	0.1928E-00	40645.8	89.14	0.00334
2550.	0.1920E-00	40857.3	89.22	0.00348
2560.	0.1912E-00	41070.1	89.31	0.00363
2570.	0.1905E-00	41284.2	89.40	0.00379
2580.	0.1897E-00	41499.7	89.49	0.00395
2590.	0.1889E-00	41716.6	89.58	0.00411

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.1882E-00	41934.9	89.67	0.00429
2610.	0.1874E-00	42154.6	89.76	0.00446
2620.	0.1867E-00	42375.8	89.85	0.00465
2630.	0.1859E-00	42598.6	89.94	0.00484
2640.	0.1852E-00	42822.9	90.03	0.00503
2650.	0.1844E-00	43048.7	90.12	0.00523
2660.	0.1837E-00	43276.2	90.21	0.00544
2670.	0.1830E-00	43505.3	90.30	0.00566
2680.	0.1823E-00	43736.2	90.40	0.00588
2690.	0.1815E-00	43968.7	90.49	0.00611
2700.	0.1808E-00	44203.0	90.58	0.00634
2710.	0.1801E-00	44439.1	90.68	0.00659
2720.	0.1794E-00	44677.0	90.77	0.00684
2730.	0.1787E-00	44916.8	90.87	0.00710
2740.	0.1780E-00	45158.5	90.96	0.00736
2750.	0.1773E-00	45402.2	91.06	0.00764
2760.	0.1766E-00	45647.8	91.15	0.00792
2770.	0.1759E-00	45895.5	91.25	0.00821
2780.	0.1753E-00	46145.2	91.35	0.00851
2790.	0.1746E-00	46397.0	91.45	0.00882
2800.	0.1739E-00	46650.9	91.54	0.00914
2810.	0.1732E-00	46907.1	91.64	0.00946
2820.	0.1725E-00	47165.5	91.74	0.00980
2830.	0.1719E-00	47426.1	91.84	0.01014
2840.	0.1712E-00	47689.0	91.94	0.01049
2850.	0.1706E-00	47954.3	92.05	0.01086
2860.	0.1699E-00	48222.0	92.15	0.01123
2870.	0.1692E-00	48492.1	92.25	0.01162
2880.	0.1686E-00	48764.8	92.35	0.01201
2890.	0.1679E-00	49039.9	92.46	0.01242
2900.	0.1673E-00	49317.6	92.56	0.01283
2910.	0.1666E-00	49597.9	92.67	0.01326
2920.	0.1660E-00	49880.9	92.77	0.01370
2930.	0.1654E-00	50166.6	92.88	0.01414
2940.	0.1647E-00	50455.1	92.99	0.01461
2950.	0.1641E-00	50746.3	93.10	0.01508
2960.	0.1635E-00	51040.4	93.21	0.01556
2970.	0.1628E-00	51337.4	93.32	0.01606
2980.	0.1622E-00	51637.4	93.43	0.01657
2990.	0.1616E-00	51940.3	93.54	0.01709
3000.	0.1609E-00	52246.3	93.65	0.01762

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.4934E 01	1065.7	35.16	0.
110.	0.4462E 01	1208.7	36.52	0.
120.	0.4076E 01	1358.7	37.82	0.
130.	0.3754E 01	1514.5	39.07	0.
140.	0.3480E 01	1674.8	40.26	0.
150.	0.3244E 01	1838.0	41.38	0.
160.	0.3039E 01	2002.8	42.45	0.
170.	0.2858E 01	2168.2	43.45	0.
180.	0.2699E 01	2333.1	44.39	0.
190.	0.2556E 01	2497.2	45.28	0.
200.	0.2428E 01	2659.8	46.12	0.
210.	0.2312E 01	2820.9	46.90	0.
220.	0.2207E 01	2980.2	47.64	0.
230.	0.2111E 01	3137.9	48.34	0.
240.	0.2023E 01	3294.0	49.01	0.
250.	0.1943E 01	3448.7	49.64	0.
260.	0.1868E 01	3602.0	50.24	0.
270.	0.1799E 01	3754.1	50.81	0.
280.	0.1735E 01	3905.1	51.36	0.
290.	0.1676E 01	4055.2	51.89	0.
300.	0.1620E 01	4204.5	52.40	0.
310.	0.1568E 01	4353.2	52.88	0.
320.	0.1519E 01	4501.2	53.35	0.
330.	0.1474E 01	4648.8	53.81	0.
340.	0.1430E 01	4796.0	54.25	0.
350.	0.1390E 01	4942.8	54.67	0.
360.	0.1351E 01	5089.4	55.09	0.
370.	0.1315E 01	5235.7	55.49	0.
380.	0.1281E 01	5381.8	55.88	0.
390.	0.1248E 01	5527.8	56.26	0.
400.	0.1217E 01	5673.7	56.63	0.
410.	0.1187E 01	5819.5	56.99	0.
420.	0.1159E 01	5965.1	57.34	0.
430.	0.1133E 01	6110.8	57.68	0.
440.	0.1107E 01	6256.4	58.01	0.
450.	0.1083E 01	6401.9	58.34	0.
460.	0.1059E 01	6547.5	58.66	0.
470.	0.1037E 01	6693.0	58.97	0.
480.	0.1015E 01	6838.5	59.28	0.
490.	0.9947E 00	6983.9	59.58	0.
500.	0.9749E 00	7129.4	59.87	0.
510.	0.9559E 00	7274.8	60.16	0.
520.	0.9376E 00	7420.3	60.44	0.
530.	0.9200E 00	7565.7	60.72	0.
540.	0.9031E 00	7711.2	60.99	0.
550.	0.8867E 00	7856.6	61.26	0.
560.	0.8710E 00	8002.1	61.52	0.
570.	0.8558E 00	8147.6	61.78	0.
580.	0.8411E 00	8293.1	62.03	0.
590.	0.8269E 00	8438.6	62.28	0.

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.8132E 00	8583.6	64.84	0.
610.	0.8000E 00	8729.2	65.08	0.
620.	0.7871E 00	8874.8	65.32	0.
630.	0.7747E 00	9020.4	65.55	0.
640.	0.7627E 00	9166.1	65.78	0.
650.	0.7510E 00	9311.8	66.01	0.
660.	0.7397E 00	9457.6	66.23	0.
670.	0.7287E 00	9603.4	66.45	0.
680.	0.7180E 00	9749.3	66.67	0.
690.	0.7077E 00	9895.3	66.88	0.
700.	0.6976E 00	10041.4	67.09	0.
710.	0.6878E 00	10187.6	67.30	0.
720.	0.6783E 00	10333.8	67.50	0.
730.	0.6691E 00	10480.2	67.70	0.
740.	0.6601E 00	10626.6	67.90	0.
750.	0.6513E 00	10773.2	68.10	0.
760.	0.6428E 00	10919.8	68.29	0.
770.	0.6345E 00	11066.6	68.49	0.
780.	0.6264E 00	11213.5	68.68	0.
790.	0.6185E 00	11360.4	68.86	0.
800.	0.6108E 00	11507.5	69.05	0.
810.	0.6033E 00	11654.7	69.23	0.
820.	0.5960E 00	11802.1	69.41	0.
830.	0.5888E 00	11949.5	69.59	0.
840.	0.5819E 00	12097.1	69.77	0.
850.	0.5750E 00	12244.8	69.94	0.
860.	0.5684E 00	12392.6	70.12	0.
870.	0.5619E 00	12540.6	70.29	0.
880.	0.5555E 00	12688.6	70.46	0.
890.	0.5493E 00	12836.9	70.62	0.
900.	0.5432E 00	12985.2	70.79	0.
910.	0.5373E 00	13133.7	70.95	0.
920.	0.5315E 00	13282.3	71.12	0.
930.	0.5258E 00	13431.1	71.28	0.
940.	0.5202E 00	13580.0	71.44	0.
950.	0.5148E 00	13729.0	71.59	0.
960.	0.5094E 00	13878.2	71.75	0.
970.	0.5042E 00	14027.5	71.90	0.
980.	0.4991E-00	14177.0	72.06	0.
990.	0.4940E-00	14326.7	72.21	0.
1000.	0.4891E-00	14476.4	72.36	0.
1010.	0.4843E-00	14626.4	72.51	0.
1020.	0.4796E-00	14776.5	72.66	0.
1030.	0.4749E-00	14926.8	72.80	0.
1040.	0.4704E-00	15077.2	72.95	0.
1050.	0.4659E-00	15227.8	73.09	0.
1060.	0.4615E-00	15378.6	73.24	0.
1070.	0.4572E-00	15529.5	73.38	0.
1080.	0.4530E-00	15680.6	73.52	0.
1090.	0.4489E-00	15831.9	73.66	0.

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.4448E-00	15983.3	73.80	0.
1110.	0.4408E-00	16134.9	73.93	0.
1120.	0.4369E-00	16286.7	74.07	0.
1130.	0.4331E-00	16438.7	74.20	0.
1140.	0.4293E-00	16590.9	74.34	0.
1150.	0.4255E-00	16743.2	74.47	0.
1160.	0.4219E-00	16895.8	74.60	0.
1170.	0.4183E-00	17048.5	74.73	0.
1180.	0.4148E-00	17201.4	74.86	0.
1190.	0.4113E-00	17354.5	74.99	0.
1200.	0.4079E-00	17507.8	75.12	0.
1210.	0.4045E-00	17661.3	75.25	0.
1220.	0.4012E-00	17815.0	75.38	0.
1230.	0.3980E-00	17968.9	75.50	0.
1240.	0.3948E-00	18123.1	75.63	0.
1250.	0.3916E-00	18277.4	75.75	0.
1260.	0.3885E-00	18431.9	75.87	0.
1270.	0.3855E-00	18586.6	76.00	0.
1280.	0.3825E-00	18741.6	76.12	0.
1290.	0.3795E-00	18896.7	76.24	0.
1300.	0.3766E-00	19052.1	76.36	0.
1310.	0.3737E-00	19207.7	76.48	0.
1320.	0.3709E-00	19363.5	76.60	0.
1330.	0.3681E-00	19519.5	76.71	0.
1340.	0.3654E-00	19675.8	76.83	0.
1350.	0.3627E-00	19832.2	76.95	0.
1360.	0.3600E-00	19988.9	77.06	0.
1370.	0.3574E-00	20145.9	77.18	0.
1380.	0.3548E-00	20303.0	77.29	0.
1390.	0.3523E-00	20460.4	77.41	0.
1400.	0.3498E-00	20618.1	77.52	0.
1410.	0.3473E-00	20775.9	77.63	0.
1420.	0.3449E-00	20934.1	77.74	0.
1430.	0.3425E-00	21092.4	77.85	0.
1440.	0.3401E-00	21251.0	77.96	0.
1450.	0.3378E-00	21409.9	78.07	0.
1460.	0.3355E-00	21569.0	78.18	0.
1470.	0.3332E-00	21728.3	78.29	0.
1480.	0.3309E-00	21887.9	78.40	0.
1490.	0.3287E-00	22047.8	78.51	0.
1500.	0.3276E-00	22201.3	78.63	0.00000
1510.	0.3254E-00	22361.7	78.73	0.00000
1520.	0.3233E-00	22522.3	78.84	0.00000
1530.	0.3211E-00	22683.1	78.94	0.00000
1540.	0.3191E-00	22844.2	79.05	0.00000
1550.	0.3170E-00	23005.4	79.15	0.00000
1560.	0.3150E-00	23166.9	79.26	0.00000
1570.	0.3130E-00	23328.7	79.36	0.00000
1580.	0.3110E-00	23490.6	79.46	0.00000
1590.	0.3090E-00	23652.8	79.57	0.00001

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.3071E-00	23815.1	79.67	0.00001
1610.	0.3052E-00	23977.7	79.77	0.00001
1620.	0.3033E-00	24140.6	79.87	0.00001
1630.	0.3014E-00	24303.6	79.97	0.00001
1640.	0.2996E-00	24466.9	80.07	0.00001
1650.	0.2978E-00	24630.4	80.17	0.00001
1660.	0.2960E-00	24794.1	80.27	0.00001
1670.	0.2942E-00	24958.1	80.37	0.00001
1680.	0.2925E-00	25122.3	80.46	0.00001
1690.	0.2907E-00	25286.7	80.56	0.00001
1700.	0.2890E-00	25451.3	80.66	0.00002
1710.	0.2873E-00	25616.2	80.76	0.00002
1720.	0.2857E-00	25781.2	80.85	0.00002
1730.	0.2840E-00	25946.6	80.95	0.00002
1740.	0.2824E-00	26112.1	81.04	0.00002
1750.	0.2808E-00	26277.9	81.14	0.00003
1760.	0.2792E-00	26444.0	81.23	0.00003
1770.	0.2776E-00	26610.2	81.33	0.00003
1780.	0.2760E-00	26776.7	81.42	0.00003
1790.	0.2745E-00	26943.5	81.52	0.00004
1800.	0.2730E-00	27110.5	81.61	0.00004
1810.	0.2715E-00	27277.8	81.70	0.00004
1820.	0.2700E-00	27445.3	81.80	0.00005
1830.	0.2685E-00	27613.0	81.89	0.00005
1840.	0.2670E-00	27781.0	81.98	0.00006
1850.	0.2656E-00	27949.3	82.07	0.00006
1860.	0.2641E-00	28117.8	82.16	0.00007
1870.	0.2627E-00	28286.7	82.25	0.00007
1880.	0.2613E-00	28455.7	82.34	0.00008
1890.	0.2600E-00	28625.1	82.43	0.00008
1900.	0.2586E-00	28794.7	82.52	0.00009
1910.	0.2572E-00	28964.6	82.61	0.00010
1920.	0.2559E-00	29134.8	82.70	0.00010
1930.	0.2546E-00	29305.3	82.79	0.00011
1940.	0.2532E-00	29476.1	82.88	0.00012
1950.	0.2519E-00	29647.2	82.97	0.00013
1960.	0.2507E-00	29818.6	83.06	0.00014
1970.	0.2494E-00	29990.3	83.15	0.00015
1980.	0.2481E-00	30162.4	83.23	0.00016
1990.	0.2469E-00	30334.7	83.32	0.00017
2000.	0.2456E-00	30507.5	83.41	0.00018
2010.	0.2444E-00	30680.5	83.49	0.00019
2020.	0.2432E-00	30853.9	83.58	0.00021
2030.	0.2420E-00	31027.6	83.67	0.00022
2040.	0.2408E-00	31201.7	83.75	0.00024
2050.	0.2396E-00	31376.2	83.84	0.00025
2060.	0.2385E-00	31551.1	83.93	0.00027
2070.	0.2373E-00	31726.4	84.01	0.00029
2080.	0.2362E-00	31902.0	84.10	0.00031
2090.	0.2350E-00	32078.1	84.18	0.00033

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.2339E-00	32254.5	84.27	0.00035
2110.	0.2328E-00	32431.4	84.35	0.00037
2120.	0.2317E-00	32608.8	84.44	0.00039
2130.	0.2306E-00	32786.6	84.52	0.00042
2140.	0.2295E-00	32964.8	84.61	0.00044
2150.	0.2284E-00	33143.5	84.69	0.00047
2160.	0.2274E-00	33322.7	84.78	0.00050
2170.	0.2263E-00	33502.4	84.86	0.00053
2180.	0.2253E-00	33682.6	84.95	0.00056
2190.	0.2242E-00	33863.3	85.03	0.00059
2200.	0.2232E-00	34044.6	85.12	0.00063
2210.	0.2222E-00	34226.4	85.20	0.00067
2220.	0.2212E-00	34408.7	85.28	0.00070
2230.	0.2202E-00	34591.6	85.37	0.00074
2240.	0.2192E-00	34775.2	85.45	0.00079
2250.	0.2182E-00	34959.3	85.54	0.00083
2260.	0.2172E-00	35144.0	85.62	0.00088
2270.	0.2163E-00	35329.4	85.70	0.00092
2280.	0.2153E-00	35515.4	85.79	0.00097
2290.	0.2143E-00	35702.1	85.87	0.00103
2300.	0.2134E-00	35889.5	85.96	0.00108
2310.	0.2125E-00	36077.6	86.04	0.00114
2320.	0.2115E-00	36266.4	86.12	0.00120
2330.	0.2106E-00	36456.0	86.21	0.00126
2340.	0.2097E-00	36646.3	86.29	0.00133
2350.	0.2088E-00	36837.4	86.38	0.00139
2360.	0.2079E-00	37029.3	86.46	0.00146
2370.	0.2070E-00	37222.0	86.54	0.00154
2380.	0.2061E-00	37415.6	86.63	0.00161
2390.	0.2052E-00	37610.0	86.71	0.00169
2400.	0.2044E-00	37805.3	86.80	0.00178
2410.	0.2035E-00	38001.5	86.88	0.00186
2420.	0.2026E-00	38198.7	86.97	0.00195
2430.	0.2018E-00	38396.8	87.05	0.00205
2440.	0.2009E-00	38595.9	87.14	0.00214
2450.	0.2001E-00	38795.9	87.22	0.00224
2460.	0.1993E-00	38997.0	87.31	0.00235
2470.	0.1984E-00	39199.2	87.40	0.00246
2480.	0.1976E-00	39402.4	87.48	0.00257
2490.	0.1968E-00	39606.7	87.57	0.00269
2500.	0.1960E-00	39812.2	87.65	0.00281
2510.	0.1952E-00	40018.8	87.74	0.00293
2520.	0.1944E-00	40226.6	87.83	0.00306
2530.	0.1936E-00	40435.6	87.92	0.00320
2540.	0.1928E-00	40645.8	88.00	0.00334
2550.	0.1920E-00	40857.3	88.09	0.00348
2560.	0.1912E-00	41070.1	88.18	0.00363
2570.	0.1905E-00	41284.2	88.27	0.00379
2580.	0.1897E-00	41499.7	88.36	0.00395
2590.	0.1889E-00	41716.6	88.45	0.00411

PRESSURE 20. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.1882E-00	41934.9	88.53	0.00429
2610.	0.1874E-00	42154.6	88.62	0.00446
2620.	0.1867E-00	42375.8	88.71	0.00465
2630.	0.1859E-00	42598.6	88.81	0.00484
2640.	0.1852E-00	42822.9	88.90	0.00503
2650.	0.1844E-00	43048.7	88.99	0.00523
2660.	0.1837E-00	43276.2	89.08	0.00544
2670.	0.1830E-00	43505.3	89.17	0.00566
2680.	0.1823E-00	43736.2	89.26	0.00588
2690.	0.1815E-00	43968.7	89.36	0.00611
2700.	0.1808E-00	44203.0	89.45	0.00634
2710.	0.1801E-00	44439.1	89.54	0.00659
2720.	0.1794E-00	44677.0	89.64	0.00684
2730.	0.1787E-00	44916.8	89.73	0.00710
2740.	0.1780E-00	45158.5	89.83	0.00736
2750.	0.1773E-00	45402.2	89.92	0.00764
2760.	0.1766E-00	45647.8	90.02	0.00792
2770.	0.1759E-00	45895.5	90.12	0.00821
2780.	0.1753E-00	46145.2	90.21	0.00851
2790.	0.1746E-00	46397.0	90.31	0.00882
2800.	0.1739E-00	46650.9	90.41	0.00914
2810.	0.1732E-00	46907.1	90.51	0.00946
2820.	0.1725E-00	47165.5	90.61	0.00980
2830.	0.1719E-00	47426.1	90.71	0.01014
2840.	0.1712E-00	47689.0	90.81	0.01049
2850.	0.1706E-00	47954.3	90.91	0.01086
2860.	0.1699E-00	48222.0	91.02	0.01123
2870.	0.1692E-00	48492.1	91.12	0.01162
2880.	0.1686E-00	48764.8	91.22	0.01201
2890.	0.1679E-00	49039.9	91.33	0.01242
2900.	0.1673E-00	49317.6	91.43	0.01283
2910.	0.1666E-00	49597.9	91.54	0.01326
2920.	0.1660E-00	49880.9	91.64	0.01370
2930.	0.1654E-00	50166.6	91.75	0.01414
2940.	0.1647E-00	50455.1	91.86	0.01461
2950.	0.1641E-00	50746.3	91.96	0.01508
2960.	0.1635E-00	51040.4	92.07	0.01556
2970.	0.1628E-00	51337.4	92.18	0.01606
2980.	0.1622E-00	51637.4	92.29	0.01657
2990.	0.1616E-00	51940.3	92.40	0.01709
3000.	0.1609E-00	52246.3	92.52	0.01762

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.6165E 01	1541.0	42.74	0.
110.	0.5570E 01	1660.3	43.88	0.
120.	0.5084E 01	1781.5	44.94	0.
130.	0.4680E 01	1905.0	45.92	0.
140.	0.4337E 01	2030.5	46.86	0.
150.	0.4042E 01	2158.2	47.74	0.
160.	0.3786E 01	2287.8	48.57	0.
170.	0.3561E 01	2419.2	49.37	0.
180.	0.3362E 01	2552.4	50.13	0.
190.	0.3184E 01	2687.0	50.86	0.
200.	0.3025E 01	2823.1	51.56	0.
210.	0.2881E 01	2960.4	52.23	0.
220.	0.2750E 01	3098.9	52.87	0.
230.	0.2631E 01	3238.3	53.49	0.
240.	0.2521E 01	3378.6	54.09	0.
250.	0.2421E 01	3519.6	54.66	0.
260.	0.2328E 01	3661.4	55.22	0.
270.	0.2242E 01	3803.7	55.76	0.
280.	0.2163E 01	3946.5	56.27	0.
290.	0.2089E 01	4089.7	56.78	0.
300.	0.2019E 01	4233.3	57.26	0.
310.	0.1955E 01	4377.2	57.74	0.
320.	0.1894E 01	4521.3	58.19	0.
330.	0.1837E 01	4665.7	58.64	0.
340.	0.1783E 01	4810.2	59.07	0.
350.	0.1733E 01	4954.9	59.49	0.
360.	0.1685E 01	5099.7	59.90	0.
370.	0.1640E 01	5244.6	60.29	0.
380.	0.1597E 01	5389.5	60.68	0.
390.	0.1556E 01	5534.5	61.06	0.
400.	0.1518E 01	5679.6	61.42	0.
410.	0.1481E 01	5824.7	61.78	0.
420.	0.1446E 01	5969.8	62.13	0.
430.	0.1413E 01	6115.0	62.47	0.
440.	0.1381E 01	6260.2	62.81	0.
450.	0.1350E 01	6405.4	63.13	0.
460.	0.1321E 01	6550.7	63.45	0.
470.	0.1293E 01	6696.0	63.77	0.
480.	0.1266E 01	6841.3	64.07	0.
490.	0.1241E 01	6986.6	64.37	0.
500.	0.1216E 01	7132.0	64.67	0.
510.	0.1192E 01	7277.4	64.95	0.
520.	0.1170E 01	7422.9	65.24	0.
530.	0.1148E 01	7568.3	65.51	0.
540.	0.1127E 01	7713.9	65.78	0.
550.	0.1106E 01	7859.4	66.05	0.
560.	0.1087E 01	8005.0	66.31	0.
570.	0.1068E 01	8150.6	66.57	0.
580.	0.1050E 01	8296.2	66.82	0.
590.	0.1032E 01	8441.8	67.07	0.

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1015E 01	8587.0	67.32	0.
610.	0.9982E 00	8732.6	67.56	0.
620.	0.9822E 00	8878.2	67.80	0.
630.	0.9668E 00	9023.9	68.03	0.
640.	0.9517E 00	9169.6	68.26	0.
650.	0.9372E 00	9315.3	68.49	0.
660.	0.9231E 00	9461.1	68.71	0.
670.	0.9094E 00	9607.0	68.93	0.
680.	0.8961E 00	9752.9	69.14	0.
690.	0.8832E 00	9899.0	69.36	0.
700.	0.8707E 00	10045.1	69.57	0.
710.	0.8585E 00	10191.2	69.77	0.
720.	0.8466E 00	10337.5	69.98	0.
730.	0.8351E 00	10483.9	70.18	0.
740.	0.8239E 00	10630.4	70.38	0.
750.	0.8130E 00	10776.9	70.58	0.
760.	0.8023E 00	10923.6	70.77	0.
770.	0.7920E 00	11070.4	70.96	0.
780.	0.7819E 00	11217.3	71.15	0.
790.	0.7721E 00	11364.3	71.34	0.
800.	0.7625E 00	11511.4	71.53	0.
810.	0.7531E 00	11658.6	71.71	0.
820.	0.7440E 00	11806.0	71.89	0.
830.	0.7351E 00	11953.4	72.07	0.
840.	0.7264E 00	12101.0	72.24	0.
850.	0.7179E 00	12248.7	72.42	0.
860.	0.7096E 00	12396.6	72.59	0.
870.	0.7014E 00	12544.5	72.76	0.
880.	0.6935E 00	12692.6	72.93	0.
890.	0.6858E 00	12840.9	73.10	0.
900.	0.6782E 00	12989.2	73.27	0.
910.	0.6708E 00	13137.7	73.43	0.
920.	0.6635E 00	13286.3	73.59	0.
930.	0.6564E 00	13435.1	73.75	0.
940.	0.6495E 00	13584.0	73.91	0.
950.	0.6427E 00	13733.1	74.07	0.
960.	0.6360E 00	13882.3	74.23	0.
970.	0.6295E 00	14031.6	74.38	0.
980.	0.6231E 00	14181.1	74.53	0.
990.	0.6168E 00	14330.8	74.69	0.
1000.	0.6107E 00	14480.6	74.84	0.
1010.	0.6047E 00	14630.5	74.99	0.
1020.	0.5988E 00	14780.7	75.13	0.
1030.	0.5930E 00	14930.9	75.28	0.
1040.	0.5873E 00	15081.4	75.43	0.
1050.	0.5818E 00	15232.0	75.57	0.
1060.	0.5763E 00	15382.8	75.71	0.
1070.	0.5709E 00	15533.7	75.85	0.
1080.	0.5657E 00	15684.8	76.00	0.
1090.	0.5605E 00	15836.1	76.13	0.

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.5554E 00	15987.5	76.27	0.
1110.	0.5505E 00	16139.2	76.41	0.
1120.	0.5456E 00	16291.0	76.55	0.
1130.	0.5408E 00	16443.0	76.68	0.
1140.	0.5360E 00	16595.2	76.82	0.
1150.	0.5314E 00	16747.5	76.95	0.
1160.	0.5268E 00	16900.1	77.08	0.
1170.	0.5224E 00	17052.8	77.21	0.
1180.	0.5179E 00	17205.7	77.34	0.
1190.	0.5136E 00	17358.8	77.47	0.
1200.	0.5094E 00	17512.2	77.60	0.
1210.	0.5052E 00	17665.7	77.73	0.
1220.	0.5010E 00	17819.4	77.85	0.
1230.	0.4970E-00	17973.3	77.98	0.
1240.	0.4930E-00	18127.4	78.10	0.
1250.	0.4891E-00	18281.7	78.23	0.
1260.	0.4852E-00	18436.3	78.35	0.
1270.	0.4814E-00	18591.0	78.47	0.
1280.	0.4776E-00	18745.9	78.59	0.
1290.	0.4740E-00	18901.1	78.72	0.
1300.	0.4703E-00	19056.5	78.84	0.
1310.	0.4668E-00	19212.1	78.95	0.
1320.	0.4632E-00	19367.9	79.07	0.
1330.	0.4598E-00	19523.9	79.19	0.
1340.	0.4563E-00	19680.2	79.31	0.
1350.	0.4530E-00	19836.7	79.42	0.
1360.	0.4497E-00	19993.4	79.54	0.
1370.	0.4464E-00	20150.3	79.66	0.
1380.	0.4432E-00	20307.5	79.77	0.
1390.	0.4400E-00	20464.9	79.88	0.
1400.	0.4369E-00	20622.5	80.00	0.
1410.	0.4338E-00	20780.4	80.11	0.
1420.	0.4307E-00	20938.5	80.22	0.
1430.	0.4277E-00	21096.9	80.33	0.
1440.	0.4248E-00	21255.5	80.44	0.
1450.	0.4219E-00	21414.4	80.55	0.
1460.	0.4190E-00	21573.5	80.66	0.
1470.	0.4161E-00	21732.8	80.77	0.
1480.	0.4133E-00	21892.4	80.88	0.
1490.	0.4106E-00	22052.3	80.99	0.
1500.	0.4095E-00	22201.2	81.10	0.00000
1510.	0.4067E-00	22361.6	81.21	0.00000
1520.	0.4041E-00	22522.2	81.32	0.00000
1530.	0.4014E-00	22683.0	81.42	0.00000
1540.	0.3988E-00	22844.1	81.53	0.00000
1550.	0.3962E-00	23005.4	81.63	0.00000
1560.	0.3937E-00	23166.8	81.73	0.00000
1570.	0.3912E-00	23328.5	81.84	0.00000
1580.	0.3887E-00	23490.5	81.94	0.00000
1590.	0.3863E-00	23652.6	82.04	0.00000

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.3839E-00	23815.0	82.14	0.00001
1610.	0.3815E-00	23977.6	82.25	0.00001
1620.	0.3791E-00	24140.4	82.35	0.00001
1630.	0.3768E-00	24303.4	82.45	0.00001
1640.	0.3745E-00	24466.7	82.55	0.00001
1650.	0.3722E-00	24630.2	82.65	0.00001
1660.	0.3700E-00	24793.9	82.75	0.00001
1670.	0.3678E-00	24957.8	82.84	0.00001
1680.	0.3656E-00	25121.9	82.94	0.00001
1690.	0.3634E-00	25286.3	83.04	0.00001
1700.	0.3613E-00	25450.9	83.14	0.00001
1710.	0.3592E-00	25615.7	83.23	0.00002
1720.	0.3571E-00	25780.8	83.33	0.00002
1730.	0.3550E-00	25946.1	83.43	0.00002
1740.	0.3530E-00	26111.6	83.52	0.00002
1750.	0.3510E-00	26277.3	83.62	0.00002
1760.	0.3490E-00	26443.3	83.71	0.00003
1770.	0.3470E-00	26609.5	83.81	0.00003
1780.	0.3450E-00	26776.0	83.90	0.00003
1790.	0.3431E-00	26942.6	83.99	0.00003
1800.	0.3412E-00	27109.6	84.09	0.00004
1810.	0.3393E-00	27276.7	84.18	0.00004
1820.	0.3374E-00	27444.1	84.27	0.00004
1830.	0.3356E-00	27611.8	84.36	0.00005
1840.	0.3338E-00	27779.7	84.46	0.00005
1850.	0.3320E-00	27947.9	84.55	0.00005
1860.	0.3302E-00	28116.3	84.64	0.00006
1870.	0.3284E-00	28285.0	84.73	0.00006
1880.	0.3267E-00	28453.9	84.82	0.00007
1890.	0.3249E-00	28623.1	84.91	0.00007
1900.	0.3232E-00	28792.6	85.00	0.00008
1910.	0.3215E-00	28962.4	85.09	0.00009
1920.	0.3199E-00	29132.4	85.18	0.00009
1930.	0.3182E-00	29302.7	85.27	0.00010
1940.	0.3166E-00	29473.3	85.36	0.00011
1950.	0.3149E-00	29644.2	85.44	0.00011
1960.	0.3133E-00	29815.3	85.53	0.00012
1970.	0.3117E-00	29986.8	85.62	0.00013
1980.	0.3102E-00	30158.6	85.71	0.00014
1990.	0.3086E-00	30330.7	85.79	0.00015
2000.	0.3070E-00	30503.1	85.88	0.00016
2010.	0.3055E-00	30675.9	85.97	0.00017
2020.	0.3040E-00	30848.9	86.06	0.00019
2030.	0.3025E-00	31022.4	86.14	0.00020
2040.	0.3010E-00	31196.1	86.23	0.00021
2050.	0.2995E-00	31370.2	86.31	0.00023
2060.	0.2981E-00	31544.7	86.40	0.00024
2070.	0.2966E-00	31719.5	86.48	0.00026
2080.	0.2952E-00	31894.7	86.57	0.00027
2090.	0.2938E-00	32070.3	86.66	0.00029

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.2924E-00	32246.2	86.74	0.00031
2110.	0.2910E-00	32422.6	86.83	0.00033
2120.	0.2896E-00	32599.4	86.91	0.00035
2130.	0.2882E-00	32776.6	86.99	0.00037
2140.	0.2869E-00	32954.2	87.08	0.00040
2150.	0.2855E-00	33132.3	87.16	0.00042
2160.	0.2842E-00	33310.8	87.25	0.00045
2170.	0.2829E-00	33489.8	87.33	0.00047
2180.	0.2816E-00	33669.2	87.41	0.00050
2190.	0.2803E-00	33849.1	87.50	0.00053
2200.	0.2790E-00	34029.6	87.58	0.00056
2210.	0.2777E-00	34210.5	87.67	0.00060
2220.	0.2765E-00	34391.9	87.75	0.00063
2230.	0.2752E-00	34573.9	87.83	0.00067
2240.	0.2740E-00	34756.4	87.92	0.00070
2250.	0.2728E-00	34939.5	88.00	0.00074
2260.	0.2716E-00	35123.1	88.08	0.00078
2270.	0.2703E-00	35307.4	88.17	0.00083
2280.	0.2691E-00	35492.2	88.25	0.00087
2290.	0.2680E-00	35677.6	88.33	0.00092
2300.	0.2668E-00	35863.7	88.42	0.00097
2310.	0.2656E-00	36050.4	88.50	0.00102
2320.	0.2645E-00	36237.8	88.58	0.00107
2330.	0.2633E-00	36425.9	88.67	0.00113
2340.	0.2622E-00	36614.7	88.75	0.00119
2350.	0.2610E-00	36804.1	88.83	0.00125
2360.	0.2599E-00	36994.4	88.92	0.00131
2370.	0.2588E-00	37185.3	89.00	0.00137
2380.	0.2577E-00	37377.0	89.08	0.00144
2390.	0.2566E-00	37569.5	89.17	0.00151
2400.	0.2555E-00	37762.9	89.25	0.00159
2410.	0.2544E-00	37957.0	89.33	0.00167
2420.	0.2534E-00	38152.0	89.42	0.00175
2430.	0.2523E-00	38347.9	89.50	0.00183
2440.	0.2512E-00	38544.6	89.59	0.00192
2450.	0.2502E-00	38742.3	89.67	0.00201
2460.	0.2491E-00	38940.9	89.75	0.00210
2470.	0.2481E-00	39140.4	89.84	0.00220
2480.	0.2471E-00	39340.9	89.92	0.00230
2490.	0.2461E-00	39542.4	90.01	0.00240
2500.	0.2451E-00	39745.0	90.09	0.00251
2510.	0.2441E-00	39948.6	90.18	0.00262
2520.	0.2431E-00	40153.2	90.26	0.00274
2530.	0.2421E-00	40359.0	90.35	0.00286
2540.	0.2411E-00	40565.9	90.43	0.00299
2550.	0.2401E-00	40773.9	90.52	0.00312
2560.	0.2391E-00	40983.1	90.61	0.00325
2570.	0.2382E-00	41193.5	90.69	0.00339
2580.	0.2372E-00	41405.1	90.78	0.00353
2590.	0.2363E-00	41618.0	90.87	0.00368

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.2353E-00	41832.2	90.96	0.00383
2610.	0.2344E-00	42047.6	91.04	0.00399
2620.	0.2335E-00	42264.5	91.13	0.00416
2630.	0.2325E-00	42482.6	91.22	0.00433
2640.	0.2316E-00	42702.2	91.31	0.00450
2650.	0.2307E-00	42923.2	91.40	0.00468
2660.	0.2298E-00	43145.7	91.49	0.00487
2670.	0.2289E-00	43369.7	91.58	0.00506
2680.	0.2280E-00	43595.2	91.67	0.00526
2690.	0.2271E-00	43822.2	91.76	0.00546
2700.	0.2262E-00	44050.8	91.85	0.00567
2710.	0.2253E-00	44281.1	91.94	0.00589
2720.	0.2244E-00	44513.0	92.03	0.00612
2730.	0.2236E-00	44746.5	92.12	0.00635
2740.	0.2227E-00	44981.8	92.21	0.00659
2750.	0.2218E-00	45218.9	92.31	0.00683
2760.	0.2210E-00	45457.7	92.40	0.00708
2770.	0.2201E-00	45698.3	92.49	0.00734
2780.	0.2193E-00	45940.8	92.59	0.00761
2790.	0.2184E-00	46185.2	92.68	0.00789
2800.	0.2176E-00	46431.6	92.78	0.00817
2810.	0.2167E-00	46679.9	92.87	0.00846
2820.	0.2159E-00	46930.2	92.97	0.00876
2830.	0.2151E-00	47182.5	93.07	0.00907
2840.	0.2143E-00	47436.9	93.17	0.00939
2850.	0.2134E-00	47693.4	93.26	0.00971
2860.	0.2126E-00	47952.1	93.36	0.01005
2870.	0.2118E-00	48213.0	93.46	0.01039
2880.	0.2110E-00	48476.1	93.56	0.01074
2890.	0.2102E-00	48741.5	93.66	0.01111
2900.	0.2094E-00	49009.2	93.76	0.01148
2910.	0.2086E-00	49279.2	93.86	0.01186
2920.	0.2078E-00	49551.7	93.96	0.01225
2930.	0.2070E-00	49826.5	94.07	0.01265
2940.	0.2062E-00	50103.9	94.17	0.01306
2950.	0.2054E-00	50383.8	94.27	0.01349
2960.	0.2046E-00	50666.2	94.38	0.01392
2970.	0.2039E-00	50951.2	94.48	0.01436
2980.	0.2031E-00	51238.9	94.59	0.01482
2990.	0.2023E-00	51529.2	94.70	0.01529
3000.	0.2016E-00	51822.3	94.80	0.01576

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.6165E 01	1380.4	41.20	0.
110.	0.5570E 01	1508.1	42.42	0.
120.	0.5084E 01	1639.2	43.56	0.
130.	0.4680E 01	1773.7	44.64	0.
140.	0.4337E 01	1911.0	45.65	0.
150.	0.4042E 01	2050.7	46.62	0.
160.	0.3786E 01	2192.2	47.53	0.
170.	0.3561E 01	2335.1	48.40	0.
180.	0.3362E 01	2479.0	49.22	0.
190.	0.3184E 01	2623.6	50.00	0.
200.	0.3025E 01	2768.6	50.74	0.
210.	0.2881E 01	2913.9	51.45	0.
220.	0.2750E 01	3059.4	52.13	0.
230.	0.2631E 01	3205.0	52.78	0.
240.	0.2521E 01	3350.6	53.40	0.
250.	0.2421E 01	3496.3	53.99	0.
260.	0.2328E 01	3641.9	54.56	0.
270.	0.2242E 01	3787.5	55.11	0.
280.	0.2163E 01	3933.1	55.64	0.
290.	0.2089E 01	4078.7	56.15	0.
300.	0.2019E 01	4224.2	56.65	0.
310.	0.1955E 01	4369.7	57.12	0.
320.	0.1894E 01	4515.2	57.58	0.
330.	0.1837E 01	4660.7	58.03	0.
340.	0.1783E 01	4806.1	58.47	0.
350.	0.1733E 01	4951.6	58.89	0.
360.	0.1685E 01	5097.0	59.30	0.
370.	0.1640E 01	5242.4	59.70	0.
380.	0.1597E 01	5387.7	60.08	0.
390.	0.1556E 01	5533.1	60.46	0.
400.	0.1518E 01	5678.4	60.83	0.
410.	0.1481E 01	5823.8	61.19	0.
420.	0.1446E 01	5969.1	61.54	0.
430.	0.1413E 01	6114.5	61.88	0.
440.	0.1381E 01	6259.8	62.21	0.
450.	0.1350E 01	6405.2	62.54	0.
460.	0.1321E 01	6550.5	62.86	0.
470.	0.1293E 01	6695.9	63.17	0.
480.	0.1266E 01	6841.3	63.48	0.
490.	0.1241E 01	6986.7	63.78	0.
500.	0.1216E 01	7132.1	64.07	0.
510.	0.1192E 01	7277.6	64.36	0.
520.	0.1170E 01	7423.0	64.64	0.
530.	0.1148E 01	7568.5	64.92	0.
540.	0.1127E 01	7714.0	65.19	0.
550.	0.1106E 01	7859.6	65.46	0.
560.	0.1087E 01	8005.1	65.72	0.
570.	0.1068E 01	8150.7	65.98	0.
580.	0.1050E 01	8296.3	66.23	0.
590.	0.1032E 01	8441.9	66.48	0.

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1015E 01	8587.0	66.19	0.
610.	0.9982E 00	8732.6	66.43	0.
620.	0.9822E 00	8878.2	66.66	0.
630.	0.9668E 00	9023.9	66.90	0.
640.	0.9517E 00	9169.6	67.13	0.
650.	0.9372E 00	9315.3	67.35	0.
660.	0.9231E 00	9461.1	67.58	0.
670.	0.9094E 00	9607.0	67.80	0.
680.	0.8961E 00	9752.9	68.01	0.
690.	0.8832E 00	9899.0	68.22	0.
700.	0.8707E 00	10045.1	68.43	0.
710.	0.8585E 00	10191.2	68.64	0.
720.	0.8466E 00	10337.5	68.85	0.
730.	0.8351E 00	10483.9	69.05	0.
740.	0.8239E 00	10630.4	69.25	0.
750.	0.8130E 00	10776.9	69.44	0.
760.	0.8023E 00	10923.6	69.64	0.
770.	0.7920E 00	11070.4	69.83	0.
780.	0.7819E 00	11217.3	70.02	0.
790.	0.7721E 00	11364.3	70.21	0.
800.	0.7625E 00	11511.4	70.39	0.
810.	0.7531E 00	11658.6	70.58	0.
820.	0.7440E 00	11806.0	70.76	0.
830.	0.7351E 00	11953.4	70.94	0.
840.	0.7264E 00	12101.0	71.11	0.
850.	0.7179E 00	12248.7	71.29	0.
860.	0.7096E 00	12396.6	71.46	0.
870.	0.7014E 00	12544.5	71.63	0.
880.	0.6935E 00	12692.6	71.80	0.
890.	0.6858E 00	12840.9	71.97	0.
900.	0.6782E 00	12989.2	72.13	0.
910.	0.6708E 00	13137.7	72.30	0.
920.	0.6635E 00	13286.3	72.46	0.
930.	0.6564E 00	13435.1	72.62	0.
940.	0.6495E 00	13584.0	72.78	0.
950.	0.6427E 00	13733.1	72.94	0.
960.	0.6360E 00	13882.3	73.09	0.
970.	0.6295E 00	14031.6	73.25	0.
980.	0.6231E 00	14181.1	73.40	0.
990.	0.6168E 00	14330.8	73.55	0.
1000.	0.6107E 00	14480.6	73.70	0.
1010.	0.6047E 00	14630.5	73.85	0.
1020.	0.5988E 00	14780.7	74.00	0.
1030.	0.5930E 00	14930.9	74.15	0.
1040.	0.5873E 00	15081.4	74.29	0.
1050.	0.5818E 00	15232.0	74.44	0.
1060.	0.5763E 00	15382.8	74.58	0.
1070.	0.5709E 00	15533.7	74.72	0.
1080.	0.5657E 00	15684.8	74.86	0.
1090.	0.5605E 00	15836.1	75.00	0.

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.5554E 00	15987.5	75.14	0.
1110.	0.5505E 00	16139.2	75.28	0.
1120.	0.5456E 00	16291.0	75.41	0.
1130.	0.5408E 00	16443.0	75.55	0.
1140.	0.5360E 00	16595.2	75.68	0.
1150.	0.5314E 00	16747.5	75.82	0.
1160.	0.5268E 00	16900.1	75.95	0.
1170.	0.5224E 00	17052.8	76.08	0.
1180.	0.5179E 00	17205.7	76.21	0.
1190.	0.5136E 00	17358.8	76.34	0.
1200.	0.5094E 00	17512.2	76.47	0.
1210.	0.5052E 00	17665.7	76.59	0.
1220.	0.5010E 00	17819.4	76.72	0.
1230.	0.4970E-00	17973.3	76.85	0.
1240.	0.4930E-00	18127.4	76.97	0.
1250.	0.4891E-00	18281.7	77.10	0.
1260.	0.4852E-00	18436.3	77.22	0.
1270.	0.4814E-00	18591.0	77.34	0.
1280.	0.4776E-00	18745.9	77.46	0.
1290.	0.4740E-00	18901.1	77.58	0.
1300.	0.4703E-00	19056.5	77.70	0.
1310.	0.4668E-00	19212.1	77.82	0.
1320.	0.4632E-00	19367.9	77.94	0.
1330.	0.4598E-00	19523.9	78.06	0.
1340.	0.4563E-00	19680.2	78.18	0.
1350.	0.4530E-00	19836.7	78.29	0.
1360.	0.4497E-00	19993.4	78.41	0.
1370.	0.4464E-00	20150.3	78.52	0.
1380.	0.4432E-00	20307.5	78.64	0.
1390.	0.4400E-00	20464.9	78.75	0.
1400.	0.4369E-00	20622.5	78.86	0.
1410.	0.4338E-00	20780.4	78.98	0.
1420.	0.4307E-00	20938.5	79.09	0.
1430.	0.4277E-00	21096.9	79.20	0.
1440.	0.4248E-00	21255.5	79.31	0.
1450.	0.4219E-00	21414.4	79.42	0.
1460.	0.4190E-00	21573.5	79.53	0.
1470.	0.4161E-00	21732.8	79.64	0.
1480.	0.4133E-00	21892.4	79.75	0.
1490.	0.4106E-00	22052.3	79.85	0.
1500.	0.4095E-00	22201.2	79.97	0.00000
1510.	0.4067E-00	22361.6	80.08	0.00000
1520.	0.4041E-00	22522.2	80.18	0.00000
1530.	0.4014E-00	22683.0	80.29	0.00000
1540.	0.3988E-00	22844.1	80.39	0.00000
1550.	0.3962E-00	23005.4	80.50	0.00000
1560.	0.3937E-00	23166.8	80.60	0.00000
1570.	0.3912E-00	23328.5	80.70	0.00000
1580.	0.3887E-00	23490.5	80.81	0.00000
1590.	0.3863E-00	23652.6	80.91	0.00000

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.3839E-00	23815.0	81.01	0.00001
1610.	0.3815E-00	23977.6	81.11	0.00001
1620.	0.3791E-00	24140.4	81.21	0.00001
1630.	0.3768E-00	24303.4	81.31	0.00001
1640.	0.3745E-00	24466.7	81.41	0.00001
1650.	0.3722E-00	24630.2	81.51	0.00001
1660.	0.3700E-00	24793.9	81.61	0.00001
1670.	0.3678E-00	24957.8	81.71	0.00001
1680.	0.3656E-00	25121.9	81.81	0.00001
1690.	0.3634E-00	25286.3	81.91	0.00001
1700.	0.3613E-00	25450.9	82.00	0.00001
1710.	0.3592E-00	25615.7	82.10	0.00002
1720.	0.3571E-00	25780.8	82.20	0.00002
1730.	0.3550E-00	25946.1	82.29	0.00002
1740.	0.3530E-00	26111.6	82.39	0.00002
1750.	0.3510E-00	26277.3	82.48	0.00002
1760.	0.3490E-00	26443.3	82.58	0.00003
1770.	0.3470E-00	26609.5	82.67	0.00003
1780.	0.3450E-00	26776.0	82.77	0.00003
1790.	0.3431E-00	26942.6	82.86	0.00003
1800.	0.3412E-00	27109.6	82.95	0.00004
1810.	0.3393E-00	27276.7	83.05	0.00004
1820.	0.3374E-00	27444.1	83.14	0.00004
1830.	0.3356E-00	27611.8	83.23	0.00005
1840.	0.3338E-00	27779.7	83.32	0.00005
1850.	0.3320E-00	27947.9	83.41	0.00005
1860.	0.3302E-00	28116.3	83.51	0.00006
1870.	0.3284E-00	28285.0	83.60	0.00006
1880.	0.3267E-00	28453.9	83.69	0.00007
1890.	0.3249E-00	28623.1	83.78	0.00007
1900.	0.3232E-00	28792.6	83.87	0.00008
1910.	0.3215E-00	28962.4	83.96	0.00009
1920.	0.3199E-00	29132.4	84.05	0.00009
1930.	0.3182E-00	29302.7	84.13	0.00010
1940.	0.3166E-00	29473.3	84.22	0.00011
1950.	0.3149E-00	29644.2	84.31	0.00011
1960.	0.3133E-00	29815.3	84.40	0.00012
1970.	0.3117E-00	29986.8	84.49	0.00013
1980.	0.3102E-00	30158.6	84.57	0.00014
1990.	0.3086E-00	30330.7	84.66	0.00015
2000.	0.3070E-00	30503.1	84.75	0.00016
2010.	0.3055E-00	30675.9	84.84	0.00017
2020.	0.3040E-00	30848.9	84.92	0.00019
2030.	0.3025E-00	31022.4	85.01	0.00020
2040.	0.3010E-00	31196.1	85.10	0.00021
2050.	0.2995E-00	31370.2	85.18	0.00023
2060.	0.2981E-00	31544.7	85.27	0.00024
2070.	0.2966E-00	31719.5	85.35	0.00026
2080.	0.2952E-00	31894.7	85.44	0.00027
2090.	0.2938E-00	32070.3	85.52	0.00029

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.2924E-00	32246.2	85.61	0.00031
2110.	0.2910E-00	32422.6	85.69	0.00033
2120.	0.2896E-00	32599.4	85.78	0.00035
2130.	0.2882E-00	32776.6	85.86	0.00037
2140.	0.2869E-00	32954.2	85.95	0.00040
2150.	0.2855E-00	33132.3	86.03	0.00042
2160.	0.2842E-00	33310.8	86.11	0.00045
2170.	0.2829E-00	33489.8	86.20	0.00047
2180.	0.2816E-00	33669.2	86.28	0.00050
2190.	0.2803E-00	33849.1	86.37	0.00053
2200.	0.2790E-00	34029.6	86.45	0.00056
2210.	0.2777E-00	34210.5	86.53	0.00060
2220.	0.2765E-00	34391.9	86.62	0.00063
2230.	0.2752E-00	34573.9	86.70	0.00067
2240.	0.2740E-00	34756.4	86.78	0.00070
2250.	0.2728E-00	34939.5	86.87	0.00074
2260.	0.2716E-00	35123.1	86.95	0.00078
2270.	0.2703E-00	35307.4	87.03	0.00083
2280.	0.2691E-00	35492.2	87.12	0.00087
2290.	0.2680E-00	35677.6	87.20	0.00092
2300.	0.2668E-00	35863.7	87.28	0.00097
2310.	0.2656E-00	36050.4	87.37	0.00102
2320.	0.2645E-00	36237.8	87.45	0.00107
2330.	0.2633E-00	36425.9	87.53	0.00113
2340.	0.2622E-00	36614.7	87.62	0.00119
2350.	0.2610E-00	36804.1	87.70	0.00125
2360.	0.2599E-00	36994.4	87.78	0.00131
2370.	0.2588E-00	37185.3	87.87	0.00137
2380.	0.2577E-00	37377.0	87.95	0.00144
2390.	0.2566E-00	37569.5	88.03	0.00151
2400.	0.2555E-00	37762.9	88.12	0.00159
2410.	0.2544E-00	37957.0	88.20	0.00167
2420.	0.2534E-00	38152.0	88.28	0.00175
2430.	0.2523E-00	38347.9	88.37	0.00183
2440.	0.2512E-00	38544.6	88.45	0.00192
2450.	0.2502E-00	38742.3	88.54	0.00201
2460.	0.2491E-00	38940.9	88.62	0.00210
2470.	0.2481E-00	39140.4	88.71	0.00220
2480.	0.2471E-00	39340.9	88.79	0.00230
2490.	0.2461E-00	39542.4	88.87	0.00240
2500.	0.2451E-00	39745.0	88.96	0.00251
2510.	0.2441E-00	39948.6	89.05	0.00262
2520.	0.2431E-00	40153.2	89.13	0.00274
2530.	0.2421E-00	40359.0	89.22	0.00286
2540.	0.2411E-00	40565.9	89.30	0.00299
2550.	0.2401E-00	40773.9	89.39	0.00312
2560.	0.2391E-00	40983.1	89.47	0.00325
2570.	0.2382E-00	41193.5	89.56	0.00339
2580.	0.2372E-00	41405.1	89.65	0.00353
2590.	0.2363E-00	41618.0	89.74	0.00368

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.2353E-00	41832.2	89.82	0.00383
2610.	0.2344E-00	42047.6	89.91	0.00399
2620.	0.2335E-00	42264.5	90.00	0.00416
2630.	0.2325E-00	42482.6	90.09	0.00433
2640.	0.2316E-00	42702.2	90.18	0.00450
2650.	0.2307E-00	42923.2	90.26	0.00468
2660.	0.2298E-00	43145.7	90.35	0.00487
2670.	0.2289E-00	43369.7	90.44	0.00506
2680.	0.2280E-00	43595.2	90.53	0.00526
2690.	0.2271E-00	43822.2	90.62	0.00546
2700.	0.2262E-00	44050.8	90.71	0.00567
2710.	0.2253E-00	44281.1	90.81	0.00589
2720.	0.2244E-00	44513.0	90.90	0.00612
2730.	0.2236E-00	44746.5	90.99	0.00635
2740.	0.2227E-00	44981.8	91.08	0.00659
2750.	0.2218E-00	45218.9	91.17	0.00683
2760.	0.2210E-00	45457.7	91.27	0.00708
2770.	0.2201E-00	45698.3	91.36	0.00734
2780.	0.2193E-00	45940.8	91.46	0.00761
2790.	0.2184E-00	46185.2	91.55	0.00789
2800.	0.2176E-00	46431.6	91.65	0.00817
2810.	0.2167E-00	46679.9	91.74	0.00846
2820.	0.2159E-00	46930.2	91.84	0.00876
2830.	0.2151E-00	47182.5	91.94	0.00907
2840.	0.2143E-00	47436.9	92.03	0.00939
2850.	0.2134E-00	47693.4	92.13	0.00971
2860.	0.2126E-00	47952.1	92.23	0.01005
2870.	0.2118E-00	48213.0	92.33	0.01039
2880.	0.2110E-00	48476.1	92.43	0.01074
2890.	0.2102E-00	48741.5	92.53	0.01111
2900.	0.2094E-00	49009.2	92.63	0.01148
2910.	0.2086E-00	49279.2	92.73	0.01186
2920.	0.2078E-00	49551.7	92.83	0.01225
2930.	0.2070E-00	49826.5	92.93	0.01265
2940.	0.2062E-00	50103.9	93.04	0.01306
2950.	0.2054E-00	50383.8	93.14	0.01349
2960.	0.2046E-00	50666.2	93.25	0.01392
2970.	0.2039E-00	50951.2	93.35	0.01436
2980.	0.2031E-00	51238.9	93.46	0.01482
2990.	0.2023E-00	51529.2	93.56	0.01529
3000.	0.2016E-00	51822.3	93.67	0.01576

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.6165E 01	1219.8	38.58	0.
110.	0.5570E 01	1355.8	39.87	0.
120.	0.5084E 01	1496.9	41.10	0.
130.	0.4680E 01	1642.4	42.27	0.
140.	0.4337E 01	1791.5	43.37	0.
150.	0.4042E 01	1943.2	44.42	0.
160.	0.3786E 01	2096.7	45.41	0.
170.	0.3561E 01	2251.0	46.34	0.
180.	0.3362E 01	2405.6	47.23	0.
190.	0.3184E 01	2560.1	48.06	0.
200.	0.3025E 01	2714.1	48.85	0.
210.	0.2881E 01	2867.4	49.60	0.
220.	0.2750E 01	3019.9	50.31	0.
230.	0.2631E 01	3171.7	50.98	0.
240.	0.2521E 01	3322.7	51.63	0.
250.	0.2421E 01	3472.9	52.24	0.
260.	0.2328E 01	3622.4	52.83	0.
270.	0.2242E 01	3771.4	53.39	0.
280.	0.2163E 01	3919.7	53.93	0.
290.	0.2089E 01	4067.7	54.45	0.
300.	0.2019E 01	4215.2	54.95	0.
310.	0.1955E 01	4362.3	55.43	0.
320.	0.1894E 01	4509.1	55.90	0.
330.	0.1837E 01	4655.7	56.35	0.
340.	0.1783E 01	4802.1	56.78	0.
350.	0.1733E 01	4948.2	57.21	0.
360.	0.1685E 01	5094.3	57.62	0.
370.	0.1640E 01	5240.2	58.02	0.
380.	0.1597E 01	5385.9	58.41	0.
390.	0.1556E 01	5531.7	58.79	0.
400.	0.1518E 01	5677.3	59.16	0.
410.	0.1481E 01	5822.9	59.51	0.
420.	0.1446E 01	5968.4	59.87	0.
430.	0.1413E 01	6114.0	60.21	0.
440.	0.1381E 01	6259.5	60.54	0.
450.	0.1350E 01	6405.0	60.87	0.
460.	0.1321E 01	6550.4	61.19	0.
470.	0.1293E 01	6695.9	61.50	0.
480.	0.1266E 01	6841.4	61.81	0.
490.	0.1241E 01	6986.8	62.11	0.
500.	0.1216E 01	7132.3	62.40	0.
510.	0.1192E 01	7277.7	62.69	0.
520.	0.1170E 01	7423.2	62.97	0.
530.	0.1148E 01	7568.7	63.25	0.
540.	0.1127E 01	7714.2	63.52	0.
550.	0.1106E 01	7859.7	63.79	0.
560.	0.1087E 01	8005.2	64.05	0.
570.	0.1068E 01	8150.8	64.31	0.
580.	0.1050E 01	8296.3	64.56	0.
590.	0.1032E 01	8441.9	64.81	0.

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1015E 01	8587.0	65.05	0.
610.	0.9982E 00	8732.6	65.30	0.
620.	0.9822E 00	8878.2	65.53	0.
630.	0.9668E 00	9023.9	65.77	0.
640.	0.9517E 00	9169.6	65.99	0.
650.	0.9372E 00	9315.3	66.22	0.
660.	0.9231E 00	9461.1	66.44	0.
670.	0.9094E 00	9607.0	66.66	0.
680.	0.8961E 00	9752.9	66.88	0.
690.	0.8832E 00	9899.0	67.09	0.
700.	0.8707E 00	10045.1	67.30	0.
710.	0.8585E 00	10191.2	67.51	0.
720.	0.8466E 00	10337.5	67.71	0.
730.	0.8351E 00	10483.9	67.92	0.
740.	0.8239E 00	10630.4	68.12	0.
750.	0.8130E 00	10776.9	68.31	0.
760.	0.8023E 00	10923.6	68.51	0.
770.	0.7920E 00	11070.4	68.70	0.
780.	0.7819E 00	11217.3	68.89	0.
790.	0.7721E 00	11364.3	69.07	0.
800.	0.7625E 00	11511.4	69.26	0.
810.	0.7531E 00	11658.6	69.44	0.
820.	0.7440E 00	11806.0	69.62	0.
830.	0.7351E 00	11953.4	69.80	0.
840.	0.7264E 00	12101.0	69.98	0.
850.	0.7179E 00	12248.7	70.15	0.
860.	0.7096E 00	12396.6	70.33	0.
870.	0.7014E 00	12544.5	70.50	0.
880.	0.6935E 00	12692.6	70.67	0.
890.	0.6858E 00	12840.9	70.83	0.
900.	0.6782E 00	12989.2	71.00	0.
910.	0.6708E 00	13137.7	71.16	0.
920.	0.6635E 00	13286.3	71.33	0.
930.	0.6564E 00	13435.1	71.49	0.
940.	0.6495E 00	13584.0	71.65	0.
950.	0.6427E 00	13733.1	71.80	0.
960.	0.6360E 00	13882.3	71.96	0.
970.	0.6295E 00	14031.6	72.12	0.
980.	0.6231E 00	14181.1	72.27	0.
990.	0.6168E 00	14330.8	72.42	0.
1000.	0.6107E 00	14480.6	72.57	0.
1010.	0.6047E 00	14630.5	72.72	0.
1020.	0.5988E 00	14780.7	72.87	0.
1030.	0.5930E 00	14930.9	73.02	0.
1040.	0.5873E 00	15081.4	73.16	0.
1050.	0.5818E 00	15232.0	73.30	0.
1060.	0.5763E 00	15382.8	73.45	0.
1070.	0.5709E 00	15533.7	73.59	0.
1080.	0.5657E 00	15684.8	73.73	0.
1090.	0.5605E 00	15836.1	73.87	0.

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.5554E 00	15987.5	74.01	0.
1110.	0.5505E 00	16139.2	74.15	0.
1120.	0.5456E 00	16291.0	74.28	0.
1130.	0.5408E 00	16443.0	74.42	0.
1140.	0.5360E 00	16595.2	74.55	0.
1150.	0.5314E 00	16747.5	74.68	0.
1160.	0.5268E 00	16900.1	74.82	0.
1170.	0.5224E 00	17052.8	74.95	0.
1180.	0.5179E 00	17205.7	75.08	0.
1190.	0.5136E 00	17358.8	75.21	0.
1200.	0.5094E 00	17512.2	75.33	0.
1210.	0.5052E 00	17665.7	75.46	0.
1220.	0.5010E 00	17819.4	75.59	0.
1230.	0.4970E-00	17973.3	75.71	0.
1240.	0.4930E-00	18127.4	75.84	0.
1250.	0.4891E-00	18281.7	75.96	0.
1260.	0.4852E-00	18436.3	76.09	0.
1270.	0.4814E-00	18591.0	76.21	0.
1280.	0.4776E-00	18745.9	76.33	0.
1290.	0.4740E-00	18901.1	76.45	0.
1300.	0.4703E-00	19056.5	76.57	0.
1310.	0.4668E-00	19212.1	76.69	0.
1320.	0.4632E-00	19367.9	76.81	0.
1330.	0.4598E-00	19523.9	76.93	0.
1340.	0.4563E-00	19680.2	77.04	0.
1350.	0.4530E-00	19836.7	77.16	0.
1360.	0.4497E-00	19993.4	77.27	0.
1370.	0.4464E-00	20150.3	77.39	0.
1380.	0.4432E-00	20307.5	77.50	0.
1390.	0.4400E-00	20464.9	77.62	0.
1400.	0.4369E-00	20622.5	77.73	0.
1410.	0.4338E-00	20780.4	77.84	0.
1420.	0.4307E-00	20938.5	77.95	0.
1430.	0.4277E-00	21096.9	78.07	0.
1440.	0.4248E-00	21255.5	78.18	0.
1450.	0.4219E-00	21414.4	78.29	0.
1460.	0.4190E-00	21573.5	78.40	0.
1470.	0.4161E-00	21732.8	78.50	0.
1480.	0.4133E-00	21892.4	78.61	0.
1490.	0.4106E-00	22052.3	78.72	0.
1500.	0.4095E-00	22201.2	78.84	0.00000
1510.	0.4067E-00	22361.6	78.94	0.00000
1520.	0.4041E-00	22522.2	79.05	0.00000
1530.	0.4014E-00	22683.0	79.16	0.00000
1540.	0.3988E-00	22844.1	79.26	0.00000
1550.	0.3962E-00	23005.4	79.36	0.00000
1560.	0.3937E-00	23166.8	79.47	0.00000
1570.	0.3912E-00	23328.5	79.57	0.00000
1580.	0.3887E-00	23490.5	79.68	0.00000
1590.	0.3863E-00	23652.6	79.78	0.00000

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.3839E-00	23815.0	79.88	0.00001
1610.	0.3815E-00	23977.6	79.98	0.00001
1620.	0.3791E-00	24140.4	80.08	0.00001
1630.	0.3768E-00	24303.4	80.18	0.00001
1640.	0.3745E-00	24466.7	80.28	0.00001
1650.	0.3722E-00	24630.2	80.38	0.00001
1660.	0.3700E-00	24793.9	80.48	0.00001
1670.	0.3678E-00	24957.8	80.58	0.00001
1680.	0.3656E-00	25121.9	80.68	0.00001
1690.	0.3634E-00	25286.3	80.77	0.00001
1700.	0.3613E-00	25450.9	80.87	0.00001
1710.	0.3592E-00	25615.7	80.97	0.00002
1720.	0.3571E-00	25780.8	81.06	0.00002
1730.	0.3550E-00	25946.1	81.16	0.00002
1740.	0.3530E-00	26111.6	81.26	0.00002
1750.	0.3510E-00	26277.3	81.35	0.00002
1760.	0.3490E-00	26443.3	81.45	0.00003
1770.	0.3470E-00	26609.5	81.54	0.00003
1780.	0.3450E-00	26776.0	81.63	0.00003
1790.	0.3431E-00	26942.6	81.73	0.00003
1800.	0.3412E-00	27109.6	81.82	0.00004
1810.	0.3393E-00	27276.7	81.91	0.00004
1820.	0.3374E-00	27444.1	82.01	0.00004
1830.	0.3356E-00	27611.8	82.10	0.00005
1840.	0.3338E-00	27779.7	82.19	0.00005
1850.	0.3320E-00	27947.9	82.28	0.00005
1860.	0.3302E-00	28116.3	82.37	0.00006
1870.	0.3284E-00	28285.0	82.46	0.00006
1880.	0.3267E-00	28453.9	82.55	0.00007
1890.	0.3249E-00	28623.1	82.64	0.00007
1900.	0.3232E-00	28792.6	82.73	0.00008
1910.	0.3215E-00	28962.4	82.82	0.00009
1920.	0.3199E-00	29132.4	82.91	0.00009
1930.	0.3182E-00	29302.7	83.00	0.00010
1940.	0.3166E-00	29473.3	83.09	0.00011
1950.	0.3149E-00	29644.2	83.18	0.00011
1960.	0.3133E-00	29815.3	83.27	0.00012
1970.	0.3117E-00	29986.8	83.35	0.00013
1980.	0.3102E-00	30158.6	83.44	0.00014
1990.	0.3086E-00	30330.7	83.53	0.00015
2000.	0.3070E-00	30503.1	83.62	0.00016
2010.	0.3055E-00	30675.9	83.70	0.00017
2020.	0.3040E-00	30848.9	83.79	0.00019
2030.	0.3025E-00	31022.4	83.88	0.00020
2040.	0.3010E-00	31196.1	83.96	0.00021
2050.	0.2995E-00	31370.2	84.05	0.00023
2060.	0.2981E-00	31544.7	84.13	0.00024
2070.	0.2966E-00	31719.5	84.22	0.00026
2080.	0.2952E-00	31894.7	84.30	0.00027
2090.	0.2938E-00	32070.3	84.39	0.00029

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.2924E-00	32246.2	84.48	0.00031
2110.	0.2910E-00	32422.6	84.56	0.00033
2120.	0.2896E-00	32599.4	84.64	0.00035
2130.	0.2882E-00	32776.6	84.73	0.00037
2140.	0.2869E-00	32954.2	84.81	0.00040
2150.	0.2855E-00	33132.3	84.90	0.00042
2160.	0.2842E-00	33310.8	84.98	0.00045
2170.	0.2829E-00	33489.8	85.07	0.00047
2180.	0.2816E-00	33669.2	85.15	0.00050
2190.	0.2803E-00	33849.1	85.23	0.00053
2200.	0.2790E-00	34029.6	85.32	0.00056
2210.	0.2777E-00	34210.5	85.40	0.00060
2220.	0.2765E-00	34391.9	85.48	0.00063
2230.	0.2752E-00	34573.9	85.57	0.00067
2240.	0.2740E-00	34756.4	85.65	0.00070
2250.	0.2728E-00	34939.5	85.73	0.00074
2260.	0.2716E-00	35123.1	85.82	0.00078
2270.	0.2703E-00	35307.4	85.90	0.00083
2280.	0.2691E-00	35492.2	85.98	0.00087
2290.	0.2680E-00	35677.6	86.07	0.00092
2300.	0.2668E-00	35863.7	86.15	0.00097
2310.	0.2656E-00	36050.4	86.23	0.00102
2320.	0.2645E-00	36237.8	86.32	0.00107
2330.	0.2633E-00	36425.9	86.40	0.00113
2340.	0.2622E-00	36614.7	86.48	0.00119
2350.	0.2610E-00	36804.1	86.57	0.00125
2360.	0.2599E-00	36994.4	86.65	0.00131
2370.	0.2588E-00	37185.3	86.73	0.00137
2380.	0.2577E-00	37377.0	86.82	0.00144
2390.	0.2566E-00	37569.5	86.90	0.00151
2400.	0.2555E-00	37762.9	86.98	0.00159
2410.	0.2544E-00	37957.0	87.07	0.00167
2420.	0.2534E-00	38152.0	87.15	0.00175
2430.	0.2523E-00	38347.9	87.24	0.00183
2440.	0.2512E-00	38544.6	87.32	0.00192
2450.	0.2502E-00	38742.3	87.40	0.00201
2460.	0.2491E-00	38940.9	87.49	0.00210
2470.	0.2481E-00	39140.4	87.57	0.00220
2480.	0.2471E-00	39340.9	87.66	0.00230
2490.	0.2461E-00	39542.4	87.74	0.00240
2500.	0.2451E-00	39745.0	87.83	0.00251
2510.	0.2441E-00	39948.6	87.91	0.00262
2520.	0.2431E-00	40153.2	88.00	0.00274
2530.	0.2421E-00	40359.0	88.08	0.00286
2540.	0.2411E-00	40565.9	88.17	0.00299
2550.	0.2401E-00	40773.9	88.26	0.00312
2560.	0.2391E-00	40983.1	88.34	0.00325
2570.	0.2382E-00	41193.5	88.43	0.00339
2580.	0.2372E-00	41405.1	88.52	0.00353
2590.	0.2363E-00	41618.0	88.60	0.00368

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.2353E-00	41832.2	88.69	0.00383
2610.	0.2344E-00	42047.6	88.78	0.00399
2620.	0.2335E-00	42264.5	88.87	0.00416
2630.	0.2325E-00	42482.6	88.95	0.00433
2640.	0.2316E-00	42702.2	89.04	0.00450
2650.	0.2307E-00	42923.2	89.13	0.00468
2660.	0.2298E-00	43145.7	89.22	0.00487
2670.	0.2289E-00	43369.7	89.31	0.00506
2680.	0.2280E-00	43595.2	89.40	0.00526
2690.	0.2271E-00	43822.2	89.49	0.00546
2700.	0.2262E-00	44050.8	89.58	0.00567
2710.	0.2253E-00	44281.1	89.67	0.00589
2720.	0.2244E-00	44513.0	89.76	0.00612
2730.	0.2236E-00	44746.5	89.86	0.00635
2740.	0.2227E-00	44981.8	89.95	0.00659
2750.	0.2218E-00	45218.9	90.04	0.00683
2760.	0.2210E-00	45457.7	90.14	0.00708
2770.	0.2201E-00	45698.3	90.23	0.00734
2780.	0.2193E-00	45940.8	90.32	0.00761
2790.	0.2184E-00	46185.2	90.42	0.00789
2800.	0.2176E-00	46431.6	90.51	0.00817
2810.	0.2167E-00	46679.9	90.61	0.00846
2820.	0.2159E-00	46930.2	90.71	0.00876
2830.	0.2151E-00	47182.5	90.80	0.00907
2840.	0.2143E-00	47436.9	90.90	0.00939
2850.	0.2134E-00	47693.4	91.00	0.00971
2860.	0.2126E-00	47952.1	91.10	0.01005
2870.	0.2118E-00	48213.0	91.20	0.01039
2880.	0.2110E-00	48476.1	91.29	0.01074
2890.	0.2102E-00	48741.5	91.39	0.01111
2900.	0.2094E-00	49009.2	91.50	0.01148
2910.	0.2086E-00	49279.2	91.60	0.01186
2920.	0.2078E-00	49551.7	91.70	0.01225
2930.	0.2070E-00	49826.5	91.80	0.01265
2940.	0.2062E-00	50103.9	91.90	0.01306
2950.	0.2054E-00	50383.8	92.01	0.01349
2960.	0.2046E-00	50666.2	92.11	0.01392
2970.	0.2039E-00	50951.2	92.22	0.01436
2980.	0.2031E-00	51238.9	92.32	0.01482
2990.	0.2023E-00	51529.2	92.43	0.01529
3000.	0.2016E-00	51822.3	92.54	0.01576

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.6165E 01	1059.3	34.18	0.
110.	0.5570E 01	1203.6	35.55	0.
120.	0.5084E 01	1354.5	36.86	0.
130.	0.4680E 01	1511.1	38.12	0.
140.	0.4337E 01	1672.0	39.31	0.
150.	0.4042E 01	1835.8	40.44	0.
160.	0.3786E 01	2001.1	41.51	0.
170.	0.3561E 01	2166.9	42.51	0.
180.	0.3362E 01	2332.2	43.46	0.
190.	0.3184E 01	2496.6	44.35	0.
200.	0.3025E 01	2659.5	45.18	0.
210.	0.2881E 01	2820.9	45.97	0.
220.	0.2750E 01	2980.5	46.71	0.
230.	0.2631E 01	3138.4	47.41	0.
240.	0.2521E 01	3294.7	48.08	0.
250.	0.2421E 01	3449.5	48.71	0.
260.	0.2328E 01	3603.0	49.31	0.
270.	0.2242E 01	3755.2	49.89	0.
280.	0.2163E 01	3906.4	50.44	0.
290.	0.2089E 01	4056.6	50.96	0.
300.	0.2019E 01	4206.1	51.47	0.
310.	0.1955E 01	4354.9	51.96	0.
320.	0.1894E 01	4503.0	52.43	0.
330.	0.1837E 01	4650.7	52.88	0.
340.	0.1783E 01	4798.0	53.32	0.
350.	0.1733E 01	4944.9	53.75	0.
360.	0.1685E 01	5091.5	54.16	0.
370.	0.1640E 01	5238.0	54.56	0.
380.	0.1597E 01	5384.2	54.95	0.
390.	0.1556E 01	5530.2	55.33	0.
400.	0.1518E 01	5676.2	55.70	0.
410.	0.1481E 01	5822.0	56.06	0.
420.	0.1446E 01	5967.8	56.41	0.
430.	0.1413E 01	6113.5	56.76	0.
440.	0.1381E 01	6259.1	57.09	0.
450.	0.1350E 01	6404.7	57.42	0.
460.	0.1321E 01	6550.3	57.74	0.
470.	0.1293E 01	6695.9	58.05	0.
480.	0.1266E 01	6841.4	58.36	0.
490.	0.1241E 01	6986.9	58.66	0.
500.	0.1216E 01	7132.4	58.95	0.
510.	0.1192E 01	7277.9	59.24	0.
520.	0.1170E 01	7423.4	59.52	0.
530.	0.1148E 01	7568.9	59.80	0.
540.	0.1127E 01	7714.4	60.07	0.
550.	0.1106E 01	7859.9	60.34	0.
560.	0.1087E 01	8005.4	60.60	0.
570.	0.1068E 01	8150.9	60.86	0.
580.	0.1050E 01	8296.4	61.11	0.
590.	0.1032E 01	8442.0	61.36	0.

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1015E 01	8587.0	63.92	0.
610.	0.9982E 00	8732.6	64.16	0.
620.	0.9822E 00	8878.2	64.40	0.
630.	0.9668E 00	9023.9	64.63	0.
640.	0.9517E 00	9169.6	64.86	0.
650.	0.9372E 00	9315.3	65.09	0.
660.	0.9231E 00	9461.1	65.31	0.
670.	0.9094E 00	9607.0	65.53	0.
680.	0.8961E 00	9752.9	65.75	0.
690.	0.8832E 00	9899.0	65.96	0.
700.	0.8707E 00	10045.1	66.17	0.
710.	0.8585E 00	10191.2	66.38	0.
720.	0.8466E 00	10337.5	66.58	0.
730.	0.8351E 00	10483.9	66.78	0.
740.	0.8239E 00	10630.4	66.98	0.
750.	0.8130E 00	10776.9	67.18	0.
760.	0.8023E 00	10923.6	67.37	0.
770.	0.7920E 00	11070.4	67.57	0.
780.	0.7819E 00	11217.3	67.76	0.
790.	0.7721E 00	11364.3	67.94	0.
800.	0.7625E 00	11511.4	68.13	0.
810.	0.7531E 00	11658.6	68.31	0.
820.	0.7440E 00	11806.0	68.49	0.
830.	0.7351E 00	11953.4	68.67	0.
840.	0.7264E 00	12101.0	68.85	0.
850.	0.7179E 00	12248.7	69.02	0.
860.	0.7096E 00	12396.6	69.19	0.
870.	0.7014E 00	12544.5	69.37	0.
880.	0.6935E 00	12692.6	69.53	0.
890.	0.6858E 00	12840.9	69.70	0.
900.	0.6782E 00	12989.2	69.87	0.
910.	0.6708E 00	13137.7	70.03	0.
920.	0.6635E 00	13286.3	70.19	0.
930.	0.6564E 00	13435.1	70.36	0.
940.	0.6495E 00	13584.0	70.51	0.
950.	0.6427E 00	13733.1	70.67	0.
960.	0.6360E 00	13882.3	70.83	0.
970.	0.6295E 00	14031.6	70.98	0.
980.	0.6231E 00	14181.1	71.14	0.
990.	0.6168E 00	14330.8	71.29	0.
1000.	0.6107E 00	14480.6	71.44	0.
1010.	0.6047E 00	14630.5	71.59	0.
1020.	0.5988E 00	14780.7	71.74	0.
1030.	0.5930E 00	14930.9	71.88	0.
1040.	0.5873E 00	15081.4	72.03	0.
1050.	0.5818E 00	15232.0	72.17	0.
1060.	0.5763E 00	15382.8	72.32	0.
1070.	0.5709E 00	15533.7	72.46	0.
1080.	0.5657E 00	15684.8	72.60	0.
1090.	0.5605E 00	15836.1	72.74	0.

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.5554E 00	15987.5	72.88	0.
1110.	0.5505E 00	16139.2	73.01	0.
1120.	0.5456E 00	16291.0	73.15	0.
1130.	0.5408E 00	16443.0	73.28	0.
1140.	0.5360E 00	16595.2	73.42	0.
1150.	0.5314E 00	16747.5	73.55	0.
1160.	0.5268E 00	16900.1	73.68	0.
1170.	0.5224E 00	17052.8	73.81	0.
1180.	0.5179E 00	17205.7	73.94	0.
1190.	0.5136E 00	17358.8	74.07	0.
1200.	0.5094E 00	17512.2	74.20	0.
1210.	0.5052E 00	17665.7	74.33	0.
1220.	0.5010E 00	17819.4	74.46	0.
1230.	0.4970E-00	17973.3	74.58	0.
1240.	0.4930E-00	18127.4	74.71	0.
1250.	0.4891E-00	18281.7	74.83	0.
1260.	0.4852E-00	18436.3	74.95	0.
1270.	0.4814E-00	18591.0	75.08	0.
1280.	0.4776E-00	18745.9	75.20	0.
1290.	0.4740E-00	18901.1	75.32	0.
1300.	0.4703E-00	19056.5	75.44	0.
1310.	0.4668E-00	19212.1	75.56	0.
1320.	0.4632E-00	19367.9	75.68	0.
1330.	0.4598E-00	19523.9	75.79	0.
1340.	0.4563E-00	19680.2	75.91	0.
1350.	0.4530E-00	19836.7	76.03	0.
1360.	0.4497E-00	19993.4	76.14	0.
1370.	0.4464E-00	20150.3	76.26	0.
1380.	0.4432E-00	20307.5	76.37	0.
1390.	0.4400E-00	20464.9	76.49	0.
1400.	0.4369E-00	20622.5	76.60	0.
1410.	0.4338E-00	20780.4	76.71	0.
1420.	0.4307E-00	20938.5	76.82	0.
1430.	0.4277E-00	21096.9	76.93	0.
1440.	0.4248E-00	21255.5	77.04	0.
1450.	0.4219E-00	21414.4	77.15	0.
1460.	0.4190E-00	21573.5	77.26	0.
1470.	0.4161E-00	21732.8	77.37	0.
1480.	0.4133E-00	21892.4	77.48	0.
1490.	0.4106E-00	22052.3	77.59	0.
1500.	0.4095E-00	22201.2	77.70	0.00000
1510.	0.4067E-00	22361.6	77.81	0.00000
1520.	0.4041E-00	22522.2	77.92	0.00000
1530.	0.4014E-00	22683.0	78.02	0.00000
1540.	0.3988E-00	22844.1	78.13	0.00000
1550.	0.3962E-00	23005.4	78.23	0.00000
1560.	0.3937E-00	23166.8	78.34	0.00000
1570.	0.3912E-00	23328.5	78.44	0.00000
1580.	0.3887E-00	23490.5	78.54	0.00000
1590.	0.3863E-00	23652.6	78.64	0.00000

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.3839E-00	23815.0	78.75	0.00001
1610.	0.3815E-00	23977.6	78.85	0.00001
1620.	0.3791E-00	24140.4	78.95	0.00001
1630.	0.3768E-00	24303.4	79.05	0.00001
1640.	0.3745E-00	24466.7	79.15	0.00001
1650.	0.3722E-00	24630.2	79.25	0.00001
1660.	0.3700E-00	24793.9	79.35	0.00001
1670.	0.3678E-00	24957.8	79.45	0.00001
1680.	0.3656E-00	25121.9	79.54	0.00001
1690.	0.3634E-00	25286.3	79.64	0.00001
1700.	0.3613E-00	25450.9	79.74	0.00001
1710.	0.3592E-00	25615.7	79.84	0.00002
1720.	0.3571E-00	25780.8	79.93	0.00002
1730.	0.3550E-00	25946.1	80.03	0.00002
1740.	0.3530E-00	26111.6	80.12	0.00002
1750.	0.3510E-00	26277.3	80.22	0.00002
1760.	0.3490E-00	26443.3	80.31	0.00003
1770.	0.3470E-00	26609.5	80.41	0.00003
1780.	0.3450E-00	26776.0	80.50	0.00003
1790.	0.3431E-00	26942.6	80.60	0.00003
1800.	0.3412E-00	27109.6	80.69	0.00004
1810.	0.3393E-00	27276.7	80.78	0.00004
1820.	0.3374E-00	27444.1	80.87	0.00004
1830.	0.3356E-00	27611.8	80.97	0.00005
1840.	0.3338E-00	27779.7	81.06	0.00005
1850.	0.3320E-00	27947.9	81.15	0.00005
1860.	0.3302E-00	28116.3	81.24	0.00006
1870.	0.3284E-00	28285.0	81.33	0.00006
1880.	0.3267E-00	28453.9	81.42	0.00007
1890.	0.3249E-00	28623.1	81.51	0.00007
1900.	0.3232E-00	28792.6	81.60	0.00008
1910.	0.3215E-00	28962.4	81.69	0.00009
1920.	0.3199E-00	29132.4	81.78	0.00009
1930.	0.3182E-00	29302.7	81.87	0.00010
1940.	0.3166E-00	29473.3	81.96	0.00011
1950.	0.3149E-00	29644.2	82.05	0.00011
1960.	0.3133E-00	29815.3	82.13	0.00012
1970.	0.3117E-00	29986.8	82.22	0.00013
1980.	0.3102E-00	30158.6	82.31	0.00014
1990.	0.3086E-00	30330.7	82.40	0.00015
2000.	0.3070E-00	30503.1	82.48	0.00016
2010.	0.3055E-00	30675.9	82.57	0.00017
2020.	0.3040E-00	30848.9	82.66	0.00019
2030.	0.3025E-00	31022.4	82.74	0.00020
2040.	0.3010E-00	31196.1	82.83	0.00021
2050.	0.2995E-00	31370.2	82.92	0.00023
2060.	0.2981E-00	31544.7	83.00	0.00024
2070.	0.2966E-00	31719.5	83.09	0.00026
2080.	0.2952E-00	31894.7	83.17	0.00027
2090.	0.2938E-00	32070.3	83.26	0.00029

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.2924E-00	32246.2	83.34	0.00031
2110.	0.2910E-00	32422.6	83.43	0.00033
2120.	0.2896E-00	32599.4	83.51	0.00035
2130.	0.2882E-00	32776.6	83.60	0.00037
2140.	0.2869E-00	32954.2	83.68	0.00040
2150.	0.2855E-00	33132.3	83.77	0.00042
2160.	0.2842E-00	33310.8	83.85	0.00045
2170.	0.2829E-00	33489.8	83.93	0.00047
2180.	0.2816E-00	33669.2	84.02	0.00050
2190.	0.2803E-00	33849.1	84.10	0.00053
2200.	0.2790E-00	34029.6	84.18	0.00056
2210.	0.2777E-00	34210.5	84.27	0.00060
2220.	0.2765E-00	34391.9	84.35	0.00063
2230.	0.2752E-00	34573.9	84.44	0.00067
2240.	0.2740E-00	34756.4	84.52	0.00070
2250.	0.2728E-00	34939.5	84.60	0.00074
2260.	0.2716E-00	35123.1	84.69	0.00078
2270.	0.2703E-00	35307.4	84.77	0.00083
2280.	0.2691E-00	35492.2	84.85	0.00087
2290.	0.2680E-00	35677.6	84.93	0.00092
2300.	0.2668E-00	35863.7	85.02	0.00097
2310.	0.2656E-00	36050.4	85.10	0.00102
2320.	0.2645E-00	36237.8	85.18	0.00107
2330.	0.2633E-00	36425.9	85.27	0.00113
2340.	0.2622E-00	36614.7	85.35	0.00119
2350.	0.2610E-00	36804.1	85.43	0.00125
2360.	0.2599E-00	36994.4	85.52	0.00131
2370.	0.2588E-00	37185.3	85.60	0.00137
2380.	0.2577E-00	37377.0	85.68	0.00144
2390.	0.2566E-00	37569.5	85.77	0.00151
2400.	0.2555E-00	37762.9	85.85	0.00159
2410.	0.2544E-00	37957.0	85.94	0.00167
2420.	0.2534E-00	38152.0	86.02	0.00175
2430.	0.2523E-00	38347.9	86.10	0.00183
2440.	0.2512E-00	38544.6	86.19	0.00192
2450.	0.2502E-00	38742.3	86.27	0.00201
2460.	0.2491E-00	38940.9	86.36	0.00210
2470.	0.2481E-00	39140.4	86.44	0.00220
2480.	0.2471E-00	39340.9	86.52	0.00230
2490.	0.2461E-00	39542.4	86.61	0.00240
2500.	0.2451E-00	39745.0	86.69	0.00251
2510.	0.2441E-00	39948.6	86.78	0.00262
2520.	0.2431E-00	40153.2	86.87	0.00274
2530.	0.2421E-00	40359.0	86.95	0.00286
2540.	0.2411E-00	40565.9	87.04	0.00299
2550.	0.2401E-00	40773.9	87.12	0.00312
2560.	0.2391E-00	40983.1	87.21	0.00325
2570.	0.2382E-00	41193.5	87.30	0.00339
2580.	0.2372E-00	41405.1	87.38	0.00353
2590.	0.2363E-00	41618.0	87.47	0.00368

PRESSURE 25. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.2353E-00	41832.2	87.56	0.00383
2610.	0.2344E-00	42047.6	87.64	0.00399
2620.	0.2335E-00	42264.5	87.73	0.00416
2630.	0.2325E-00	42482.6	87.82	0.00433
2640.	0.2316E-00	42702.2	87.91	0.00450
2650.	0.2307E-00	42923.2	88.00	0.00468
2660.	0.2298E-00	43145.7	88.09	0.00487
2670.	0.2289E-00	43369.7	88.18	0.00506
2680.	0.2280E-00	43595.2	88.27	0.00526
2690.	0.2271E-00	43822.2	88.36	0.00546
2700.	0.2262E-00	44050.8	88.45	0.00567
2710.	0.2253E-00	44281.1	88.54	0.00589
2720.	0.2244E-00	44513.0	88.63	0.00612
2730.	0.2236E-00	44746.5	88.72	0.00635
2740.	0.2227E-00	44981.8	88.82	0.00659
2750.	0.2218E-00	45218.9	88.91	0.00683
2760.	0.2210E-00	45457.7	89.00	0.00708
2770.	0.2201E-00	45698.3	89.10	0.00734
2780.	0.2193E-00	45940.8	89.19	0.00761
2790.	0.2184E-00	46185.2	89.29	0.00789
2800.	0.2176E-00	46431.6	89.38	0.00817
2810.	0.2167E-00	46679.9	89.48	0.00846
2820.	0.2159E-00	46930.2	89.57	0.00876
2830.	0.2151E-00	47182.5	89.67	0.00907
2840.	0.2143E-00	47436.9	89.77	0.00939
2850.	0.2134E-00	47693.4	89.87	0.00971
2860.	0.2126E-00	47952.1	89.96	0.01005
2870.	0.2118E-00	48213.0	90.06	0.01039
2880.	0.2110E-00	48476.1	90.16	0.01074
2890.	0.2102E-00	48741.5	90.26	0.01111
2900.	0.2094E-00	49009.2	90.36	0.01148
2910.	0.2086E-00	49279.2	90.46	0.01186
2920.	0.2078E-00	49551.7	90.57	0.01225
2930.	0.2070E-00	49826.5	90.67	0.01265
2940.	0.2062E-00	50103.9	90.77	0.01306
2950.	0.2054E-00	50383.8	90.88	0.01349
2960.	0.2046E-00	50666.2	90.98	0.01392
2970.	0.2039E-00	50951.2	91.09	0.01436
2980.	0.2031E-00	51238.9	91.19	0.01482
2990.	0.2023E-00	51529.2	91.30	0.01529
3000.	0.2016E-00	51822.3	91.40	0.01576

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.7391E 01	1534.8	41.93	0.
110.	0.6671E 01	1655.4	43.08	0.
120.	0.6086E 01	1777.6	44.15	0.
130.	0.5600E 01	1901.7	45.14	0.
140.	0.5188E 01	2028.0	46.08	0.
150.	0.4835E 01	2156.1	46.96	0.
160.	0.4528E 01	2286.2	47.80	0.
170.	0.4259E 01	2418.1	48.60	0.
180.	0.4021E 01	2551.6	49.36	0.
190.	0.3808E 01	2686.6	50.09	0.
200.	0.3618E 01	2823.0	50.79	0.
210.	0.3445E 01	2960.5	51.46	0.
220.	0.3289E 01	3099.2	52.11	0.
230.	0.3147E 01	3238.8	52.73	0.
240.	0.3016E 01	3379.3	53.33	0.
250.	0.2896E 01	3520.6	53.90	0.
260.	0.2785E 01	3662.5	54.46	0.
270.	0.2683E 01	3804.9	55.00	0.
280.	0.2588E 01	3947.8	55.52	0.
290.	0.2499E 01	4091.2	56.02	0.
300.	0.2416E 01	4234.9	56.51	0.
310.	0.2339E 01	4378.9	56.98	0.
320.	0.2266E 01	4523.2	57.44	0.
330.	0.2198E 01	4667.6	57.88	0.
340.	0.2134E 01	4812.3	58.31	0.
350.	0.2074E 01	4957.0	58.73	0.
360.	0.2017E 01	5101.9	59.14	0.
370.	0.1963E 01	5246.9	59.54	0.
380.	0.1912E 01	5391.9	59.92	0.
390.	0.1863E 01	5537.0	60.30	0.
400.	0.1817E 01	5682.1	60.67	0.
410.	0.1773E 01	5827.3	61.03	0.
420.	0.1731E 01	5972.5	61.38	0.
430.	0.1691E 01	6117.7	61.72	0.
440.	0.1653E 01	6263.0	62.05	0.
450.	0.1617E 01	6408.3	62.38	0.
460.	0.1582E 01	6553.6	62.70	0.
470.	0.1548E 01	6698.9	63.01	0.
480.	0.1517E 01	6844.3	63.32	0.
490.	0.1486E 01	6989.6	63.62	0.
500.	0.1456E 01	7135.1	63.91	0.
510.	0.1428E 01	7280.5	64.20	0.
520.	0.1401E 01	7426.0	64.48	0.
530.	0.1375E 01	7571.5	64.76	0.
540.	0.1349E 01	7717.1	65.03	0.
550.	0.1325E 01	7862.7	65.30	0.
560.	0.1302E 01	8008.3	65.56	0.
570.	0.1279E 01	8153.9	65.82	0.
580.	0.1257E 01	8299.6	66.07	0.
590.	0.1236E 01	8445.2	66.32	0.

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1216E 01	8590.4	66.57	0.
610.	0.1196E 01	8736.0	66.81	0.
620.	0.1177E 01	8881.7	67.04	0.
630.	0.1158E 01	9027.4	67.28	0.
640.	0.1140E 01	9173.1	67.51	0.
650.	0.1123E 01	9318.9	67.73	0.
660.	0.1106E 01	9464.7	67.96	0.
670.	0.1090E 01	9610.6	68.17	0.
680.	0.1074E 01	9756.6	68.39	0.
690.	0.1058E 01	9902.6	68.60	0.
700.	0.1043E 01	10048.7	68.81	0.
710.	0.1029E 01	10194.9	69.02	0.
720.	0.1014E 01	10341.2	69.23	0.
730.	0.1001E 01	10487.6	69.43	0.
740.	0.9872E 00	10634.1	69.63	0.
750.	0.9741E 00	10780.7	69.82	0.
760.	0.9614E 00	10927.4	70.02	0.
770.	0.9490E 00	11074.2	70.21	0.
780.	0.9369E 00	11221.1	70.40	0.
790.	0.9252E 00	11368.1	70.59	0.
800.	0.9137E 00	11515.3	70.77	0.
810.	0.9025E 00	11662.5	70.96	0.
820.	0.8915E 00	11809.9	71.14	0.
830.	0.8809E 00	11957.4	71.31	0.
840.	0.8705E 00	12105.0	71.49	0.
850.	0.8603E 00	12252.7	71.67	0.
860.	0.8504E 00	12400.5	71.84	0.
870.	0.8406E 00	12548.5	72.01	0.
880.	0.8312E 00	12696.6	72.18	0.
890.	0.8219E 00	12844.9	72.35	0.
900.	0.8128E 00	12993.2	72.51	0.
910.	0.8039E 00	13141.8	72.68	0.
920.	0.7952E 00	13290.4	72.84	0.
930.	0.7867E 00	13439.2	73.00	0.
940.	0.7784E 00	13588.1	73.16	0.
950.	0.7703E 00	13737.2	73.32	0.
960.	0.7623E 00	13886.4	73.47	0.
970.	0.7545E 00	14035.7	73.63	0.
980.	0.7469E 00	14185.3	73.78	0.
990.	0.7394E 00	14334.9	73.93	0.
1000.	0.7320E 00	14484.7	74.08	0.
1010.	0.7248E 00	14634.7	74.23	0.
1020.	0.7177E 00	14784.8	74.38	0.
1030.	0.7108E 00	14935.1	74.53	0.
1040.	0.7040E 00	15085.6	74.67	0.
1050.	0.6973E 00	15236.2	74.82	0.
1060.	0.6908E 00	15387.0	74.96	0.
1070.	0.6844E 00	15537.9	75.10	0.
1080.	0.6781E 00	15689.0	75.24	0.
1090.	0.6719E 00	15840.3	75.38	0.

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.6658E 00	15991.8	75.52	0.
1110.	0.6599E 00	16143.4	75.66	0.
1120.	0.6540E 00	16295.3	75.79	0.
1130.	0.6482E 00	16447.3	75.93	0.
1140.	0.6426E 00	16599.4	76.06	0.
1150.	0.6370E 00	16751.8	76.20	0.
1160.	0.6316E 00	16904.4	76.33	0.
1170.	0.6262E 00	17057.1	76.46	0.
1180.	0.6209E 00	17210.0	76.59	0.
1190.	0.6157E 00	17363.2	76.72	0.
1200.	0.6106E 00	17516.5	76.85	0.
1210.	0.6056E 00	17670.0	76.97	0.
1220.	0.6007E 00	17823.7	77.10	0.
1230.	0.5958E 00	17977.7	77.23	0.
1240.	0.5910E 00	18131.8	77.35	0.
1250.	0.5863E 00	18286.1	77.48	0.
1260.	0.5817E 00	18440.6	77.60	0.
1270.	0.5771E 00	18595.4	77.72	0.
1280.	0.5727E 00	18750.3	77.84	0.
1290.	0.5682E 00	18905.5	77.96	0.
1300.	0.5639E 00	19060.9	78.08	0.
1310.	0.5596E 00	19216.5	78.20	0.
1320.	0.5554E 00	19372.3	78.32	0.
1330.	0.5512E 00	19528.3	78.44	0.
1340.	0.5471E 00	19684.6	78.56	0.
1350.	0.5431E 00	19841.1	78.67	0.
1360.	0.5391E 00	19997.8	78.79	0.
1370.	0.5352E 00	20154.8	78.90	0.
1380.	0.5313E 00	20311.9	79.02	0.
1390.	0.5275E 00	20469.4	79.13	0.
1400.	0.5238E 00	20627.0	79.24	0.
1410.	0.5201E 00	20784.9	79.36	0.
1420.	0.5164E 00	20943.0	79.47	0.
1430.	0.5129E 00	21101.4	79.58	0.
1440.	0.5093E 00	21260.0	79.69	0.
1450.	0.5058E 00	21418.9	79.80	0.
1460.	0.5024E 00	21578.0	79.91	0.
1470.	0.4990E-00	21737.3	80.02	0.
1480.	0.4956E-00	21896.9	80.13	0.
1490.	0.4923E-00	22056.8	80.23	0.
1500.	0.4913E-00	22201.2	80.35	0.00000
1510.	0.4881E-00	22361.6	80.46	0.00000
1520.	0.4849E-00	22522.2	80.56	0.00000
1530.	0.4817E-00	22683.0	80.67	0.00000
1540.	0.4786E-00	22844.0	80.77	0.00000
1550.	0.4755E-00	23005.3	80.88	0.00000
1560.	0.4724E-00	23166.8	80.98	0.00000
1570.	0.4694E-00	23328.5	81.09	0.00000
1580.	0.4665E-00	23490.4	81.19	0.00000
1590.	0.4635E-00	23652.5	81.29	0.00000

PRESSURE 30.-ATMOSPHERES,INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.4606E-00	23814.9	81.39	0.00000
1610.	0.4578E-00	23977.5	81.49	0.00001
1620.	0.4549E-00	24140.3	81.59	0.00001
1630.	0.4522E-00	24303.3	81.70	0.00001
1640.	0.4494E-00	24466.5	81.79	0.00001
1650.	0.4467E-00	24630.0	81.89	0.00001
1660.	0.4440E-00	24793.7	81.99	0.00001
1670.	0.4413E-00	24957.6	82.09	0.00001
1680.	0.4387E-00	25121.7	82.19	0.00001
1690.	0.4361E-00	25286.0	82.29	0.00001
1700.	0.4335E-00	25450.6	82.38	0.00001
1710.	0.4310E-00	25615.4	82.48	0.00001
1720.	0.4285E-00	25780.4	82.58	0.00002
1730.	0.4260E-00	25945.7	82.67	0.00002
1740.	0.4236E-00	26111.2	82.77	0.00002
1750.	0.4211E-00	26276.9	82.86	0.00002
1760.	0.4188E-00	26442.8	82.96	0.00002
1770.	0.4164E-00	26609.0	83.05	0.00003
1780.	0.4140E-00	26775.4	83.15	0.00003
1790.	0.4117E-00	26942.0	83.24	0.00003
1800.	0.4094E-00	27108.9	83.33	0.00003
1810.	0.4072E-00	27276.0	83.43	0.00004
1820.	0.4049E-00	27443.3	83.52	0.00004
1830.	0.4027E-00	27610.9	83.61	0.00004
1840.	0.4005E-00	27778.7	83.70	0.00005
1850.	0.3984E-00	27946.8	83.79	0.00005
1860.	0.3962E-00	28115.2	83.89	0.00005
1870.	0.3941E-00	28283.7	83.98	0.00006
1880.	0.3920E-00	28452.6	84.07	0.00006
1890.	0.3899E-00	28621.7	84.16	0.00007
1900.	0.3879E-00	28791.1	84.25	0.00007
1910.	0.3858E-00	28960.7	84.34	0.00008
1920.	0.3838E-00	29130.6	84.42	0.00008
1930.	0.3818E-00	29300.7	84.51	0.00009
1940.	0.3799E-00	29471.2	84.60	0.00010
1950.	0.3779E-00	29641.9	84.69	0.00010
1960.	0.3760E-00	29812.9	84.78	0.00011
1970.	0.3741E-00	29984.2	84.87	0.00012
1980.	0.3722E-00	30155.8	84.95	0.00013
1990.	0.3703E-00	30327.7	85.04	0.00014
2000.	0.3685E-00	30499.9	85.13	0.00015
2010.	0.3666E-00	30672.5	85.21	0.00016
2020.	0.3648E-00	30845.3	85.30	0.00017
2030.	0.3630E-00	31018.5	85.39	0.00018
2040.	0.3612E-00	31191.9	85.47	0.00019
2050.	0.3594E-00	31365.8	85.56	0.00021
2060.	0.3577E-00	31539.9	85.64	0.00022
2070.	0.3560E-00	31714.4	85.73	0.00024
2080.	0.3542E-00	31889.3	85.81	0.00025
2090.	0.3525E-00	32064.5	85.90	0.00027

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.3509E-00	32240.1	85.98	0.00028
2110.	0.3492E-00	32416.1	86.07	0.00030
2120.	0.3475E-00	32592.5	86.15	0.00032
2130.	0.3459E-00	32769.3	86.24	0.00034
2140.	0.3443E-00	32946.4	86.32	0.00036
2150.	0.3427E-00	33124.0	86.40	0.00038
2160.	0.3411E-00	33302.0	86.49	0.00041
2170.	0.3395E-00	33480.5	86.57	0.00043
2180.	0.3379E-00	33659.4	86.66	0.00046
2190.	0.3364E-00	33838.7	86.74	0.00049
2200.	0.3348E-00	34018.5	86.82	0.00051
2210.	0.3333E-00	34198.8	86.91	0.00054
2220.	0.3318E-00	34379.5	86.99	0.00057
2230.	0.3303E-00	34560.8	87.07	0.00061
2240.	0.3288E-00	34742.6	87.15	0.00064
2250.	0.3273E-00	34924.9	87.24	0.00068
2260.	0.3259E-00	35107.7	87.32	0.00071
2270.	0.3244E-00	35291.1	87.40	0.00075
2280.	0.3230E-00	35475.1	87.49	0.00079
2290.	0.3216E-00	35659.6	87.57	0.00084
2300.	0.3202E-00	35844.7	87.65	0.00088
2310.	0.3188E-00	36030.4	87.73	0.00093
2320.	0.3174E-00	36216.7	87.82	0.00098
2330.	0.3160E-00	36403.7	87.90	0.00103
2340.	0.3146E-00	36591.3	87.98	0.00108
2350.	0.3133E-00	36779.6	88.06	0.00114
2360.	0.3119E-00	36968.5	88.15	0.00120
2370.	0.3106E-00	37158.2	88.23	0.00126
2380.	0.3093E-00	37348.6	88.31	0.00132
2390.	0.3080E-00	37539.7	88.40	0.00138
2400.	0.3066E-00	37731.5	88.48	0.00145
2410.	0.3054E-00	37924.1	88.56	0.00152
2420.	0.3041E-00	38117.5	88.64	0.00159
2430.	0.3028E-00	38311.7	88.73	0.00167
2440.	0.3015E-00	38506.8	88.81	0.00175
2450.	0.3003E-00	38702.7	88.89	0.00183
2460.	0.2990E-00	38899.4	88.98	0.00192
2470.	0.2978E-00	39097.0	89.06	0.00201
2480.	0.2966E-00	39295.5	89.14	0.00210
2490.	0.2953E-00	39495.0	89.23	0.00219
2500.	0.2941E-00	39695.4	89.31	0.00229
2510.	0.2929E-00	39896.7	89.40	0.00240
2520.	0.2917E-00	40099.1	89.48	0.00250
2530.	0.2906E-00	40302.5	89.56	0.00261
2540.	0.2894E-00	40506.9	89.65	0.00273
2550.	0.2882E-00	40712.3	89.73	0.00284
2560.	0.2870E-00	40918.9	89.82	0.00297
2570.	0.2859E-00	41126.5	89.90	0.00309
2580.	0.2847E-00	41335.3	89.99	0.00322
2590.	0.2836E-00	41545.2	90.07	0.00336

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.2825E-00	41756.4	90.16	0.00350
2610.	0.2814E-00	41968.7	90.25	0.00364
2620.	0.2802E-00	42182.3	90.33	0.00379
2630.	0.2791E-00	42397.1	90.42	0.00395
2640.	0.2780E-00	42613.2	90.51	0.00411
2650.	0.2769E-00	42830.6	90.59	0.00427
2660.	0.2759E-00	43049.4	90.68	0.00444
2670.	0.2748E-00	43269.5	90.77	0.00462
2680.	0.2737E-00	43491.1	90.86	0.00480
2690.	0.2726E-00	43714.0	90.95	0.00499
2700.	0.2716E-00	43938.5	91.04	0.00518
2710.	0.2705E-00	44164.4	91.12	0.00538
2720.	0.2695E-00	44391.8	91.21	0.00558
2730.	0.2684E-00	44620.8	91.30	0.00580
2740.	0.2674E-00	44851.4	91.39	0.00601
2750.	0.2663E-00	45083.5	91.49	0.00624
2760.	0.2653E-00	45317.3	91.58	0.00647
2770.	0.2643E-00	45552.8	91.67	0.00670
2780.	0.2633E-00	45790.0	91.76	0.00695
2790.	0.2623E-00	46028.9	91.85	0.00720
2800.	0.2613E-00	46269.6	91.95	0.00746
2810.	0.2603E-00	46512.1	92.04	0.00773
2820.	0.2593E-00	46756.5	92.13	0.00800
2830.	0.2583E-00	47002.7	92.23	0.00828
2840.	0.2573E-00	47250.8	92.32	0.00857
2850.	0.2563E-00	47500.9	92.42	0.00887
2860.	0.2554E-00	47752.9	92.51	0.00917
2870.	0.2544E-00	48007.0	92.61	0.00948
2880.	0.2534E-00	48263.1	92.70	0.00981
2890.	0.2525E-00	48521.2	92.80	0.01014
2900.	0.2515E-00	48781.5	92.90	0.01048
2910.	0.2506E-00	49044.0	93.00	0.01083
2920.	0.2496E-00	49308.6	93.10	0.01118
2930.	0.2487E-00	49575.5	93.20	0.01155
2940.	0.2477E-00	49844.7	93.30	0.01193
2950.	0.2468E-00	50116.1	93.40	0.01231
2960.	0.2459E-00	50389.9	93.50	0.01271
2970.	0.2449E-00	50666.1	93.60	0.01311
2980.	0.2440E-00	50944.7	93.70	0.01353
2990.	0.2431E-00	51225.8	93.80	0.01395
3000.	0.2422E-00	51509.3	93.91	0.01439

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.7391E 01	1374.3	40.39	0.
110.	0.6671E 01	1503.1	41.62	0.
120.	0.6086E 01	1635.2	42.77	0.
130.	0.5600E 01	1770.5	43.85	0.
140.	0.5188E 01	1908.5	44.87	0.
150.	0.4835E 01	2048.7	45.84	0.
160.	0.4528E 01	2190.7	46.76	0.
170.	0.4259E 01	2334.0	47.63	0.
180.	0.4021E 01	2478.2	48.45	0.
190.	0.3808E 01	2623.1	49.23	0.
200.	0.3618E 01	2768.4	49.98	0.
210.	0.3445E 01	2914.0	50.69	0.
220.	0.3289E 01	3059.7	51.37	0.
230.	0.3147E 01	3205.5	52.01	0.
240.	0.3016E 01	3351.4	52.64	0.
250.	0.2896E 01	3497.2	53.23	0.
260.	0.2785E 01	3643.0	53.80	0.
270.	0.2683E 01	3788.8	54.35	0.
280.	0.2588E 01	3934.5	54.88	0.
290.	0.2499E 01	4080.2	55.39	0.
300.	0.2416E 01	4225.9	55.89	0.
310.	0.2339E 01	4371.5	56.37	0.
320.	0.2266E 01	4517.1	56.83	0.
330.	0.2198E 01	4662.7	57.28	0.
340.	0.2134E 01	4808.2	57.71	0.
350.	0.2074E 01	4953.7	58.13	0.
360.	0.2017E 01	5099.2	58.54	0.
370.	0.1963E 01	5244.7	58.94	0.
380.	0.1912E 01	5390.1	59.33	0.
390.	0.1863E 01	5535.6	59.71	0.
400.	0.1817E 01	5681.0	60.07	0.
410.	0.1773E 01	5826.4	60.43	0.
420.	0.1731E 01	5971.8	60.78	0.
430.	0.1691E 01	6117.2	61.13	0.
440.	0.1653E 01	6262.6	61.46	0.
450.	0.1617E 01	6408.0	61.79	0.
460.	0.1582E 01	6553.4	62.11	0.
470.	0.1548E 01	6698.9	62.42	0.
480.	0.1517E 01	6844.3	62.73	0.
490.	0.1486E 01	6989.7	63.03	0.
500.	0.1456E 01	7135.2	63.32	0.
510.	0.1428E 01	7280.7	63.61	0.
520.	0.1401E 01	7426.2	63.89	0.
530.	0.1375E 01	7571.7	64.17	0.
540.	0.1349E 01	7717.3	64.44	0.
550.	0.1325E 01	7862.8	64.71	0.
560.	0.1302E 01	8008.4	64.97	0.
570.	0.1279E 01	8154.0	65.23	0.
580.	0.1257E 01	8299.6	65.48	0.
590.	0.1236E 01	8445.3	65.73	0.

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1216E 01	8590.4	65.43	0.
610.	0.1196E 01	8736.0	65.67	0.
620.	0.1177E 01	8881.7	65.91	0.
630.	0.1158E 01	9027.4	66.14	0.
640.	0.1140E 01	9173.1	66.37	0.
650.	0.1123E 01	9318.9	66.60	0.
660.	0.1106E 01	9464.7	66.82	0.
670.	0.1090E 01	9610.6	67.04	0.
680.	0.1074E 01	9756.6	67.26	0.
690.	0.1058E 01	9902.6	67.47	0.
700.	0.1043E 01	10048.7	67.68	0.
710.	0.1029E 01	10194.9	67.89	0.
720.	0.1014E 01	10341.2	68.09	0.
730.	0.1001E 01	10487.6	68.30	0.
740.	0.9872E 00	10634.1	68.49	0.
750.	0.9741E 00	10780.7	68.69	0.
760.	0.9614E 00	10927.4	68.89	0.
770.	0.9490E 00	11074.2	69.08	0.
780.	0.9369E 00	11221.1	69.27	0.
790.	0.9252E 00	11368.1	69.45	0.
800.	0.9137E 00	11515.3	69.64	0.
810.	0.9025E 00	11662.5	69.82	0.
820.	0.8915E 00	11809.9	70.00	0.
830.	0.8809E 00	11957.4	70.18	0.
840.	0.8705E 00	12105.0	70.36	0.
850.	0.8603E 00	12252.7	70.53	0.
860.	0.8504E 00	12400.5	70.71	0.
870.	0.8406E 00	12548.5	70.88	0.
880.	0.8312E 00	12696.6	71.05	0.
890.	0.8219E 00	12844.9	71.21	0.
900.	0.8128E 00	12993.2	71.38	0.
910.	0.8039E 00	13141.8	71.54	0.
920.	0.7952E 00	13290.4	71.71	0.
930.	0.7867E 00	13439.2	71.87	0.
940.	0.7784E 00	13588.1	72.03	0.
950.	0.7703E 00	13737.2	72.18	0.
960.	0.7623E 00	13886.4	72.34	0.
970.	0.7545E 00	14035.7	72.50	0.
980.	0.7469E 00	14185.3	72.65	0.
990.	0.7394E 00	14334.9	72.80	0.
1000.	0.7320E 00	14484.7	72.95	0.
1010.	0.7248E 00	14634.7	73.10	0.
1020.	0.7177E 00	14784.8	73.25	0.
1030.	0.7108E 00	14935.1	73.40	0.
1040.	0.7040E 00	15085.6	73.54	0.
1050.	0.6973E 00	15236.2	73.69	0.
1060.	0.6908E 00	15387.0	73.83	0.
1070.	0.6844E 00	15537.9	73.97	0.
1080.	0.6781E 00	15689.0	74.11	0.
1090.	0.6719E 00	15840.3	74.25	0.

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.6658E 00	15991.8	74.39	0.
1110.	0.6599E 00	16143.4	74.53	0.
1120.	0.6540E 00	16295.3	74.66	0.
1130.	0.6482E 00	16447.3	74.80	0.
1140.	0.6426E 00	16599.4	74.93	0.
1150.	0.6370E 00	16751.8	75.06	0.
1160.	0.6316E 00	16904.4	75.20	0.
1170.	0.6262E 00	17057.1	75.33	0.
1180.	0.6209E 00	17210.0	75.46	0.
1190.	0.6157E 00	17363.2	75.59	0.
1200.	0.6106E 00	17516.5	75.71	0.
1210.	0.6056E 00	17670.0	75.84	0.
1220.	0.6007E 00	17823.7	75.97	0.
1230.	0.5958E 00	17977.7	76.09	0.
1240.	0.5910E 00	18131.8	76.22	0.
1250.	0.5863E 00	18286.1	76.34	0.
1260.	0.5817E 00	18440.6	76.47	0.
1270.	0.5771E 00	18595.4	76.59	0.
1280.	0.5727E 00	18750.3	76.71	0.
1290.	0.5682E 00	18905.5	76.83	0.
1300.	0.5639E 00	19060.9	76.95	0.
1310.	0.5596E 00	19216.5	77.07	0.
1320.	0.5554E 00	19372.3	77.19	0.
1330.	0.5512E 00	19528.3	77.31	0.
1340.	0.5471E 00	19684.6	77.42	0.
1350.	0.5431E 00	19841.1	77.54	0.
1360.	0.5391E 00	19997.8	77.66	0.
1370.	0.5352E 00	20154.8	77.77	0.
1380.	0.5313E 00	20311.9	77.88	0.
1390.	0.5275E 00	20469.4	78.00	0.
1400.	0.5238E 00	20627.0	78.11	0.
1410.	0.5201E 00	20784.9	78.22	0.
1420.	0.5164E 00	20943.0	78.34	0.
1430.	0.5129E 00	21101.4	78.45	0.
1440.	0.5093E 00	21260.0	78.56	0.
1450.	0.5058E 00	21418.9	78.67	0.
1460.	0.5024E 00	21578.0	78.78	0.
1470.	0.4990E-00	21737.3	78.89	0.
1480.	0.4956E-00	21896.9	78.99	0.
1490.	0.4923E-00	22056.8	79.10	0.
1500.	0.4913E-00	22201.2	79.22	0.00000
1510.	0.4881E-00	22361.6	79.32	0.00000
1520.	0.4849E-00	22522.2	79.43	0.00000
1530.	0.4817E-00	22683.0	79.54	0.00000
1540.	0.4786E-00	22844.0	79.64	0.00000
1550.	0.4755E-00	23005.3	79.75	0.00000
1560.	0.4724E-00	23166.8	79.85	0.00000
1570.	0.4694E-00	23328.5	79.95	0.00000
1580.	0.4665E-00	23490.4	80.06	0.00000
1590.	0.4635E-00	23652.5	80.16	0.00000

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.4606E-00	23814.9	80.26	0.00000
1610.	0.4578E-00	23977.5	80.36	0.00001
1620.	0.4549E-00	24140.3	80.46	0.00001
1630.	0.4522E-00	24303.3	80.56	0.00001
1640.	0.4494E-00	24466.5	80.66	0.00001
1650.	0.4467E-00	24630.0	80.76	0.00001
1660.	0.4440E-00	24793.7	80.86	0.00001
1670.	0.4413E-00	24957.6	80.96	0.00001
1680.	0.4387E-00	25121.7	81.06	0.00001
1690.	0.4361E-00	25286.0	81.15	0.00001
1700.	0.4335E-00	25450.6	81.25	0.00001
1710.	0.4310E-00	25615.4	81.35	0.00001
1720.	0.4285E-00	25780.4	81.45	0.00002
1730.	0.4260E-00	25945.7	81.54	0.00002
1740.	0.4236E-00	26111.2	81.64	0.00002
1750.	0.4211E-00	26276.9	81.73	0.00002
1760.	0.4188E-00	26442.8	81.83	0.00002
1770.	0.4164E-00	26609.0	81.92	0.00003
1780.	0.4140E-00	26775.4	82.01	0.00003
1790.	0.4117E-00	26942.0	82.11	0.00003
1800.	0.4094E-00	27108.9	82.20	0.00003
1810.	0.4072E-00	27276.0	82.29	0.00004
1820.	0.4049E-00	27443.3	82.39	0.00004
1830.	0.4027E-00	27610.9	82.48	0.00004
1840.	0.4005E-00	27778.7	82.57	0.00005
1850.	0.3984E-00	27946.8	82.66	0.00005
1860.	0.3962E-00	28115.2	82.75	0.00005
1870.	0.3941E-00	28283.7	82.84	0.00006
1880.	0.3920E-00	28452.6	82.93	0.00006
1890.	0.3899E-00	28621.7	83.02	0.00007
1900.	0.3879E-00	28791.1	83.11	0.00007
1910.	0.3858E-00	28960.7	83.20	0.00008
1920.	0.3838E-00	29130.6	83.29	0.00008
1930.	0.3818E-00	29300.7	83.38	0.00009
1940.	0.3799E-00	29471.2	83.47	0.00010
1950.	0.3779E-00	29641.9	83.56	0.00010
1960.	0.3760E-00	29812.9	83.65	0.00011
1970.	0.3741E-00	29984.2	83.73	0.00012
1980.	0.3722E-00	30155.8	83.82	0.00013
1990.	0.3703E-00	30327.7	83.91	0.00014
2000.	0.3685E-00	30499.9	83.99	0.00015
2010.	0.3666E-00	30672.5	84.08	0.00016
2020.	0.3648E-00	30845.3	84.17	0.00017
2030.	0.3630E-00	31018.5	84.25	0.00018
2040.	0.3612E-00	31191.9	84.34	0.00019
2050.	0.3594E-00	31365.8	84.43	0.00021
2060.	0.3577E-00	31539.9	84.51	0.00022
2070.	0.3560E-00	31714.4	84.60	0.00024
2080.	0.3542E-00	31889.3	84.68	0.00025
2090.	0.3525E-00	32064.5	84.77	0.00027

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.3509E-00	32240.1	84.85	0.00028
2110.	0.3492E-00	32416.1	84.94	0.00030
2120.	0.3475E-00	32592.5	85.02	0.00032
2130.	0.3459E-00	32769.3	85.10	0.00034
2140.	0.3443E-00	32946.4	85.19	0.00036
2150.	0.3427E-00	33124.0	85.27	0.00038
2160.	0.3411E-00	33302.0	85.36	0.00041
2170.	0.3395E-00	33480.5	85.44	0.00043
2180.	0.3379E-00	33659.4	85.52	0.00046
2190.	0.3364E-00	33838.7	85.61	0.00049
2200.	0.3348E-00	34018.5	85.69	0.00051
2210.	0.3333E-00	34198.8	85.77	0.00054
2220.	0.3318E-00	34379.5	85.86	0.00057
2230.	0.3303E-00	34560.8	85.94	0.00061
2240.	0.3288E-00	34742.6	86.02	0.00064
2250.	0.3273E-00	34924.9	86.11	0.00068
2260.	0.3259E-00	35107.7	86.19	0.00071
2270.	0.3244E-00	35291.1	86.27	0.00075
2280.	0.3230E-00	35475.1	86.35	0.00079
2290.	0.3216E-00	35659.6	86.44	0.00084
2300.	0.3202E-00	35844.7	86.52	0.00088
2310.	0.3188E-00	36030.4	86.60	0.00093
2320.	0.3174E-00	36216.7	86.68	0.00098
2330.	0.3160E-00	36403.7	86.77	0.00103
2340.	0.3146E-00	36591.3	86.85	0.00108
2350.	0.3133E-00	36779.6	86.93	0.00114
2360.	0.3119E-00	36968.5	87.01	0.00120
2370.	0.3106E-00	37158.2	87.10	0.00126
2380.	0.3093E-00	37348.6	87.18	0.00132
2390.	0.3080E-00	37539.7	87.26	0.00138
2400.	0.3066E-00	37731.5	87.35	0.00145
2410.	0.3054E-00	37924.1	87.43	0.00152
2420.	0.3041E-00	38117.5	87.51	0.00159
2430.	0.3028E-00	38311.7	87.59	0.00167
2440.	0.3015E-00	38506.8	87.68	0.00175
2450.	0.3003E-00	38702.7	87.76	0.00183
2460.	0.2990E-00	38899.4	87.84	0.00192
2470.	0.2978E-00	39097.0	87.93	0.00201
2480.	0.2966E-00	39295.5	88.01	0.00210
2490.	0.2953E-00	39495.0	88.09	0.00219
2500.	0.2941E-00	39695.4	88.18	0.00229
2510.	0.2929E-00	39896.7	88.26	0.00240
2520.	0.2917E-00	40099.1	88.35	0.00250
2530.	0.2906E-00	40302.5	88.43	0.00261
2540.	0.2894E-00	40506.9	88.52	0.00273
2550.	0.2882E-00	40712.3	88.60	0.00284
2560.	0.2870E-00	40918.9	88.69	0.00297
2570.	0.2859E-00	41126.5	88.77	0.00309
2580.	0.2847E-00	41335.3	88.86	0.00322
2590.	0.2836E-00	41545.2	88.94	0.00336

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.2825E-00	41756.4	89.03	0.00350
2610.	0.2814E-00	41968.7	89.11	0.00364
2620.	0.2802E-00	42182.3	89.20	0.00379
2630.	0.2791E-00	42397.1	89.29	0.00395
2640.	0.2780E-00	42613.2	89.37	0.00411
2650.	0.2769E-00	42830.6	89.46	0.00427
2660.	0.2759E-00	43049.4	89.55	0.00444
2670.	0.2748E-00	43269.5	89.64	0.00462
2680.	0.2737E-00	43491.1	89.73	0.00480
2690.	0.2726E-00	43714.0	89.81	0.00499
2700.	0.2716E-00	43938.5	89.90	0.00518
2710.	0.2705E-00	44164.4	89.99	0.00538
2720.	0.2695E-00	44391.8	90.08	0.00558
2730.	0.2684E-00	44620.8	90.17	0.00580
2740.	0.2674E-00	44851.4	90.26	0.00601
2750.	0.2663E-00	45083.5	90.35	0.00624
2760.	0.2653E-00	45317.3	90.44	0.00647
2770.	0.2643E-00	45552.8	90.54	0.00670
2780.	0.2633E-00	45790.0	90.63	0.00695
2790.	0.2623E-00	46028.9	90.72	0.00720
2800.	0.2613E-00	46269.6	90.81	0.00746
2810.	0.2603E-00	46512.1	90.91	0.00773
2820.	0.2593E-00	46756.5	91.00	0.00800
2830.	0.2583E-00	47002.7	91.09	0.00828
2840.	0.2573E-00	47250.8	91.19	0.00857
2850.	0.2563E-00	47500.9	91.28	0.00887
2860.	0.2554E-00	47752.9	91.38	0.00917
2870.	0.2544E-00	48007.0	91.48	0.00948
2880.	0.2534E-00	48263.1	91.57	0.00981
2890.	0.2525E-00	48521.2	91.67	0.01014
2900.	0.2515E-00	48781.5	91.77	0.01048
2910.	0.2506E-00	49044.0	91.87	0.01083
2920.	0.2496E-00	49308.6	91.96	0.01118
2930.	0.2487E-00	49575.5	92.06	0.01155
2940.	0.2477E-00	49844.7	92.16	0.01193
2950.	0.2468E-00	50116.1	92.26	0.01231
2960.	0.2459E-00	50389.9	92.37	0.01271
2970.	0.2449E-00	50666.1	92.47	0.01311
2980.	0.2440E-00	50944.7	92.57	0.01353
2990.	0.2431E-00	51225.8	92.67	0.01395
3000.	0.2422E-00	51509.3	92.78	0.01439

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.7391E 01	1213.7	37.77	0.
110.	0.6671E 01	1350.9	39.08	0.
120.	0.6086E 01	1492.9	40.31	0.
130.	0.5600E 01	1639.2	41.48	0.
140.	0.5188E 01	1789.0	42.59	0.
150.	0.4835E 01	1941.2	43.64	0.
160.	0.4528E 01	2095.1	44.63	0.
170.	0.4259E 01	2249.9	45.57	0.
180.	0.4021E 01	2404.8	46.46	0.
190.	0.3808E 01	2559.6	47.30	0.
200.	0.3618E 01	2713.9	48.09	0.
210.	0.3445E 01	2867.5	48.84	0.
220.	0.3289E 01	3020.3	49.55	0.
230.	0.3147E 01	3172.2	50.22	0.
240.	0.3016E 01	3323.4	50.87	0.
250.	0.2896E 01	3473.8	51.48	0.
260.	0.2785E 01	3623.5	52.07	0.
270.	0.2683E 01	3772.6	52.63	0.
280.	0.2588E 01	3921.1	53.17	0.
290.	0.2499E 01	4069.2	53.69	0.
300.	0.2416E 01	4216.8	54.19	0.
310.	0.2339E 01	4364.0	54.67	0.
320.	0.2266E 01	4511.0	55.14	0.
330.	0.2198E 01	4657.7	55.59	0.
340.	0.2134E 01	4804.1	56.03	0.
350.	0.2074E 01	4950.4	56.45	0.
360.	0.2017E 01	5096.5	56.86	0.
370.	0.1963E 01	5242.5	57.26	0.
380.	0.1912E 01	5388.3	57.65	0.
390.	0.1863E 01	5534.1	58.03	0.
400.	0.1817E 01	5679.8	58.40	0.
410.	0.1773E 01	5825.5	58.76	0.
420.	0.1731E 01	5971.1	59.11	0.
430.	0.1691E 01	6116.7	59.45	0.
440.	0.1653E 01	6262.2	59.79	0.
450.	0.1617E 01	6407.8	60.11	0.
460.	0.1582E 01	6553.3	60.43	0.
470.	0.1548E 01	6698.8	60.75	0.
480.	0.1517E 01	6844.3	61.05	0.
490.	0.1486E 01	6989.8	61.35	0.
500.	0.1456E 01	7135.3	61.65	0.
510.	0.1428E 01	7280.9	61.94	0.
520.	0.1401E 01	7426.4	62.22	0.
530.	0.1375E 01	7571.9	62.50	0.
540.	0.1349E 01	7717.4	62.77	0.
550.	0.1325E 01	7863.0	63.04	0.
560.	0.1302E 01	8008.5	63.30	0.
570.	0.1279E 01	8154.1	63.55	0.
580.	0.1257E 01	8299.7	63.81	0.
590.	0.1236E 01	8445.3	64.06	0.

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1216E 01	8590.4	64.30	0.
610.	0.1196E 01	8736.0	64.54	0.
620.	0.1177E 01	8881.7	64.78	0.
630.	0.1158E 01	9027.4	65.01	0.
640.	0.1140E 01	9173.1	65.24	0.
650.	0.1123E 01	9318.9	65.47	0.
660.	0.1106E 01	9464.7	65.69	0.
670.	0.1090E 01	9610.6	65.91	0.
680.	0.1074E 01	9756.6	66.13	0.
690.	0.1058E 01	9902.6	66.34	0.
700.	0.1043E 01	10048.7	66.55	0.
710.	0.1029E 01	10194.9	66.76	0.
720.	0.1014E 01	10341.2	66.96	0.
730.	0.1001E 01	10487.6	67.16	0.
740.	0.9872E 00	10634.1	67.36	0.
750.	0.9741E 00	10780.7	67.56	0.
760.	0.9614E 00	10927.4	67.75	0.
770.	0.9490E 00	11074.2	67.95	0.
780.	0.9369E 00	11221.1	68.13	0.
790.	0.9252E 00	11368.1	68.32	0.
800.	0.9137E 00	11515.3	68.51	0.
810.	0.9025E 00	11662.5	68.69	0.
820.	0.8915E 00	11809.9	68.87	0.
830.	0.8809E 00	11957.4	69.05	0.
840.	0.8705E 00	12105.0	69.23	0.
850.	0.8603E 00	12252.7	69.40	0.
860.	0.8504E 00	12400.5	69.57	0.
870.	0.8406E 00	12548.5	69.75	0.
880.	0.8312E 00	12696.6	69.91	0.
890.	0.8219E 00	12844.9	70.08	0.
900.	0.8128E 00	12993.2	70.25	0.
910.	0.8039E 00	13141.8	70.41	0.
920.	0.7952E 00	13290.4	70.57	0.
930.	0.7867E 00	13439.2	70.74	0.
940.	0.7784E 00	13588.1	70.89	0.
950.	0.7703E 00	13737.2	71.05	0.
960.	0.7623E 00	13886.4	71.21	0.
970.	0.7545E 00	14035.7	71.36	0.
980.	0.7469E 00	14185.3	71.52	0.
990.	0.7394E 00	14334.9	71.67	0.
1000.	0.7320E 00	14484.7	71.82	0.
1010.	0.7248E 00	14634.7	71.97	0.
1020.	0.7177E 00	14784.8	72.12	0.
1030.	0.7108E 00	14935.1	72.26	0.
1040.	0.7040E 00	15085.6	72.41	0.
1050.	0.6973E 00	15236.2	72.55	0.
1060.	0.6908E 00	15387.0	72.70	0.
1070.	0.6844E 00	15537.9	72.84	0.
1080.	0.6781E 00	15689.0	72.98	0.
1090.	0.6719E 00	15840.3	73.12	0.

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.6658E 00	15991.8	73.26	0.
1110.	0.6599E 00	16143.4	73.39	0.
1120.	0.6540E 00	16295.3	73.53	0.
1130.	0.6482E 00	16447.3	73.66	0.
1140.	0.6426E 00	16599.4	73.80	0.
1150.	0.6370E 00	16751.8	73.93	0.
1160.	0.6316E 00	16904.4	74.06	0.
1170.	0.6262E 00	17057.1	74.19	0.
1180.	0.6209E 00	17210.0	74.32	0.
1190.	0.6157E 00	17363.2	74.45	0.
1200.	0.6106E 00	17516.5	74.58	0.
1210.	0.6056E 00	17670.0	74.71	0.
1220.	0.6007E 00	17823.7	74.84	0.
1230.	0.5958E 00	17977.7	74.96	0.
1240.	0.5910E 00	18131.8	75.09	0.
1250.	0.5863E 00	18286.1	75.21	0.
1260.	0.5817E 00	18440.6	75.33	0.
1270.	0.5771E 00	18595.4	75.46	0.
1280.	0.5727E 00	18750.3	75.58	0.
1290.	0.5682E 00	18905.5	75.70	0.
1300.	0.5639E 00	19060.9	75.82	0.
1310.	0.5596E 00	19216.5	75.94	0.
1320.	0.5554E 00	19372.3	76.06	0.
1330.	0.5512E 00	19528.3	76.17	0.
1340.	0.5471E 00	19684.6	76.29	0.
1350.	0.5431E 00	19841.1	76.41	0.
1360.	0.5391E 00	19997.8	76.52	0.
1370.	0.5352E 00	20154.8	76.64	0.
1380.	0.5313E 00	20311.9	76.75	0.
1390.	0.5275E 00	20469.4	76.87	0.
1400.	0.5238E 00	20627.0	76.98	0.
1410.	0.5201E 00	20784.9	77.09	0.
1420.	0.5164E 00	20943.0	77.20	0.
1430.	0.5129E 00	21101.4	77.31	0.
1440.	0.5093E 00	21260.0	77.42	0.
1450.	0.5058E 00	21418.9	77.53	0.
1460.	0.5024E 00	21578.0	77.64	0.
1470.	0.4990E-00	21737.3	77.75	0.
1480.	0.4956E-00	21896.9	77.86	0.
1490.	0.4923E-00	22056.8	77.97	0.
1500.	0.4913E-00	22201.2	78.09	0.00000
1510.	0.4881E-00	22361.6	78.19	0.00000
1520.	0.4849E-00	22522.2	78.30	0.00000
1530.	0.4817E-00	22683.0	78.40	0.00000
1540.	0.4786E-00	22844.0	78.51	0.00000
1550.	0.4755E-00	23005.3	78.61	0.00000
1560.	0.4724E-00	23166.8	78.72	0.00000
1570.	0.4694E-00	23328.5	78.82	0.00000
1580.	0.4665E-00	23490.4	78.92	0.00000
1590.	0.4635E-00	23652.5	79.03	0.00000

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.4606E-00	23814.9	79.13	0.00000
1610.	0.4578E-00	23977.5	79.23	0.00001
1620.	0.4549E-00	24140.3	79.33	0.00001
1630.	0.4522E-00	24303.3	79.43	0.00001
1640.	0.4494E-00	24466.5	79.53	0.00001
1650.	0.4467E-00	24630.0	79.63	0.00001
1660.	0.4440E-00	24793.7	79.73	0.00001
1670.	0.4413E-00	24957.6	79.83	0.00001
1680.	0.4387E-00	25121.7	79.92	0.00001
1690.	0.4361E-00	25286.0	80.02	0.00001
1700.	0.4335E-00	25450.6	80.12	0.00001
1710.	0.4310E-00	25615.4	80.22	0.00001
1720.	0.4285E-00	25780.4	80.31	0.00002
1730.	0.4260E-00	25945.7	80.41	0.00002
1740.	0.4236E-00	26111.2	80.50	0.00002
1750.	0.4211E-00	26276.9	80.60	0.00002
1760.	0.4188E-00	26442.8	80.69	0.00002
1770.	0.4164E-00	26609.0	80.79	0.00003
1780.	0.4140E-00	26775.4	80.88	0.00003
1790.	0.4117E-00	26942.0	80.98	0.00003
1800.	0.4094E-00	27108.9	81.07	0.00003
1810.	0.4072E-00	27276.0	81.16	0.00004
1820.	0.4049E-00	27443.3	81.25	0.00004
1830.	0.4027E-00	27610.9	81.35	0.00004
1840.	0.4005E-00	27778.7	81.44	0.00005
1850.	0.3984E-00	27946.8	81.53	0.00005
1860.	0.3962E-00	28115.2	81.62	0.00005
1870.	0.3941E-00	28283.7	81.71	0.00006
1880.	0.3920E-00	28452.6	81.80	0.00006
1890.	0.3899E-00	28621.7	81.89	0.00007
1900.	0.3879E-00	28791.1	81.98	0.00007
1910.	0.3858E-00	28960.7	82.07	0.00008
1920.	0.3838E-00	29130.6	82.16	0.00008
1930.	0.3818E-00	29300.7	82.25	0.00009
1940.	0.3799E-00	29471.2	82.34	0.00010
1950.	0.3779E-00	29641.9	82.42	0.00010
1960.	0.3760E-00	29812.9	82.51	0.00011
1970.	0.3741E-00	29984.2	82.60	0.00012
1980.	0.3722E-00	30155.8	82.69	0.00013
1990.	0.3703E-00	30327.7	82.78	0.00014
2000.	0.3685E-00	30499.9	82.86	0.00015
2010.	0.3666E-00	30672.5	82.95	0.00016
2020.	0.3648E-00	30845.3	83.04	0.00017
2030.	0.3630E-00	31018.5	83.12	0.00018
2040.	0.3612E-00	31191.9	83.21	0.00019
2050.	0.3594E-00	31365.8	83.29	0.00021
2060.	0.3577E-00	31539.9	83.38	0.00022
2070.	0.3560E-00	31714.4	83.46	0.00024
2080.	0.3542E-00	31889.3	83.55	0.00025
2090.	0.3525E-00	32064.5	83.63	0.00027

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.3509E-00	32240.1	83.72	0.00028
2110.	0.3492E-00	32416.1	83.80	0.00030
2120.	0.3475E-00	32592.5	83.89	0.00032
2130.	0.3459E-00	32769.3	83.97	0.00034
2140.	0.3443E-00	32946.4	84.06	0.00036
2150.	0.3427E-00	33124.0	84.14	0.00038
2160.	0.3411E-00	33302.0	84.22	0.00041
2170.	0.3395E-00	33480.5	84.31	0.00043
2180.	0.3379E-00	33659.4	84.39	0.00046
2190.	0.3364E-00	33838.7	84.47	0.00049
2200.	0.3348E-00	34018.5	84.56	0.00051
2210.	0.3333E-00	34198.8	84.64	0.00054
2220.	0.3318E-00	34379.5	84.72	0.00057
2230.	0.3303E-00	34560.8	84.81	0.00061
2240.	0.3288E-00	34742.6	84.89	0.00064
2250.	0.3273E-00	34924.9	84.97	0.00068
2260.	0.3259E-00	35107.7	85.06	0.00071
2270.	0.3244E-00	35291.1	85.14	0.00075
2280.	0.3230E-00	35475.1	85.22	0.00079
2290.	0.3216E-00	35659.6	85.30	0.00084
2300.	0.3202E-00	35844.7	85.39	0.00088
2310.	0.3188E-00	36030.4	85.47	0.00093
2320.	0.3174E-00	36216.7	85.55	0.00098
2330.	0.3160E-00	36403.7	85.63	0.00103
2340.	0.3146E-00	36591.3	85.72	0.00108
2350.	0.3133E-00	36779.6	85.80	0.00114
2360.	0.3119E-00	36968.5	85.88	0.00120
2370.	0.3106E-00	37158.2	85.96	0.00126
2380.	0.3093E-00	37348.6	86.05	0.00132
2390.	0.3080E-00	37539.7	86.13	0.00138
2400.	0.3066E-00	37731.5	86.21	0.00145
2410.	0.3054E-00	37924.1	86.30	0.00152
2420.	0.3041E-00	38117.5	86.38	0.00159
2430.	0.3028E-00	38311.7	86.46	0.00167
2440.	0.3015E-00	38506.8	86.54	0.00175
2450.	0.3003E-00	38702.7	86.63	0.00183
2460.	0.2990E-00	38899.4	86.71	0.00192
2470.	0.2978E-00	39097.0	86.79	0.00201
2480.	0.2966E-00	39295.5	86.88	0.00210
2490.	0.2953E-00	39495.0	86.96	0.00219
2500.	0.2941E-00	39695.4	87.05	0.00229
2510.	0.2929E-00	39896.7	87.13	0.00240
2520.	0.2917E-00	40099.1	87.21	0.00250
2530.	0.2906E-00	40302.5	87.30	0.00261
2540.	0.2894E-00	40506.9	87.38	0.00273
2550.	0.2882E-00	40712.3	87.47	0.00284
2560.	0.2870E-00	40918.9	87.55	0.00297
2570.	0.2859E-00	41126.5	87.64	0.00309
2580.	0.2847E-00	41335.3	87.72	0.00322
2590.	0.2836E-00	41545.2	87.81	0.00336

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.2825E-00	41756.4	87.90	0.00350
2610.	0.2814E-00	41968.7	87.98	0.00364
2620.	0.2802E-00	42182.3	88.07	0.00379
2630.	0.2791E-00	42397.1	88.15	0.00395
2640.	0.2780E-00	42613.2	88.24	0.00411
2650.	0.2769E-00	42830.6	88.33	0.00427
2660.	0.2759E-00	43049.4	88.42	0.00444
2670.	0.2748E-00	43269.5	88.50	0.00462
2680.	0.2737E-00	43491.1	88.59	0.00480
2690.	0.2726E-00	43714.0	88.68	0.00499
2700.	0.2716E-00	43938.5	88.77	0.00518
2710.	0.2705E-00	44164.4	88.86	0.00538
2720.	0.2695E-00	44391.8	88.95	0.00558
2730.	0.2684E-00	44620.8	89.04	0.00580
2740.	0.2674E-00	44851.4	89.13	0.00601
2750.	0.2663E-00	45083.5	89.22	0.00624
2760.	0.2653E-00	45317.3	89.31	0.00647
2770.	0.2643E-00	45552.8	89.40	0.00670
2780.	0.2633E-00	45790.0	89.49	0.00695
2790.	0.2623E-00	46028.9	89.59	0.00720
2800.	0.2613E-00	46269.6	89.68	0.00746
2810.	0.2603E-00	46512.1	89.77	0.00773
2820.	0.2593E-00	46756.5	89.87	0.00800
2830.	0.2583E-00	47002.7	89.96	0.00828
2840.	0.2573E-00	47250.8	90.06	0.00857
2850.	0.2563E-00	47500.9	90.15	0.00887
2860.	0.2554E-00	47752.9	90.25	0.00917
2870.	0.2544E-00	48007.0	90.34	0.00948
2880.	0.2534E-00	48263.1	90.44	0.00981
2890.	0.2525E-00	48521.2	90.54	0.01014
2900.	0.2515E-00	48781.5	90.63	0.01048
2910.	0.2506E-00	49044.0	90.73	0.01083
2920.	0.2496E-00	49308.6	90.83	0.01118
2930.	0.2487E-00	49575.5	90.93	0.01155
2940.	0.2477E-00	49844.7	91.03	0.01193
2950.	0.2468E-00	50116.1	91.13	0.01231
2960.	0.2459E-00	50389.9	91.23	0.01271
2970.	0.2449E-00	50666.1	91.33	0.01311
2980.	0.2440E-00	50944.7	91.44	0.01353
2990.	0.2431E-00	51225.8	91.54	0.01395
3000.	0.2422E-00	51509.3	91.64	0.01439

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.7391E 01	1053.1	33.37	0.
110.	0.6671E 01	1198.7	34.75	0.
120.	0.6086E 01	1350.5	36.07	0.
130.	0.5600E 01	1507.9	37.33	0.
140.	0.5188E 01	1669.5	38.53	0.
150.	0.4835E 01	1833.8	39.66	0.
160.	0.4528E 01	1999.6	40.73	0.
170.	0.4259E 01	2165.8	41.74	0.
180.	0.4021E 01	2331.5	42.69	0.
190.	0.3808E 01	2496.1	43.58	0.
200.	0.3618E 01	2659.4	44.42	0.
210.	0.3445E 01	2821.0	45.20	0.
220.	0.3289E 01	2980.8	45.95	0.
230.	0.3147E 01	3138.9	46.65	0.
240.	0.3016E 01	3295.4	47.32	0.
250.	0.2896E 01	3450.4	47.95	0.
260.	0.2785E 01	3604.0	48.55	0.
270.	0.2683E 01	3756.4	49.13	0.
280.	0.2588E 01	3907.8	49.68	0.
290.	0.2499E 01	4058.2	50.21	0.
300.	0.2416E 01	4207.7	50.71	0.
310.	0.2339E 01	4356.6	51.20	0.
320.	0.2266E 01	4504.9	51.67	0.
330.	0.2198E 01	4652.7	52.13	0.
340.	0.2134E 01	4800.0	52.57	0.
350.	0.2074E 01	4947.1	52.99	0.
360.	0.2017E 01	5093.8	53.41	0.
370.	0.1963E 01	5240.3	53.81	0.
380.	0.1912E 01	5386.6	54.20	0.
390.	0.1863E 01	5532.7	54.58	0.
400.	0.1817E 01	5678.7	54.95	0.
410.	0.1773E 01	5824.6	55.31	0.
420.	0.1731E 01	5970.4	55.66	0.
430.	0.1691E 01	6116.2	56.00	0.
440.	0.1653E 01	6261.9	56.34	0.
450.	0.1617E 01	6407.5	56.66	0.
460.	0.1582E 01	6553.2	56.98	0.
470.	0.1548E 01	6698.8	57.30	0.
480.	0.1517E 01	6844.4	57.60	0.
490.	0.1486E 01	6989.9	57.90	0.
500.	0.1456E 01	7135.5	58.20	0.
510.	0.1428E 01	7281.0	58.49	0.
520.	0.1401E 01	7426.6	58.77	0.
530.	0.1375E 01	7572.1	59.05	0.
540.	0.1349E 01	7717.6	59.32	0.
550.	0.1325E 01	7863.1	59.58	0.
560.	0.1302E 01	8008.7	59.85	0.
570.	0.1279E 01	8154.2	60.10	0.
580.	0.1257E 01	8299.8	60.36	0.
590.	0.1236E 01	8445.4	60.61	0.

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1216E 01	8590.4	63.17	0.
610.	0.1196E 01	8736.0	63.41	0.
620.	0.1177E 01	8881.7	63.65	0.
630.	0.1158E 01	9027.4	63.88	0.
640.	0.1140E 01	9173.1	64.11	0.
650.	0.1123E 01	9318.9	64.33	0.
660.	0.1106E 01	9464.7	64.56	0.
670.	0.1090E 01	9610.6	64.78	0.
680.	0.1074E 01	9756.6	64.99	0.
690.	0.1058E 01	9902.6	65.21	0.
700.	0.1043E 01	10048.7	65.42	0.
710.	0.1029E 01	10194.9	65.62	0.
720.	0.1014E 01	10341.2	65.83	0.
730.	0.1001E 01	10487.6	66.03	0.
740.	0.9872E 00	10634.1	66.23	0.
750.	0.9741E 00	10780.7	66.43	0.
760.	0.9614E 00	10927.4	66.62	0.
770.	0.9490E 00	11074.2	66.81	0.
780.	0.9369E 00	11221.1	67.00	0.
790.	0.9252E 00	11368.1	67.19	0.
800.	0.9137E 00	11515.3	67.37	0.
810.	0.9025E 00	11662.5	67.56	0.
820.	0.8915E 00	11809.9	67.74	0.
830.	0.8809E 00	11957.4	67.92	0.
840.	0.8705E 00	12105.0	68.09	0.
850.	0.8603E 00	12252.7	68.27	0.
860.	0.8504E 00	12400.5	68.44	0.
870.	0.8406E 00	12548.5	68.61	0.
880.	0.8312E 00	12696.6	68.78	0.
890.	0.8219E 00	12844.9	68.95	0.
900.	0.8128E 00	12993.2	69.12	0.
910.	0.8039E 00	13141.8	69.28	0.
920.	0.7952E 00	13290.4	69.44	0.
930.	0.7867E 00	13439.2	69.60	0.
940.	0.7784E 00	13588.1	69.76	0.
950.	0.7703E 00	13737.2	69.92	0.
960.	0.7623E 00	13886.4	70.08	0.
970.	0.7545E 00	14035.7	70.23	0.
980.	0.7469E 00	14185.3	70.38	0.
990.	0.7394E 00	14334.9	70.54	0.
1000.	0.7320E 00	14484.7	70.69	0.
1010.	0.7248E 00	14634.7	70.84	0.
1020.	0.7177E 00	14784.8	70.98	0.
1030.	0.7108E 00	14935.1	71.13	0.
1040.	0.7040E 00	15085.6	71.28	0.
1050.	0.6973E 00	15236.2	71.42	0.
1060.	0.6908E 00	15387.0	71.56	0.
1070.	0.6844E 00	15537.9	71.70	0.
1080.	0.6781E 00	15689.0	71.85	0.
1090.	0.6719E 00	15840.3	71.98	0.

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.6658E 00	15991.8	72.12	0.
1110.	0.6599E 00	16143.4	72.26	0.
1120.	0.6540E 00	16295.3	72.40	0.
1130.	0.6482E 00	16447.3	72.53	0.
1140.	0.6426E 00	16599.4	72.67	0.
1150.	0.6370E 00	16751.8	72.80	0.
1160.	0.6316E 00	16904.4	72.93	0.
1170.	0.6262E 00	17057.1	73.06	0.
1180.	0.6209E 00	17210.0	73.19	0.
1190.	0.6157E 00	17363.2	73.32	0.
1200.	0.6106E 00	17516.5	73.45	0.
1210.	0.6056E 00	17670.0	73.58	0.
1220.	0.6007E 00	17823.7	73.70	0.
1230.	0.5958E 00	17977.7	73.83	0.
1240.	0.5910E 00	18131.8	73.95	0.
1250.	0.5863E 00	18286.1	74.08	0.
1260.	0.5817E 00	18440.6	74.20	0.
1270.	0.5771E 00	18595.4	74.32	0.
1280.	0.5727E 00	18750.3	74.44	0.
1290.	0.5682E 00	18905.5	74.57	0.
1300.	0.5639E 00	19060.9	74.69	0.
1310.	0.5596E 00	19216.5	74.80	0.
1320.	0.5554E 00	19372.3	74.92	0.
1330.	0.5512E 00	19528.3	75.04	0.
1340.	0.5471E 00	19684.6	75.16	0.
1350.	0.5431E 00	19841.1	75.27	0.
1360.	0.5391E 00	19997.8	75.39	0.
1370.	0.5352E 00	20154.8	75.50	0.
1380.	0.5313E 00	20311.9	75.62	0.
1390.	0.5275E 00	20469.4	75.73	0.
1400.	0.5238E 00	20627.0	75.85	0.
1410.	0.5201E 00	20784.9	75.96	0.
1420.	0.5164E 00	20943.0	76.07	0.
1430.	0.5129E 00	21101.4	76.18	0.
1440.	0.5093E 00	21260.0	76.29	0.
1450.	0.5058E 00	21418.9	76.40	0.
1460.	0.5024E 00	21578.0	76.51	0.
1470.	0.4990E-00	21737.3	76.62	0.
1480.	0.4956E-00	21896.9	76.73	0.
1490.	0.4923E-00	22056.8	76.84	0.
1500.	0.4913E-00	22201.2	76.95	0.00000
1510.	0.4881E-00	22361.6	77.06	0.00000
1520.	0.4849E-00	22522.2	77.17	0.00000
1530.	0.4817E-00	22683.0	77.27	0.00000
1540.	0.4786E-00	22844.0	77.38	0.00000
1550.	0.4755E-00	23005.3	77.48	0.00000
1560.	0.4724E-00	23166.8	77.58	0.00000
1570.	0.4694E-00	23328.5	77.69	0.00000
1580.	0.4665E-00	23490.4	77.79	0.00000
1590.	0.4635E-00	23652.5	77.89	0.00000

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.4606E-00	23814.9	77.99	0.00000
1610.	0.4578E-00	23977.5	78.10	0.00001
1620.	0.4549E-00	24140.3	78.20	0.00001
1630.	0.4522E-00	24303.3	78.30	0.00001
1640.	0.4494E-00	24466.5	78.40	0.00001
1650.	0.4467E-00	24630.0	78.50	0.00001
1660.	0.4440E-00	24793.7	78.60	0.00001
1670.	0.4413E-00	24957.6	78.69	0.00001
1680.	0.4387E-00	25121.7	78.79	0.00001
1690.	0.4361E-00	25286.0	78.89	0.00001
1700.	0.4335E-00	25450.6	78.99	0.00001
1710.	0.4310E-00	25615.4	79.08	0.00001
1720.	0.4285E-00	25780.4	79.18	0.00002
1730.	0.4260E-00	25945.7	79.28	0.00002
1740.	0.4236E-00	26111.2	79.37	0.00002
1750.	0.4211E-00	26276.9	79.47	0.00002
1760.	0.4188E-00	26442.8	79.56	0.00002
1770.	0.4164E-00	26609.0	79.66	0.00003
1780.	0.4140E-00	26775.4	79.75	0.00003
1790.	0.4117E-00	26942.0	79.84	0.00003
1800.	0.4094E-00	27108.9	79.94	0.00003
1810.	0.4072E-00	27276.0	80.03	0.00004
1820.	0.4049E-00	27443.3	80.12	0.00004
1830.	0.4027E-00	27610.9	80.21	0.00004
1840.	0.4005E-00	27778.7	80.31	0.00005
1850.	0.3984E-00	27946.8	80.40	0.00005
1860.	0.3962E-00	28115.2	80.49	0.00005
1870.	0.3941E-00	28283.7	80.58	0.00006
1880.	0.3920E-00	28452.6	80.67	0.00006
1890.	0.3899E-00	28621.7	80.76	0.00007
1900.	0.3879E-00	28791.1	80.85	0.00007
1910.	0.3858E-00	28960.7	80.94	0.00008
1920.	0.3838E-00	29130.6	81.03	0.00008
1930.	0.3818E-00	29300.7	81.12	0.00009
1940.	0.3799E-00	29471.2	81.20	0.00010
1950.	0.3779E-00	29641.9	81.29	0.00010
1960.	0.3760E-00	29812.9	81.38	0.00011
1970.	0.3741E-00	29984.2	81.47	0.00012
1980.	0.3722E-00	30155.8	81.56	0.00013
1990.	0.3703E-00	30327.7	81.64	0.00014
2000.	0.3685E-00	30499.9	81.73	0.00015
2010.	0.3666E-00	30672.5	81.82	0.00016
2020.	0.3648E-00	30845.3	81.90	0.00017
2030.	0.3630E-00	31018.5	81.99	0.00018
2040.	0.3612E-00	31191.9	82.07	0.00019
2050.	0.3594E-00	31365.8	82.16	0.00021
2060.	0.3577E-00	31539.9	82.25	0.00022
2070.	0.3560E-00	31714.4	82.33	0.00024
2080.	0.3542E-00	31889.3	82.42	0.00025
2090.	0.3525E-00	32064.5	82.50	0.00027

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.3509E-00	32240.1	82.59	0.00028
2110.	0.3492E-00	32416.1	82.67	0.00030
2120.	0.3475E-00	32592.5	82.75	0.00032
2130.	0.3459E-00	32769.3	82.84	0.00034
2140.	0.3443E-00	32946.4	82.92	0.00036
2150.	0.3427E-00	33124.0	83.01	0.00038
2160.	0.3411E-00	33302.0	83.09	0.00041
2170.	0.3395E-00	33480.5	83.17	0.00043
2180.	0.3379E-00	33659.4	83.26	0.00046
2190.	0.3364E-00	33838.7	83.34	0.00049
2200.	0.3348E-00	34018.5	83.42	0.00051
2210.	0.3333E-00	34198.8	83.51	0.00054
2220.	0.3318E-00	34379.5	83.59	0.00057
2230.	0.3303E-00	34560.8	83.67	0.00061
2240.	0.3288E-00	34742.6	83.76	0.00064
2250.	0.3273E-00	34924.9	83.84	0.00068
2260.	0.3259E-00	35107.7	83.92	0.00071
2270.	0.3244E-00	35291.1	84.01	0.00075
2280.	0.3230E-00	35475.1	84.09	0.00079
2290.	0.3216E-00	35659.6	84.17	0.00084
2300.	0.3202E-00	35844.7	84.25	0.00088
2310.	0.3188E-00	36030.4	84.34	0.00093
2320.	0.3174E-00	36216.7	84.42	0.00098
2330.	0.3160E-00	36403.7	84.50	0.00103
2340.	0.3146E-00	36591.3	84.58	0.00108
2350.	0.3133E-00	36779.6	84.67	0.00114
2360.	0.3119E-00	36968.5	84.75	0.00120
2370.	0.3106E-00	37158.2	84.83	0.00126
2380.	0.3093E-00	37348.6	84.91	0.00132
2390.	0.3080E-00	37539.7	85.00	0.00138
2400.	0.3066E-00	37731.5	85.08	0.00145
2410.	0.3054E-00	37924.1	85.16	0.00152
2420.	0.3041E-00	38117.5	85.25	0.00159
2430.	0.3028E-00	38311.7	85.33	0.00167
2440.	0.3015E-00	38506.8	85.41	0.00175
2450.	0.3003E-00	38702.7	85.50	0.00183
2460.	0.2990E-00	38899.4	85.58	0.00192
2470.	0.2978E-00	39097.0	85.66	0.00201
2480.	0.2966E-00	39295.5	85.75	0.00210
2490.	0.2953E-00	39495.0	85.83	0.00219
2500.	0.2941E-00	39695.4	85.91	0.00229
2510.	0.2929E-00	39896.7	86.00	0.00240
2520.	0.2917E-00	40099.1	86.08	0.00250
2530.	0.2906E-00	40302.5	86.17	0.00261
2540.	0.2894E-00	40506.9	86.25	0.00273
2550.	0.2882E-00	40712.3	86.34	0.00284
2560.	0.2870E-00	40918.9	86.42	0.00297
2570.	0.2859E-00	41126.5	86.51	0.00309
2580.	0.2847E-00	41335.3	86.59	0.00322
2590.	0.2836E-00	41545.2	86.68	0.00336

PRESSURE 30. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.2825E-00	41756.4	86.76	0.00350
2610.	0.2814E-00	41968.7	86.85	0.00364
2620.	0.2802E-00	42182.3	86.94	0.00379
2630.	0.2791E-00	42397.1	87.02	0.00395
2640.	0.2780E-00	42613.2	87.11	0.00411
2650.	0.2769E-00	42830.6	87.20	0.00427
2660.	0.2759E-00	43049.4	87.28	0.00444
2670.	0.2748E-00	43269.5	87.37	0.00462
2680.	0.2737E-00	43491.1	87.46	0.00480
2690.	0.2726E-00	43714.0	87.55	0.00499
2700.	0.2716E-00	43938.5	87.64	0.00518
2710.	0.2705E-00	44164.4	87.73	0.00538
2720.	0.2695E-00	44391.8	87.82	0.00558
2730.	0.2684E-00	44620.8	87.91	0.00580
2740.	0.2674E-00	44851.4	88.00	0.00601
2750.	0.2663E-00	45083.5	88.09	0.00624
2760.	0.2653E-00	45317.3	88.18	0.00647
2770.	0.2643E-00	45552.8	88.27	0.00670
2780.	0.2633E-00	45790.0	88.36	0.00695
2790.	0.2623E-00	46028.9	88.45	0.00720
2800.	0.2613E-00	46269.6	88.55	0.00746
2810.	0.2603E-00	46512.1	88.64	0.00773
2820.	0.2593E-00	46756.5	88.73	0.00800
2830.	0.2583E-00	47002.7	88.83	0.00828
2840.	0.2573E-00	47250.8	88.92	0.00857
2850.	0.2563E-00	47500.9	89.02	0.00887
2860.	0.2554E-00	47752.9	89.11	0.00917
2870.	0.2544E-00	48007.0	89.21	0.00948
2880.	0.2534E-00	48263.1	89.31	0.00981
2890.	0.2525E-00	48521.2	89.40	0.01014
2900.	0.2515E-00	48781.5	89.50	0.01048
2910.	0.2506E-00	49044.0	89.60	0.01083
2920.	0.2496E-00	49308.6	89.70	0.01118
2930.	0.2487E-00	49575.5	89.80	0.01155
2940.	0.2477E-00	49844.7	89.90	0.01193
2950.	0.2468E-00	50116.1	90.00	0.01231
2960.	0.2459E-00	50389.9	90.10	0.01271
2970.	0.2449E-00	50666.1	90.20	0.01311
2980.	0.2440E-00	50944.7	90.30	0.01353
2990.	0.2431E-00	51225.8	90.41	0.01395
3000.	0.2422E-00	51509.3	90.51	0.01439

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.8609E 01	1528.9	41.24	0.
110.	0.7764E 01	1650.7	42.40	0.
120.	0.7080E 01	1773.8	43.47	0.
130.	0.6512E 01	1898.7	44.47	0.
140.	0.6033E 01	2025.6	45.41	0.
150.	0.5621E 01	2154.3	46.30	0.
160.	0.5264E 01	2284.8	47.14	0.
170.	0.4951E 01	2417.1	47.94	0.
180.	0.4674E 01	2550.9	48.71	0.
190.	0.4428E 01	2686.3	49.44	0.
200.	0.4206E 01	2822.9	50.14	0.
210.	0.4006E 01	2960.7	50.81	0.
220.	0.3824E 01	3099.6	51.46	0.
230.	0.3659E 01	3239.5	52.08	0.
240.	0.3507E 01	3380.2	52.68	0.
250.	0.3368E 01	3521.6	53.26	0.
260.	0.3239E 01	3663.6	53.82	0.
270.	0.3120E 01	3806.2	54.35	0.
280.	0.3010E 01	3949.3	54.87	0.
290.	0.2907E 01	4092.8	55.38	0.
300.	0.2811E 01	4236.6	55.86	0.
310.	0.2721E 01	4380.7	56.34	0.
320.	0.2637E 01	4525.1	56.80	0.
330.	0.2558E 01	4669.7	57.24	0.
340.	0.2483E 01	4814.4	57.67	0.
350.	0.2413E 01	4959.2	58.09	0.
360.	0.2347E 01	5104.2	58.50	0.
370.	0.2284E 01	5249.2	58.90	0.
380.	0.2225E 01	5394.3	59.29	0.
390.	0.2168E 01	5539.5	59.66	0.
400.	0.2114E 01	5684.7	60.03	0.
410.	0.2063E 01	5829.9	60.39	0.
420.	0.2015E 01	5975.2	60.74	0.
430.	0.1968E 01	6120.5	61.08	0.
440.	0.1924E 01	6265.8	61.41	0.
450.	0.1882E 01	6411.1	61.74	0.
460.	0.1841E 01	6556.5	62.06	0.
470.	0.1803E 01	6701.9	62.37	0.
480.	0.1766E 01	6847.3	62.68	0.
490.	0.1730E 01	6992.7	62.98	0.
500.	0.1696E 01	7138.2	63.27	0.
510.	0.1663E 01	7283.7	63.56	0.
520.	0.1631E 01	7429.2	63.84	0.
530.	0.1601E 01	7574.7	64.12	0.
540.	0.1571E 01	7720.3	64.39	0.
550.	0.1543E 01	7866.0	64.66	0.
560.	0.1516E 01	8011.6	64.92	0.
570.	0.1489E 01	8157.3	65.18	0.
580.	0.1464E 01	8303.0	65.43	0.
590.	0.1439E 01	8448.6	65.68	0.

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1416E 01	8593.9	65.93	0.
610.	0.1393E 01	8739.5	66.17	0.
620.	0.1370E 01	8885.2	66.41	0.
630.	0.1349E 01	9030.9	66.64	0.
640.	0.1328E 01	9176.7	66.87	0.
650.	0.1308E 01	9322.5	67.10	0.
660.	0.1288E 01	9468.3	67.32	0.
670.	0.1269E 01	9614.3	67.54	0.
680.	0.1251E 01	9760.2	67.75	0.
690.	0.1233E 01	9906.3	67.97	0.
700.	0.1215E 01	10052.4	68.18	0.
710.	0.1198E 01	10198.7	68.38	0.
720.	0.1182E 01	10345.0	68.59	0.
730.	0.1166E 01	10491.4	68.79	0.
740.	0.1150E 01	10637.9	68.99	0.
750.	0.1135E 01	10784.5	69.19	0.
760.	0.1120E 01	10931.2	69.38	0.
770.	0.1106E 01	11078.1	69.57	0.
780.	0.1092E 01	11225.0	69.76	0.
790.	0.1078E 01	11372.0	69.95	0.
800.	0.1064E 01	11519.2	70.14	0.
810.	0.1051E 01	11666.4	70.32	0.
820.	0.1039E 01	11813.8	70.50	0.
830.	0.1026E 01	11961.3	70.68	0.
840.	0.1014E 01	12108.9	70.86	0.
850.	0.1002E 01	12256.7	71.03	0.
860.	0.9908E 00	12404.5	71.20	0.
870.	0.9795E 00	12552.5	71.37	0.
880.	0.9684E 00	12700.7	71.54	0.
890.	0.9576E 00	12848.9	71.71	0.
900.	0.9471E 00	12997.3	71.88	0.
910.	0.9367E 00	13145.8	72.04	0.
920.	0.9266E 00	13294.5	72.20	0.
930.	0.9167E 00	13443.3	72.36	0.
940.	0.9071E 00	13592.2	72.52	0.
950.	0.8976E 00	13741.3	72.68	0.
960.	0.8883E 00	13890.5	72.84	0.
970.	0.8792E 00	14039.9	72.99	0.
980.	0.8703E 00	14189.4	73.15	0.
990.	0.8616E 00	14339.1	73.30	0.
1000.	0.8530E 00	14488.9	73.45	0.
1010.	0.8446E 00	14638.9	73.60	0.
1020.	0.8364E 00	14789.0	73.75	0.
1030.	0.8283E 00	14939.3	73.89	0.
1040.	0.8204E 00	15089.8	74.04	0.
1050.	0.8127E 00	15240.4	74.18	0.
1060.	0.8051E 00	15391.2	74.32	0.
1070.	0.7976E 00	15542.2	74.47	0.
1080.	0.7903E 00	15693.3	74.61	0.
1090.	0.7831E 00	15844.6	74.75	0.

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.7760E 00	15996.1	74.88	0.
1110.	0.7690E 00	16147.7	75.02	0.
1120.	0.7622E 00	16299.6	75.16	0.
1130.	0.7555E 00	16451.6	75.29	0.
1140.	0.7489E 00	16603.8	75.43	0.
1150.	0.7425E 00	16756.1	75.56	0.
1160.	0.7361E 00	16908.7	75.69	0.
1170.	0.7298E 00	17061.4	75.82	0.
1180.	0.7237E 00	17214.4	75.95	0.
1190.	0.7177E 00	17367.5	76.08	0.
1200.	0.7117E 00	17520.9	76.21	0.
1210.	0.7059E 00	17674.4	76.34	0.
1220.	0.7001E 00	17828.1	76.47	0.
1230.	0.6945E 00	17982.0	76.59	0.
1240.	0.6889E 00	18136.2	76.72	0.
1250.	0.6834E 00	18290.5	76.84	0.
1260.	0.6780E 00	18445.0	76.96	0.
1270.	0.6727E 00	18599.8	77.08	0.
1280.	0.6675E 00	18754.7	77.21	0.
1290.	0.6623E 00	18909.9	77.33	0.
1300.	0.6573E 00	19065.3	77.45	0.
1310.	0.6523E 00	19220.9	77.57	0.
1320.	0.6474E 00	19376.7	77.68	0.
1330.	0.6425E 00	19532.8	77.80	0.
1340.	0.6378E 00	19689.1	77.92	0.
1350.	0.6331E 00	19845.6	78.04	0.
1360.	0.6284E 00	20002.3	78.15	0.
1370.	0.6239E 00	20159.2	78.27	0.
1380.	0.6194E 00	20316.4	78.38	0.
1390.	0.6149E 00	20473.8	78.49	0.
1400.	0.6106E 00	20631.5	78.61	0.
1410.	0.6063E 00	20789.4	78.72	0.
1420.	0.6020E 00	20947.5	78.83	0.
1430.	0.5978E 00	21105.9	78.94	0.
1440.	0.5937E 00	21264.5	79.05	0.
1450.	0.5896E 00	21423.4	79.16	0.
1460.	0.5856E 00	21582.5	79.27	0.
1470.	0.5817E 00	21741.8	79.38	0.
1480.	0.5777E 00	21901.4	79.49	0.
1490.	0.5739E 00	22061.3	79.60	0.
1500.	0.5732E 00	22201.2	79.72	0.00000
1510.	0.5694E 00	22361.6	79.82	0.00000
1520.	0.5657E 00	22522.1	79.93	0.00000
1530.	0.5620E 00	22683.0	80.03	0.00000
1540.	0.5583E 00	22844.0	80.14	0.00000
1550.	0.5547E 00	23005.2	80.24	0.00000
1560.	0.5512E 00	23166.7	80.35	0.00000
1570.	0.5477E 00	23328.4	80.45	0.00000
1580.	0.5442E 00	23490.3	80.55	0.00000
1590.	0.5408E 00	23652.5	80.65	0.00000

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.5374E 00	23814.8	80.76	0.00000
1610.	0.5341E 00	23977.4	80.86	0.00001
1620.	0.5308E 00	24140.2	80.96	0.00001
1630.	0.5275E 00	24303.2	81.06	0.00001
1640.	0.5243E 00	24466.4	81.16	0.00001
1650.	0.5211E 00	24629.8	81.26	0.00001
1660.	0.5180E 00	24793.5	81.36	0.00001
1670.	0.5149E 00	24957.4	81.46	0.00001
1680.	0.5118E 00	25121.5	81.55	0.00001
1690.	0.5088E 00	25285.8	81.65	0.00001
1700.	0.5058E 00	25450.4	81.75	0.00001
1710.	0.5028E 00	25615.2	81.85	0.00001
1720.	0.4999E-00	25780.2	81.94	0.00001
1730.	0.4970E-00	25945.4	82.04	0.00002
1740.	0.4942E-00	26110.8	82.13	0.00002
1750.	0.4913E-00	26276.5	82.23	0.00002
1760.	0.4885E-00	26442.4	82.32	0.00002
1770.	0.4858E-00	26608.5	82.42	0.00002
1780.	0.4831E-00	26774.9	82.51	0.00003
1790.	0.4804E-00	26941.5	82.60	0.00003
1800.	0.4777E-00	27108.3	82.70	0.00003
1810.	0.4750E-00	27275.4	82.79	0.00003
1820.	0.4724E-00	27442.7	82.88	0.00004
1830.	0.4698E-00	27610.2	82.97	0.00004
1840.	0.4673E-00	27778.0	83.07	0.00004
1850.	0.4648E-00	27946.0	83.16	0.00005
1860.	0.4623E-00	28114.3	83.25	0.00005
1870.	0.4598E-00	28282.8	83.34	0.00005
1880.	0.4573E-00	28451.6	83.43	0.00006
1890.	0.4549E-00	28620.6	83.52	0.00006
1900.	0.4525E-00	28789.8	83.61	0.00007
1910.	0.4502E-00	28959.4	83.70	0.00007
1920.	0.4478E-00	29129.2	83.79	0.00008
1930.	0.4455E-00	29299.2	83.88	0.00008
1940.	0.4432E-00	29469.6	83.96	0.00009
1950.	0.4409E-00	29640.2	84.05	0.00010
1960.	0.4387E-00	29811.1	84.14	0.00010
1970.	0.4364E-00	29982.2	84.23	0.00011
1980.	0.4342E-00	30153.7	84.32	0.00012
1990.	0.4320E-00	30325.4	84.40	0.00013
2000.	0.4299E-00	30497.5	84.49	0.00014
2010.	0.4277E-00	30669.8	84.58	0.00015
2020.	0.4256E-00	30842.5	84.66	0.00016
2030.	0.4235E-00	31015.4	84.75	0.00017
2040.	0.4214E-00	31188.7	84.83	0.00018
2050.	0.4194E-00	31362.3	84.92	0.00019
2060.	0.4173E-00	31536.2	85.01	0.00020
2070.	0.4153E-00	31710.5	85.09	0.00022
2080.	0.4133E-00	31885.1	85.18	0.00023
2090.	0.4113E-00	32060.1	85.26	0.00025

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.4093E-00	32235.4	85.34	0.00026
2110.	0.4074E-00	32411.1	85.43	0.00028
2120.	0.4055E-00	32587.1	85.51	0.00030
2130.	0.4036E-00	32763.5	85.60	0.00032
2140.	0.4017E-00	32940.4	85.68	0.00034
2150.	0.3998E-00	33117.6	85.76	0.00036
2160.	0.3979E-00	33295.2	85.85	0.00038
2170.	0.3961E-00	33473.2	85.93	0.00040
2180.	0.3943E-00	33651.7	86.01	0.00042
2190.	0.3925E-00	33830.6	86.10	0.00045
2200.	0.3907E-00	34009.9	86.18	0.00048
2210.	0.3889E-00	34189.7	86.26	0.00050
2220.	0.3871E-00	34369.9	86.35	0.00053
2230.	0.3854E-00	34550.6	86.43	0.00056
2240.	0.3836E-00	34731.8	86.51	0.00059
2250.	0.3819E-00	34913.5	86.59	0.00063
2260.	0.3802E-00	35095.7	86.68	0.00066
2270.	0.3785E-00	35278.5	86.76	0.00070
2280.	0.3769E-00	35461.7	86.84	0.00074
2290.	0.3752E-00	35645.5	86.92	0.00078
2300.	0.3735E-00	35829.9	87.01	0.00082
2310.	0.3719E-00	36014.8	87.09	0.00086
2320.	0.3703E-00	36200.3	87.17	0.00091
2330.	0.3687E-00	36386.4	87.25	0.00095
2340.	0.3671E-00	36573.1	87.33	0.00100
2350.	0.3655E-00	36760.5	87.42	0.00105
2360.	0.3639E-00	36948.5	87.50	0.00111
2370.	0.3624E-00	37137.1	87.58	0.00116
2380.	0.3608E-00	37326.4	87.66	0.00122
2390.	0.3593E-00	37516.5	87.74	0.00128
2400.	0.3578E-00	37707.2	87.83	0.00134
2410.	0.3563E-00	37898.6	87.91	0.00141
2420.	0.3548E-00	38090.8	87.99	0.00148
2430.	0.3533E-00	38283.7	88.07	0.00155
2440.	0.3518E-00	38477.4	88.16	0.00162
2450.	0.3504E-00	38671.9	88.24	0.00170
2460.	0.3489E-00	38867.2	88.32	0.00178
2470.	0.3475E-00	39063.3	88.40	0.00186
2480.	0.3460E-00	39260.3	88.49	0.00194
2490.	0.3446E-00	39458.1	88.57	0.00203
2500.	0.3432E-00	39656.8	88.65	0.00212
2510.	0.3418E-00	39856.5	88.74	0.00222
2520.	0.3404E-00	40057.0	88.82	0.00232
2530.	0.3390E-00	40258.5	88.90	0.00242
2540.	0.3377E-00	40461.0	88.99	0.00252
2550.	0.3363E-00	40664.5	89.07	0.00263
2560.	0.3350E-00	40868.9	89.15	0.00275
2570.	0.3336E-00	41074.5	89.24	0.00286
2580.	0.3323E-00	41281.0	89.32	0.00299
2590.	0.3310E-00	41488.7	89.41	0.00311

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JCOULES/GM	ENTROPY JCOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.3296E-00	41697.4	89.49	0.00324
2610.	0.3283E-00	41907.3	89.58	0.00337
2620.	0.3270E-00	42118.4	89.66	0.00351
2630.	0.3258E-00	42330.6	89.75	0.00366
2640.	0.3245E-00	42544.0	89.83	0.00380
2650.	0.3232E-00	42758.6	89.92	0.00396
2660.	0.3219E-00	42974.5	90.00	0.00411
2670.	0.3207E-00	43191.7	90.09	0.00428
2680.	0.3194E-00	43410.2	90.18	0.00444
2690.	0.3182E-00	43630.0	90.27	0.00462
2700.	0.3169E-00	43851.2	90.35	0.00480
2710.	0.3157E-00	44073.7	90.44	0.00498
2720.	0.3145E-00	44297.7	90.53	0.00517
2730.	0.3133E-00	44523.1	90.62	0.00537
2740.	0.3121E-00	44750.0	90.71	0.00557
2750.	0.3109E-00	44978.4	90.79	0.00577
2760.	0.3097E-00	45208.3	90.88	0.00599
2770.	0.3085E-00	45439.7	90.97	0.00621
2780.	0.3073E-00	45672.8	91.06	0.00643
2790.	0.3062E-00	45907.5	91.15	0.00667
2800.	0.3050E-00	46143.8	91.25	0.00691
2810.	0.3038E-00	46381.8	91.34	0.00715
2820.	0.3027E-00	46621.5	91.43	0.00741
2830.	0.3015E-00	46862.9	91.52	0.00767
2840.	0.3004E-00	47106.2	91.61	0.00793
2850.	0.2992E-00	47351.2	91.71	0.00821
2860.	0.2981E-00	47598.1	91.80	0.00849
2870.	0.2970E-00	47846.8	91.89	0.00878
2880.	0.2959E-00	48097.4	91.99	0.00908
2890.	0.2948E-00	48350.0	92.08	0.00939
2900.	0.2937E-00	48604.6	92.18	0.00970
2910.	0.2926E-00	48861.1	92.27	0.01002
2920.	0.2915E-00	49119.7	92.37	0.01035
2930.	0.2904E-00	49380.4	92.47	0.01069
2940.	0.2893E-00	49643.2	92.57	0.01104
2950.	0.2882E-00	49908.1	92.66	0.01140
2960.	0.2871E-00	50175.2	92.76	0.01176
2970.	0.2860E-00	50444.5	92.86	0.01214
2980.	0.2850E-00	50716.1	92.96	0.01252
2990.	0.2839E-00	50989.9	93.06	0.01292
3000.	0.2829E-00	51266.1	93.16	0.01332

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.8609E 01	1368.4	39.70	0.
110.	0.7764E 01	1498.4	40.94	0.
120.	0.7080E 01	1631.5	42.09	0.
130.	0.6512E 01	1767.5	43.18	0.
140.	0.6033E 01	1906.1	44.21	0.
150.	0.5621E 01	2046.8	45.18	0.
160.	0.5264E 01	2189.3	46.10	0.
170.	0.4951E 01	2333.0	46.97	0.
180.	0.4674E 01	2477.6	47.80	0.
190.	0.4428E 01	2622.8	48.58	0.
200.	0.4206E 01	2768.4	49.33	0.
210.	0.4006E 01	2914.2	50.04	0.
220.	0.3824E 01	3060.2	50.72	0.
230.	0.3659E 01	3206.2	51.37	0.
240.	0.3507E 01	3352.2	51.99	0.
250.	0.3368E 01	3498.2	52.59	0.
260.	0.3239E 01	3644.2	53.16	0.
270.	0.3120E 01	3790.1	53.71	0.
280.	0.3010E 01	3935.9	54.24	0.
290.	0.2907E 01	4081.8	54.75	0.
300.	0.2811E 01	4227.6	55.25	0.
310.	0.2721E 01	4373.3	55.72	0.
320.	0.2637E 01	4519.0	56.19	0.
330.	0.2558E 01	4664.7	56.63	0.
340.	0.2483E 01	4810.3	57.07	0.
350.	0.2413E 01	4955.9	57.49	0.
360.	0.2347E 01	5101.5	57.90	0.
370.	0.2284E 01	5247.0	58.30	0.
380.	0.2225E 01	5392.6	58.69	0.
390.	0.2168E 01	5538.1	59.07	0.
400.	0.2114E 01	5683.6	59.43	0.
410.	0.2063E 01	5829.0	59.79	0.
420.	0.2015E 01	5974.5	60.14	0.
430.	0.1968E 01	6120.0	60.49	0.
440.	0.1924E 01	6265.4	60.82	0.
450.	0.1882E 01	6410.9	61.15	0.
460.	0.1841E 01	6556.4	61.47	0.
470.	0.1803E 01	6701.8	61.78	0.
480.	0.1766E 01	6847.3	62.09	0.
490.	0.1730E 01	6992.8	62.39	0.
500.	0.1696E 01	7138.3	62.68	0.
510.	0.1663E 01	7283.8	62.97	0.
520.	0.1631E 01	7429.4	63.25	0.
530.	0.1601E 01	7574.9	63.53	0.
540.	0.1571E 01	7720.5	63.80	0.
550.	0.1543E 01	7866.1	64.07	0.
560.	0.1516E 01	8011.7	64.33	0.
570.	0.1489E 01	8157.4	64.59	0.
580.	0.1464E 01	8303.0	64.84	0.
590.	0.1439E 01	8448.7	65.09	0.

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1416E 01	8593.9	64.80	0.
610.	0.1393E 01	8739.5	65.04	0.
620.	0.1370E 01	8885.2	65.27	0.
630.	0.1349E 01	9030.9	65.51	0.
640.	0.1328E 01	9176.7	65.74	0.
650.	0.1308E 01	9322.5	65.96	0.
660.	0.1288E 01	9468.3	66.19	0.
670.	0.1269E 01	9614.3	66.41	0.
680.	0.1251E 01	9760.2	66.62	0.
690.	0.1233E 01	9906.3	66.83	0.
700.	0.1215E 01	10052.4	67.04	0.
710.	0.1198E 01	10198.7	67.25	0.
720.	0.1182E 01	10345.0	67.46	0.
730.	0.1166E 01	10491.4	67.66	0.
740.	0.1150E 01	10637.9	67.86	0.
750.	0.1135E 01	10784.5	68.05	0.
760.	0.1120E 01	10931.2	68.25	0.
770.	0.1106E 01	11078.1	68.44	0.
780.	0.1092E 01	11225.0	68.63	0.
790.	0.1078E 01	11372.0	68.82	0.
800.	0.1064E 01	11519.2	69.00	0.
810.	0.1051E 01	11666.4	69.19	0.
820.	0.1039E 01	11813.8	69.37	0.
830.	0.1026E 01	11961.3	69.55	0.
840.	0.1014E 01	12108.9	69.72	0.
850.	0.1002E 01	12256.7	69.90	0.
860.	0.9908E 00	12404.5	70.07	0.
870.	0.9795E 00	12552.5	70.24	0.
880.	0.9684E 00	12700.7	70.41	0.
890.	0.9576E 00	12848.9	70.58	0.
900.	0.9471E 00	12997.3	70.74	0.
910.	0.9367E 00	13145.8	70.91	0.
920.	0.9266E 00	13294.5	71.07	0.
930.	0.9167E 00	13443.3	71.23	0.
940.	0.9071E 00	13592.2	71.39	0.
950.	0.8976E 00	13741.3	71.55	0.
960.	0.8883E 00	13890.5	71.70	0.
970.	0.8792E 00	14039.9	71.86	0.
980.	0.8703E 00	14189.4	72.01	0.
990.	0.8616E 00	14339.1	72.16	0.
1000.	0.8530E 00	14488.9	72.32	0.
1010.	0.8446E 00	14638.9	72.46	0.
1020.	0.8364E 00	14789.0	72.61	0.
1030.	0.8283E 00	14939.3	72.76	0.
1040.	0.8204E 00	15089.8	72.90	0.
1050.	0.8127E 00	15240.4	73.05	0.
1060.	0.8051E 00	15391.2	73.19	0.
1070.	0.7976E 00	15542.2	73.33	0.
1080.	0.7903E 00	15693.3	73.47	0.
1090.	0.7831E 00	15844.6	73.61	0.

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.7760E 00	15996.1	73.75	0.
1110.	0.7690E 00	16147.7	73.89	0.
1120.	0.7622E 00	16299.6	74.03	0.
1130.	0.7555E 00	16451.6	74.16	0.
1140.	0.7489E 00	16603.8	74.29	0.
1150.	0.7425E 00	16756.1	74.43	0.
1160.	0.7361E 00	16908.7	74.56	0.
1170.	0.7298E 00	17061.4	74.69	0.
1180.	0.7237E 00	17214.4	74.82	0.
1190.	0.7177E 00	17367.5	74.95	0.
1200.	0.7117E 00	17520.9	75.08	0.
1210.	0.7059E 00	17674.4	75.21	0.
1220.	0.7001E 00	17828.1	75.33	0.
1230.	0.6945E 00	17982.0	75.46	0.
1240.	0.6889E 00	18136.2	75.58	0.
1250.	0.6834E 00	18290.5	75.71	0.
1260.	0.6780E 00	18445.0	75.83	0.
1270.	0.6727E 00	18599.8	75.95	0.
1280.	0.6675E 00	18754.7	76.07	0.
1290.	0.6623E 00	18909.9	76.19	0.
1300.	0.6573E 00	19065.3	76.31	0.
1310.	0.6523E 00	19220.9	76.43	0.
1320.	0.6474E 00	19376.7	76.55	0.
1330.	0.6425E 00	19532.8	76.67	0.
1340.	0.6378E 00	19689.1	76.79	0.
1350.	0.6331E 00	19845.6	76.90	0.
1360.	0.6284E 00	20002.3	77.02	0.
1370.	0.6239E 00	20159.2	77.13	0.
1380.	0.6194E 00	20316.4	77.25	0.
1390.	0.6149E 00	20473.8	77.36	0.
1400.	0.6106E 00	20631.5	77.48	0.
1410.	0.6063E 00	20789.4	77.59	0.
1420.	0.6020E 00	20947.5	77.70	0.
1430.	0.5978E 00	21105.9	77.81	0.
1440.	0.5937E 00	21264.5	77.92	0.
1450.	0.5896E 00	21423.4	78.03	0.
1460.	0.5856E 00	21582.5	78.14	0.
1470.	0.5817E 00	21741.8	78.25	0.
1480.	0.5777E 00	21901.4	78.36	0.
1490.	0.5739E 00	22061.3	78.46	0.
1500.	0.5732E 00	22201.2	78.58	0.00000
1510.	0.5694E 00	22361.6	78.69	0.00000
1520.	0.5657E 00	22522.1	78.79	0.00000
1530.	0.5620E 00	22683.0	78.90	0.00000
1540.	0.5583E 00	22844.0	79.01	0.00000
1550.	0.5547E 00	23005.2	79.11	0.00000
1560.	0.5512E 00	23166.7	79.21	0.00000
1570.	0.5477E 00	23328.4	79.32	0.00000
1580.	0.5442E 00	23490.3	79.42	0.00000
1590.	0.5408E 00	23652.5	79.52	0.00000

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.5374E 00	23814.8	79.62	0.00000
1610.	0.5341E 00	23977.4	79.73	0.00001
1620.	0.5308E 00	24140.2	79.83	0.00001
1630.	0.5275E 00	24303.2	79.93	0.00001
1640.	0.5243E 00	24466.4	80.03	0.00001
1650.	0.5211E 00	24629.8	80.13	0.00001
1660.	0.5180E 00	24793.5	80.22	0.00001
1670.	0.5149E 00	24957.4	80.32	0.00001
1680.	0.5118E 00	25121.5	80.42	0.00001
1690.	0.5088E 00	25285.8	80.52	0.00001
1700.	0.5058E 00	25450.4	80.62	0.00001
1710.	0.5028E 00	25615.2	80.71	0.00001
1720.	0.4999E-00	25780.2	80.81	0.00001
1730.	0.4970E-00	25945.4	80.91	0.00002
1740.	0.4942E-00	26110.8	81.00	0.00002
1750.	0.4913E-00	26276.5	81.10	0.00002
1760.	0.4885E-00	26442.4	81.19	0.00002
1770.	0.4858E-00	26608.5	81.28	0.00002
1780.	0.4831E-00	26774.9	81.38	0.00003
1790.	0.4804E-00	26941.5	81.47	0.00003
1800.	0.4777E-00	27108.3	81.57	0.00003
1810.	0.4750E-00	27275.4	81.66	0.00003
1820.	0.4724E-00	27442.7	81.75	0.00004
1830.	0.4698E-00	27610.2	81.84	0.00004
1840.	0.4673E-00	27778.0	81.93	0.00004
1850.	0.4648E-00	27946.0	82.03	0.00005
1860.	0.4623E-00	28114.3	82.12	0.00005
1870.	0.4598E-00	28282.8	82.21	0.00005
1880.	0.4573E-00	28451.6	82.30	0.00006
1890.	0.4549E-00	28620.6	82.39	0.00006
1900.	0.4525E-00	28789.8	82.48	0.00007
1910.	0.4502E-00	28959.4	82.57	0.00007
1920.	0.4478E-00	29129.2	82.66	0.00008
1930.	0.4455E-00	29299.2	82.74	0.00008
1940.	0.4432E-00	29469.6	82.83	0.00009
1950.	0.4409E-00	29640.2	82.92	0.00010
1960.	0.4387E-00	29811.1	83.01	0.00010
1970.	0.4364E-00	29982.2	83.10	0.00011
1980.	0.4342E-00	30153.7	83.18	0.00012
1990.	0.4320E-00	30325.4	83.27	0.00013
2000.	0.4299E-00	30497.5	83.36	0.00014
2010.	0.4277E-00	30669.8	83.44	0.00015
2020.	0.4256E-00	30842.5	83.53	0.00016
2030.	0.4235E-00	31015.4	83.62	0.00017
2040.	0.4214E-00	31188.7	83.70	0.00018
2050.	0.4194E-00	31362.3	83.79	0.00019
2060.	0.4173E-00	31536.2	83.87	0.00020
2070.	0.4153E-00	31710.5	83.96	0.00022
2080.	0.4133E-00	31885.1	84.04	0.00023
2090.	0.4113E-00	32060.1	84.13	0.00025

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.4093E-00	32235.4	84.21	0.00026
2110.	0.4074E-00	32411.1	84.30	0.00028
2120.	0.4055E-00	32587.1	84.38	0.00030
2130.	0.4036E-00	32763.5	84.46	0.00032
2140.	0.4017E-00	32940.4	84.55	0.00034
2150.	0.3998E-00	33117.6	84.63	0.00036
2160.	0.3979E-00	33295.2	84.72	0.00038
2170.	0.3961E-00	33473.2	84.80	0.00040
2180.	0.3943E-00	33651.7	84.88	0.00042
2190.	0.3925E-00	33830.6	84.97	0.00045
2200.	0.3907E-00	34009.9	85.05	0.00048
2210.	0.3889E-00	34189.7	85.13	0.00050
2220.	0.3871E-00	34369.9	85.21	0.00053
2230.	0.3854E-00	34550.6	85.30	0.00056
2240.	0.3836E-00	34731.8	85.38	0.00059
2250.	0.3819E-00	34913.5	85.46	0.00063
2260.	0.3802E-00	35095.7	85.54	0.00066
2270.	0.3785E-00	35278.5	85.63	0.00070
2280.	0.3769E-00	35461.7	85.71	0.00074
2290.	0.3752E-00	35645.5	85.79	0.00078
2300.	0.3735E-00	35829.9	85.87	0.00082
2310.	0.3719E-00	36014.8	85.96	0.00086
2320.	0.3703E-00	36200.3	86.04	0.00091
2330.	0.3687E-00	36386.4	86.12	0.00095
2340.	0.3671E-00	36573.1	86.20	0.00100
2350.	0.3655E-00	36760.5	86.28	0.00105
2360.	0.3639E-00	36948.5	86.37	0.00111
2370.	0.3624E-00	37137.1	86.45	0.00116
2380.	0.3608E-00	37326.4	86.53	0.00122
2390.	0.3593E-00	37516.5	86.61	0.00128
2400.	0.3578E-00	37707.2	86.69	0.00134
2410.	0.3563E-00	37898.6	86.78	0.00141
2420.	0.3548E-00	38090.8	86.86	0.00148
2430.	0.3533E-00	38283.7	86.94	0.00155
2440.	0.3518E-00	38477.4	87.02	0.00162
2450.	0.3504E-00	38671.9	87.11	0.00170
2460.	0.3489E-00	38867.2	87.19	0.00178
2470.	0.3475E-00	39063.3	87.27	0.00186
2480.	0.3460E-00	39260.3	87.35	0.00194
2490.	0.3446E-00	39458.1	87.44	0.00203
2500.	0.3432E-00	39656.8	87.52	0.00212
2510.	0.3418E-00	39856.5	87.60	0.00222
2520.	0.3404E-00	40057.0	87.69	0.00232
2530.	0.3390E-00	40258.5	87.77	0.00242
2540.	0.3377E-00	40461.0	87.85	0.00252
2550.	0.3363E-00	40664.5	87.94	0.00263
2560.	0.3350E-00	40868.9	88.02	0.00275
2570.	0.3336E-00	41074.5	88.11	0.00286
2580.	0.3323E-00	41281.0	88.19	0.00299
2590.	0.3310E-00	41488.7	88.27	0.00311

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.3296E-00	41697.4	88.36	0.00324
2610.	0.3283E-00	41907.3	88.44	0.00337
2620.	0.3270E-00	42118.4	88.53	0.00351
2630.	0.3258E-00	42330.6	88.61	0.00366
2640.	0.3245E-00	42544.0	88.70	0.00380
2650.	0.3232E-00	42758.6	88.79	0.00396
2660.	0.3219E-00	42974.5	88.87	0.00411
2670.	0.3207E-00	43191.7	88.96	0.00428
2680.	0.3194E-00	43410.2	89.05	0.00444
2690.	0.3182E-00	43630.0	89.13	0.00462
2700.	0.3169E-00	43851.2	89.22	0.00480
2710.	0.3157E-00	44073.7	89.31	0.00498
2720.	0.3145E-00	44297.7	89.40	0.00517
2730.	0.3133E-00	44523.1	89.48	0.00537
2740.	0.3121E-00	44750.0	89.57	0.00557
2750.	0.3109E-00	44978.4	89.66	0.00577
2760.	0.3097E-00	45208.3	89.75	0.00599
2770.	0.3085E-00	45439.7	89.84	0.00621
2780.	0.3073E-00	45672.8	89.93	0.00643
2790.	0.3062E-00	45907.5	90.02	0.00667
2800.	0.3050E-00	46143.8	90.11	0.00691
2810.	0.3038E-00	46381.8	90.20	0.00715
2820.	0.3027E-00	46621.5	90.30	0.00741
2830.	0.3015E-00	46862.9	90.39	0.00767
2840.	0.3004E-00	47106.2	90.48	0.00793
2850.	0.2992E-00	47351.2	90.57	0.00821
2860.	0.2981E-00	47598.1	90.67	0.00849
2870.	0.2970E-00	47846.8	90.76	0.00878
2880.	0.2959E-00	48097.4	90.86	0.00908
2890.	0.2948E-00	48350.0	90.95	0.00939
2900.	0.2937E-00	48604.6	91.05	0.00970
2910.	0.2926E-00	48861.1	91.14	0.01002
2920.	0.2915E-00	49119.7	91.24	0.01035
2930.	0.2904E-00	49380.4	91.34	0.01069
2940.	0.2893E-00	49643.2	91.43	0.01104
2950.	0.2882E-00	49908.1	91.53	0.01140
2960.	0.2871E-00	50175.2	91.63	0.01176
2970.	0.2860E-00	50444.5	91.73	0.01214
2980.	0.2850E-00	50716.1	91.83	0.01252
2990.	0.2839E-00	50989.9	91.93	0.01292
3000.	0.2829E-00	51266.1	92.03	0.01332

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.8609E 01	1207.8	37.07	0.
110.	0.7764E 01	1346.2	38.39	0.
120.	0.7080E 01	1489.1	39.64	0.
130.	0.6512E 01	1636.2	40.81	0.
140.	0.6033E 01	1786.6	41.93	0.
150.	0.5621E 01	1939.4	42.98	0.
160.	0.5264E 01	2093.7	43.98	0.
170.	0.4951E 01	2248.9	44.92	0.
180.	0.4674E 01	2404.2	45.81	0.
190.	0.4428E 01	2559.3	46.65	0.
200.	0.4206E 01	2713.9	47.44	0.
210.	0.4006E 01	2867.7	48.19	0.
220.	0.3824E 01	3020.7	48.90	0.
230.	0.3659E 01	3172.9	49.58	0.
240.	0.3507E 01	3324.2	50.22	0.
250.	0.3368E 01	3474.8	50.84	0.
260.	0.3239E 01	3624.7	51.42	0.
270.	0.3120E 01	3773.9	51.99	0.
280.	0.3010E 01	3922.6	52.53	0.
290.	0.2907E 01	4070.8	53.05	0.
300.	0.2811E 01	4218.5	53.55	0.
310.	0.2721E 01	4365.9	54.03	0.
320.	0.2637E 01	4512.9	54.50	0.
330.	0.2558E 01	4659.7	54.95	0.
340.	0.2483E 01	4806.2	55.39	0.
350.	0.2413E 01	4952.6	55.81	0.
360.	0.2347E 01	5098.8	56.22	0.
370.	0.2284E 01	5244.8	56.62	0.
380.	0.2225E 01	5390.8	57.01	0.
390.	0.2168E 01	5536.6	57.39	0.
400.	0.2114E 01	5682.4	57.76	0.
410.	0.2063E 01	5828.1	58.12	0.
420.	0.2015E 01	5973.8	58.47	0.
430.	0.1968E 01	6119.4	58.81	0.
440.	0.1924E 01	6265.1	59.15	0.
450.	0.1882E 01	6410.6	59.48	0.
460.	0.1841E 01	6556.2	59.80	0.
470.	0.1803E 01	6701.8	60.11	0.
480.	0.1766E 01	6847.3	60.42	0.
490.	0.1730E 01	6992.9	60.72	0.
500.	0.1696E 01	7138.4	61.01	0.
510.	0.1663E 01	7284.0	61.30	0.
520.	0.1631E 01	7429.6	61.58	0.
530.	0.1601E 01	7575.1	61.86	0.
540.	0.1571E 01	7720.7	62.13	0.
550.	0.1543E 01	7866.3	62.40	0.
560.	0.1516E 01	8011.9	62.66	0.
570.	0.1489E 01	8157.5	62.92	0.
580.	0.1464E 01	8303.1	63.17	0.
590.	0.1439E 01	8448.8	63.42	0.

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1416E 01	8593.9	63.66	0.
610.	0.1393E 01	8739.5	63.90	0.
620.	0.1370E 01	8885.2	64.14	0.
630.	0.1349E 01	9030.9	64.37	0.
640.	0.1328E 01	9176.7	64.60	0.
650.	0.1308E 01	9322.5	64.83	0.
660.	0.1288E 01	9468.3	65.05	0.
670.	0.1269E 01	9614.3	65.27	0.
680.	0.1251E 01	9760.2	65.49	0.
690.	0.1233E 01	9906.3	65.70	0.
700.	0.1215E 01	10052.4	65.91	0.
710.	0.1198E 01	10198.7	66.12	0.
720.	0.1182E 01	10345.0	66.32	0.
730.	0.1166E 01	10491.4	66.53	0.
740.	0.1150E 01	10637.9	66.73	0.
750.	0.1135E 01	10784.5	66.92	0.
760.	0.1120E 01	10931.2	67.12	0.
770.	0.1106E 01	11078.1	67.31	0.
780.	0.1092E 01	11225.0	67.50	0.
790.	0.1078E 01	11372.0	67.69	0.
800.	0.1064E 01	11519.2	67.87	0.
810.	0.1051E 01	11666.4	68.05	0.
820.	0.1039E 01	11813.8	68.23	0.
830.	0.1026E 01	11961.3	68.41	0.
840.	0.1014E 01	12108.9	68.59	0.
850.	0.1002E 01	12256.7	68.76	0.
860.	0.9908E 00	12404.5	68.94	0.
870.	0.9795E 00	12552.5	69.11	0.
880.	0.9684E 00	12700.7	69.28	0.
890.	0.9576E 00	12848.9	69.45	0.
900.	0.9471E 00	12997.3	69.61	0.
910.	0.9367E 00	13145.8	69.78	0.
920.	0.9266E 00	13294.5	69.94	0.
930.	0.9167E 00	13443.3	70.10	0.
940.	0.9071E 00	13592.2	70.26	0.
950.	0.8976E 00	13741.3	70.42	0.
960.	0.8883E 00	13890.5	70.57	0.
970.	0.8792E 00	14039.9	70.73	0.
980.	0.8703E 00	14189.4	70.88	0.
990.	0.8616E 00	14339.1	71.03	0.
1000.	0.8530E 00	14488.9	71.18	0.
1010.	0.8446E 00	14638.9	71.33	0.
1020.	0.8364E 00	14789.0	71.48	0.
1030.	0.8283E 00	14939.3	71.63	0.
1040.	0.8204E 00	15089.8	71.77	0.
1050.	0.8127E 00	15240.4	71.92	0.
1060.	0.8051E 00	15391.2	72.06	0.
1070.	0.7976E 00	15542.2	72.20	0.
1080.	0.7903E 00	15693.3	72.34	0.
1090.	0.7831E 00	15844.6	72.48	0.

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.7760E 00	15996.1	72.62	0.
1110.	0.7690E 00	16147.7	72.76	0.
1120.	0.7622E 00	16299.6	72.89	0.
1130.	0.7555E 00	16451.6	73.03	0.
1140.	0.7489E 00	16603.8	73.16	0.
1150.	0.7425E 00	16756.1	73.29	0.
1160.	0.7361E 00	16908.7	73.43	0.
1170.	0.7298E 00	17061.4	73.56	0.
1180.	0.7237E 00	17214.4	73.69	0.
1190.	0.7177E 00	17367.5	73.82	0.
1200.	0.7117E 00	17520.9	73.95	0.
1210.	0.7059E 00	17674.4	74.07	0.
1220.	0.7001E 00	17828.1	74.20	0.
1230.	0.6945E 00	17982.0	74.33	0.
1240.	0.6889E 00	18136.2	74.45	0.
1250.	0.6834E 00	18290.5	74.57	0.
1260.	0.6780E 00	18445.0	74.70	0.
1270.	0.6727E 00	18599.8	74.82	0.
1280.	0.6675E 00	18754.7	74.94	0.
1290.	0.6623E 00	18909.9	75.06	0.
1300.	0.6573E 00	19065.3	75.18	0.
1310.	0.6523E 00	19220.9	75.30	0.
1320.	0.6474E 00	19376.7	75.42	0.
1330.	0.6425E 00	19532.8	75.54	0.
1340.	0.6378E 00	19689.1	75.65	0.
1350.	0.6331E 00	19845.6	75.77	0.
1360.	0.6284E 00	20002.3	75.89	0.
1370.	0.6239E 00	20159.2	76.00	0.
1380.	0.6194E 00	20316.4	76.12	0.
1390.	0.6149E 00	20473.8	76.23	0.
1400.	0.6106E 00	20631.5	76.34	0.
1410.	0.6063E 00	20789.4	76.45	0.
1420.	0.6020E 00	20947.5	76.57	0.
1430.	0.5978E 00	21105.9	76.68	0.
1440.	0.5937E 00	21264.5	76.79	0.
1450.	0.5896E 00	21423.4	76.90	0.
1460.	0.5856E 00	21582.5	77.01	0.
1470.	0.5817E 00	21741.8	77.12	0.
1480.	0.5777E 00	21901.4	77.22	0.
1490.	0.5739E 00	22061.3	77.33	0.
1500.	0.5732E 00	22201.2	77.45	0.00000
1510.	0.5694E 00	22361.6	77.56	0.00000
1520.	0.5657E 00	22522.1	77.66	0.00000
1530.	0.5620E 00	22683.0	77.77	0.00000
1540.	0.5583E 00	22844.0	77.87	0.00000
1550.	0.5547E 00	23005.2	77.98	0.00000
1560.	0.5512E 00	23166.7	78.08	0.00000
1570.	0.5477E 00	23328.4	78.18	0.00000
1580.	0.5442E 00	23490.3	78.29	0.00000
1590.	0.5408E 00	23652.5	78.39	0.00000

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/CM DEG	FRACTION DISSOCIATED
1600.	0.5374E 00	23814.8	78.49	0.00000
1610.	0.5341E 00	23977.4	78.59	0.00001
1620.	0.5308E 00	24140.2	78.69	0.00001
1630.	0.5275E 00	24303.2	78.79	0.00001
1640.	0.5243E 00	24466.4	78.89	0.00001
1650.	0.5211E 00	24629.8	78.99	0.00001
1660.	0.5180E 00	24793.5	79.09	0.00001
1670.	0.5149E 00	24957.4	79.19	0.00001
1680.	0.5118E 00	25121.5	79.29	0.00001
1690.	0.5088E 00	25285.8	79.39	0.00001
1700.	0.5058E 00	25450.4	79.48	0.00001
1710.	0.5028E 00	25615.2	79.58	0.00001
1720.	0.4999E-00	25780.2	79.68	0.00001
1730.	0.4970E-00	25945.4	79.77	0.00002
1740.	0.4942E-00	26110.8	79.87	0.00002
1750.	0.4913E-00	26276.5	79.96	0.00002
1760.	0.4885E-00	26442.4	80.06	0.00002
1770.	0.4858E-00	26608.5	80.15	0.00002
1780.	0.4831E-00	26774.9	80.25	0.00003
1790.	0.4804E-00	26941.5	80.34	0.00003
1800.	0.4777E-00	27108.3	80.43	0.00003
1810.	0.4750E-00	27275.4	80.53	0.00003
1820.	0.4724E-00	27442.7	80.62	0.00004
1830.	0.4698E-00	27610.2	80.71	0.00004
1840.	0.4673E-00	27778.0	80.80	0.00004
1850.	0.4648E-00	27946.0	80.89	0.00005
1860.	0.4623E-00	28114.3	80.98	0.00005
1870.	0.4598E-00	28282.8	81.07	0.00005
1880.	0.4573E-00	28451.6	81.16	0.00006
1890.	0.4549E-00	28620.6	81.25	0.00006
1900.	0.4525E-00	28789.8	81.34	0.00007
1910.	0.4502E-00	28959.4	81.43	0.00007
1920.	0.4478E-00	29129.2	81.52	0.00008
1930.	0.4455E-00	29299.2	81.61	0.00008
1940.	0.4432E-00	29469.6	81.70	0.00009
1950.	0.4409E-00	29640.2	81.79	0.00010
1960.	0.4387E-00	29811.1	81.88	0.00010
1970.	0.4364E-00	29982.2	81.96	0.00011
1980.	0.4342E-00	30153.7	82.05	0.00012
1990.	0.4320E-00	30325.4	82.14	0.00013
2000.	0.4299E-00	30497.5	82.22	0.00014
2010.	0.4277E-00	30669.8	82.31	0.00015
2020.	0.4256E-00	30842.5	82.40	0.00016
2030.	0.4235E-00	31015.4	82.48	0.00017
2040.	0.4214E-00	31188.7	82.57	0.00018
2050.	0.4194E-00	31362.3	82.65	0.00019
2060.	0.4173E-00	31536.2	82.74	0.00020
2070.	0.4153E-00	31710.5	82.82	0.00022
2080.	0.4133E-00	31885.1	82.91	0.00023
2090.	0.4113E-00	32060.1	82.99	0.00025

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.4093E-00	32235.4	83.08	0.00026
2110.	0.4074E-00	32411.1	83.16	0.00028
2120.	0.4055E-00	32587.1	83.25	0.00030
2130.	0.4036E-00	32763.5	83.33	0.00032
2140.	0.4017E-00	32940.4	83.42	0.00034
2150.	0.3998E-00	33117.6	83.50	0.00036
2160.	0.3979E-00	33295.2	83.58	0.00038
2170.	0.3961E-00	33473.2	83.67	0.00040
2180.	0.3943E-00	33651.7	83.75	0.00042
2190.	0.3925E-00	33830.6	83.83	0.00045
2200.	0.3907E-00	34009.9	83.92	0.00048
2210.	0.3889E-00	34189.7	84.00	0.00050
2220.	0.3871E-00	34369.9	84.08	0.00053
2230.	0.3854E-00	34550.6	84.16	0.00056
2240.	0.3836E-00	34731.8	84.25	0.00059
2250.	0.3819E-00	34913.5	84.33	0.00063
2260.	0.3802E-00	35095.7	84.41	0.00066
2270.	0.3785E-00	35278.5	84.49	0.00070
2280.	0.3769E-00	35461.7	84.58	0.00074
2290.	0.3752E-00	35645.5	84.66	0.00078
2300.	0.3735E-00	35829.9	84.74	0.00082
2310.	0.3719E-00	36014.8	84.82	0.00086
2320.	0.3703E-00	36200.3	84.90	0.00091
2330.	0.3687E-00	36386.4	84.99	0.00095
2340.	0.3671E-00	36573.1	85.07	0.00100
2350.	0.3655E-00	36760.5	85.15	0.00105
2360.	0.3639E-00	36948.5	85.23	0.00111
2370.	0.3624E-00	37137.1	85.32	0.00116
2380.	0.3608E-00	37326.4	85.40	0.00122
2390.	0.3593E-00	37516.5	85.48	0.00128
2400.	0.3578E-00	37707.2	85.56	0.00134
2410.	0.3563E-00	37898.6	85.64	0.00141
2420.	0.3548E-00	38090.8	85.73	0.00148
2430.	0.3533E-00	38283.7	85.81	0.00155
2440.	0.3518E-00	38477.4	85.89	0.00162
2450.	0.3504E-00	38671.9	85.97	0.00170
2460.	0.3489E-00	38867.2	86.06	0.00178
2470.	0.3475E-00	39063.3	86.14	0.00186
2480.	0.3460E-00	39260.3	86.22	0.00194
2490.	0.3446E-00	39458.1	86.30	0.00203
2500.	0.3432E-00	39656.8	86.39	0.00212
2510.	0.3418E-00	39856.5	86.47	0.00222
2520.	0.3404E-00	40057.0	86.55	0.00232
2530.	0.3390E-00	40258.5	86.64	0.00242
2540.	0.3377E-00	40461.0	86.72	0.00252
2550.	0.3363E-00	40664.5	86.80	0.00263
2560.	0.3350E-00	40868.9	86.89	0.00275
2570.	0.3336E-00	41074.5	86.97	0.00286
2580.	0.3323E-00	41281.0	87.06	0.00299
2590.	0.3310E-00	41488.7	87.14	0.00311

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.3296E-00	41697.4	87.23	0.00324
2610.	0.3283E-00	41907.3	87.31	0.00337
2620.	0.3270E-00	42118.4	87.40	0.00351
2630.	0.3258E-00	42330.6	87.48	0.00366
2640.	0.3245E-00	42544.0	87.57	0.00380
2650.	0.3232E-00	42758.6	87.65	0.00396
2660.	0.3219E-00	42974.5	87.74	0.00411
2670.	0.3207E-00	43191.7	87.83	0.00428
2680.	0.3194E-00	43410.2	87.91	0.00444
2690.	0.3182E-00	43630.0	88.00	0.00462
2700.	0.3169E-00	43851.2	88.09	0.00480
2710.	0.3157E-00	44073.7	88.18	0.00498
2720.	0.3145E-00	44297.7	88.26	0.00517
2730.	0.3133E-00	44523.1	88.35	0.00537
2740.	0.3121E-00	44750.0	88.44	0.00557
2750.	0.3109E-00	44978.4	88.53	0.00577
2760.	0.3097E-00	45208.3	88.62	0.00599
2770.	0.3085E-00	45439.7	88.71	0.00621
2780.	0.3073E-00	45672.8	88.80	0.00643
2790.	0.3062E-00	45907.5	88.89	0.00667
2800.	0.3050E-00	46143.8	88.98	0.00691
2810.	0.3038E-00	46381.8	89.07	0.00715
2820.	0.3027E-00	46621.5	89.16	0.00741
2830.	0.3015E-00	46862.9	89.26	0.00767
2840.	0.3004E-00	47106.2	89.35	0.00793
2850.	0.2992E-00	47351.2	89.44	0.00821
2860.	0.2981E-00	47598.1	89.53	0.00849
2870.	0.2970E-00	47846.8	89.63	0.00878
2880.	0.2959E-00	48097.4	89.72	0.00908
2890.	0.2948E-00	48350.0	89.82	0.00939
2900.	0.2937E-00	48604.6	89.91	0.00970
2910.	0.2926E-00	48861.1	90.01	0.01002
2920.	0.2915E-00	49119.7	90.11	0.01035
2930.	0.2904E-00	49380.4	90.20	0.01069
2940.	0.2893E-00	49643.2	90.30	0.01104
2950.	0.2882E-00	49908.1	90.40	0.01140
2960.	0.2871E-00	50175.2	90.50	0.01176
2970.	0.2860E-00	50444.5	90.60	0.01214
2980.	0.2850E-00	50716.1	90.69	0.01252
2990.	0.2839E-00	50989.9	90.79	0.01292
3000.	0.2829E-00	51266.1	90.90	0.01332

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.8609E 01	1047.3	32.67	0.
110.	0.7764E 01	1193.9	34.07	0.
120.	0.7080E 01	1346.8	35.40	0.
130.	0.6512E 01	1504.9	36.67	0.
140.	0.6033E 01	1667.1	37.87	0.
150.	0.5621E 01	1831.9	39.00	0.
160.	0.5264E 01	1998.2	40.08	0.
170.	0.4951E 01	2164.8	41.09	0.
180.	0.4674E 01	2330.8	42.04	0.
190.	0.4428E 01	2495.8	42.93	0.
200.	0.4206E 01	2659.3	43.77	0.
210.	0.4006E 01	2821.2	44.56	0.
220.	0.3824E 01	2981.2	45.30	0.
230.	0.3659E 01	3139.6	46.01	0.
240.	0.3507E 01	3296.3	46.67	0.
250.	0.3368E 01	3451.4	47.31	0.
260.	0.3239E 01	3605.2	47.91	0.
270.	0.3120E 01	3757.8	48.48	0.
280.	0.3010E 01	3909.2	49.04	0.
290.	0.2907E 01	4059.7	49.56	0.
300.	0.2811E 01	4209.4	50.07	0.
310.	0.2721E 01	4358.4	50.56	0.
320.	0.2637E 01	4506.8	51.03	0.
330.	0.2558E 01	4654.7	51.49	0.
340.	0.2483E 01	4802.2	51.93	0.
350.	0.2413E 01	4949.3	52.35	0.
360.	0.2347E 01	5096.1	52.77	0.
370.	0.2284E 01	5242.6	53.17	0.
380.	0.2225E 01	5389.0	53.56	0.
390.	0.2168E 01	5535.2	53.94	0.
400.	0.2114E 01	5681.3	54.31	0.
410.	0.2063E 01	5827.2	54.67	0.
420.	0.2015E 01	5973.1	55.02	0.
430.	0.1968E 01	6118.9	55.36	0.
440.	0.1924E 01	6264.7	55.70	0.
450.	0.1882E 01	6410.4	56.02	0.
460.	0.1841E 01	6556.1	56.35	0.
470.	0.1803E 01	6701.8	56.66	0.
480.	0.1766E 01	6847.4	56.97	0.
490.	0.1730E 01	6993.0	57.27	0.
500.	0.1696E 01	7138.6	57.56	0.
510.	0.1663E 01	7284.2	57.85	0.
520.	0.1631E 01	7429.7	58.13	0.
530.	0.1601E 01	7575.3	58.41	0.
540.	0.1571E 01	7720.9	58.68	0.
550.	0.1543E 01	7866.4	58.95	0.
560.	0.1516E 01	8012.0	59.21	0.
570.	0.1489E 01	8157.6	59.47	0.
580.	0.1464E 01	8303.2	59.72	0.
590.	0.1439E 01	8448.8	59.97	0.

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1416E 01	8593.9	62.53	0.
610.	0.1393E 01	8739.5	62.77	0.
620.	0.1370E 01	8885.2	63.01	0.
630.	0.1349E 01	9030.9	63.24	0.
640.	0.1328E 01	9176.7	63.47	0.
650.	0.1308E 01	9322.5	63.70	0.
660.	0.1288E 01	9468.3	63.92	0.
670.	0.1269E 01	9614.3	64.14	0.
680.	0.1251E 01	9760.2	64.36	0.
690.	0.1233E 01	9906.3	64.57	0.
700.	0.1215E 01	10052.4	64.78	0.
710.	0.1198E 01	10198.7	64.99	0.
720.	0.1182E 01	10345.0	65.19	0.
730.	0.1166E 01	10491.4	65.39	0.
740.	0.1150E 01	10637.9	65.59	0.
750.	0.1135E 01	10784.5	65.79	0.
760.	0.1120E 01	10931.2	65.98	0.
770.	0.1106E 01	11078.1	66.18	0.
780.	0.1092E 01	11225.0	66.37	0.
790.	0.1078E 01	11372.0	66.55	0.
800.	0.1064E 01	11519.2	66.74	0.
810.	0.1051E 01	11666.4	66.92	0.
820.	0.1039E 01	11813.8	67.10	0.
830.	0.1026E 01	11961.3	67.28	0.
840.	0.1014E 01	12108.9	67.46	0.
850.	0.1002E 01	12256.7	67.63	0.
860.	0.9908E 00	12404.5	67.81	0.
870.	0.9795E 00	12552.5	67.98	0.
880.	0.9684E 00	12700.7	68.15	0.
890.	0.9576E 00	12848.9	68.31	0.
900.	0.9471E 00	12997.3	68.48	0.
910.	0.9367E 00	13145.8	68.64	0.
920.	0.9266E 00	13294.5	68.81	0.
930.	0.9167E 00	13443.3	68.97	0.
940.	0.9071E 00	13592.2	69.13	0.
950.	0.8976E 00	13741.3	69.28	0.
960.	0.8883E 00	13890.5	69.44	0.
970.	0.8792E 00	14039.9	69.59	0.
980.	0.8703E 00	14189.4	69.75	0.
990.	0.8616E 00	14339.1	69.90	0.
1000.	0.8530E 00	14488.9	70.05	0.
1010.	0.8446E 00	14638.9	70.20	0.
1020.	0.8364E 00	14789.0	70.35	0.
1030.	0.8283E 00	14939.3	70.49	0.
1040.	0.8204E 00	15089.8	70.64	0.
1050.	0.8127E 00	15240.4	70.78	0.
1060.	0.8051E 00	15391.2	70.93	0.
1070.	0.7976E 00	15542.2	71.07	0.
1080.	0.7903E 00	15693.3	71.21	0.
1090.	0.7831E 00	15844.6	71.35	0.

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.7760E 00	15996.1	71.49	0.
1110.	0.7690E 00	16147.7	71.62	0.
1120.	0.7622E 00	16299.6	71.76	0.
1130.	0.7555E 00	16451.6	71.90	0.
1140.	0.7489E 00	16603.8	72.03	0.
1150.	0.7425E 00	16756.1	72.16	0.
1160.	0.7361E 00	16908.7	72.29	0.
1170.	0.7298E 00	17061.4	72.43	0.
1180.	0.7237E 00	17214.4	72.56	0.
1190.	0.7177E 00	17367.5	72.68	0.
1200.	0.7117E 00	17520.9	72.81	0.
1210.	0.7059E 00	17674.4	72.94	0.
1220.	0.7001E 00	17828.1	73.07	0.
1230.	0.6945E 00	17982.0	73.19	0.
1240.	0.6889E 00	18136.2	73.32	0.
1250.	0.6834E 00	18290.5	73.44	0.
1260.	0.6780E 00	18445.0	73.56	0.
1270.	0.6727E 00	18599.8	73.69	0.
1280.	0.6675E 00	18754.7	73.81	0.
1290.	0.6623E 00	18909.9	73.93	0.
1300.	0.6573E 00	19065.3	74.05	0.
1310.	0.6523E 00	19220.9	74.17	0.
1320.	0.6474E 00	19376.7	74.29	0.
1330.	0.6425E 00	19532.8	74.40	0.
1340.	0.6378E 00	19689.1	74.52	0.
1350.	0.6331E 00	19845.6	74.64	0.
1360.	0.6284E 00	20002.3	74.75	0.
1370.	0.6239E 00	20159.2	74.87	0.
1380.	0.6194E 00	20316.4	74.98	0.
1390.	0.6149E 00	20473.8	75.10	0.
1400.	0.6106E 00	20631.5	75.21	0.
1410.	0.6063E 00	20789.4	75.32	0.
1420.	0.6020E 00	20947.5	75.43	0.
1430.	0.5978E 00	21105.9	75.55	0.
1440.	0.5937E 00	21264.5	75.66	0.
1450.	0.5896E 00	21423.4	75.77	0.
1460.	0.5856E 00	21582.5	75.87	0.
1470.	0.5817E 00	21741.8	75.98	0.
1480.	0.5777E 00	21901.4	76.09	0.
1490.	0.5739E 00	22061.3	76.20	0.
1500.	0.5732E 00	22201.2	76.32	0.00000
1510.	0.5694E 00	22361.6	76.42	0.00000
1520.	0.5657E 00	22522.1	76.53	0.00000
1530.	0.5620E 00	22683.0	76.64	0.00000
1540.	0.5583E 00	22844.0	76.74	0.00000
1550.	0.5547E 00	23005.2	76.84	0.00000
1560.	0.5512E 00	23166.7	76.95	0.00000
1570.	0.5477E 00	23328.4	77.05	0.00000
1580.	0.5442E 00	23490.3	77.15	0.00000
1590.	0.5408E 00	23652.5	77.26	0.00000

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.5374E 00	23814.8	77.36	0.00000
1610.	0.5341E 00	23977.4	77.46	0.00001
1620.	0.5308E 00	24140.2	77.56	0.00001
1630.	0.5275E 00	24303.2	77.66	0.00001
1640.	0.5243E 00	24466.4	77.76	0.00001
1650.	0.5211E 00	24629.8	77.86	0.00001
1660.	0.5180E 00	24793.5	77.96	0.00001
1670.	0.5149E 00	24957.4	78.06	0.00001
1680.	0.5118E 00	25121.5	78.16	0.00001
1690.	0.5088E 00	25285.8	78.25	0.00001
1700.	0.5058E 00	25450.4	78.35	0.00001
1710.	0.5028E 00	25615.2	78.45	0.00001
1720.	0.4999E-00	25780.2	78.54	0.00001
1730.	0.4970E-00	25945.4	78.64	0.00002
1740.	0.4942E-00	26110.8	78.74	0.00002
1750.	0.4913E-00	26276.5	78.83	0.00002
1760.	0.4885E-00	26442.4	78.93	0.00002
1770.	0.4858E-00	26608.5	79.02	0.00002
1780.	0.4831E-00	26774.9	79.11	0.00003
1790.	0.4804E-00	26941.5	79.21	0.00003
1800.	0.4777E-00	27108.3	79.30	0.00003
1810.	0.4750E-00	27275.4	79.39	0.00003
1820.	0.4724E-00	27442.7	79.48	0.00004
1830.	0.4698E-00	27610.2	79.58	0.00004
1840.	0.4673E-00	27778.0	79.67	0.00004
1850.	0.4648E-00	27946.0	79.76	0.00005
1860.	0.4623E-00	28114.3	79.85	0.00005
1870.	0.4598E-00	28282.8	79.94	0.00005
1880.	0.4573E-00	28451.6	80.03	0.00006
1890.	0.4549E-00	28620.6	80.12	0.00006
1900.	0.4525E-00	28789.8	80.21	0.00007
1910.	0.4502E-00	28959.4	80.30	0.00007
1920.	0.4478E-00	29129.2	80.39	0.00008
1930.	0.4455E-00	29299.2	80.48	0.00008
1940.	0.4432E-00	29469.6	80.57	0.00009
1950.	0.4409E-00	29640.2	80.66	0.00010
1960.	0.4387E-00	29811.1	80.74	0.00010
1970.	0.4364E-00	29982.2	80.83	0.00011
1980.	0.4342E-00	30153.7	80.92	0.00012
1990.	0.4320E-00	30325.4	81.00	0.00013
2000.	0.4299E-00	30497.5	81.09	0.00014
2010.	0.4277E-00	30669.8	81.18	0.00015
2020.	0.4256E-00	30842.5	81.26	0.00016
2030.	0.4235E-00	31015.4	81.35	0.00017
2040.	0.4214E-00	31188.7	81.44	0.00018
2050.	0.4194E-00	31362.3	81.52	0.00019
2060.	0.4173E-00	31536.2	81.61	0.00020
2070.	0.4153E-00	31710.5	81.69	0.00022
2080.	0.4133E-00	31885.1	81.78	0.00023
2090.	0.4113E-00	32060.1	81.86	0.00025

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.4093E-00	32235.4	81.95	0.00026
2110.	0.4074E-00	32411.1	82.03	0.00028
2120.	0.4055E-00	32587.1	82.12	0.00030
2130.	0.4036E-00	32763.5	82.20	0.00032
2140.	0.4017E-00	32940.4	82.28	0.00034
2150.	0.3998E-00	33117.6	82.37	0.00036
2160.	0.3979E-00	33295.2	82.45	0.00038
2170.	0.3961E-00	33473.2	82.53	0.00040
2180.	0.3943E-00	33651.7	82.62	0.00042
2190.	0.3925E-00	33830.6	82.70	0.00045
2200.	0.3907E-00	34009.9	82.78	0.00048
2210.	0.3889E-00	34189.7	82.87	0.00050
2220.	0.3871E-00	34369.9	82.95	0.00053
2230.	0.3854E-00	34550.6	83.03	0.00056
2240.	0.3836E-00	34731.8	83.11	0.00059
2250.	0.3819E-00	34913.5	83.20	0.00063
2260.	0.3802E-00	35095.7	83.28	0.00066
2270.	0.3785E-00	35278.5	83.36	0.00070
2280.	0.3769E-00	35461.7	83.44	0.00074
2290.	0.3752E-00	35645.5	83.53	0.00078
2300.	0.3735E-00	35829.9	83.61	0.00082
2310.	0.3719E-00	36014.8	83.69	0.00086
2320.	0.3703E-00	36200.3	83.77	0.00091
2330.	0.3687E-00	36386.4	83.85	0.00095
2340.	0.3671E-00	36573.1	83.94	0.00100
2350.	0.3655E-00	36760.5	84.02	0.00105
2360.	0.3639E-00	36948.5	84.10	0.00111
2370.	0.3624E-00	37137.1	84.18	0.00116
2380.	0.3608E-00	37326.4	84.26	0.00122
2390.	0.3593E-00	37516.5	84.35	0.00128
2400.	0.3578E-00	37707.2	84.43	0.00134
2410.	0.3563E-00	37898.6	84.51	0.00141
2420.	0.3548E-00	38090.8	84.59	0.00148
2430.	0.3533E-00	38283.7	84.68	0.00155
2440.	0.3518E-00	38477.4	84.76	0.00162
2450.	0.3504E-00	38671.9	84.84	0.00170
2460.	0.3489E-00	38867.2	84.92	0.00178
2470.	0.3475E-00	39063.3	85.01	0.00186
2480.	0.3460E-00	39260.3	85.09	0.00194
2490.	0.3446E-00	39458.1	85.17	0.00203
2500.	0.3432E-00	39656.8	85.25	0.00212
2510.	0.3418E-00	39856.5	85.34	0.00222
2520.	0.3404E-00	40057.0	85.42	0.00232
2530.	0.3390E-00	40258.5	85.50	0.00242
2540.	0.3377E-00	40461.0	85.59	0.00252
2550.	0.3363E-00	40664.5	85.67	0.00263
2560.	0.3350E-00	40868.9	85.76	0.00275
2570.	0.3336E-00	41074.5	85.84	0.00286
2580.	0.3323E-00	41281.0	85.92	0.00299
2590.	0.3310E-00	41488.7	86.01	0.00311

PRESSURE 35. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.3296E-00	41697.4	86.09	0.00324
2610.	0.3283E-00	41907.3	86.18	0.00337
2620.	0.3270E-00	42118.4	86.26	0.00351
2630.	0.3258E-00	42330.6	86.35	0.00366
2640.	0.3245E-00	42544.0	86.43	0.00380
2650.	0.3232E-00	42758.6	86.52	0.00396
2660.	0.3219E-00	42974.5	86.61	0.00411
2670.	0.3207E-00	43191.7	86.69	0.00428
2680.	0.3194E-00	43410.2	86.78	0.00444
2690.	0.3182E-00	43630.0	86.87	0.00462
2700.	0.3169E-00	43851.2	86.95	0.00480
2710.	0.3157E-00	44073.7	87.04	0.00498
2720.	0.3145E-00	44297.7	87.13	0.00517
2730.	0.3133E-00	44523.1	87.22	0.00537
2740.	0.3121E-00	44750.0	87.31	0.00557
2750.	0.3109E-00	44978.4	87.40	0.00577
2760.	0.3097E-00	45208.3	87.49	0.00599
2770.	0.3085E-00	45439.7	87.58	0.00621
2780.	0.3073E-00	45672.8	87.67	0.00643
2790.	0.3062E-00	45907.5	87.76	0.00667
2800.	0.3050E-00	46143.8	87.85	0.00691
2810.	0.3038E-00	46381.8	87.94	0.00715
2820.	0.3027E-00	46621.5	88.03	0.00741
2830.	0.3015E-00	46862.9	88.12	0.00767
2840.	0.3004E-00	47106.2	88.22	0.00793
2850.	0.2992E-00	47351.2	88.31	0.00821
2860.	0.2981E-00	47598.1	88.40	0.00849
2870.	0.2970E-00	47846.8	88.50	0.00878
2880.	0.2959E-00	48097.4	88.59	0.00908
2890.	0.2948E-00	48350.0	88.69	0.00939
2900.	0.2937E-00	48604.6	88.78	0.00970
2910.	0.2926E-00	48861.1	88.88	0.01002
2920.	0.2915E-00	49119.7	88.97	0.01035
2930.	0.2904E-00	49380.4	89.07	0.01069
2940.	0.2893E-00	49643.2	89.17	0.01104
2950.	0.2882E-00	49908.1	89.27	0.01140
2960.	0.2871E-00	50175.2	89.36	0.01176
2970.	0.2860E-00	50444.5	89.46	0.01214
2980.	0.2850E-00	50716.1	89.56	0.01252
2990.	0.2839E-00	50989.9	89.66	0.01292
3000.	0.2829E-00	51266.1	89.76	0.01332

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.9818E 01	1523.3	40.63	0.
110.	0.8849E 01	1646.2	41.81	0.
120.	0.8065E 01	1770.2	42.88	0.
130.	0.7417E 01	1895.9	43.89	0.
140.	0.6870E 01	2023.4	44.83	0.
150.	0.6401E 01	2152.6	45.73	0.
160.	0.5994E 01	2283.6	46.57	0.
170.	0.5638E 01	2416.2	47.38	0.
180.	0.5323E 01	2550.4	48.14	0.
190.	0.5042E 01	2686.1	48.88	0.
200.	0.4790E 01	2823.0	49.58	0.
210.	0.4562E 01	2961.1	50.25	0.
220.	0.4356E 01	3100.2	50.90	0.
230.	0.4167E 01	3240.2	51.52	0.
240.	0.3995E 01	3381.1	52.12	0.
250.	0.3836E 01	3522.7	52.70	0.
260.	0.3690E 01	3664.9	53.26	0.
270.	0.3555E 01	3807.6	53.80	0.
280.	0.3429E 01	3950.8	54.32	0.
290.	0.3312E 01	4094.4	54.82	0.
300.	0.3203E 01	4238.4	55.31	0.
310.	0.3101E 01	4382.6	55.78	0.
320.	0.3005E 01	4527.1	56.24	0.
330.	0.2915E 01	4671.7	56.69	0.
340.	0.2830E 01	4816.6	57.12	0.
350.	0.2750E 01	4961.5	57.54	0.
360.	0.2675E 01	5106.5	57.95	0.
370.	0.2604E 01	5251.7	58.34	0.
380.	0.2536E 01	5396.8	58.73	0.
390.	0.2472E 01	5542.1	59.11	0.
400.	0.2411E 01	5687.3	59.48	0.
410.	0.2353E 01	5832.6	59.83	0.
420.	0.2297E 01	5977.9	60.18	0.
430.	0.2245E 01	6123.3	60.53	0.
440.	0.2194E 01	6268.6	60.86	0.
450.	0.2146E 01	6414.0	61.19	0.
460.	0.2100E 01	6559.4	61.51	0.
470.	0.2056E 01	6704.9	61.82	0.
480.	0.2013E 01	6850.3	62.13	0.
490.	0.1973E 01	6995.8	62.43	0.
500.	0.1934E 01	7141.3	62.72	0.
510.	0.1896E 01	7286.8	63.01	0.
520.	0.1860E 01	7432.4	63.29	0.
530.	0.1826E 01	7578.0	63.57	0.
540.	0.1792E 01	7723.6	63.84	0.
550.	0.1760E 01	7869.3	64.11	0.
560.	0.1729E 01	8015.0	64.37	0.
570.	0.1699E 01	8160.7	64.63	0.
580.	0.1670E 01	8306.4	64.88	0.
590.	0.1642E 01	8452.1	65.13	0.

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1615E 01	8597.3	65.38	0.
610.	0.1589E 01	8743.1	65.62	0.
620.	0.1563E 01	8888.8	65.85	0.
630.	0.1539E 01	9034.5	66.09	0.
640.	0.1515E 01	9180.3	66.32	0.
650.	0.1492E 01	9326.1	66.54	0.
660.	0.1470E 01	9472.0	66.77	0.
670.	0.1448E 01	9617.9	66.99	0.
680.	0.1427E 01	9763.9	67.20	0.
690.	0.1406E 01	9910.0	67.42	0.
700.	0.1387E 01	10056.2	67.63	0.
710.	0.1367E 01	10202.4	67.83	0.
720.	0.1348E 01	10348.8	68.04	0.
730.	0.1330E 01	10495.2	68.24	0.
740.	0.1312E 01	10641.7	68.44	0.
750.	0.1295E 01	10788.4	68.64	0.
760.	0.1278E 01	10935.1	68.83	0.
770.	0.1262E 01	11081.9	69.02	0.
780.	0.1246E 01	11228.9	69.21	0.
790.	0.1230E 01	11375.9	69.40	0.
800.	0.1215E 01	11523.1	69.58	0.
810.	0.1200E 01	11670.4	69.77	0.
820.	0.1185E 01	11817.8	69.95	0.
830.	0.1171E 01	11965.3	70.13	0.
840.	0.1158E 01	12112.9	70.30	0.
850.	0.1144E 01	12260.7	70.48	0.
860.	0.1131E 01	12408.6	70.65	0.
870.	0.1118E 01	12556.6	70.82	0.
880.	0.1105E 01	12704.7	70.99	0.
890.	0.1093E 01	12853.0	71.16	0.
900.	0.1081E 01	13001.4	71.33	0.
910.	0.1069E 01	13149.9	71.49	0.
920.	0.1058E 01	13298.6	71.65	0.
930.	0.1046E 01	13447.4	71.81	0.
940.	0.1035E 01	13596.3	71.97	0.
950.	0.1025E 01	13745.4	72.13	0.
960.	0.1014E 01	13894.7	72.29	0.
970.	0.1004E 01	14044.0	72.44	0.
980.	0.9935E 00	14193.6	72.59	0.
990.	0.9835E 00	14343.3	72.75	0.
1000.	0.9738E 00	14493.1	72.90	0.
1010.	0.9642E 00	14643.1	73.05	0.
1020.	0.9548E 00	14793.2	73.19	0.
1030.	0.9456E 00	14943.5	73.34	0.
1040.	0.9366E 00	15094.0	73.49	0.
1050.	0.9278E 00	15244.7	73.63	0.
1060.	0.9191E 00	15395.5	73.77	0.
1070.	0.9105E 00	15546.4	73.91	0.
1080.	0.9022E 00	15697.6	74.06	0.
1090.	0.8940E 00	15848.9	74.19	0.

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.8859E 00	16000.4	74.33	0.
1110.	0.8780E 00	16152.0	74.47	0.
1120.	0.8702E 00	16303.9	74.61	0.
1130.	0.8626E 00	16455.9	74.74	0.
1140.	0.8550E 00	16608.1	74.88	0.
1150.	0.8477E 00	16760.5	75.01	0.
1160.	0.8404E 00	16913.0	75.14	0.
1170.	0.8333E 00	17065.8	75.27	0.
1180.	0.8263E 00	17218.7	75.40	0.
1190.	0.8194E 00	17371.9	75.53	0.
1200.	0.8126E 00	17525.2	75.66	0.
1210.	0.8059E 00	17678.7	75.79	0.
1220.	0.7994E 00	17832.5	75.91	0.
1230.	0.7929E 00	17986.4	76.04	0.
1240.	0.7866E 00	18140.6	76.16	0.
1250.	0.7803E 00	18294.9	76.29	0.
1260.	0.7742E 00	18449.4	76.41	0.
1270.	0.7681E 00	18604.2	76.53	0.
1280.	0.7621E 00	18759.2	76.66	0.
1290.	0.7563E 00	18914.3	76.78	0.
1300.	0.7505E 00	19069.7	76.90	0.
1310.	0.7448E 00	19225.4	77.02	0.
1320.	0.7392E 00	19381.2	77.13	0.
1330.	0.7337E 00	19537.2	77.25	0.
1340.	0.7282E 00	19693.5	77.37	0.
1350.	0.7229E 00	19850.0	77.49	0.
1360.	0.7176E 00	20006.7	77.60	0.
1370.	0.7124E 00	20163.7	77.72	0.
1380.	0.7073E 00	20320.9	77.83	0.
1390.	0.7022E 00	20478.3	77.94	0.
1400.	0.6972E 00	20636.0	78.06	0.
1410.	0.6923E 00	20793.9	78.17	0.
1420.	0.6875E 00	20952.0	78.28	0.
1430.	0.6827E 00	21110.4	78.39	0.
1440.	0.6780E 00	21269.0	78.50	0.
1450.	0.6733E 00	21427.9	78.61	0.
1460.	0.6687E 00	21587.0	78.72	0.
1470.	0.6642E 00	21746.4	78.83	0.
1480.	0.6597E 00	21906.0	78.94	0.
1490.	0.6553E 00	22065.9	79.05	0.
1500.	0.6551E 00	22201.2	79.16	0.00000
1510.	0.6508E 00	22361.5	79.27	0.00000
1520.	0.6465E 00	22522.1	79.38	0.00000
1530.	0.6423E 00	22682.9	79.48	0.00000
1540.	0.6381E 00	22844.0	79.59	0.00000
1550.	0.6340E 00	23005.2	79.69	0.00000
1560.	0.6299E 00	23166.7	79.80	0.00000
1570.	0.6259E 00	23328.4	79.90	0.00000
1580.	0.6220E 00	23490.3	80.00	0.00000
1590.	0.6180E 00	23652.4	80.10	0.00000

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.6142E 00	23814.7	80.21	0.00000
1610.	0.6104E 00	23977.3	80.31	0.00000
1620.	0.6066E 00	24140.1	80.41	0.00001
1630.	0.6029E 00	24303.1	80.51	0.00001
1640.	0.5992E 00	24466.3	80.61	0.00001
1650.	0.5956E 00	24629.7	80.71	0.00001
1660.	0.5920E 00	24793.4	80.81	0.00001
1670.	0.5884E 00	24957.3	80.91	0.00001
1680.	0.5849E 00	25121.4	81.00	0.00001
1690.	0.5815E 00	25285.7	81.10	0.00001
1700.	0.5780E 00	25450.2	81.20	0.00001
1710.	0.5747E 00	25615.0	81.29	0.00001
1720.	0.5713E 00	25779.9	81.39	0.00001
1730.	0.5680E 00	25945.1	81.49	0.00002
1740.	0.5648E 00	26110.6	81.58	0.00002
1750.	0.5615E 00	26276.2	81.68	0.00002
1760.	0.5583E 00	26442.1	81.77	0.00002
1770.	0.5552E 00	26608.2	81.87	0.00002
1780.	0.5521E 00	26774.5	81.96	0.00002
1790.	0.5490E 00	26941.1	82.05	0.00003
1800.	0.5459E 00	27107.9	82.15	0.00003
1810.	0.5429E 00	27274.9	82.24	0.00003
1820.	0.5399E 00	27442.2	82.33	0.00003
1830.	0.5370E 00	27609.7	82.42	0.00004
1840.	0.5341E 00	27777.4	82.52	0.00004
1850.	0.5312E 00	27945.4	82.61	0.00004
1860.	0.5283E 00	28113.6	82.70	0.00005
1870.	0.5255E 00	28282.0	82.79	0.00005
1880.	0.5227E 00	28450.7	82.88	0.00005
1890.	0.5199E 00	28619.7	82.97	0.00006
1900.	0.5172E 00	28788.9	83.06	0.00006
1910.	0.5145E 00	28958.3	83.15	0.00007
1920.	0.5118E 00	29128.0	83.24	0.00007
1930.	0.5091E 00	29298.0	83.32	0.00008
1940.	0.5065E 00	29468.3	83.41	0.00008
1950.	0.5039E 00	29638.8	83.50	0.00009
1960.	0.5013E 00	29809.6	83.59	0.00010
1970.	0.4988E-00	29980.6	83.68	0.00010
1980.	0.4963E-00	30151.9	83.76	0.00011
1990.	0.4938E-00	30323.6	83.85	0.00012
2000.	0.4913E-00	30495.5	83.94	0.00013
2010.	0.4888E-00	30667.7	84.02	0.00014
2020.	0.4864E-00	30840.2	84.11	0.00015
2030.	0.4840E-00	31013.0	84.20	0.00016
2040.	0.4816E-00	31186.1	84.28	0.00017
2050.	0.4793E-00	31359.5	84.37	0.00018
2060.	0.4769E-00	31533.3	84.45	0.00019
2070.	0.4746E-00	31707.3	84.54	0.00020
2080.	0.4723E-00	31881.7	84.62	0.00022
2090.	0.4701E-00	32056.5	84.71	0.00023

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.4678E-00	32231.6	84.79	0.00025
2110.	0.4656E-00	32407.0	84.88	0.00026
2120.	0.4634E-00	32582.8	84.96	0.00028
2130.	0.4612E-00	32758.9	85.04	0.00030
2140.	0.4591E-00	32935.5	85.13	0.00031
2150.	0.4569E-00	33112.4	85.21	0.00033
2160.	0.4548E-00	33289.7	85.29	0.00035
2170.	0.4527E-00	33467.4	85.38	0.00037
2180.	0.4506E-00	33645.5	85.46	0.00040
2190.	0.4485E-00	33824.0	85.54	0.00042
2200.	0.4465E-00	34003.0	85.63	0.00044
2210.	0.4444E-00	34182.3	85.71	0.00047
2220.	0.4424E-00	34362.2	85.79	0.00050
2230.	0.4404E-00	34542.4	85.87	0.00053
2240.	0.4385E-00	34723.2	85.95	0.00056
2250.	0.4365E-00	34904.4	86.04	0.00059
2260.	0.4346E-00	35086.1	86.12	0.00062
2270.	0.4326E-00	35268.3	86.20	0.00065
2280.	0.4307E-00	35451.0	86.28	0.00069
2290.	0.4288E-00	35634.2	86.37	0.00073
2300.	0.4269E-00	35817.9	86.45	0.00076
2310.	0.4251E-00	36002.2	86.53	0.00080
2320.	0.4232E-00	36187.1	86.61	0.00085
2330.	0.4214E-00	36372.5	86.69	0.00089
2340.	0.4196E-00	36558.5	86.77	0.00094
2350.	0.4178E-00	36745.1	86.86	0.00098
2360.	0.4160E-00	36932.3	86.94	0.00103
2370.	0.4142E-00	37120.1	87.02	0.00109
2380.	0.4124E-00	37308.6	87.10	0.00114
2390.	0.4107E-00	37497.7	87.18	0.00120
2400.	0.4089E-00	37687.5	87.26	0.00126
2410.	0.4072E-00	37878.0	87.35	0.00132
2420.	0.4055E-00	38069.2	87.43	0.00138
2430.	0.4038E-00	38261.1	87.51	0.00145
2440.	0.4021E-00	38453.7	87.59	0.00152
2450.	0.4005E-00	38647.1	87.67	0.00159
2460.	0.3988E-00	38841.2	87.75	0.00166
2470.	0.3972E-00	39036.1	87.84	0.00174
2480.	0.3955E-00	39231.8	87.92	0.00182
2490.	0.3939E-00	39428.4	88.00	0.00190
2500.	0.3923E-00	39625.7	88.08	0.00199
2510.	0.3907E-00	39824.0	88.17	0.00207
2520.	0.3891E-00	40023.1	88.25	0.00217
2530.	0.3875E-00	40223.1	88.33	0.00226
2540.	0.3860E-00	40424.0	88.41	0.00236
2550.	0.3844E-00	40625.9	88.50	0.00246
2560.	0.3829E-00	40828.7	88.58	0.00257
2570.	0.3814E-00	41032.5	88.66	0.00268
2580.	0.3798E-00	41237.3	88.75	0.00279
2590.	0.3783E-00	41443.1	88.83	0.00291

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.3768E-00	41649.9	88.91	0.00303
2610.	0.3753E-00	41857.9	89.00	0.00316
2620.	0.3738E-00	42066.9	89.08	0.00329
2630.	0.3724E-00	42277.0	89.17	0.00342
2640.	0.3709E-00	42488.2	89.25	0.00356
2650.	0.3695E-00	42700.6	89.34	0.00370
2660.	0.3680E-00	42914.2	89.42	0.00385
2670.	0.3666E-00	43129.0	89.51	0.00400
2680.	0.3652E-00	43345.0	89.59	0.00416
2690.	0.3637E-00	43562.2	89.68	0.00432
2700.	0.3623E-00	43780.8	89.76	0.00449
2710.	0.3609E-00	44000.6	89.85	0.00466
2720.	0.3595E-00	44221.8	89.94	0.00484
2730.	0.3582E-00	44444.3	90.02	0.00502
2740.	0.3568E-00	44668.3	90.11	0.00521
2750.	0.3554E-00	44893.6	90.20	0.00540
2760.	0.3541E-00	45120.4	90.29	0.00560
2770.	0.3527E-00	45348.6	90.38	0.00581
2780.	0.3514E-00	45578.3	90.46	0.00602
2790.	0.3500E-00	45809.5	90.55	0.00624
2800.	0.3487E-00	46042.3	90.64	0.00646
2810.	0.3474E-00	46276.7	90.73	0.00669
2820.	0.3461E-00	46512.7	90.82	0.00693
2830.	0.3448E-00	46750.3	90.91	0.00717
2840.	0.3435E-00	46989.6	91.00	0.00742
2850.	0.3422E-00	47230.6	91.10	0.00768
2860.	0.3409E-00	47473.3	91.19	0.00794
2870.	0.3396E-00	47717.7	91.28	0.00821
2880.	0.3383E-00	47964.0	91.37	0.00849
2890.	0.3371E-00	48212.0	91.47	0.00878
2900.	0.3358E-00	48461.9	91.56	0.00907
2910.	0.3346E-00	48713.7	91.65	0.00938
2920.	0.3333E-00	48967.4	91.75	0.00968
2930.	0.3321E-00	49223.1	91.84	0.01000
2940.	0.3308E-00	49480.7	91.94	0.01033
2950.	0.3296E-00	49740.4	92.03	0.01066
2960.	0.3284E-00	50002.1	92.13	0.01100
2970.	0.3272E-00	50265.9	92.23	0.01136
2980.	0.3259E-00	50531.8	92.32	0.01172
2990.	0.3247E-00	50799.8	92.42	0.01209
3000.	0.3235E-00	51070.0	92.52	0.01246

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.9818E 01	1362.7	39.09	0.
110.	0.8849E 01	1494.0	40.34	0.
120.	0.8065E 01	1627.9	41.51	0.
130.	0.7417E 01	1764.6	42.60	0.
140.	0.6870E 01	1903.9	43.63	0.
150.	0.6401E 01	2045.1	44.61	0.
160.	0.5994E 01	2188.0	45.53	0.
170.	0.5638E 01	2332.1	46.40	0.
180.	0.5323E 01	2477.1	47.23	0.
190.	0.5042E 01	2622.6	48.02	0.
200.	0.4790E 01	2768.5	48.77	0.
210.	0.4562E 01	2914.5	49.48	0.
220.	0.4356E 01	3060.7	50.16	0.
230.	0.4167E 01	3206.9	50.81	0.
240.	0.3995E 01	3353.1	51.43	0.
250.	0.3836E 01	3499.3	52.03	0.
260.	0.3690E 01	3645.4	52.60	0.
270.	0.3555E 01	3791.5	53.15	0.
280.	0.3429E 01	3937.5	53.68	0.
290.	0.3312E 01	4083.4	54.19	0.
300.	0.3203E 01	4229.3	54.69	0.
310.	0.3101E 01	4375.2	55.17	0.
320.	0.3005E 01	4521.0	55.63	0.
330.	0.2915E 01	4666.8	56.08	0.
340.	0.2830E 01	4812.5	56.51	0.
350.	0.2750E 01	4958.2	56.94	0.
360.	0.2675E 01	5103.8	57.35	0.
370.	0.2604E 01	5249.5	57.75	0.
380.	0.2536E 01	5395.0	58.13	0.
390.	0.2472E 01	5540.6	58.51	0.
400.	0.2411E 01	5686.2	58.88	0.
410.	0.2353E 01	5831.7	59.24	0.
420.	0.2297E 01	5977.2	59.59	0.
430.	0.2245E 01	6122.8	59.93	0.
440.	0.2194E 01	6268.3	60.27	0.
450.	0.2146E 01	6413.8	60.59	0.
460.	0.2100E 01	6559.3	60.91	0.
470.	0.2056E 01	6704.8	61.23	0.
480.	0.2013E 01	6850.4	61.53	0.
490.	0.1973E 01	6995.9	61.83	0.
500.	0.1934E 01	7141.5	62.13	0.
510.	0.1896E 01	7287.0	62.42	0.
520.	0.1860E 01	7432.6	62.70	0.
530.	0.1826E 01	7578.2	62.98	0.
540.	0.1792E 01	7723.8	63.25	0.
550.	0.1760E 01	7869.4	63.52	0.
560.	0.1729E 01	8015.1	63.78	0.
570.	0.1699E 01	8160.8	64.04	0.
580.	0.1670E 01	8306.5	64.29	0.
590.	0.1642E 01	8452.2	64.54	0.

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1615E 01	8597.3	64.24	0.
610.	0.1589E 01	8743.1	64.49	0.
620.	0.1563E 01	8888.8	64.72	0.
630.	0.1539E 01	9034.5	64.96	0.
640.	0.1515E 01	9180.3	65.18	0.
650.	0.1492E 01	9326.1	65.41	0.
660.	0.1470E 01	9472.0	65.63	0.
670.	0.1448E 01	9617.9	65.85	0.
680.	0.1427E 01	9763.9	66.07	0.
690.	0.1406E 01	9910.0	66.28	0.
700.	0.1387E 01	10056.2	66.49	0.
710.	0.1367E 01	10202.4	66.70	0.
720.	0.1348E 01	10348.8	66.91	0.
730.	0.1330E 01	10495.2	67.11	0.
740.	0.1312E 01	10641.7	67.31	0.
750.	0.1295E 01	10788.4	67.50	0.
760.	0.1278E 01	10935.1	67.70	0.
770.	0.1262E 01	11081.9	67.89	0.
780.	0.1246E 01	11228.9	68.08	0.
790.	0.1230E 01	11375.9	68.27	0.
800.	0.1215E 01	11523.1	68.45	0.
810.	0.1200E 01	11670.4	68.63	0.
820.	0.1185E 01	11817.8	68.82	0.
830.	0.1171E 01	11965.3	68.99	0.
840.	0.1158E 01	12112.9	69.17	0.
850.	0.1144E 01	12260.7	69.35	0.
860.	0.1131E 01	12408.6	69.52	0.
870.	0.1118E 01	12556.6	69.69	0.
880.	0.1105E 01	12704.7	69.86	0.
890.	0.1093E 01	12853.0	70.03	0.
900.	0.1081E 01	13001.4	70.19	0.
910.	0.1069E 01	13149.9	70.36	0.
920.	0.1058E 01	13298.6	70.52	0.
930.	0.1046E 01	13447.4	70.68	0.
940.	0.1035E 01	13596.3	70.84	0.
950.	0.1025E 01	13745.4	71.00	0.
960.	0.1014E 01	13894.7	71.15	0.
970.	0.1004E 01	14044.0	71.31	0.
980.	0.9935E 00	14193.6	71.46	0.
990.	0.9835E 00	14343.3	71.61	0.
1000.	0.9738E 00	14493.1	71.76	0.
1010.	0.9642E 00	14643.1	71.91	0.
1020.	0.9548E 00	14793.2	72.06	0.
1030.	0.9456E 00	14943.5	72.21	0.
1040.	0.9366E 00	15094.0	72.35	0.
1050.	0.9278E 00	15244.7	72.50	0.
1060.	0.9191E 00	15395.5	72.64	0.
1070.	0.9105E 00	15546.4	72.78	0.
1080.	0.9022E 00	15697.6	72.92	0.
1090.	0.8940E 00	15848.9	73.06	0.

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.8859E 00	16000.4	73.20	0.
1110.	0.8780E 00	16152.0	73.34	0.
1120.	0.8702E 00	16303.9	73.47	0.
1130.	0.8626E 00	16455.9	73.61	0.
1140.	0.8550E 00	16608.1	73.74	0.
1150.	0.8477E 00	16760.5	73.88	0.
1160.	0.8404E 00	16913.0	74.01	0.
1170.	0.8333E 00	17065.8	74.14	0.
1180.	0.8263E 00	17218.7	74.27	0.
1190.	0.8194E 00	17371.9	74.40	0.
1200.	0.8126E 00	17525.2	74.53	0.
1210.	0.8059E 00	17678.7	74.65	0.
1220.	0.7994E 00	17832.5	74.78	0.
1230.	0.7929E 00	17986.4	74.91	0.
1240.	0.7866E 00	18140.6	75.03	0.
1250.	0.7803E 00	18294.9	75.16	0.
1260.	0.7742E 00	18449.4	75.28	0.
1270.	0.7681E 00	18604.2	75.40	0.
1280.	0.7621E 00	18759.2	75.52	0.
1290.	0.7563E 00	18914.3	75.64	0.
1300.	0.7505E 00	19069.7	75.76	0.
1310.	0.7448E 00	19225.4	75.88	0.
1320.	0.7392E 00	19381.2	76.00	0.
1330.	0.7337E 00	19537.2	76.12	0.
1340.	0.7282E 00	19693.5	76.24	0.
1350.	0.7229E 00	19850.0	76.35	0.
1360.	0.7176E 00	20006.7	76.47	0.
1370.	0.7124E 00	20163.7	76.58	0.
1380.	0.7073E 00	20320.9	76.70	0.
1390.	0.7022E 00	20478.3	76.81	0.
1400.	0.6972E 00	20636.0	76.92	0.
1410.	0.6923E 00	20793.9	77.04	0.
1420.	0.6875E 00	20952.0	77.15	0.
1430.	0.6827E 00	21110.4	77.26	0.
1440.	0.6780E 00	21269.0	77.37	0.
1450.	0.6733E 00	21427.9	77.48	0.
1460.	0.6687E 00	21587.0	77.59	0.
1470.	0.6642E 00	21746.4	77.70	0.
1480.	0.6597E 00	21906.0	77.81	0.
1490.	0.6553E 00	22065.9	77.91	0.
1500.	0.6551E 00	22201.2	78.03	0.00000
1510.	0.6508E 00	22361.5	78.14	0.00000
1520.	0.6465E 00	22522.1	78.24	0.00000
1530.	0.6423E 00	22682.9	78.35	0.00000
1540.	0.6381E 00	22844.0	78.45	0.00000
1550.	0.6340E 00	23005.2	78.56	0.00000
1560.	0.6299E 00	23166.7	78.66	0.00000
1570.	0.6259E 00	23328.4	78.77	0.00000
1580.	0.6220E 00	23490.3	78.87	0.00000
1590.	0.6180E 00	23652.4	78.97	0.00000

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.6142E 00	23814.7	79.07	0.00000
1610.	0.6104E 00	23977.3	79.17	0.00000
1620.	0.6066E 00	24140.1	79.28	0.00001
1630.	0.6029E 00	24303.1	79.38	0.00001
1640.	0.5992E 00	24466.3	79.48	0.00001
1650.	0.5956E 00	24629.7	79.58	0.00001
1660.	0.5920E 00	24793.4	79.67	0.00001
1670.	0.5884E 00	24957.3	79.77	0.00001
1680.	0.5849E 00	25121.4	79.87	0.00001
1690.	0.5815E 00	25285.7	79.97	0.00001
1700.	0.5780E 00	25450.2	80.07	0.00001
1710.	0.5747E 00	25615.0	80.16	0.00001
1720.	0.5713E 00	25779.9	80.26	0.00001
1730.	0.5680E 00	25945.1	80.35	0.00002
1740.	0.5648E 00	26110.6	80.45	0.00002
1750.	0.5615E 00	26276.2	80.54	0.00002
1760.	0.5583E 00	26442.1	80.64	0.00002
1770.	0.5552E 00	26608.2	80.73	0.00002
1780.	0.5521E 00	26774.5	80.83	0.00002
1790.	0.5490E 00	26941.1	80.92	0.00003
1800.	0.5459E 00	27107.9	81.01	0.00003
1810.	0.5429E 00	27274.9	81.11	0.00003
1820.	0.5399E 00	27442.2	81.20	0.00003
1830.	0.5370E 00	27609.7	81.29	0.00004
1840.	0.5341E 00	27777.4	81.38	0.00004
1850.	0.5312E 00	27945.4	81.47	0.00004
1860.	0.5283E 00	28113.6	81.56	0.00005
1870.	0.5255E 00	28282.0	81.66	0.00005
1880.	0.5227E 00	28450.7	81.75	0.00005
1890.	0.5199E 00	28619.7	81.84	0.00006
1900.	0.5172E 00	28788.9	81.93	0.00006
1910.	0.5145E 00	28958.3	82.01	0.00007
1920.	0.5118E 00	29128.0	82.10	0.00007
1930.	0.5091E 00	29298.0	82.19	0.00008
1940.	0.5065E 00	29468.3	82.28	0.00008
1950.	0.5039E 00	29638.8	82.37	0.00009
1960.	0.5013E 00	29809.6	82.46	0.00010
1970.	0.4988E-00	29980.6	82.54	0.00010
1980.	0.4963E-00	30151.9	82.63	0.00011
1990.	0.4938E-00	30323.6	82.72	0.00012
2000.	0.4913E-00	30495.5	82.80	0.00013
2010.	0.4888E-00	30667.7	82.89	0.00014
2020.	0.4864E-00	30840.2	82.98	0.00015
2030.	0.4840E-00	31013.0	83.06	0.00016
2040.	0.4816E-00	31186.1	83.15	0.00017
2050.	0.4793E-00	31359.5	83.23	0.00018
2060.	0.4769E-00	31533.3	83.32	0.00019
2070.	0.4746E-00	31707.3	83.40	0.00020
2080.	0.4723E-00	31881.7	83.49	0.00022
2090.	0.4701E-00	32056.5	83.57	0.00023

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.4678E-00	32231.6	83.66	0.00025
2110.	0.4656E-00	32407.0	83.74	0.00026
2120.	0.4634E-00	32582.8	83.83	0.00028
2130.	0.4612E-00	32758.9	83.91	0.00030
2140.	0.4591E-00	32935.5	83.99	0.00031
2150.	0.4569E-00	33112.4	84.08	0.00033
2160.	0.4548E-00	33289.7	84.16	0.00035
2170.	0.4527E-00	33467.4	84.24	0.00037
2180.	0.4506E-00	33645.5	84.33	0.00040
2190.	0.4485E-00	33824.0	84.41	0.00042
2200.	0.4465E-00	34003.0	84.49	0.00044
2210.	0.4444E-00	34182.3	84.58	0.00047
2220.	0.4424E-00	34362.2	84.66	0.00050
2230.	0.4404E-00	34542.4	84.74	0.00053
2240.	0.4385E-00	34723.2	84.82	0.00056
2250.	0.4365E-00	34904.4	84.90	0.00059
2260.	0.4346E-00	35086.1	84.99	0.00062
2270.	0.4326E-00	35268.3	85.07	0.00065
2280.	0.4307E-00	35451.0	85.15	0.00069
2290.	0.4288E-00	35634.2	85.23	0.00073
2300.	0.4269E-00	35817.9	85.31	0.00076
2310.	0.4251E-00	36002.2	85.40	0.00080
2320.	0.4232E-00	36187.1	85.48	0.00085
2330.	0.4214E-00	36372.5	85.56	0.00089
2340.	0.4196E-00	36558.5	85.64	0.00094
2350.	0.4178E-00	36745.1	85.72	0.00098
2360.	0.4160E-00	36932.3	85.80	0.00103
2370.	0.4142E-00	37120.1	85.89	0.00109
2380.	0.4124E-00	37308.6	85.97	0.00114
2390.	0.4107E-00	37497.7	86.05	0.00120
2400.	0.4089E-00	37687.5	86.13	0.00126
2410.	0.4072E-00	37878.0	86.21	0.00132
2420.	0.4055E-00	38069.2	86.29	0.00138
2430.	0.4038E-00	38261.1	86.38	0.00145
2440.	0.4021E-00	38453.7	86.46	0.00152
2450.	0.4005E-00	38647.1	86.54	0.00159
2460.	0.3988E-00	38841.2	86.62	0.00166
2470.	0.3972E-00	39036.1	86.70	0.00174
2480.	0.3955E-00	39231.8	86.79	0.00182
2490.	0.3939E-00	39428.4	86.87	0.00190
2500.	0.3923E-00	39625.7	86.95	0.00199
2510.	0.3907E-00	39824.0	87.03	0.00207
2520.	0.3891E-00	40023.1	87.12	0.00217
2530.	0.3875E-00	40223.1	87.20	0.00226
2540.	0.3860E-00	40424.0	87.28	0.00236
2550.	0.3844E-00	40625.9	87.36	0.00246
2560.	0.3829E-00	40828.7	87.45	0.00257
2570.	0.3814E-00	41032.5	87.53	0.00268
2580.	0.3798E-00	41237.3	87.61	0.00279
2590.	0.3783E-00	41443.1	87.70	0.00291

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.3768E-00	41649.9	87.78	0.00303
2610.	0.3753E-00	41857.9	87.87	0.00316
2620.	0.3738E-00	42066.9	87.95	0.00329
2630.	0.3724E-00	42277.0	88.03	0.00342
2640.	0.3709E-00	42488.2	88.12	0.00356
2650.	0.3695E-00	42700.6	88.20	0.00370
2660.	0.3680E-00	42914.2	88.29	0.00385
2670.	0.3666E-00	43129.0	88.37	0.00400
2680.	0.3652E-00	43345.0	88.46	0.00416
2690.	0.3637E-00	43562.2	88.55	0.00432
2700.	0.3623E-00	43780.8	88.63	0.00449
2710.	0.3609E-00	44000.6	88.72	0.00466
2720.	0.3595E-00	44221.8	88.80	0.00484
2730.	0.3582E-00	44444.3	88.89	0.00502
2740.	0.3568E-00	44668.3	88.98	0.00521
2750.	0.3554E-00	44893.6	89.07	0.00540
2760.	0.3541E-00	45120.4	89.15	0.00560
2770.	0.3527E-00	45348.6	89.24	0.00581
2780.	0.3514E-00	45578.3	89.33	0.00602
2790.	0.3500E-00	45809.5	89.42	0.00624
2800.	0.3487E-00	46042.3	89.51	0.00646
2810.	0.3474E-00	46276.7	89.60	0.00669
2820.	0.3461E-00	46512.7	89.69	0.00693
2830.	0.3448E-00	46750.3	89.78	0.00717
2840.	0.3435E-00	46989.6	89.87	0.00742
2850.	0.3422E-00	47230.6	89.96	0.00768
2860.	0.3409E-00	47473.3	90.05	0.00794
2870.	0.3396E-00	47717.7	90.15	0.00821
2880.	0.3383E-00	47964.0	90.24	0.00849
2890.	0.3371E-00	48212.0	90.33	0.00878
2900.	0.3358E-00	48461.9	90.43	0.00907
2910.	0.3346E-00	48713.7	90.52	0.00938
2920.	0.3333E-00	48967.4	90.61	0.00968
2930.	0.3321E-00	49223.1	90.71	0.01000
2940.	0.3308E-00	49480.7	90.80	0.01033
2950.	0.3296E-00	49740.4	90.90	0.01066
2960.	0.3284E-00	50002.1	91.00	0.01100
2970.	0.3272E-00	50265.9	91.09	0.01136
2980.	0.3259E-00	50531.8	91.19	0.01172
2990.	0.3247E-00	50799.8	91.29	0.01209
3000.	0.3235E-00	51070.0	91.39	0.01246

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.9818E 01	1202.2	36.47	0.
110.	0.8849E 01	1341.7	37.80	0.
120.	0.8065E 01	1485.5	39.05	0.
130.	0.7417E 01	1633.4	40.23	0.
140.	0.6870E 01	1784.4	41.35	0.
150.	0.6401E 01	1937.7	42.41	0.
160.	0.5994E 01	2092.5	43.41	0.
170.	0.5638E 01	2248.0	44.35	0.
180.	0.5323E 01	2403.7	45.24	0.
190.	0.5042E 01	2559.1	46.08	0.
200.	0.4790E 01	2713.9	46.87	0.
210.	0.4562E 01	2868.0	47.63	0.
220.	0.4356E 01	3021.2	48.34	0.
230.	0.4167E 01	3173.6	49.02	0.
240.	0.3995E 01	3325.2	49.66	0.
250.	0.3836E 01	3475.9	50.28	0.
260.	0.3690E 01	3625.9	50.87	0.
270.	0.3555E 01	3775.3	51.43	0.
280.	0.3429E 01	3924.1	51.97	0.
290.	0.3312E 01	4072.4	52.49	0.
300.	0.3203E 01	4220.3	52.99	0.
310.	0.3101E 01	4367.8	53.48	0.
320.	0.3005E 01	4514.9	53.94	0.
330.	0.2915E 01	4661.8	54.39	0.
340.	0.2830E 01	4808.4	54.83	0.
350.	0.2750E 01	4954.8	55.26	0.
360.	0.2675E 01	5101.1	55.67	0.
370.	0.2604E 01	5247.3	56.07	0.
380.	0.2536E 01	5393.3	56.46	0.
390.	0.2472E 01	5539.2	56.84	0.
400.	0.2411E 01	5685.0	57.21	0.
410.	0.2353E 01	5830.8	57.57	0.
420.	0.2297E 01	5976.6	57.92	0.
430.	0.2245E 01	6122.3	58.26	0.
440.	0.2194E 01	6267.9	58.60	0.
450.	0.2146E 01	6413.6	58.92	0.
460.	0.2100E 01	6559.2	59.24	0.
470.	0.2056E 01	6704.8	59.56	0.
480.	0.2013E 01	6850.4	59.86	0.
490.	0.1973E 01	6996.0	60.16	0.
500.	0.1934E 01	7141.6	60.46	0.
510.	0.1896E 01	7287.2	60.75	0.
520.	0.1860E 01	7432.8	61.03	0.
530.	0.1826E 01	7578.4	61.31	0.
540.	0.1792E 01	7724.0	61.58	0.
550.	0.1760E 01	7869.6	61.85	0.
560.	0.1729E 01	8015.2	62.11	0.
570.	0.1699E 01	8160.9	62.37	0.
580.	0.1670E 01	8306.5	62.62	0.
590.	0.1642E 01	8452.2	62.87	0.

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1615E 01	8597.3	63.11	0.
610.	0.1589E 01	8743.1	63.35	0.
620.	0.1563E 01	8888.8	63.59	0.
630.	0.1539E 01	9034.5	63.82	0.
640.	0.1515E 01	9180.3	64.05	0.
650.	0.1492E 01	9326.1	64.28	0.
660.	0.1470E 01	9472.0	64.50	0.
670.	0.1448E 01	9617.9	64.72	0.
680.	0.1427E 01	9763.9	64.94	0.
690.	0.1406E 01	9910.0	65.15	0.
700.	0.1387E 01	10056.2	65.36	0.
710.	0.1367E 01	10202.4	65.57	0.
720.	0.1348E 01	10348.8	65.77	0.
730.	0.1330E 01	10495.2	65.97	0.
740.	0.1312E 01	10641.7	66.17	0.
750.	0.1295E 01	10788.4	66.37	0.
760.	0.1278E 01	10935.1	66.57	0.
770.	0.1262E 01	11081.9	66.76	0.
780.	0.1246E 01	11228.9	66.95	0.
790.	0.1230E 01	11375.9	67.13	0.
800.	0.1215E 01	11523.1	67.32	0.
810.	0.1200E 01	11670.4	67.50	0.
820.	0.1185E 01	11817.8	67.68	0.
830.	0.1171E 01	11965.3	67.86	0.
840.	0.1158E 01	12112.9	68.04	0.
850.	0.1144E 01	12260.7	68.21	0.
860.	0.1131E 01	12408.6	68.39	0.
870.	0.1118E 01	12556.6	68.56	0.
880.	0.1105E 01	12704.7	68.73	0.
890.	0.1093E 01	12853.0	68.89	0.
900.	0.1081E 01	13001.4	69.06	0.
910.	0.1069E 01	13149.9	69.22	0.
920.	0.1058E 01	13298.6	69.39	0.
930.	0.1046E 01	13447.4	69.55	0.
940.	0.1035E 01	13596.3	69.71	0.
950.	0.1025E 01	13745.4	69.86	0.
960.	0.1014E 01	13894.7	70.02	0.
970.	0.1004E 01	14044.0	70.18	0.
980.	0.9935E 00	14193.6	70.33	0.
990.	0.9835E 00	14343.3	70.48	0.
1000.	0.9738E 00	14493.1	70.63	0.
1010.	0.9642E 00	14643.1	70.78	0.
1020.	0.9548E 00	14793.2	70.93	0.
1030.	0.9456E 00	14943.5	71.08	0.
1040.	0.9366E 00	15094.0	71.22	0.
1050.	0.9278E 00	15244.7	71.36	0.
1060.	0.9191E 00	15395.5	71.51	0.
1070.	0.9105E 00	15546.4	71.65	0.
1080.	0.9022E 00	15697.6	71.79	0.
1090.	0.8940E 00	15848.9	71.93	0.

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.8859E 00	16000.4	72.07	0.
1110.	0.8780E 00	16152.0	72.21	0.
1120.	0.8702E 00	16303.9	72.34	0.
1130.	0.8626E 00	16455.9	72.48	0.
1140.	0.8550E 00	16608.1	72.61	0.
1150.	0.8477E 00	16760.5	72.74	0.
1160.	0.8404E 00	16913.0	72.88	0.
1170.	0.8333E 00	17065.8	73.01	0.
1180.	0.8263E 00	17218.7	73.14	0.
1190.	0.8194E 00	17371.9	73.27	0.
1200.	0.8126E 00	17525.2	73.39	0.
1210.	0.8059E 00	17678.7	73.52	0.
1220.	0.7994E 00	17832.5	73.65	0.
1230.	0.7929E 00	17986.4	73.77	0.
1240.	0.7866E 00	18140.6	73.90	0.
1250.	0.7803E 00	18294.9	74.02	0.
1260.	0.7742E 00	18449.4	74.15	0.
1270.	0.7681E 00	18604.2	74.27	0.
1280.	0.7621E 00	18759.2	74.39	0.
1290.	0.7563E 00	18914.3	74.51	0.
1300.	0.7505E 00	19069.7	74.63	0.
1310.	0.7448E 00	19225.4	74.75	0.
1320.	0.7392E 00	19381.2	74.87	0.
1330.	0.7337E 00	19537.2	74.99	0.
1340.	0.7282E 00	19693.5	75.10	0.
1350.	0.7229E 00	19850.0	75.22	0.
1360.	0.7176E 00	20006.7	75.34	0.
1370.	0.7124E 00	20163.7	75.45	0.
1380.	0.7073E 00	20320.9	75.56	0.
1390.	0.7022E 00	20478.3	75.68	0.
1400.	0.6972E 00	20636.0	75.79	0.
1410.	0.6923E 00	20793.9	75.90	0.
1420.	0.6875E 00	20952.0	76.02	0.
1430.	0.6827E 00	21110.4	76.13	0.
1440.	0.6780E 00	21269.0	76.24	0.
1450.	0.6733E 00	21427.9	76.35	0.
1460.	0.6687E 00	21587.0	76.46	0.
1470.	0.6642E 00	21746.4	76.57	0.
1480.	0.6597E 00	21906.0	76.67	0.
1490.	0.6553E 00	22065.9	76.78	0.
1500.	0.6551E 00	22201.2	76.90	0.00000
1510.	0.6508E 00	22361.5	77.01	0.00000
1520.	0.6465E 00	22522.1	77.11	0.00000
1530.	0.6423E 00	22682.9	77.22	0.00000
1540.	0.6381E 00	22844.0	77.32	0.00000
1550.	0.6340E 00	23005.2	77.43	0.00000
1560.	0.6299E 00	23166.7	77.53	0.00000
1570.	0.6259E 00	23328.4	77.63	0.00000
1580.	0.6220E 00	23490.3	77.74	0.00000
1590.	0.6180E 00	23652.4	77.84	0.00000

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.6142E 00	23814.7	77.94	0.00000
1610.	0.6104E 00	23977.3	78.04	0.00000
1620.	0.6066E 00	24140.1	78.14	0.00001
1630.	0.6029E 00	24303.1	78.24	0.00001
1640.	0.5992E 00	24466.3	78.34	0.00001
1650.	0.5956E 00	24629.7	78.44	0.00001
1660.	0.5920E 00	24793.4	78.54	0.00001
1670.	0.5884E 00	24957.3	78.64	0.00001
1680.	0.5849E 00	25121.4	78.74	0.00001
1690.	0.5815E 00	25285.7	78.84	0.00001
1700.	0.5780E 00	25450.2	78.93	0.00001
1710.	0.5747E 00	25615.0	79.03	0.00001
1720.	0.5713E 00	25779.9	79.13	0.00001
1730.	0.5680E 00	25945.1	79.22	0.00002
1740.	0.5648E 00	26110.6	79.32	0.00002
1750.	0.5615E 00	26276.2	79.41	0.00002
1760.	0.5583E 00	26442.1	79.51	0.00002
1770.	0.5552E 00	26608.2	79.60	0.00002
1780.	0.5521E 00	26774.5	79.69	0.00002
1790.	0.5490E 00	26941.1	79.79	0.00003
1800.	0.5459E 00	27107.9	79.88	0.00003
1810.	0.5429E 00	27274.9	79.97	0.00003
1820.	0.5399E 00	27442.2	80.07	0.00003
1830.	0.5370E 00	27609.7	80.16	0.00004
1840.	0.5341E 00	27777.4	80.25	0.00004
1850.	0.5312E 00	27945.4	80.34	0.00004
1860.	0.5283E 00	28113.6	80.43	0.00005
1870.	0.5255E 00	28282.0	80.52	0.00005
1880.	0.5227E 00	28450.7	80.61	0.00005
1890.	0.5199E 00	28619.7	80.70	0.00006
1900.	0.5172E 00	28788.9	80.79	0.00006
1910.	0.5145E 00	28958.3	80.88	0.00007
1920.	0.5118E 00	29128.0	80.97	0.00007
1930.	0.5091E 00	29298.0	81.06	0.00008
1940.	0.5065E 00	29468.3	81.15	0.00008
1950.	0.5039E 00	29638.8	81.24	0.00009
1960.	0.5013E 00	29809.6	81.32	0.00010
1970.	0.4988E-00	29980.6	81.41	0.00010
1980.	0.4963E-00	30151.9	81.50	0.00011
1990.	0.4938E-00	30323.6	81.59	0.00012
2000.	0.4913E-00	30495.5	81.67	0.00013
2010.	0.4888E-00	30667.7	81.76	0.00014
2020.	0.4864E-00	30840.2	81.84	0.00015
2030.	0.4840E-00	31013.0	81.93	0.00016
2040.	0.4816E-00	31186.1	82.02	0.00017
2050.	0.4793E-00	31359.5	82.10	0.00018
2060.	0.4769E-00	31533.3	82.19	0.00019
2070.	0.4746E-00	31707.3	82.27	0.00020
2080.	0.4723E-00	31881.7	82.36	0.00022
2090.	0.4701E-00	32056.5	82.44	0.00023

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.4678E-00	32231.6	82.53	0.00025
2110.	0.4656E-00	32407.0	82.61	0.00026
2120.	0.4634E-00	32582.8	82.69	0.00028
2130.	0.4612E-00	32758.9	82.78	0.00030
2140.	0.4591E-00	32935.5	82.86	0.00031
2150.	0.4569E-00	33112.4	82.94	0.00033
2160.	0.4548E-00	33289.7	83.03	0.00035
2170.	0.4527E-00	33467.4	83.11	0.00037
2180.	0.4506E-00	33645.5	83.19	0.00040
2190.	0.4485E-00	33824.0	83.28	0.00042
2200.	0.4465E-00	34003.0	83.36	0.00044
2210.	0.4444E-00	34182.3	83.44	0.00047
2220.	0.4424E-00	34362.2	83.52	0.00050
2230.	0.4404E-00	34542.4	83.61	0.00053
2240.	0.4385E-00	34723.2	83.69	0.00056
2250.	0.4365E-00	34904.4	83.77	0.00059
2260.	0.4346E-00	35086.1	83.85	0.00062
2270.	0.4326E-00	35268.3	83.94	0.00065
2280.	0.4307E-00	35451.0	84.02	0.00069
2290.	0.4288E-00	35634.2	84.10	0.00073
2300.	0.4269E-00	35817.9	84.18	0.00076
2310.	0.4251E-00	36002.2	84.26	0.00080
2320.	0.4232E-00	36187.1	84.35	0.00085
2330.	0.4214E-00	36372.5	84.43	0.00089
2340.	0.4196E-00	36558.5	84.51	0.00094
2350.	0.4178E-00	36745.1	84.59	0.00098
2360.	0.4160E-00	36932.3	84.67	0.00103
2370.	0.4142E-00	37120.1	84.75	0.00109
2380.	0.4124E-00	37308.6	84.84	0.00114
2390.	0.4107E-00	37497.7	84.92	0.00120
2400.	0.4089E-00	37687.5	85.00	0.00126
2410.	0.4072E-00	37878.0	85.08	0.00132
2420.	0.4055E-00	38069.2	85.16	0.00138
2430.	0.4038E-00	38261.1	85.24	0.00145
2440.	0.4021E-00	38453.7	85.33	0.00152
2450.	0.4005E-00	38647.1	85.41	0.00159
2460.	0.3988E-00	38841.2	85.49	0.00166
2470.	0.3972E-00	39036.1	85.57	0.00174
2480.	0.3955E-00	39231.8	85.65	0.00182
2490.	0.3939E-00	39428.4	85.74	0.00190
2500.	0.3923E-00	39625.7	85.82	0.00199
2510.	0.3907E-00	39824.0	85.90	0.00207
2520.	0.3891E-00	40023.1	85.98	0.00217
2530.	0.3875E-00	40223.1	86.07	0.00226
2540.	0.3860E-00	40424.0	86.15	0.00236
2550.	0.3844E-00	40625.9	86.23	0.00246
2560.	0.3829E-00	40828.7	86.31	0.00257
2570.	0.3814E-00	41032.5	86.40	0.00268
2580.	0.3798E-00	41237.3	86.48	0.00279
2590.	0.3783E-00	41443.1	86.56	0.00291

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.3768E-00	41649.9	86.65	0.00303
2610.	0.3753E-00	41857.9	86.73	0.00316
2620.	0.3738E-00	42066.9	86.82	0.00329
2630.	0.3724E-00	42277.0	86.90	0.00342
2640.	0.3709E-00	42488.2	86.99	0.00356
2650.	0.3695E-00	42700.6	87.07	0.00370
2660.	0.3680E-00	42914.2	87.16	0.00385
2670.	0.3666E-00	43129.0	87.24	0.00400
2680.	0.3652E-00	43345.0	87.33	0.00416
2690.	0.3637E-00	43562.2	87.41	0.00432
2700.	0.3623E-00	43780.8	87.50	0.00449
2710.	0.3609E-00	44000.6	87.59	0.00466
2720.	0.3595E-00	44221.8	87.67	0.00484
2730.	0.3582E-00	44444.3	87.76	0.00502
2740.	0.3568E-00	44668.3	87.85	0.00521
2750.	0.3554E-00	44893.6	87.93	0.00540
2760.	0.3541E-00	45120.4	88.02	0.00560
2770.	0.3527E-00	45348.6	88.11	0.00581
2780.	0.3514E-00	45578.3	88.20	0.00602
2790.	0.3500E-00	45809.5	88.29	0.00624
2800.	0.3487E-00	46042.3	88.38	0.00646
2810.	0.3474E-00	46276.7	88.47	0.00669
2820.	0.3461E-00	46512.7	88.56	0.00693
2830.	0.3448E-00	46750.3	88.65	0.00717
2840.	0.3435E-00	46989.6	88.74	0.00742
2850.	0.3422E-00	47230.6	88.83	0.00768
2860.	0.3409E-00	47473.3	88.92	0.00794
2870.	0.3396E-00	47717.7	89.01	0.00821
2880.	0.3383E-00	47964.0	89.11	0.00849
2890.	0.3371E-00	48212.0	89.20	0.00878
2900.	0.3358E-00	48461.9	89.29	0.00907
2910.	0.3346E-00	48713.7	89.39	0.00938
2920.	0.3333E-00	48967.4	89.48	0.00968
2930.	0.3321E-00	49223.1	89.58	0.01000
2940.	0.3308E-00	49480.7	89.67	0.01033
2950.	0.3296E-00	49740.4	89.77	0.01066
2960.	0.3284E-00	50002.1	89.86	0.01100
2970.	0.3272E-00	50265.9	89.96	0.01136
2980.	0.3259E-00	50531.8	90.06	0.01172
2990.	0.3247E-00	50799.8	90.16	0.01209
3000.	0.3235E-00	51070.0	90.25	0.01246

PRESSURE 40. ATMOSPHERES, 10. PERCENT COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY Joules/GM	ENTROPY Joules/GM DEG	FRACTION DISSOCIATED
100.	0.9818E 01	1041.6	32.07	0.
110.	0.8849E 01	1189.5	33.47	0.
120.	0.8065E 01	1343.2	34.81	0.
130.	0.7417E 01	1502.1	36.08	0.
140.	0.6870E 01	1664.9	37.29	0.
150.	0.6401E 01	1830.2	38.43	0.
160.	0.5994E 01	1996.9	39.51	0.
170.	0.5638E 01	2163.9	40.52	0.
180.	0.5323E 01	2330.3	41.47	0.
190.	0.5042E 01	2495.6	42.36	0.
200.	0.4790E 01	2659.4	43.20	0.
210.	0.4562E 01	2821.5	43.99	0.
220.	0.4356E 01	2981.8	44.74	0.
230.	0.4167E 01	3140.3	45.44	0.
240.	0.3995E 01	3297.2	46.11	0.
250.	0.3836E 01	3452.5	46.75	0.
260.	0.3690E 01	3606.5	47.35	0.
270.	0.3555E 01	3759.2	47.93	0.
280.	0.3429E 01	3910.8	48.48	0.
290.	0.3312E 01	4061.4	49.01	0.
300.	0.3203E 01	4211.2	49.51	0.
310.	0.3101E 01	4360.3	50.00	0.
320.	0.3005E 01	4508.8	50.47	0.
330.	0.2915E 01	4656.8	50.93	0.
340.	0.2830E 01	4804.3	51.37	0.
350.	0.2750E 01	4951.5	51.80	0.
360.	0.2675E 01	5098.4	52.21	0.
370.	0.2604E 01	5245.1	52.61	0.
380.	0.2536E 01	5391.5	53.00	0.
390.	0.2472E 01	5537.8	53.38	0.
400.	0.2411E 01	5683.9	53.75	0.
410.	0.2353E 01	5829.9	54.11	0.
420.	0.2297E 01	5975.9	54.47	0.
430.	0.2245E 01	6121.7	54.81	0.
440.	0.2194E 01	6267.6	55.14	0.
450.	0.2146E 01	6413.3	55.47	0.
460.	0.2100E 01	6559.1	55.79	0.
470.	0.2056E 01	6704.8	56.11	0.
480.	0.2013E 01	6850.4	56.41	0.
490.	0.1973E 01	6996.1	56.71	0.
500.	0.1934E 01	7141.7	57.01	0.
510.	0.1896E 01	7287.4	57.29	0.
520.	0.1860E 01	7433.0	57.58	0.
530.	0.1826E 01	7578.6	57.86	0.
540.	0.1792E 01	7724.2	58.13	0.
550.	0.1760E 01	7869.8	58.39	0.
560.	0.1729E 01	8015.4	58.66	0.
570.	0.1699E 01	8161.0	58.91	0.
580.	0.1670E 01	8306.6	59.17	0.
590.	0.1642E 01	8452.3	59.42	0.

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1615E 01	8597.3	61.98	0.
610.	0.1589E 01	8743.1	62.22	0.
620.	0.1563E 01	8888.8	62.46	0.
630.	0.1539E 01	9034.5	62.69	0.
640.	0.1515E 01	9180.3	62.92	0.
650.	0.1492E 01	9326.1	63.15	0.
660.	0.1470E 01	9472.0	63.37	0.
670.	0.1448E 01	9617.9	63.59	0.
680.	0.1427E 01	9763.9	63.80	0.
690.	0.1406E 01	9910.0	64.02	0.
700.	0.1387E 01	10056.2	64.23	0.
710.	0.1367E 01	10202.4	64.44	0.
720.	0.1348E 01	10348.8	64.64	0.
730.	0.1330E 01	10495.2	64.84	0.
740.	0.1312E 01	10641.7	65.04	0.
750.	0.1295E 01	10788.4	65.24	0.
760.	0.1278E 01	10935.1	65.43	0.
770.	0.1262E 01	11081.9	65.62	0.
780.	0.1246E 01	11228.9	65.81	0.
790.	0.1230E 01	11375.9	66.00	0.
800.	0.1215E 01	11523.1	66.19	0.
810.	0.1200E 01	11670.4	66.37	0.
820.	0.1185E 01	11817.8	66.55	0.
830.	0.1171E 01	11965.3	66.73	0.
840.	0.1158E 01	12112.9	66.91	0.
850.	0.1144E 01	12260.7	67.08	0.
860.	0.1131E 01	12408.6	67.25	0.
870.	0.1118E 01	12556.6	67.42	0.
880.	0.1105E 01	12704.7	67.59	0.
890.	0.1093E 01	12853.0	67.76	0.
900.	0.1081E 01	13001.4	67.93	0.
910.	0.1069E 01	13149.9	68.09	0.
920.	0.1058E 01	13298.6	68.25	0.
930.	0.1046E 01	13447.4	68.41	0.
940.	0.1035E 01	13596.3	68.57	0.
950.	0.1025E 01	13745.4	68.73	0.
960.	0.1014E 01	13894.7	68.89	0.
970.	0.1004E 01	14044.0	69.04	0.
980.	0.9935E 00	14193.6	69.20	0.
990.	0.9835E 00	14343.3	69.35	0.
1000.	0.9738E 00	14493.1	69.50	0.
1010.	0.9642E 00	14643.1	69.65	0.
1020.	0.9548E 00	14793.2	69.80	0.
1030.	0.9456E 00	14943.5	69.94	0.
1040.	0.9366E 00	15094.0	70.09	0.
1050.	0.9278E 00	15244.7	70.23	0.
1060.	0.9191E 00	15395.5	70.38	0.
1070.	0.9105E 00	15546.4	70.52	0.
1080.	0.9022E 00	15697.6	70.66	0.
1090.	0.8940E 00	15848.9	70.80	0.

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.8859E 00	16000.4	70.94	0.
1110.	0.8780E 00	16152.0	71.07	0.
1120.	0.8702E 00	16303.9	71.21	0.
1130.	0.8626E 00	16455.9	71.34	0.
1140.	0.8550E 00	16608.1	71.48	0.
1150.	0.8477E 00	16760.5	71.61	0.
1160.	0.8404E 00	16913.0	71.74	0.
1170.	0.8333E 00	17065.8	71.87	0.
1180.	0.8263E 00	17218.7	72.00	0.
1190.	0.8194E 00	17371.9	72.13	0.
1200.	0.8126E 00	17525.2	72.26	0.
1210.	0.8059E 00	17678.7	72.39	0.
1220.	0.7994E 00	17832.5	72.52	0.
1230.	0.7929E 00	17986.4	72.64	0.
1240.	0.7866E 00	18140.6	72.77	0.
1250.	0.7803E 00	18294.9	72.89	0.
1260.	0.7742E 00	18449.4	73.01	0.
1270.	0.7681E 00	18604.2	73.14	0.
1280.	0.7621E 00	18759.2	73.26	0.
1290.	0.7563E 00	18914.3	73.38	0.
1300.	0.7505E 00	19069.7	73.50	0.
1310.	0.7448E 00	19225.4	73.62	0.
1320.	0.7392E 00	19381.2	73.74	0.
1330.	0.7337E 00	19537.2	73.85	0.
1340.	0.7282E 00	19693.5	73.97	0.
1350.	0.7229E 00	19850.0	74.09	0.
1360.	0.7176E 00	20006.7	74.20	0.
1370.	0.7124E 00	20163.7	74.32	0.
1380.	0.7073E 00	20320.9	74.43	0.
1390.	0.7022E 00	20478.3	74.55	0.
1400.	0.6972E 00	20636.0	74.66	0.
1410.	0.6923E 00	20793.9	74.77	0.
1420.	0.6875E 00	20952.0	74.88	0.
1430.	0.6827E 00	21110.4	74.99	0.
1440.	0.6780E 00	21269.0	75.10	0.
1450.	0.6733E 00	21427.9	75.21	0.
1460.	0.6687E 00	21587.0	75.32	0.
1470.	0.6642E 00	21746.4	75.43	0.
1480.	0.6597E 00	21906.0	75.54	0.
1490.	0.6553E 00	22065.9	75.65	0.
1500.	0.6551E 00	22201.2	75.77	0.00000
1510.	0.6508E 00	22361.5	75.87	0.00000
1520.	0.6465E 00	22522.1	75.98	0.00000
1530.	0.6423E 00	22682.9	76.08	0.00000
1540.	0.6381E 00	22844.0	76.19	0.00000
1550.	0.6340E 00	23005.2	76.29	0.00000
1560.	0.6299E 00	23166.7	76.40	0.00000
1570.	0.6259E 00	23328.4	76.50	0.00000
1580.	0.6220E 00	23490.3	76.60	0.00000
1590.	0.6180E 00	23652.4	76.71	0.00000

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.6142E 00	23814.7	76.81	0.00000
1610.	0.6104E 00	23977.3	76.91	0.00000
1620.	0.6066E 00	24140.1	77.01	0.00001
1630.	0.6029E 00	24303.1	77.11	0.00001
1640.	0.5992E 00	24466.3	77.21	0.00001
1650.	0.5956E 00	24629.7	77.31	0.00001
1660.	0.5920E 00	24793.4	77.41	0.00001
1670.	0.5884E 00	24957.3	77.51	0.00001
1680.	0.5849E 00	25121.4	77.61	0.00001
1690.	0.5815E 00	25285.7	77.70	0.00001
1700.	0.5780E 00	25450.2	77.80	0.00001
1710.	0.5747E 00	25615.0	77.90	0.00001
1720.	0.5713E 00	25779.9	77.99	0.00001
1730.	0.5680E 00	25945.1	78.09	0.00002
1740.	0.5648E 00	26110.6	78.18	0.00002
1750.	0.5615E 00	26276.2	78.28	0.00002
1760.	0.5583E 00	26442.1	78.37	0.00002
1770.	0.5552E 00	26608.2	78.47	0.00002
1780.	0.5521E 00	26774.5	78.56	0.00002
1790.	0.5490E 00	26941.1	78.66	0.00003
1800.	0.5459E 00	27107.9	78.75	0.00003
1810.	0.5429E 00	27274.9	78.84	0.00003
1820.	0.5399E 00	27442.2	78.93	0.00003
1830.	0.5370E 00	27609.7	79.03	0.00004
1840.	0.5341E 00	27777.4	79.12	0.00004
1850.	0.5312E 00	27945.4	79.21	0.00004
1860.	0.5283E 00	28113.6	79.30	0.00005
1870.	0.5255E 00	28282.0	79.39	0.00005
1880.	0.5227E 00	28450.7	79.48	0.00005
1890.	0.5199E 00	28619.7	79.57	0.00006
1900.	0.5172E 00	28788.9	79.66	0.00006
1910.	0.5145E 00	28958.3	79.75	0.00007
1920.	0.5118E 00	29128.0	79.84	0.00007
1930.	0.5091E 00	29298.0	79.93	0.00008
1940.	0.5065E 00	29468.3	80.02	0.00008
1950.	0.5039E 00	29638.8	80.10	0.00009
1960.	0.5013E 00	29809.6	80.19	0.00010
1970.	0.4988E-00	29980.6	80.28	0.00010
1980.	0.4963E-00	30151.9	80.37	0.00011
1990.	0.4938E-00	30323.6	80.45	0.00012
2000.	0.4913E-00	30495.5	80.54	0.00013
2010.	0.4888E-00	30667.7	80.63	0.00014
2020.	0.4864E-00	30840.2	80.71	0.00015
2030.	0.4840E-00	31013.0	80.80	0.00016
2040.	0.4816E-00	31186.1	80.88	0.00017
2050.	0.4793E-00	31359.5	80.97	0.00018
2060.	0.4769E-00	31533.3	81.05	0.00019
2070.	0.4746E-00	31707.3	81.14	0.00020
2080.	0.4723E-00	31881.7	81.22	0.00022
2090.	0.4701E-00	32056.5	81.31	0.00023

PRESSURE 40. ATMOSPHERES, 1% O₂ COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.4678E-00	32231.6	81.39	0.00025
2110.	0.4656E-00	32407.0	81.48	0.00026
2120.	0.4634E-00	32582.8	81.56	0.00028
2130.	0.4612E-00	32758.9	81.64	0.00030
2140.	0.4591E-00	32935.5	81.73	0.00031
2150.	0.4569E-00	33112.4	81.81	0.00033
2160.	0.4548E-00	33289.7	81.90	0.00035
2170.	0.4527E-00	33467.4	81.98	0.00037
2180.	0.4506E-00	33645.5	82.06	0.00040
2190.	0.4485E-00	33824.0	82.14	0.00042
2200.	0.4465E-00	34003.0	82.23	0.00044
2210.	0.4444E-00	34182.3	82.31	0.00047
2220.	0.4424E-00	34362.2	82.39	0.00050
2230.	0.4404E-00	34542.4	82.47	0.00053
2240.	0.4385E-00	34723.2	82.56	0.00056
2250.	0.4365E-00	34904.4	82.64	0.00059
2260.	0.4346E-00	35086.1	82.72	0.00062
2270.	0.4326E-00	35268.3	82.80	0.00065
2280.	0.4307E-00	35451.0	82.89	0.00069
2290.	0.4288E-00	35634.2	82.97	0.00073
2300.	0.4269E-00	35817.9	83.05	0.00076
2310.	0.4251E-00	36002.2	83.13	0.00080
2320.	0.4232E-00	36187.1	83.21	0.00085
2330.	0.4214E-00	36372.5	83.29	0.00089
2340.	0.4196E-00	36558.5	83.38	0.00094
2350.	0.4178E-00	36745.1	83.46	0.00098
2360.	0.4160E-00	36932.3	83.54	0.00103
2370.	0.4142E-00	37120.1	83.62	0.00109
2380.	0.4124E-00	37308.6	83.70	0.00114
2390.	0.4107E-00	37497.7	83.78	0.00120
2400.	0.4089E-00	37687.5	83.87	0.00126
2410.	0.4072E-00	37878.0	83.95	0.00132
2420.	0.4055E-00	38069.2	84.03	0.00138
2430.	0.4038E-00	38261.1	84.11	0.00145
2440.	0.4021E-00	38453.7	84.19	0.00152
2450.	0.4005E-00	38647.1	84.27	0.00159
2460.	0.3988E-00	38841.2	84.36	0.00166
2470.	0.3972E-00	39036.1	84.44	0.00174
2480.	0.3955E-00	39231.8	84.52	0.00182
2490.	0.3939E-00	39428.4	84.60	0.00190
2500.	0.3923E-00	39625.7	84.69	0.00199
2510.	0.3907E-00	39824.0	84.77	0.00207
2520.	0.3891E-00	40023.1	84.85	0.00217
2530.	0.3875E-00	40223.1	84.93	0.00226
2540.	0.3860E-00	40424.0	85.02	0.00236
2550.	0.3844E-00	40625.9	85.10	0.00246
2560.	0.3829E-00	40828.7	85.18	0.00257
2570.	0.3814E-00	41032.5	85.26	0.00268
2580.	0.3798E-00	41237.3	85.35	0.00279
2590.	0.3783E-00	41443.1	85.43	0.00291

PRESSURE 40. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.3768E-00	41649.9	85.52	0.00303
2610.	0.3753E-00	41857.9	85.60	0.00316
2620.	0.3738E-00	42066.9	85.68	0.00329
2630.	0.3724E-00	42277.0	85.77	0.00342
2640.	0.3709E-00	42488.2	85.85	0.00356
2650.	0.3695E-00	42700.6	85.94	0.00370
2660.	0.3680E-00	42914.2	86.02	0.00385
2670.	0.3666E-00	43129.0	86.11	0.00400
2680.	0.3652E-00	43345.0	86.19	0.00416
2690.	0.3637E-00	43562.2	86.28	0.00432
2700.	0.3623E-00	43780.8	86.37	0.00449
2710.	0.3609E-00	44000.6	86.45	0.00466
2720.	0.3595E-00	44221.8	86.54	0.00484
2730.	0.3582E-00	44444.3	86.63	0.00502
2740.	0.3568E-00	44668.3	86.71	0.00521
2750.	0.3554E-00	44893.6	86.80	0.00540
2760.	0.3541E-00	45120.4	86.89	0.00560
2770.	0.3527E-00	45348.6	86.98	0.00581
2780.	0.3514E-00	45578.3	87.07	0.00602
2790.	0.3500E-00	45809.5	87.16	0.00624
2800.	0.3487E-00	46042.3	87.24	0.00646
2810.	0.3474E-00	46276.7	87.33	0.00669
2820.	0.3461E-00	46512.7	87.42	0.00693
2830.	0.3448E-00	46750.3	87.52	0.00717
2840.	0.3435E-00	46989.6	87.61	0.00742
2850.	0.3422E-00	47230.6	87.70	0.00768
2860.	0.3409E-00	47473.3	87.79	0.00794
2870.	0.3396E-00	47717.7	87.88	0.00821
2880.	0.3383E-00	47964.0	87.97	0.00849
2890.	0.3371E-00	48212.0	88.07	0.00878
2900.	0.3358E-00	48461.9	88.16	0.00907
2910.	0.3346E-00	48713.7	88.25	0.00938
2920.	0.3333E-00	48967.4	88.35	0.00968
2930.	0.3321E-00	49223.1	88.44	0.01000
2940.	0.3308E-00	49480.7	88.54	0.01033
2950.	0.3296E-00	49740.4	88.63	0.01066
2960.	0.3284E-00	50002.1	88.73	0.01100
2970.	0.3272E-00	50265.9	88.83	0.01136
2980.	0.3259E-00	50531.8	88.93	0.01172
2990.	0.3247E-00	50799.8	89.02	0.01209
3000.	0.3235E-00	51070.0	89.12	0.01246

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.1102E 02	1517.9	40.09	0.
110.	0.9923E 01	1642.0	41.28	0.
120.	0.9042E 01	1766.9	42.36	0.
130.	0.8313E 01	1893.3	43.37	0.
140.	0.7699E 01	2021.3	44.32	0.
150.	0.7173E 01	2151.1	45.22	0.
160.	0.6718E 01	2282.5	46.07	0.
170.	0.6318E 01	2415.5	46.87	0.
180.	0.5965E 01	2550.1	47.64	0.
190.	0.5651E 01	2686.0	48.38	0.
200.	0.5369E 01	2823.2	49.08	0.
210.	0.5114E 01	2961.5	49.75	0.
220.	0.4883E 01	3100.8	50.40	0.
230.	0.4672E 01	3241.1	51.03	0.
240.	0.4479E 01	3382.1	51.63	0.
250.	0.4301E 01	3523.9	52.21	0.
260.	0.4138E 01	3666.2	52.76	0.
270.	0.3986E 01	3809.1	53.30	0.
280.	0.3846E 01	3952.4	53.82	0.
290.	0.3715E 01	4096.2	54.33	0.
300.	0.3592E 01	4240.2	54.82	0.
310.	0.3478E 01	4384.6	55.29	0.
320.	0.3371E 01	4529.1	55.75	0.
330.	0.3270E 01	4673.9	56.19	0.
340.	0.3175E 01	4818.8	56.63	0.
350.	0.3086E 01	4963.8	57.05	0.
360.	0.3001E 01	5108.9	57.46	0.
370.	0.2921E 01	5254.1	57.85	0.
380.	0.2846E 01	5399.4	58.24	0.
390.	0.2774E 01	5544.7	58.62	0.
400.	0.2705E 01	5690.0	58.99	0.
410.	0.2640E 01	5835.4	59.35	0.
420.	0.2578E 01	5980.7	59.70	0.
430.	0.2519E 01	6126.1	60.04	0.
440.	0.2463E 01	6271.6	60.37	0.
450.	0.2409E 01	6417.0	60.70	0.
460.	0.2357E 01	6562.4	61.02	0.
470.	0.2308E 01	6707.9	61.33	0.
480.	0.2260E 01	6853.4	61.64	0.
490.	0.2215E 01	6998.9	61.94	0.
500.	0.2171E 01	7144.5	62.23	0.
510.	0.2129E 01	7290.1	62.52	0.
520.	0.2089E 01	7435.7	62.80	0.
530.	0.2050E 01	7581.3	63.08	0.
540.	0.2012E 01	7727.0	63.35	0.
550.	0.1976E 01	7872.7	63.62	0.
560.	0.1941E 01	8018.4	63.88	0.
570.	0.1908E 01	8164.1	64.14	0.
580.	0.1875E 01	8309.8	64.39	0.
590.	0.1844E 01	8455.6	64.64	0.

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1814E 01	8600.9	64.89	0.
610.	0.1784E 01	8746.6	65.13	0.
620.	0.1756E 01	8892.3	65.37	0.
630.	0.1728E 01	9038.1	65.60	0.
640.	0.1702E 01	9183.9	65.83	0.
650.	0.1676E 01	9329.8	66.06	0.
660.	0.1651E 01	9475.7	66.28	0.
670.	0.1626E 01	9621.6	66.50	0.
680.	0.1603E 01	9767.7	66.72	0.
690.	0.1580E 01	9913.8	66.93	0.
700.	0.1557E 01	10059.9	67.14	0.
710.	0.1536E 01	10206.2	67.35	0.
720.	0.1515E 01	10352.6	67.55	0.
730.	0.1494E 01	10499.0	67.75	0.
740.	0.1474E 01	10645.6	67.95	0.
750.	0.1455E 01	10792.2	68.15	0.
760.	0.1436E 01	10939.0	68.34	0.
770.	0.1417E 01	11085.8	68.54	0.
780.	0.1399E 01	11232.8	68.73	0.
790.	0.1382E 01	11379.9	68.91	0.
800.	0.1365E 01	11527.0	69.10	0.
810.	0.1348E 01	11674.3	69.28	0.
820.	0.1332E 01	11821.8	69.46	0.
830.	0.1316E 01	11969.3	69.64	0.
840.	0.1300E 01	12116.9	69.82	0.
850.	0.1285E 01	12264.7	69.99	0.
860.	0.1271E 01	12412.6	70.17	0.
870.	0.1256E 01	12560.6	70.34	0.
880.	0.1242E 01	12708.8	70.51	0.
890.	0.1228E 01	12857.0	70.67	0.
900.	0.1215E 01	13005.5	70.84	0.
910.	0.1201E 01	13154.0	71.00	0.
920.	0.1188E 01	13302.7	71.17	0.
930.	0.1176E 01	13451.5	71.33	0.
940.	0.1163E 01	13600.5	71.49	0.
950.	0.1151E 01	13749.6	71.64	0.
960.	0.1139E 01	13898.8	71.80	0.
970.	0.1128E 01	14048.2	71.95	0.
980.	0.1116E 01	14197.8	72.11	0.
990.	0.1105E 01	14347.5	72.26	0.
1000.	0.1094E 01	14497.3	72.41	0.
1010.	0.1083E 01	14647.3	72.56	0.
1020.	0.1073E 01	14797.5	72.71	0.
1030.	0.1063E 01	14947.8	72.85	0.
1040.	0.1053E 01	15098.3	73.00	0.
1050.	0.1043E 01	15248.9	73.14	0.
1060.	0.1033E 01	15399.7	73.29	0.
1070.	0.1023E 01	15550.7	73.43	0.
1080.	0.1014E 01	15701.8	73.57	0.
1090.	0.1005E 01	15853.2	73.71	0.

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.9956E 00	16004.7	73.85	0.
1110.	0.9867E 00	16156.3	73.98	0.
1120.	0.9780E 00	16308.2	74.12	0.
1130.	0.9694E 00	16460.2	74.26	0.
1140.	0.9609E 00	16612.4	74.39	0.
1150.	0.9526E 00	16764.8	74.52	0.
1160.	0.9445E 00	16917.4	74.65	0.
1170.	0.9365E 00	17070.1	74.79	0.
1180.	0.9286E 00	17223.1	74.92	0.
1190.	0.9209E 00	17376.3	75.05	0.
1200.	0.9133E 00	17529.6	75.17	0.
1210.	0.9058E 00	17683.1	75.30	0.
1220.	0.8984E 00	17836.9	75.43	0.
1230.	0.8912E 00	17990.8	75.55	0.
1240.	0.8840E 00	18145.0	75.68	0.
1250.	0.8770E 00	18299.3	75.80	0.
1260.	0.8701E 00	18453.9	75.93	0.
1270.	0.8633E 00	18608.6	76.05	0.
1280.	0.8566E 00	18763.6	76.17	0.
1290.	0.8500E 00	18918.8	76.29	0.
1300.	0.8435E 00	19074.2	76.41	0.
1310.	0.8371E 00	19229.8	76.53	0.
1320.	0.8308E 00	19385.6	76.65	0.
1330.	0.8246E 00	19541.7	76.77	0.
1340.	0.8185E 00	19698.0	76.88	0.
1350.	0.8125E 00	19854.5	77.00	0.
1360.	0.8066E 00	20011.2	77.11	0.
1370.	0.8007E 00	20168.2	77.23	0.
1380.	0.7950E 00	20325.4	77.34	0.
1390.	0.7893E 00	20482.8	77.46	0.
1400.	0.7837E 00	20640.5	77.57	0.
1410.	0.7782E 00	20798.4	77.68	0.
1420.	0.7727E 00	20956.5	77.79	0.
1430.	0.7674E 00	21114.9	77.91	0.
1440.	0.7621E 00	21273.5	78.02	0.
1450.	0.7569E 00	21432.4	78.13	0.
1460.	0.7517E 00	21591.5	78.24	0.
1470.	0.7466E 00	21750.9	78.34	0.
1480.	0.7416E 00	21910.5	78.45	0.
1490.	0.7367E 00	22070.4	78.56	0.
1500.	0.7370E 00	22201.1	78.68	0.00000
1510.	0.7321E 00	22361.5	78.79	0.00000
1520.	0.7273E 00	22522.1	78.89	0.00000
1530.	0.7226E 00	22682.9	79.00	0.00000
1540.	0.7179E 00	22843.9	79.10	0.00000
1550.	0.7132E 00	23005.2	79.21	0.00000
1560.	0.7087E 00	23166.6	79.31	0.00000
1570.	0.7042E 00	23328.3	79.41	0.00000
1580.	0.6997E 00	23490.2	79.52	0.00000
1590.	0.6953E 00	23652.3	79.62	0.00000

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.6910E 00	23814.7	79.72	0.00000
1610.	0.6867E 00	23977.2	79.82	0.00000
1620.	0.6824E 00	24140.0	79.92	0.00000
1630.	0.6782E 00	24303.0	80.02	0.00001
1640.	0.6741E 00	24466.2	80.12	0.00001
1650.	0.6700E 00	24629.6	80.22	0.00001
1660.	0.6660E 00	24793.3	80.32	0.00001
1670.	0.6620E 00	24957.2	80.42	0.00001
1680.	0.6580E 00	25121.2	80.52	0.00001
1690.	0.6542E 00	25285.5	80.61	0.00001
1700.	0.6503E 00	25450.1	80.71	0.00001
1710.	0.6465E 00	25614.8	80.81	0.00001
1720.	0.6427E 00	25779.8	80.90	0.00001
1730.	0.6390E 00	25945.0	81.00	0.00001
1740.	0.6354E 00	26110.4	81.10	0.00002
1750.	0.6317E 00	26276.0	81.19	0.00002
1760.	0.6281E 00	26441.8	81.29	0.00002
1770.	0.6246E 00	26607.9	81.38	0.00002
1780.	0.6211E 00	26774.2	81.47	0.00002
1790.	0.6176E 00	26940.8	81.57	0.00002
1800.	0.6142E 00	27107.5	81.66	0.00003
1810.	0.6108E 00	27274.5	81.75	0.00003
1820.	0.6074E 00	27441.7	81.85	0.00003
1830.	0.6041E 00	27609.2	81.94	0.00003
1840.	0.6008E 00	27776.9	82.03	0.00004
1850.	0.5976E 00	27944.8	82.12	0.00004
1860.	0.5943E 00	28113.0	82.21	0.00004
1870.	0.5912E 00	28281.4	82.30	0.00005
1880.	0.5880E 00	28450.0	82.39	0.00005
1890.	0.5849E 00	28618.9	82.48	0.00005
1900.	0.5818E 00	28788.1	82.57	0.00006
1910.	0.5788E 00	28957.5	82.66	0.00006
1920.	0.5758E 00	29127.1	82.75	0.00007
1930.	0.5728E 00	29297.0	82.84	0.00007
1940.	0.5698E 00	29467.2	82.93	0.00008
1950.	0.5669E 00	29637.6	83.01	0.00009
1960.	0.5640E 00	29808.3	83.10	0.00009
1970.	0.5611E 00	29979.3	83.19	0.00010
1980.	0.5583E 00	30150.5	83.28	0.00011
1990.	0.5555E 00	30322.0	83.36	0.00011
2000.	0.5527E 00	30493.8	83.45	0.00012
2010.	0.5499E 00	30665.9	83.54	0.00013
2020.	0.5472E 00	30838.3	83.62	0.00014
2030.	0.5445E 00	31011.0	83.71	0.00015
2040.	0.5418E 00	31183.9	83.79	0.00016
2050.	0.5392E 00	31357.2	83.88	0.00017
2060.	0.5366E 00	31530.8	83.96	0.00018
2070.	0.5340E 00	31704.7	84.05	0.00019
2080.	0.5314E 00	31878.9	84.13	0.00020
2090.	0.5288E 00	32053.5	84.22	0.00022

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.5263E 00	32228.4	84.30	0.00023
2110.	0.5238E 00	32403.6	84.39	0.00025
2120.	0.5213E 00	32579.2	84.47	0.00026
2130.	0.5189E 00	32755.1	84.55	0.00028
2140.	0.5165E 00	32931.4	84.64	0.00030
2150.	0.5140E 00	33108.1	84.72	0.00031
2160.	0.5117E 00	33285.1	84.80	0.00033
2170.	0.5093E 00	33462.6	84.89	0.00035
2180.	0.5069E 00	33640.4	84.97	0.00037
2190.	0.5046E 00	33818.6	85.05	0.00040
2200.	0.5023E 00	33997.2	85.14	0.00042
2210.	0.5000E 00	34176.3	85.22	0.00044
2220.	0.4978E-00	34355.7	85.30	0.00047
2230.	0.4955E-00	34535.6	85.38	0.00050
2240.	0.4933E-00	34716.0	85.46	0.00052
2250.	0.4911E-00	34896.8	85.55	0.00055
2260.	0.4889E-00	35078.1	85.63	0.00058
2270.	0.4867E-00	35259.8	85.71	0.00062
2280.	0.4846E-00	35442.1	85.79	0.00065
2290.	0.4824E-00	35624.8	85.87	0.00068
2300.	0.4803E-00	35808.1	85.95	0.00072
2310.	0.4782E-00	35991.8	86.04	0.00076
2320.	0.4761E-00	36176.1	86.12	0.00080
2330.	0.4741E-00	36361.0	86.20	0.00084
2340.	0.4720E-00	36546.4	86.28	0.00088
2350.	0.4700E-00	36732.4	86.36	0.00093
2360.	0.4680E-00	36918.9	86.44	0.00098
2370.	0.4660E-00	37106.1	86.52	0.00102
2380.	0.4640E-00	37293.8	86.61	0.00108
2390.	0.4620E-00	37482.2	86.69	0.00113
2400.	0.4601E-00	37671.3	86.77	0.00118
2410.	0.4582E-00	37860.9	86.85	0.00124
2420.	0.4562E-00	38051.3	86.93	0.00130
2430.	0.4543E-00	38242.3	87.01	0.00136
2440.	0.4524E-00	38434.1	87.09	0.00143
2450.	0.4506E-00	38626.5	87.17	0.00150
2460.	0.4487E-00	38819.7	87.26	0.00157
2470.	0.4469E-00	39013.6	87.34	0.00164
2480.	0.4450E-00	39208.3	87.42	0.00171
2490.	0.4432E-00	39403.7	87.50	0.00179
2500.	0.4414E-00	39600.0	87.58	0.00187
2510.	0.4396E-00	39797.1	87.66	0.00196
2520.	0.4378E-00	39995.0	87.75	0.00204
2530.	0.4360E-00	40193.8	87.83	0.00213
2540.	0.4343E-00	40393.4	87.91	0.00223
2550.	0.4325E-00	40593.9	87.99	0.00232
2560.	0.4308E-00	40795.4	88.07	0.00242
2570.	0.4291E-00	40997.7	88.16	0.00253
2580.	0.4274E-00	41201.0	88.24	0.00263
2590.	0.4257E-00	41405.3	88.32	0.00274

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.4240E-00	41610.6	88.41	0.00286
2610.	0.4223E-00	41816.9	88.49	0.00298
2620.	0.4207E-00	42024.2	88.57	0.00310
2630.	0.4190E-00	42232.6	88.66	0.00322
2640.	0.4174E-00	42442.0	88.74	0.00335
2650.	0.4157E-00	42652.5	88.82	0.00349
2660.	0.4141E-00	42864.2	88.91	0.00363
2670.	0.4125E-00	43077.0	88.99	0.00377
2680.	0.4109E-00	43291.0	89.08	0.00392
2690.	0.4093E-00	43506.1	89.16	0.00407
2700.	0.4077E-00	43722.5	89.25	0.00423
2710.	0.4062E-00	43940.1	89.33	0.00439
2720.	0.4046E-00	44159.0	89.42	0.00456
2730.	0.4030E-00	44379.1	89.50	0.00473
2740.	0.4015E-00	44600.6	89.59	0.00491
2750.	0.4000E-00	44823.4	89.68	0.00509
2760.	0.3985E-00	45047.5	89.76	0.00528
2770.	0.3969E-00	45273.1	89.85	0.00547
2780.	0.3954E-00	45500.0	89.94	0.00567
2790.	0.3939E-00	45728.4	90.03	0.00588
2800.	0.3924E-00	45958.3	90.11	0.00609
2810.	0.3910E-00	46189.7	90.20	0.00631
2820.	0.3895E-00	46422.6	90.29	0.00653
2830.	0.3880E-00	46657.0	90.38	0.00676
2840.	0.3866E-00	46893.0	90.47	0.00700
2850.	0.3851E-00	47130.6	90.56	0.00724
2860.	0.3837E-00	47369.9	90.65	0.00749
2870.	0.3822E-00	47610.8	90.74	0.00774
2880.	0.3808E-00	47853.4	90.83	0.00801
2890.	0.3794E-00	48097.7	90.92	0.00828
2900.	0.3780E-00	48343.8	91.02	0.00855
2910.	0.3766E-00	48591.6	91.11	0.00884
2920.	0.3752E-00	48841.3	91.20	0.00913
2930.	0.3738E-00	49092.8	91.29	0.00943
2940.	0.3724E-00	49346.2	91.39	0.00974
2950.	0.3710E-00	49601.5	91.48	0.01005
2960.	0.3697E-00	49858.7	91.58	0.01038
2970.	0.3683E-00	50117.9	91.67	0.01071
2980.	0.3669E-00	50379.1	91.77	0.01105
2990.	0.3656E-00	50642.3	91.86	0.01139
3000.	0.3642E-00	50907.6	91.96	0.01175

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.1102E 02	1357.3	38.55	0.
110.	0.9923E 01	1489.7	39.81	0.
120.	0.9042E 01	1624.5	40.98	0.
130.	0.8313E 01	1762.0	42.08	0.
140.	0.7699E 01	1901.8	43.12	0.
150.	0.7173E 01	2043.6	44.10	0.
160.	0.6718E 01	2186.9	45.02	0.
170.	0.6318E 01	2331.4	45.90	0.
180.	0.5965E 01	2476.7	46.73	0.
190.	0.5651E 01	2622.5	47.52	0.
200.	0.5369E 01	2768.6	48.27	0.
210.	0.5114E 01	2915.0	48.98	0.
220.	0.4883E 01	3061.4	49.66	0.
230.	0.4672E 01	3207.8	50.31	0.
240.	0.4479E 01	3354.1	50.94	0.
250.	0.4301E 01	3500.5	51.53	0.
260.	0.4138E 01	3646.7	52.11	0.
270.	0.3986E 01	3792.9	52.66	0.
280.	0.3846E 01	3939.1	53.19	0.
290.	0.3715E 01	4085.2	53.70	0.
300.	0.3592E 01	4231.2	54.20	0.
310.	0.3478E 01	4377.1	54.68	0.
320.	0.3371E 01	4523.0	55.14	0.
330.	0.3270E 01	4668.9	55.59	0.
340.	0.3175E 01	4814.7	56.02	0.
350.	0.3086E 01	4960.5	56.45	0.
360.	0.3001E 01	5106.2	56.86	0.
370.	0.2921E 01	5251.9	57.26	0.
380.	0.2846E 01	5397.6	57.64	0.
390.	0.2774E 01	5543.2	58.02	0.
400.	0.2705E 01	5688.9	58.39	0.
410.	0.2640E 01	5834.5	58.75	0.
420.	0.2578E 01	5980.0	59.10	0.
430.	0.2519E 01	6125.6	59.44	0.
440.	0.2463E 01	6271.2	59.78	0.
450.	0.2409E 01	6416.8	60.11	0.
460.	0.2357E 01	6562.3	60.43	0.
470.	0.2308E 01	6707.9	60.74	0.
480.	0.2260E 01	6853.5	61.05	0.
490.	0.2215E 01	6999.0	61.35	0.
500.	0.2171E 01	7144.6	61.64	0.
510.	0.2129E 01	7290.2	61.93	0.
520.	0.2089E 01	7435.9	62.21	0.
530.	0.2050E 01	7581.5	62.49	0.
540.	0.2012E 01	7727.1	62.76	0.
550.	0.1976E 01	7872.8	63.03	0.
560.	0.1941E 01	8018.5	63.29	0.
570.	0.1908E 01	8164.2	63.55	0.
580.	0.1875E 01	8309.9	63.80	0.
590.	0.1844E 01	8455.7	64.05	0.

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1814E 01	8600.9	63.76	0.
610.	0.1784E 01	8746.6	64.00	0.
620.	0.1756E 01	8892.3	64.23	0.
630.	0.1728E 01	9038.1	64.47	0.
640.	0.1702E 01	9183.9	64.70	0.
650.	0.1676E 01	9329.8	64.92	0.
660.	0.1651E 01	9475.7	65.15	0.
670.	0.1626E 01	9621.6	65.37	0.
680.	0.1603E 01	9767.7	65.58	0.
690.	0.1580E 01	9913.8	65.80	0.
700.	0.1557E 01	10059.9	66.01	0.
710.	0.1536E 01	10206.2	66.21	0.
720.	0.1515E 01	10352.6	66.42	0.
730.	0.1494E 01	10499.0	66.62	0.
740.	0.1474E 01	10645.6	66.82	0.
750.	0.1455E 01	10792.2	67.02	0.
760.	0.1436E 01	10939.0	67.21	0.
770.	0.1417E 01	11085.8	67.40	0.
780.	0.1399E 01	11232.8	67.59	0.
790.	0.1382E 01	11379.9	67.78	0.
800.	0.1365E 01	11527.0	67.97	0.
810.	0.1348E 01	11674.3	68.15	0.
820.	0.1332E 01	11821.8	68.33	0.
830.	0.1316E 01	11969.3	68.51	0.
840.	0.1300E 01	12116.9	68.68	0.
850.	0.1285E 01	12264.7	68.86	0.
860.	0.1271E 01	12412.6	69.03	0.
870.	0.1256E 01	12560.6	69.20	0.
880.	0.1242E 01	12708.8	69.37	0.
890.	0.1228E 01	12857.0	69.54	0.
900.	0.1215E 01	13005.5	69.71	0.
910.	0.1201E 01	13154.0	69.87	0.
920.	0.1188E 01	13302.7	70.03	0.
930.	0.1176E 01	13451.5	70.19	0.
940.	0.1163E 01	13600.5	70.35	0.
950.	0.1151E 01	13749.6	70.51	0.
960.	0.1139E 01	13898.8	70.67	0.
970.	0.1128E 01	14048.2	70.82	0.
980.	0.1116E 01	14197.8	70.98	0.
990.	0.1105E 01	14347.5	71.13	0.
1000.	0.1094E 01	14497.3	71.28	0.
1010.	0.1083E 01	14647.3	71.43	0.
1020.	0.1073E 01	14797.5	71.58	0.
1030.	0.1063E 01	14947.8	71.72	0.
1040.	0.1053E 01	15098.3	71.87	0.
1050.	0.1043E 01	15248.9	72.01	0.
1060.	0.1033E 01	15399.7	72.15	0.
1070.	0.1023E 01	15550.7	72.30	0.
1080.	0.1014E 01	15701.8	72.44	0.
1090.	0.1005E 01	15853.2	72.58	0.

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.9956E 00	16004.7	72.71	0.
1110.	0.9867E 00	16156.3	72.85	0.
1120.	0.9780E 00	16308.2	72.99	0.
1130.	0.9694E 00	16460.2	73.12	0.
1140.	0.9609E 00	16612.4	73.26	0.
1150.	0.9526E 00	16764.8	73.39	0.
1160.	0.9445E 00	16917.4	73.52	0.
1170.	0.9365E 00	17070.1	73.65	0.
1180.	0.9286E 00	17223.1	73.78	0.
1190.	0.9209E 00	17376.3	73.91	0.
1200.	0.9133E 00	17529.6	74.04	0.
1210.	0.9058E 00	17683.1	74.17	0.
1220.	0.8984E 00	17836.9	74.30	0.
1230.	0.8912E 00	17990.8	74.42	0.
1240.	0.8840E 00	18145.0	74.55	0.
1250.	0.8770E 00	18299.3	74.67	0.
1260.	0.8701E 00	18453.9	74.79	0.
1270.	0.8633E 00	18608.6	74.92	0.
1280.	0.8566E 00	18763.6	75.04	0.
1290.	0.8500E 00	18918.8	75.16	0.
1300.	0.8435E 00	19074.2	75.28	0.
1310.	0.8371E 00	19229.8	75.40	0.
1320.	0.8308E 00	19385.6	75.52	0.
1330.	0.8246E 00	19541.7	75.63	0.
1340.	0.8185E 00	19698.0	75.75	0.
1350.	0.8125E 00	19854.5	75.87	0.
1360.	0.8066E 00	20011.2	75.98	0.
1370.	0.8007E 00	20168.2	76.10	0.
1380.	0.7950E 00	20325.4	76.21	0.
1390.	0.7893E 00	20482.8	76.33	0.
1400.	0.7837E 00	20640.5	76.44	0.
1410.	0.7782E 00	20798.4	76.55	0.
1420.	0.7727E 00	20956.5	76.66	0.
1430.	0.7674E 00	21114.9	76.77	0.
1440.	0.7621E 00	21273.5	76.88	0.
1450.	0.7569E 00	21432.4	76.99	0.
1460.	0.7517E 00	21591.5	77.10	0.
1470.	0.7466E 00	21750.9	77.21	0.
1480.	0.7416E 00	21910.5	77.32	0.
1490.	0.7367E 00	22070.4	77.43	0.
1500.	0.7370E 00	22201.1	77.55	0.00000
1510.	0.7321E 00	22361.5	77.65	0.00000
1520.	0.7273E 00	22522.1	77.76	0.00000
1530.	0.7226E 00	22682.9	77.86	0.00000
1540.	0.7179E 00	22843.9	77.97	0.00000
1550.	0.7132E 00	23005.2	78.07	0.00000
1560.	0.7087E 00	23166.6	78.18	0.00000
1570.	0.7042E 00	23328.3	78.28	0.00000
1580.	0.6997E 00	23490.2	78.38	0.00000
1590.	0.6953E 00	23652.3	78.49	0.00000

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.6910E 00	23814.7	78.59	0.00000
1610.	0.6867E 00	23977.2	78.69	0.00000
1620.	0.6824E 00	24140.0	78.79	0.00000
1630.	0.6782E 00	24303.0	78.89	0.00001
1640.	0.6741E 00	24466.2	78.99	0.00001
1650.	0.6700E 00	24629.6	79.09	0.00001
1660.	0.6660E 00	24793.3	79.19	0.00001
1670.	0.6620E 00	24957.2	79.29	0.00001
1680.	0.6580E 00	25121.2	79.38	0.00001
1690.	0.6542E 00	25285.5	79.48	0.00001
1700.	0.6503E 00	25450.1	79.58	0.00001
1710.	0.6465E 00	25614.8	79.68	0.00001
1720.	0.6427E 00	25779.8	79.77	0.00001
1730.	0.6390E 00	25945.0	79.87	0.00001
1740.	0.6354E 00	26110.4	79.96	0.00002
1750.	0.6317E 00	26276.0	80.06	0.00002
1760.	0.6281E 00	26441.8	80.15	0.00002
1770.	0.6246E 00	26607.9	80.25	0.00002
1780.	0.6211E 00	26774.2	80.34	0.00002
1790.	0.6176E 00	26940.8	80.43	0.00002
1800.	0.6142E 00	27107.5	80.53	0.00003
1810.	0.6108E 00	27274.5	80.62	0.00003
1820.	0.6074E 00	27441.7	80.71	0.00003
1830.	0.6041E 00	27609.2	80.80	0.00003
1840.	0.6008E 00	27776.9	80.90	0.00004
1850.	0.5976E 00	27944.8	80.99	0.00004
1860.	0.5943E 00	28113.0	81.08	0.00004
1870.	0.5912E 00	28281.4	81.17	0.00005
1880.	0.5880E 00	28450.0	81.26	0.00005
1890.	0.5849E 00	28618.9	81.35	0.00005
1900.	0.5818E 00	28788.1	81.44	0.00006
1910.	0.5788E 00	28957.5	81.53	0.00006
1920.	0.5758E 00	29127.1	81.62	0.00007
1930.	0.5728E 00	29297.0	81.71	0.00007
1940.	0.5698E 00	29467.2	81.79	0.00008
1950.	0.5669E 00	29637.6	81.88	0.00009
1960.	0.5640E 00	29808.3	81.97	0.00009
1970.	0.5611E 00	29979.3	82.06	0.00010
1980.	0.5583E 00	30150.5	82.14	0.00011
1990.	0.5555E 00	30322.0	82.23	0.00011
2000.	0.5527E 00	30493.8	82.32	0.00012
2010.	0.5499E 00	30665.9	82.40	0.00013
2020.	0.5472E 00	30838.3	82.49	0.00014
2030.	0.5445E 00	31011.0	82.58	0.00015
2040.	0.5418E 00	31183.9	82.66	0.00016
2050.	0.5392E 00	31357.2	82.75	0.00017
2060.	0.5366E 00	31530.8	82.83	0.00018
2070.	0.5340E 00	31704.7	82.92	0.00019
2080.	0.5314E 00	31878.9	83.00	0.00020
2090.	0.5288E 00	32053.5	83.09	0.00022

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.5263E 00	32228.4	83.17	0.00023
2110.	0.5238E 00	32403.6	83.25	0.00025
2120.	0.5213E 00	32579.2	83.34	0.00026
2130.	0.5189E 00	32755.1	83.42	0.00028
2140.	0.5165E 00	32931.4	83.51	0.00030
2150.	0.5140E 00	33108.1	83.59	0.00031
2160.	0.5117E 00	33285.1	83.67	0.00033
2170.	0.5093E 00	33462.6	83.75	0.00035
2180.	0.5069E 00	33640.4	83.84	0.00037
2190.	0.5046E 00	33818.6	83.92	0.00040
2200.	0.5023E 00	33997.2	84.00	0.00042
2210.	0.5000E 00	34176.3	84.09	0.00044
2220.	0.4978E-00	34355.7	84.17	0.00047
2230.	0.4955E-00	34535.6	84.25	0.00050
2240.	0.4933E-00	34716.0	84.33	0.00052
2250.	0.4911E-00	34896.8	84.41	0.00055
2260.	0.4889E-00	35078.1	84.50	0.00058
2270.	0.4867E-00	35259.8	84.58	0.00062
2280.	0.4846E-00	35442.1	84.66	0.00065
2290.	0.4824E-00	35624.8	84.74	0.00068
2300.	0.4803E-00	35808.1	84.82	0.00072
2310.	0.4782E-00	35991.8	84.90	0.00076
2320.	0.4761E-00	36176.1	84.98	0.00080
2330.	0.4741E-00	36361.0	85.07	0.00084
2340.	0.4720E-00	36546.4	85.15	0.00088
2350.	0.4700E-00	36732.4	85.23	0.00093
2360.	0.4680E-00	36918.9	85.31	0.00098
2370.	0.4660E-00	37106.1	85.39	0.00102
2380.	0.4640E-00	37293.8	85.47	0.00108
2390.	0.4620E-00	37482.2	85.55	0.00113
2400.	0.4601E-00	37671.3	85.63	0.00118
2410.	0.4582E-00	37860.9	85.72	0.00124
2420.	0.4562E-00	38051.3	85.80	0.00130
2430.	0.4543E-00	38242.3	85.88	0.00136
2440.	0.4524E-00	38434.1	85.96	0.00143
2450.	0.4506E-00	38626.5	86.04	0.00150
2460.	0.4487E-00	38819.7	86.12	0.00157
2470.	0.4469E-00	39013.6	86.20	0.00164
2480.	0.4450E-00	39208.3	86.29	0.00171
2490.	0.4432E-00	39403.7	86.37	0.00179
2500.	0.4414E-00	39600.0	86.45	0.00187
2510.	0.4396E-00	39797.1	86.53	0.00196
2520.	0.4378E-00	39995.0	86.61	0.00204
2530.	0.4360E-00	40193.8	86.69	0.00213
2540.	0.4343E-00	40393.4	86.78	0.00223
2550.	0.4325E-00	40593.9	86.86	0.00232
2560.	0.4308E-00	40795.4	86.94	0.00242
2570.	0.4291E-00	40997.7	87.02	0.00253
2580.	0.4274E-00	41201.0	87.11	0.00263
2590.	0.4257E-00	41405.3	87.19	0.00274

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.4240E-00	41610.6	87.27	0.00286
2610.	0.4223E-00	41816.9	87.36	0.00298
2620.	0.4207E-00	42024.2	87.44	0.00310
2630.	0.4190E-00	42232.6	87.52	0.00322
2640.	0.4174E-00	42442.0	87.61	0.00335
2650.	0.4157E-00	42652.5	87.69	0.00349
2660.	0.4141E-00	42864.2	87.78	0.00363
2670.	0.4125E-00	43077.0	87.86	0.00377
2680.	0.4109E-00	43291.0	87.94	0.00392
2690.	0.4093E-00	43506.1	88.03	0.00407
2700.	0.4077E-00	43722.5	88.11	0.00423
2710.	0.4062E-00	43940.1	88.20	0.00439
2720.	0.4046E-00	44159.0	88.29	0.00456
2730.	0.4030E-00	44379.1	88.37	0.00473
2740.	0.4015E-00	44600.6	88.46	0.00491
2750.	0.4000E-00	44823.4	88.54	0.00509
2760.	0.3985E-00	45047.5	88.63	0.00528
2770.	0.3969E-00	45273.1	88.72	0.00547
2780.	0.3954E-00	45500.0	88.81	0.00567
2790.	0.3939E-00	45728.4	88.89	0.00588
2800.	0.3924E-00	45958.3	88.98	0.00609
2810.	0.3910E-00	46189.7	89.07	0.00631
2820.	0.3895E-00	46422.6	89.16	0.00653
2830.	0.3880E-00	46657.0	89.25	0.00676
2840.	0.3866E-00	46893.0	89.34	0.00700
2850.	0.3851E-00	47130.6	89.43	0.00724
2860.	0.3837E-00	47369.9	89.52	0.00749
2870.	0.3822E-00	47610.8	89.61	0.00774
2880.	0.3808E-00	47853.4	89.70	0.00801
2890.	0.3794E-00	48097.7	89.79	0.00828
2900.	0.3780E-00	48343.8	89.88	0.00855
2910.	0.3766E-00	48591.6	89.97	0.00884
2920.	0.3752E-00	48841.3	90.07	0.00913
2930.	0.3738E-00	49092.8	90.16	0.00943
2940.	0.3724E-00	49346.2	90.25	0.00974
2950.	0.3710E-00	49601.5	90.35	0.01005
2960.	0.3697E-00	49858.7	90.44	0.01038
2970.	0.3683E-00	50117.9	90.54	0.01071
2980.	0.3669E-00	50379.1	90.63	0.01105
2990.	0.3656E-00	50642.3	90.73	0.01139
3000.	0.3642E-00	50907.6	90.83	0.01175

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.1102E 02	1196.8	35.93	0.
110.	0.9923E 01	1337.5	37.27	0.
120.	0.9042E 01	1482.2	38.53	0.
130.	0.8313E 01	1630.7	39.72	0.
140.	0.7699E 01	1782.3	40.84	0.
150.	0.7173E 01	1936.2	41.90	0.
160.	0.6718E 01	2091.4	42.90	0.
170.	0.6318E 01	2247.3	43.85	0.
180.	0.5965E 01	2403.3	44.74	0.
190.	0.5651E 01	2559.0	45.58	0.
200.	0.5369E 01	2714.1	46.38	0.
210.	0.5114E 01	2868.4	47.13	0.
220.	0.4883E 01	3021.9	47.84	0.
230.	0.4672E 01	3174.5	48.52	0.
240.	0.4479E 01	3326.2	49.17	0.
250.	0.4301E 01	3477.1	49.78	0.
260.	0.4138E 01	3627.3	50.37	0.
270.	0.3986E 01	3776.8	50.94	0.
280.	0.3846E 01	3925.7	51.48	0.
290.	0.3715E 01	4074.1	52.00	0.
300.	0.3592E 01	4222.1	52.50	0.
310.	0.3478E 01	4369.7	52.98	0.
320.	0.3371E 01	4517.0	53.45	0.
330.	0.3270E 01	4663.9	53.90	0.
340.	0.3175E 01	4810.6	54.34	0.
350.	0.3086E 01	4957.2	54.77	0.
360.	0.3001E 01	5103.5	55.18	0.
370.	0.2921E 01	5249.7	55.58	0.
380.	0.2846E 01	5395.8	55.97	0.
390.	0.2774E 01	5541.8	56.35	0.
400.	0.2705E 01	5687.7	56.72	0.
410.	0.2640E 01	5833.6	57.08	0.
420.	0.2578E 01	5979.4	57.43	0.
430.	0.2519E 01	6125.1	57.77	0.
440.	0.2463E 01	6270.8	58.11	0.
450.	0.2409E 01	6416.5	58.43	0.
460.	0.2357E 01	6562.2	58.76	0.
470.	0.2308E 01	6707.8	59.07	0.
480.	0.2260E 01	6853.5	59.37	0.
490.	0.2215E 01	6999.1	59.68	0.
500.	0.2171E 01	7144.8	59.97	0.
510.	0.2129E 01	7290.4	60.26	0.
520.	0.2089E 01	7436.0	60.54	0.
530.	0.2050E 01	7581.7	60.82	0.
540.	0.2012E 01	7727.3	61.09	0.
550.	0.1976E 01	7873.0	61.36	0.
560.	0.1941E 01	8018.6	61.62	0.
570.	0.1908E 01	8164.3	61.88	0.
580.	0.1875E 01	8310.0	62.13	0.
590.	0.1844E 01	8455.7	62.38	0.

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1814E 01	8600.9	62.62	0.
610.	0.1784E 01	8746.6	62.87	0.
620.	0.1756E 01	8892.3	63.10	0.
630.	0.1728E 01	9038.1	63.34	0.
640.	0.1702E 01	9183.9	63.57	0.
650.	0.1676E 01	9329.8	63.79	0.
660.	0.1651E 01	9475.7	64.01	0.
670.	0.1626E 01	9621.6	64.23	0.
680.	0.1603E 01	9767.7	64.45	0.
690.	0.1580E 01	9913.8	64.66	0.
700.	0.1557E 01	10059.9	64.87	0.
710.	0.1536E 01	10206.2	65.08	0.
720.	0.1515E 01	10352.6	65.29	0.
730.	0.1494E 01	10499.0	65.49	0.
740.	0.1474E 01	10645.6	65.69	0.
750.	0.1455E 01	10792.2	65.88	0.
760.	0.1436E 01	10939.0	66.08	0.
770.	0.1417E 01	11085.8	66.27	0.
780.	0.1399E 01	11232.8	66.46	0.
790.	0.1382E 01	11379.9	66.65	0.
800.	0.1365E 01	11527.0	66.83	0.
810.	0.1348E 01	11674.3	67.02	0.
820.	0.1332E 01	11821.8	67.20	0.
830.	0.1316E 01	11969.3	67.38	0.
840.	0.1300E 01	12116.9	67.55	0.
850.	0.1285E 01	12264.7	67.73	0.
860.	0.1271E 01	12412.6	67.90	0.
870.	0.1256E 01	12560.6	68.07	0.
880.	0.1242E 01	12708.8	68.24	0.
890.	0.1228E 01	12857.0	68.41	0.
900.	0.1215E 01	13005.5	68.57	0.
910.	0.1201E 01	13154.0	68.74	0.
920.	0.1188E 01	13302.7	68.90	0.
930.	0.1176E 01	13451.5	69.06	0.
940.	0.1163E 01	13600.5	69.22	0.
950.	0.1151E 01	13749.6	69.38	0.
960.	0.1139E 01	13898.8	69.53	0.
970.	0.1128E 01	14048.2	69.69	0.
980.	0.1116E 01	14197.8	69.84	0.
990.	0.1105E 01	14347.5	69.99	0.
1000.	0.1094E 01	14497.3	70.15	0.
1010.	0.1083E 01	14647.3	70.29	0.
1020.	0.1073E 01	14797.5	70.44	0.
1030.	0.1063E 01	14947.8	70.59	0.
1040.	0.1053E 01	15098.3	70.73	0.
1050.	0.1043E 01	15248.9	70.88	0.
1060.	0.1033E 01	15399.7	71.02	0.
1070.	0.1023E 01	15550.7	71.16	0.
1080.	0.1014E 01	15701.8	71.30	0.
1090.	0.1005E 01	15853.2	71.44	0.

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.9956E 00	16004.7	71.58	0.
1110.	0.9867E 00	16156.3	71.72	0.
1120.	0.9780E 00	16308.2	71.86	0.
1130.	0.9694E 00	16460.2	71.99	0.
1140.	0.9609E 00	16612.4	72.12	0.
1150.	0.9526E 00	16764.8	72.26	0.
1160.	0.9445E 00	16917.4	72.39	0.
1170.	0.9365E 00	17070.1	72.52	0.
1180.	0.9286E 00	17223.1	72.65	0.
1190.	0.9209E 00	17376.3	72.78	0.
1200.	0.9133E 00	17529.6	72.91	0.
1210.	0.9058E 00	17683.1	73.04	0.
1220.	0.8984E 00	17836.9	73.16	0.
1230.	0.8912E 00	17990.8	73.29	0.
1240.	0.8840E 00	18145.0	73.41	0.
1250.	0.8770E 00	18299.3	73.54	0.
1260.	0.8701E 00	18453.9	73.66	0.
1270.	0.8633E 00	18608.6	73.78	0.
1280.	0.8566E 00	18763.6	73.90	0.
1290.	0.8500E 00	18918.8	74.02	0.
1300.	0.8435E 00	19074.2	74.14	0.
1310.	0.8371E 00	19229.8	74.26	0.
1320.	0.8308E 00	19385.6	74.38	0.
1330.	0.8246E 00	19541.7	74.50	0.
1340.	0.8185E 00	19698.0	74.62	0.
1350.	0.8125E 00	19854.5	74.73	0.
1360.	0.8066E 00	20011.2	74.85	0.
1370.	0.8007E 00	20168.2	74.96	0.
1380.	0.7950E 00	20325.4	75.08	0.
1390.	0.7893E 00	20482.8	75.19	0.
1400.	0.7837E 00	20640.5	75.31	0.
1410.	0.7782E 00	20798.4	75.42	0.
1420.	0.7727E 00	20956.5	75.53	0.
1430.	0.7674E 00	21114.9	75.64	0.
1440.	0.7621E 00	21273.5	75.75	0.
1450.	0.7569E 00	21432.4	75.86	0.
1460.	0.7517E 00	21591.5	75.97	0.
1470.	0.7466E 00	21750.9	76.08	0.
1480.	0.7416E 00	21910.5	76.19	0.
1490.	0.7367E 00	22070.4	76.30	0.
1500.	0.7370E 00	22201.1	76.41	0.00000
1510.	0.7321E 00	22361.5	76.52	0.00000
1520.	0.7273E 00	22522.1	76.63	0.00000
1530.	0.7226E 00	22682.9	76.73	0.00000
1540.	0.7179E 00	22843.9	76.84	0.00000
1550.	0.7132E 00	23005.2	76.94	0.00000
1560.	0.7087E 00	23166.6	77.04	0.00000
1570.	0.7042E 00	23328.3	77.15	0.00000
1580.	0.6997E 00	23490.2	77.25	0.00000
1590.	0.6953E 00	23652.3	77.35	0.00000

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.6910E 00	23814.7	77.45	0.00000
1610.	0.6867E 00	23977.2	77.56	0.00000
1620.	0.6824E 00	24140.0	77.66	0.00000
1630.	0.6782E 00	24303.0	77.76	0.00001
1640.	0.6741E 00	24466.2	77.86	0.00001
1650.	0.6700E 00	24629.6	77.96	0.00001
1660.	0.6660E 00	24793.3	78.06	0.00001
1670.	0.6620E 00	24957.2	78.15	0.00001
1680.	0.6580E 00	25121.2	78.25	0.00001
1690.	0.6542E 00	25285.5	78.35	0.00001
1700.	0.6503E 00	25450.1	78.45	0.00001
1710.	0.6465E 00	25614.8	78.54	0.00001
1720.	0.6427E 00	25779.8	78.64	0.00001
1730.	0.6390E 00	25945.0	78.74	0.00001
1740.	0.6354E 00	26110.4	78.83	0.00002
1750.	0.6317E 00	26276.0	78.93	0.00002
1760.	0.6281E 00	26441.8	79.02	0.00002
1770.	0.6246E 00	26607.9	79.11	0.00002
1780.	0.6211E 00	26774.2	79.21	0.00002
1790.	0.6176E 00	26940.8	79.30	0.00002
1800.	0.6142E 00	27107.5	79.40	0.00003
1810.	0.6108E 00	27274.5	79.49	0.00003
1820.	0.6074E 00	27441.7	79.58	0.00003
1830.	0.6041E 00	27609.2	79.67	0.00003
1840.	0.6008E 00	27776.9	79.76	0.00004
1850.	0.5976E 00	27944.8	79.85	0.00004
1860.	0.5943E 00	28113.0	79.95	0.00004
1870.	0.5912E 00	28281.4	80.04	0.00005
1880.	0.5880E 00	28450.0	80.13	0.00005
1890.	0.5849E 00	28618.9	80.22	0.00005
1900.	0.5818E 00	28788.1	80.31	0.00006
1910.	0.5788E 00	28957.5	80.40	0.00006
1920.	0.5758E 00	29127.1	80.48	0.00007
1930.	0.5728E 00	29297.0	80.57	0.00007
1940.	0.5698E 00	29467.2	80.66	0.00008
1950.	0.5669E 00	29637.6	80.75	0.00009
1960.	0.5640E 00	29808.3	80.84	0.00009
1970.	0.5611E 00	29979.3	80.92	0.00010
1980.	0.5583E 00	30150.5	81.01	0.00011
1990.	0.5555E 00	30322.0	81.10	0.00011
2000.	0.5527E 00	30493.8	81.18	0.00012
2010.	0.5499E 00	30665.9	81.27	0.00013
2020.	0.5472E 00	30838.3	81.36	0.00014
2030.	0.5445E 00	31011.0	81.44	0.00015
2040.	0.5418E 00	31183.9	81.53	0.00016
2050.	0.5392E 00	31357.2	81.61	0.00017
2060.	0.5366E 00	31530.8	81.70	0.00018
2070.	0.5340E 00	31704.7	81.78	0.00019
2080.	0.5314E 00	31878.9	81.87	0.00020
2090.	0.5288E 00	32053.5	81.95	0.00022

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.5263E 00	32228.4	82.04	0.00023
2110.	0.5238E 00	32403.6	82.12	0.00025
2120.	0.5213E 00	32579.2	82.21	0.00026
2130.	0.5189E 00	32755.1	82.29	0.00028
2140.	0.5165E 00	32931.4	82.37	0.00030
2150.	0.5140E 00	33108.1	82.46	0.00031
2160.	0.5117E 00	33285.1	82.54	0.00033
2170.	0.5093E 00	33462.6	82.62	0.00035
2180.	0.5069E 00	33640.4	82.70	0.00037
2190.	0.5046E 00	33818.6	82.79	0.00040
2200.	0.5023E 00	33997.2	82.87	0.00042
2210.	0.5000E 00	34176.3	82.95	0.00044
2220.	0.4978E-00	34355.7	83.03	0.00047
2230.	0.4955E-00	34535.6	83.12	0.00050
2240.	0.4933E-00	34716.0	83.20	0.00052
2250.	0.4911E-00	34896.8	83.28	0.00055
2260.	0.4889E-00	35078.1	83.36	0.00058
2270.	0.4867E-00	35259.8	83.44	0.00062
2280.	0.4846E-00	35442.1	83.53	0.00065
2290.	0.4824E-00	35624.8	83.61	0.00068
2300.	0.4803E-00	35808.1	83.69	0.00072
2310.	0.4782E-00	35991.8	83.77	0.00076
2320.	0.4761E-00	36176.1	83.85	0.00080
2330.	0.4741E-00	36361.0	83.93	0.00084
2340.	0.4720E-00	36546.4	84.01	0.00088
2350.	0.4700E-00	36732.4	84.10	0.00093
2360.	0.4680E-00	36918.9	84.18	0.00098
2370.	0.4660E-00	37106.1	84.26	0.00102
2380.	0.4640E-00	37293.8	84.34	0.00108
2390.	0.4620E-00	37482.2	84.42	0.00113
2400.	0.4601E-00	37671.3	84.50	0.00118
2410.	0.4582E-00	37860.9	84.58	0.00124
2420.	0.4562E-00	38051.3	84.66	0.00130
2430.	0.4543E-00	38242.3	84.75	0.00136
2440.	0.4524E-00	38434.1	84.83	0.00143
2450.	0.4506E-00	38626.5	84.91	0.00150
2460.	0.4487E-00	38819.7	84.99	0.00157
2470.	0.4469E-00	39013.6	85.07	0.00164
2480.	0.4450E-00	39208.3	85.15	0.00171
2490.	0.4432E-00	39403.7	85.23	0.00179
2500.	0.4414E-00	39600.0	85.32	0.00187
2510.	0.4396E-00	39797.1	85.40	0.00196
2520.	0.4378E-00	39995.0	85.48	0.00204
2530.	0.4360E-00	40193.8	85.56	0.00213
2540.	0.4343E-00	40393.4	85.64	0.00223
2550.	0.4325E-00	40593.9	85.73	0.00232
2560.	0.4308E-00	40795.4	85.81	0.00242
2570.	0.4291E-00	40997.7	85.89	0.00253
2580.	0.4274E-00	41201.0	85.97	0.00263
2590.	0.4257E-00	41405.3	86.06	0.00274

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.4240E-00	41610.6	86.14	0.00286
2610.	0.4223E-00	41816.9	86.22	0.00298
2620.	0.4207E-00	42024.2	86.31	0.00310
2630.	0.4190E-00	42232.6	86.39	0.00322
2640.	0.4174E-00	42442.0	86.47	0.00335
2650.	0.4157E-00	42652.5	86.56	0.00349
2660.	0.4141E-00	42864.2	86.64	0.00363
2670.	0.4125E-00	43077.0	86.73	0.00377
2680.	0.4109E-00	43291.0	86.81	0.00392
2690.	0.4093E-00	43506.1	86.90	0.00407
2700.	0.4077E-00	43722.5	86.98	0.00423
2710.	0.4062E-00	43940.1	87.07	0.00439
2720.	0.4046E-00	44159.0	87.15	0.00456
2730.	0.4030E-00	44379.1	87.24	0.00473
2740.	0.4015E-00	44600.6	87.32	0.00491
2750.	0.4000E-00	44823.4	87.41	0.00509
2760.	0.3985E-00	45047.5	87.50	0.00528
2770.	0.3969E-00	45273.1	87.59	0.00547
2780.	0.3954E-00	45500.0	87.67	0.00567
2790.	0.3939E-00	45728.4	87.76	0.00588
2800.	0.3924E-00	45958.3	87.85	0.00609
2810.	0.3910E-00	46189.7	87.94	0.00631
2820.	0.3895E-00	46422.6	88.03	0.00653
2830.	0.3880E-00	46657.0	88.12	0.00676
2840.	0.3866E-00	46893.0	88.20	0.00700
2850.	0.3851E-00	47130.6	88.29	0.00724
2860.	0.3837E-00	47369.9	88.38	0.00749
2870.	0.3822E-00	47610.8	88.48	0.00774
2880.	0.3808E-00	47853.4	88.57	0.00801
2890.	0.3794E-00	48097.7	88.66	0.00828
2900.	0.3780E-00	48343.8	88.75	0.00855
2910.	0.3766E-00	48591.6	88.84	0.00884
2920.	0.3752E-00	48841.3	88.93	0.00913
2930.	0.3738E-00	49092.8	89.03	0.00943
2940.	0.3724E-00	49346.2	89.12	0.00974
2950.	0.3710E-00	49601.5	89.22	0.01005
2960.	0.3697E-00	49858.7	89.31	0.01038
2970.	0.3683E-00	50117.9	89.41	0.01071
2980.	0.3669E-00	50379.1	89.50	0.01105
2990.	0.3656E-00	50642.3	89.60	0.01139
3000.	0.3642E-00	50907.6	89.69	0.01175

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.1102E 02	1036.2	31.53	0.
110.	0.9923E 01	1185.2	32.94	0.
120.	0.9042E 01	1339.8	34.29	0.
130.	0.8313E 01	1499.4	35.57	0.
140.	0.7699E 01	1662.8	36.78	0.
150.	0.7173E 01	1828.7	37.92	0.
160.	0.6718E 01	1995.8	39.00	0.
170.	0.6318E 01	2163.2	40.02	0.
180.	0.5965E 01	2330.0	40.97	0.
190.	0.5651E 01	2495.5	41.86	0.
200.	0.5369E 01	2659.6	42.71	0.
210.	0.5114E 01	2821.9	43.50	0.
220.	0.4883E 01	2982.4	44.24	0.
230.	0.4672E 01	3141.2	44.95	0.
240.	0.4479E 01	3298.2	45.62	0.
250.	0.4301E 01	3453.7	46.25	0.
260.	0.4138E 01	3607.8	46.86	0.
270.	0.3986E 01	3760.6	47.43	0.
280.	0.3846E 01	3912.4	47.99	0.
290.	0.3715E 01	4063.1	48.51	0.
300.	0.3592E 01	4213.1	49.02	0.
310.	0.3478E 01	4362.3	49.51	0.
320.	0.3371E 01	4510.9	49.98	0.
330.	0.3270E 01	4658.9	50.44	0.
340.	0.3175E 01	4806.6	50.88	0.
350.	0.3086E 01	4953.8	51.31	0.
360.	0.3001E 01	5100.8	51.72	0.
370.	0.2921E 01	5247.5	52.12	0.
380.	0.2846E 01	5394.0	52.51	0.
390.	0.2774E 01	5540.4	52.89	0.
400.	0.2705E 01	5686.6	53.26	0.
410.	0.2640E 01	5832.7	53.63	0.
420.	0.2578E 01	5978.7	53.98	0.
430.	0.2519E 01	6124.6	54.32	0.
440.	0.2463E 01	6270.5	54.66	0.
450.	0.2409E 01	6416.3	54.98	0.
460.	0.2357E 01	6562.1	55.30	0.
470.	0.2308E 01	6707.8	55.62	0.
480.	0.2260E 01	6853.5	55.92	0.
490.	0.2215E 01	6999.2	56.22	0.
500.	0.2171E 01	7144.9	56.52	0.
510.	0.2129E 01	7290.6	56.81	0.
520.	0.2089E 01	7436.2	57.09	0.
530.	0.2050E 01	7581.9	57.37	0.
540.	0.2012E 01	7727.5	57.64	0.
550.	0.1976E 01	7873.1	57.91	0.
560.	0.1941E 01	8018.8	58.17	0.
570.	0.1908E 01	8164.4	58.43	0.
580.	0.1875E 01	8310.1	58.68	0.
590.	0.1844E 01	8455.8	58.93	0.

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.1814E 01	8600.9	61.49	0.
610.	0.1784E 01	8746.6	61.73	0.
620.	0.1756E 01	8892.3	61.97	0.
630.	0.1728E 01	9038.1	62.20	0.
640.	0.1702E 01	9183.9	62.43	0.
650.	0.1676E 01	9329.8	62.66	0.
660.	0.1651E 01	9475.7	62.88	0.
670.	0.1626E 01	9621.6	63.10	0.
680.	0.1603E 01	9767.7	63.32	0.
690.	0.1580E 01	9913.8	63.53	0.
700.	0.1557E 01	10059.9	63.74	0.
710.	0.1536E 01	10206.2	63.95	0.
720.	0.1515E 01	10352.6	64.15	0.
730.	0.1494E 01	10499.0	64.36	0.
740.	0.1474E 01	10645.6	64.55	0.
750.	0.1455E 01	10792.2	64.75	0.
760.	0.1436E 01	10939.0	64.95	0.
770.	0.1417E 01	11085.8	65.14	0.
780.	0.1399E 01	11232.8	65.33	0.
790.	0.1382E 01	11379.9	65.51	0.
800.	0.1365E 01	11527.0	65.70	0.
810.	0.1348E 01	11674.3	65.88	0.
820.	0.1332E 01	11821.8	66.06	0.
830.	0.1316E 01	11969.3	66.24	0.
840.	0.1300E 01	12116.9	66.42	0.
850.	0.1285E 01	12264.7	66.59	0.
860.	0.1271E 01	12412.6	66.77	0.
870.	0.1256E 01	12560.6	66.94	0.
880.	0.1242E 01	12708.8	67.11	0.
890.	0.1228E 01	12857.0	67.28	0.
900.	0.1215E 01	13005.5	67.44	0.
910.	0.1201E 01	13154.0	67.61	0.
920.	0.1188E 01	13302.7	67.77	0.
930.	0.1176E 01	13451.5	67.93	0.
940.	0.1163E 01	13600.5	68.09	0.
950.	0.1151E 01	13749.6	68.25	0.
960.	0.1139E 01	13898.8	68.40	0.
970.	0.1128E 01	14048.2	68.56	0.
980.	0.1116E 01	14197.8	68.71	0.
990.	0.1105E 01	14347.5	68.86	0.
1000.	0.1094E 01	14497.3	69.01	0.
1010.	0.1083E 01	14647.3	69.16	0.
1020.	0.1073E 01	14797.5	69.31	0.
1030.	0.1063E 01	14947.8	69.46	0.
1040.	0.1053E 01	15098.3	69.60	0.
1050.	0.1043E 01	15248.9	69.75	0.
1060.	0.1033E 01	15399.7	69.89	0.
1070.	0.1023E 01	15550.7	70.03	0.
1080.	0.1014E 01	15701.8	70.17	0.
1090.	0.1005E 01	15853.2	70.31	0.

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.9956E 00	16004.7	70.45	0.
1110.	0.9867E 00	16156.3	70.59	0.
1120.	0.9780E 00	16308.2	70.72	0.
1130.	0.9694E 00	16460.2	70.86	0.
1140.	0.9609E 00	16612.4	70.99	0.
1150.	0.9526E 00	16764.8	71.12	0.
1160.	0.9445E 00	16917.4	71.26	0.
1170.	0.9365E 00	17070.1	71.39	0.
1180.	0.9286E 00	17223.1	71.52	0.
1190.	0.9209E 00	17376.3	71.65	0.
1200.	0.9133E 00	17529.6	71.78	0.
1210.	0.9058E 00	17683.1	71.90	0.
1220.	0.8984E 00	17836.9	72.03	0.
1230.	0.8912E 00	17990.8	72.16	0.
1240.	0.8840E 00	18145.0	72.28	0.
1250.	0.8770E 00	18299.3	72.40	0.
1260.	0.8701E 00	18453.9	72.53	0.
1270.	0.8633E 00	18608.6	72.65	0.
1280.	0.8566E 00	18763.6	72.77	0.
1290.	0.8500E 00	18918.8	72.89	0.
1300.	0.8435E 00	19074.2	73.01	0.
1310.	0.8371E 00	19229.8	73.13	0.
1320.	0.8308E 00	19385.6	73.25	0.
1330.	0.8246E 00	19541.7	73.37	0.
1340.	0.8185E 00	19698.0	73.48	0.
1350.	0.8125E 00	19854.5	73.60	0.
1360.	0.8066E 00	20011.2	73.72	0.
1370.	0.8007E 00	20168.2	73.83	0.
1380.	0.7950E 00	20325.4	73.95	0.
1390.	0.7893E 00	20482.8	74.06	0.
1400.	0.7837E 00	20640.5	74.17	0.
1410.	0.7782E 00	20798.4	74.29	0.
1420.	0.7727E 00	20956.5	74.40	0.
1430.	0.7674E 00	21114.9	74.51	0.
1440.	0.7621E 00	21273.5	74.62	0.
1450.	0.7569E 00	21432.4	74.73	0.
1460.	0.7517E 00	21591.5	74.84	0.
1470.	0.7466E 00	21750.9	74.95	0.
1480.	0.7416E 00	21910.5	75.05	0.
1490.	0.7367E 00	22070.4	75.16	0.
1500.	0.7370E 00	22201.1	75.28	0.00000
1510.	0.7321E 00	22361.5	75.39	0.00000
1520.	0.7273E 00	22522.1	75.49	0.00000
1530.	0.7226E 00	22682.9	75.60	0.00000
1540.	0.7179E 00	22843.9	75.70	0.00000
1550.	0.7132E 00	23005.2	75.81	0.00000
1560.	0.7087E 00	23166.6	75.91	0.00000
1570.	0.7042E 00	23328.3	76.02	0.00000
1580.	0.6997E 00	23490.2	76.12	0.00000
1590.	0.6953E 00	23652.3	76.22	0.00000

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.6910E 00	23814.7	76.32	0.00000
1610.	0.6867E 00	23977.2	76.42	0.00000
1620.	0.6824E 00	24140.0	76.52	0.00000
1630.	0.6782E 00	24303.0	76.62	0.00001
1640.	0.6741E 00	24466.2	76.72	0.00001
1650.	0.6700E 00	24629.6	76.82	0.00001
1660.	0.6660E 00	24793.3	76.92	0.00001
1670.	0.6620E 00	24957.2	77.02	0.00001
1680.	0.6580E 00	25121.2	77.12	0.00001
1690.	0.6542E 00	25285.5	77.22	0.00001
1700.	0.6503E 00	25450.1	77.31	0.00001
1710.	0.6465E 00	25614.8	77.41	0.00001
1720.	0.6427E 00	25779.8	77.51	0.00001
1730.	0.6390E 00	25945.0	77.60	0.00001
1740.	0.6354E 00	26110.4	77.70	0.00002
1750.	0.6317E 00	26276.0	77.79	0.00002
1760.	0.6281E 00	26441.8	77.89	0.00002
1770.	0.6246E 00	26607.9	77.98	0.00002
1780.	0.6211E 00	26774.2	78.08	0.00002
1790.	0.6176E 00	26940.8	78.17	0.00002
1800.	0.6142E 00	27107.5	78.26	0.00003
1810.	0.6108E 00	27274.5	78.36	0.00003
1820.	0.6074E 00	27441.7	78.45	0.00003
1830.	0.6041E 00	27609.2	78.54	0.00003
1840.	0.6008E 00	27776.9	78.63	0.00004
1850.	0.5976E 00	27944.8	78.72	0.00004
1860.	0.5943E 00	28113.0	78.81	0.00004
1870.	0.5912E 00	28281.4	78.90	0.00005
1880.	0.5880E 00	28450.0	78.99	0.00005
1890.	0.5849E 00	28618.9	79.08	0.00005
1900.	0.5818E 00	28788.1	79.17	0.00006
1910.	0.5788E 00	28957.5	79.26	0.00006
1920.	0.5758E 00	29127.1	79.35	0.00007
1930.	0.5728E 00	29297.0	79.44	0.00007
1940.	0.5698E 00	29467.2	79.53	0.00008
1950.	0.5669E 00	29637.6	79.62	0.00009
1960.	0.5640E 00	29808.3	79.70	0.00009
1970.	0.5611E 00	29979.3	79.79	0.00010
1980.	0.5583E 00	30150.5	79.88	0.00011
1990.	0.5555E 00	30322.0	79.97	0.00011
2000.	0.5527E 00	30493.8	80.05	0.00012
2010.	0.5499E 00	30665.9	80.14	0.00013
2020.	0.5472E 00	30838.3	80.22	0.00014
2030.	0.5445E 00	31011.0	80.31	0.00015
2040.	0.5418E 00	31183.9	80.40	0.00016
2050.	0.5392E 00	31357.2	80.48	0.00017
2060.	0.5366E 00	31530.8	80.57	0.00018
2070.	0.5340E 00	31704.7	80.65	0.00019
2080.	0.5314E 00	31878.9	80.74	0.00020
2090.	0.5288E 00	32053.5	80.82	0.00022

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.5263E 00	32228.4	80.90	0.00023
2110.	0.5238E 00	32403.6	80.99	0.00025
2120.	0.5213E 00	32579.2	81.07	0.00026
2130.	0.5189E 00	32755.1	81.16	0.00028
2140.	0.5165E 00	32931.4	81.24	0.00030
2150.	0.5140E 00	33108.1	81.32	0.00031
2160.	0.5117E 00	33285.1	81.41	0.00033
2170.	0.5093E 00	33462.6	81.49	0.00035
2180.	0.5069E 00	33640.4	81.57	0.00037
2190.	0.5046E 00	33818.6	81.65	0.00040
2200.	0.5023E 00	33997.2	81.74	0.00042
2210.	0.5000E 00	34176.3	81.82	0.00044
2220.	0.4978E-00	34355.7	81.90	0.00047
2230.	0.4955E-00	34535.6	81.98	0.00050
2240.	0.4933E-00	34716.0	82.07	0.00052
2250.	0.4911E-00	34896.8	82.15	0.00055
2260.	0.4889E-00	35078.1	82.23	0.00058
2270.	0.4867E-00	35259.8	82.31	0.00062
2280.	0.4846E-00	35442.1	82.39	0.00065
2290.	0.4824E-00	35624.8	82.48	0.00068
2300.	0.4803E-00	35808.1	82.56	0.00072
2310.	0.4782E-00	35991.8	82.64	0.00076
2320.	0.4761E-00	36176.1	82.72	0.00080
2330.	0.4741E-00	36361.0	82.80	0.00084
2340.	0.4720E-00	36546.4	82.88	0.00088
2350.	0.4700E-00	36732.4	82.96	0.00093
2360.	0.4680E-00	36918.9	83.04	0.00098
2370.	0.4660E-00	37106.1	83.13	0.00102
2380.	0.4640E-00	37293.8	83.21	0.00108
2390.	0.4620E-00	37482.2	83.29	0.00113
2400.	0.4601E-00	37671.3	83.37	0.00118
2410.	0.4582E-00	37860.9	83.45	0.00124
2420.	0.4562E-00	38051.3	83.53	0.00130
2430.	0.4543E-00	38242.3	83.61	0.00136
2440.	0.4524E-00	38434.1	83.69	0.00143
2450.	0.4506E-00	38626.5	83.78	0.00150
2460.	0.4487E-00	38819.7	83.86	0.00157
2470.	0.4469E-00	39013.6	83.94	0.00164
2480.	0.4450E-00	39208.3	84.02	0.00171
2490.	0.4432E-00	39403.7	84.10	0.00179
2500.	0.4414E-00	39600.0	84.18	0.00187
2510.	0.4396E-00	39797.1	84.27	0.00196
2520.	0.4378E-00	39995.0	84.35	0.00204
2530.	0.4360E-00	40193.8	84.43	0.00213
2540.	0.4343E-00	40393.4	84.51	0.00223
2550.	0.4325E-00	40593.9	84.59	0.00232
2560.	0.4308E-00	40795.4	84.68	0.00242
2570.	0.4291E-00	40997.7	84.76	0.00253
2580.	0.4274E-00	41201.0	84.84	0.00263
2590.	0.4257E-00	41405.3	84.92	0.00274

PRESSURE 45. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.4240E-00	41610.6	85.01	0.00286
2610.	0.4223E-00	41816.9	85.09	0.00298
2620.	0.4207E-00	42024.2	85.17	0.00310
2630.	0.4190E-00	42232.6	85.26	0.00322
2640.	0.4174E-00	42442.0	85.34	0.00335
2650.	0.4157E-00	42652.5	85.43	0.00349
2660.	0.4141E-00	42864.2	85.51	0.00363
2670.	0.4125E-00	43077.0	85.59	0.00377
2680.	0.4109E-00	43291.0	85.68	0.00392
2690.	0.4093E-00	43506.1	85.76	0.00407
2700.	0.4077E-00	43722.5	85.85	0.00423
2710.	0.4062E-00	43940.1	85.93	0.00439
2720.	0.4046E-00	44159.0	86.02	0.00456
2730.	0.4030E-00	44379.1	86.11	0.00473
2740.	0.4015E-00	44600.6	86.19	0.00491
2750.	0.4000E-00	44823.4	86.28	0.00509
2760.	0.3985E-00	45047.5	86.37	0.00528
2770.	0.3969E-00	45273.1	86.45	0.00547
2780.	0.3954E-00	45500.0	86.54	0.00567
2790.	0.3939E-00	45728.4	86.63	0.00588
2800.	0.3924E-00	45958.3	86.72	0.00609
2810.	0.3910E-00	46189.7	86.80	0.00631
2820.	0.3895E-00	46422.6	86.89	0.00653
2830.	0.3880E-00	46657.0	86.98	0.00676
2840.	0.3866E-00	46893.0	87.07	0.00700
2850.	0.3851E-00	47130.6	87.16	0.00724
2860.	0.3837E-00	47369.9	87.25	0.00749
2870.	0.3822E-00	47610.8	87.34	0.00774
2880.	0.3808E-00	47853.4	87.43	0.00801
2890.	0.3794E-00	48097.7	87.53	0.00828
2900.	0.3780E-00	48343.8	87.62	0.00855
2910.	0.3766E-00	48591.6	87.71	0.00884
2920.	0.3752E-00	48841.3	87.80	0.00913
2930.	0.3738E-00	49092.8	87.90	0.00943
2940.	0.3724E-00	49346.2	87.99	0.00974
2950.	0.3710E-00	49601.5	88.08	0.01005
2960.	0.3697E-00	49858.7	88.18	0.01038
2970.	0.3683E-00	50117.9	88.27	0.01071
2980.	0.3669E-00	50379.1	88.37	0.01105
2990.	0.3656E-00	50642.3	88.46	0.01139
3000.	0.3642E-00	50907.6	88.56	0.01175

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.1220E 02	1512.8	39.61	0.
110.	0.1099E 02	1637.9	40.80	0.
120.	0.1001E 02	1763.7	41.89	0.
130.	0.9200E 01	1890.8	42.91	0.
140.	0.8520E 01	2019.4	43.86	0.
150.	0.7938E 01	2149.7	44.76	0.
160.	0.7434E 01	2281.5	45.61	0.
170.	0.6993E 01	2414.9	46.42	0.
180.	0.6602E 01	2549.8	47.19	0.
190.	0.6255E 01	2686.0	47.93	0.
200.	0.5943E 01	2823.5	48.63	0.
210.	0.5661E 01	2962.0	49.31	0.
220.	0.5406E 01	3101.6	49.96	0.
230.	0.5173E 01	3242.0	50.58	0.
240.	0.4959E 01	3383.2	51.18	0.
250.	0.4763E 01	3525.1	51.76	0.
260.	0.4582E 01	3667.6	52.32	0.
270.	0.4415E 01	3810.6	52.86	0.
280.	0.4259E 01	3954.1	53.38	0.
290.	0.4115E 01	4098.0	53.89	0.
300.	0.3980E 01	4242.2	54.38	0.
310.	0.3853E 01	4386.6	54.85	0.
320.	0.3735E 01	4531.3	55.31	0.
330.	0.3623E 01	4676.1	55.76	0.
340.	0.3518E 01	4821.1	56.19	0.
350.	0.3419E 01	4966.2	56.61	0.
360.	0.3326E 01	5111.4	57.02	0.
370.	0.3237E 01	5256.6	57.42	0.
380.	0.3154E 01	5402.0	57.80	0.
390.	0.3074E 01	5547.3	58.18	0.
400.	0.2998E 01	5692.7	58.55	0.
410.	0.2926E 01	5838.1	58.91	0.
420.	0.2858E 01	5983.6	59.26	0.
430.	0.2793E 01	6129.0	59.60	0.
440.	0.2730E 01	6274.5	59.94	0.
450.	0.2670E 01	6420.0	60.26	0.
460.	0.2613E 01	6565.5	60.58	0.
470.	0.2558E 01	6711.0	60.90	0.
480.	0.2506E 01	6856.6	61.20	0.
490.	0.2456E 01	7002.1	61.50	0.
500.	0.2407E 01	7147.7	61.80	0.
510.	0.2361E 01	7293.3	62.08	0.
520.	0.2316E 01	7439.0	62.37	0.
530.	0.2273E 01	7584.6	62.64	0.
540.	0.2232E 01	7730.3	62.92	0.
550.	0.2192E 01	7876.0	63.18	0.
560.	0.2153E 01	8021.8	63.45	0.
570.	0.2116E 01	8167.6	63.70	0.
580.	0.2080E 01	8313.3	63.96	0.
590.	0.2045E 01	8459.1	64.21	0.

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.2011E 01	8604.4	64.45	0.
610.	0.1979E 01	8750.2	64.69	0.
620.	0.1947E 01	8895.9	64.93	0.
630.	0.1917E 01	9041.7	65.17	0.
640.	0.1887E 01	9187.6	65.39	0.
650.	0.1859E 01	9333.4	65.62	0.
660.	0.1831E 01	9479.4	65.84	0.
670.	0.1804E 01	9625.3	66.06	0.
680.	0.1778E 01	9771.4	66.28	0.
690.	0.1752E 01	9917.5	66.49	0.
700.	0.1728E 01	10063.7	66.70	0.
710.	0.1704E 01	10210.0	66.91	0.
720.	0.1680E 01	10356.4	67.12	0.
730.	0.1658E 01	10502.9	67.32	0.
740.	0.1635E 01	10649.4	67.52	0.
750.	0.1614E 01	10796.1	67.71	0.
760.	0.1593E 01	10942.9	67.91	0.
770.	0.1573E 01	11089.8	68.10	0.
780.	0.1553E 01	11236.7	68.29	0.
790.	0.1533E 01	11383.8	68.48	0.
800.	0.1514E 01	11531.0	68.66	0.
810.	0.1496E 01	11678.3	68.85	0.
820.	0.1478E 01	11825.7	69.03	0.
830.	0.1460E 01	11973.3	69.21	0.
840.	0.1443E 01	12121.0	69.38	0.
850.	0.1426E 01	12268.7	69.56	0.
860.	0.1410E 01	12416.6	69.73	0.
870.	0.1394E 01	12564.7	69.90	0.
880.	0.1378E 01	12712.8	70.07	0.
890.	0.1363E 01	12861.1	70.24	0.
900.	0.1348E 01	13009.6	70.40	0.
910.	0.1333E 01	13158.1	70.57	0.
920.	0.1319E 01	13306.8	70.73	0.
930.	0.1305E 01	13455.6	70.89	0.
940.	0.1291E 01	13604.6	71.05	0.
950.	0.1278E 01	13753.7	71.21	0.
960.	0.1264E 01	13903.0	71.36	0.
970.	0.1252E 01	14052.4	71.52	0.
980.	0.1239E 01	14202.0	71.67	0.
990.	0.1227E 01	14351.7	71.82	0.
1000.	0.1214E 01	14501.5	71.98	0.
1010.	0.1202E 01	14651.5	72.12	0.
1020.	0.1191E 01	14801.7	72.27	0.
1030.	0.1179E 01	14952.0	72.42	0.
1040.	0.1168E 01	15102.5	72.56	0.
1050.	0.1157E 01	15253.2	72.71	0.
1060.	0.1146E 01	15404.0	72.85	0.
1070.	0.1136E 01	15555.0	72.99	0.
1080.	0.1125E 01	15706.1	73.13	0.
1090.	0.1115E 01	15857.5	73.27	0.

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.1105E 01	16009.0	73.41	0.
1110.	0.1095E 01	16160.6	73.55	0.
1120.	0.1085E 01	16312.5	73.69	0.
1130.	0.1076E 01	16464.5	73.82	0.
1140.	0.1067E 01	16616.8	73.95	0.
1150.	0.1057E 01	16769.2	74.09	0.
1160.	0.1048E 01	16921.7	74.22	0.
1170.	0.1040E 01	17074.5	74.35	0.
1180.	0.1031E 01	17227.5	74.48	0.
1190.	0.1022E 01	17380.6	74.61	0.
1200.	0.1014E 01	17534.0	74.74	0.
1210.	0.1005E 01	17687.5	74.87	0.
1220.	0.9973E 00	17841.3	74.99	0.
1230.	0.9892E 00	17995.2	75.12	0.
1240.	0.9813E 00	18149.4	75.24	0.
1250.	0.9735E 00	18303.7	75.37	0.
1260.	0.9659E 00	18458.3	75.49	0.
1270.	0.9583E 00	18613.1	75.61	0.
1280.	0.9509E 00	18768.0	75.73	0.
1290.	0.9436E 00	18923.2	75.86	0.
1300.	0.9364E 00	19078.6	75.98	0.
1310.	0.9293E 00	19234.3	76.09	0.
1320.	0.9223E 00	19390.1	76.21	0.
1330.	0.9155E 00	19546.2	76.33	0.
1340.	0.9087E 00	19702.5	76.45	0.
1350.	0.9020E 00	19859.0	76.56	0.
1360.	0.8954E 00	20015.7	76.68	0.
1370.	0.8889E 00	20172.7	76.79	0.
1380.	0.8825E 00	20329.9	76.91	0.
1390.	0.8762E 00	20487.3	77.02	0.
1400.	0.8700E 00	20645.0	77.14	0.
1410.	0.8639E 00	20802.9	77.25	0.
1420.	0.8579E 00	20961.0	77.36	0.
1430.	0.8519E 00	21119.4	77.47	0.
1440.	0.8461E 00	21278.1	77.58	0.
1450.	0.8403E 00	21436.9	77.69	0.
1460.	0.8345E 00	21596.1	77.80	0.
1470.	0.8289E 00	21755.5	77.91	0.
1480.	0.8234E 00	21915.1	78.02	0.
1490.	0.8179E 00	22075.0	78.13	0.
1500.	0.8189E 00	22201.1	78.24	0.00000
1510.	0.8135E 00	22361.5	78.35	0.00000
1520.	0.8081E 00	22522.1	78.46	0.00000
1530.	0.8029E 00	22682.9	78.56	0.00000
1540.	0.7976E 00	22843.9	78.67	0.00000
1550.	0.7925E 00	23005.2	78.77	0.00000
1560.	0.7874E 00	23166.6	78.88	0.00000
1570.	0.7824E 00	23328.3	78.98	0.00000
1580.	0.7774E 00	23490.2	79.08	0.00000
1590.	0.7726E 00	23652.3	79.18	0.00000

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.7677E 00	23814.6	79.29	0.00000
1610.	0.7630E 00	23977.2	79.39	0.00000
1620.	0.7582E 00	24140.0	79.49	0.00000
1630.	0.7536E 00	24302.9	79.59	0.00001
1640.	0.7490E 00	24466.1	79.69	0.00001
1650.	0.7445E 00	24629.6	79.79	0.00001
1660.	0.7400E 00	24793.2	79.89	0.00001
1670.	0.7355E 00	24957.1	79.98	0.00001
1680.	0.7312E 00	25121.1	80.08	0.00001
1690.	0.7268E 00	25285.4	80.18	0.00001
1700.	0.7226E 00	25449.9	80.28	0.00001
1710.	0.7183E 00	25614.7	80.37	0.00001
1720.	0.7142E 00	25779.6	80.47	0.00001
1730.	0.7100E 00	25944.8	80.57	0.00001
1740.	0.7059E 00	26110.2	80.66	0.00002
1750.	0.7019E 00	26275.8	80.76	0.00002
1760.	0.6979E 00	26441.6	80.85	0.00002
1770.	0.6940E 00	26607.7	80.95	0.00002
1780.	0.6901E 00	26774.0	81.04	0.00002
1790.	0.6862E 00	26940.5	81.13	0.00002
1800.	0.6824E 00	27107.2	81.23	0.00003
1810.	0.6786E 00	27274.2	81.32	0.00003
1820.	0.6749E 00	27441.4	81.41	0.00003
1830.	0.6712E 00	27608.8	81.50	0.00003
1840.	0.6676E 00	27776.5	81.59	0.00004
1850.	0.6640E 00	27944.3	81.69	0.00004
1860.	0.6604E 00	28112.5	81.78	0.00004
1870.	0.6569E 00	28280.8	81.87	0.00004
1880.	0.6534E 00	28449.4	81.96	0.00005
1890.	0.6499E 00	28618.3	82.05	0.00005
1900.	0.6465E 00	28787.4	82.14	0.00006
1910.	0.6431E 00	28956.7	82.23	0.00006
1920.	0.6397E 00	29126.3	82.31	0.00007
1930.	0.6364E 00	29296.2	82.40	0.00007
1940.	0.6331E 00	29466.3	82.49	0.00008
1950.	0.6299E 00	29636.6	82.58	0.00008
1960.	0.6267E 00	29807.2	82.67	0.00009
1970.	0.6235E 00	29978.1	82.75	0.00009
1980.	0.6203E 00	30149.3	82.84	0.00010
1990.	0.6172E 00	30320.7	82.93	0.00011
2000.	0.6141E 00	30492.4	83.01	0.00011
2010.	0.6111E 00	30664.4	83.10	0.00012
2020.	0.6080E 00	30836.7	83.19	0.00013
2030.	0.6050E 00	31009.2	83.27	0.00014
2040.	0.6021E 00	31182.1	83.36	0.00015
2050.	0.5991E 00	31355.3	83.44	0.00016
2060.	0.5962E 00	31528.7	83.53	0.00017
2070.	0.5933E 00	31702.5	83.61	0.00018
2080.	0.5904E 00	31876.6	83.70	0.00019
2090.	0.5876E 00	32051.0	83.78	0.00021

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.5848E 00	32225.7	83.87	0.00022
2110.	0.5820E 00	32400.8	83.95	0.00023
2120.	0.5793E 00	32576.2	84.03	0.00025
2130.	0.5765E 00	32751.9	84.12	0.00026
2140.	0.5738E 00	32928.0	84.20	0.00028
2150.	0.5712E 00	33104.5	84.28	0.00030
2160.	0.5685E 00	33281.3	84.37	0.00032
2170.	0.5659E 00	33458.5	84.45	0.00034
2180.	0.5633E 00	33636.0	84.53	0.00035
2190.	0.5607E 00	33814.0	84.61	0.00038
2200.	0.5581E 00	33992.4	84.70	0.00040
2210.	0.5556E 00	34171.1	84.78	0.00042
2220.	0.5531E 00	34350.3	84.86	0.00045
2230.	0.5506E 00	34529.9	84.94	0.00047
2240.	0.5481E 00	34709.9	85.03	0.00050
2250.	0.5457E 00	34890.4	85.11	0.00052
2260.	0.5432E 00	35071.3	85.19	0.00055
2270.	0.5408E 00	35252.7	85.27	0.00058
2280.	0.5384E 00	35434.6	85.35	0.00062
2290.	0.5361E 00	35616.9	85.43	0.00065
2300.	0.5337E 00	35799.7	85.51	0.00068
2310.	0.5314E 00	35983.0	85.60	0.00072
2320.	0.5291E 00	36166.9	85.68	0.00076
2330.	0.5268E 00	36351.2	85.76	0.00080
2340.	0.5245E 00	36536.1	85.84	0.00084
2350.	0.5223E 00	36721.6	85.92	0.00088
2360.	0.5200E 00	36907.6	86.00	0.00093
2370.	0.5178E 00	37094.2	86.08	0.00097
2380.	0.5156E 00	37281.3	86.16	0.00102
2390.	0.5134E 00	37469.1	86.24	0.00107
2400.	0.5112E 00	37657.5	86.32	0.00112
2410.	0.5091E 00	37846.5	86.41	0.00118
2420.	0.5070E 00	38036.2	86.49	0.00123
2430.	0.5048E 00	38226.5	86.57	0.00129
2440.	0.5027E 00	38417.4	86.65	0.00136
2450.	0.5007E 00	38609.1	86.73	0.00142
2460.	0.4986E-00	38801.5	86.81	0.00149
2470.	0.4965E-00	38994.5	86.89	0.00155
2480.	0.4945E-00	39188.4	86.97	0.00163
2490.	0.4925E-00	39382.9	87.05	0.00170
2500.	0.4905E-00	39578.2	87.13	0.00178
2510.	0.4885E-00	39774.3	87.22	0.00186
2520.	0.4865E-00	39971.2	87.30	0.00194
2530.	0.4845E-00	40169.0	87.38	0.00202
2540.	0.4826E-00	40367.5	87.46	0.00211
2550.	0.4807E-00	40566.9	87.54	0.00220
2560.	0.4787E-00	40767.2	87.62	0.00230
2570.	0.4768E-00	40968.3	87.71	0.00240
2580.	0.4749E-00	41170.4	87.79	0.00250
2590.	0.4730E-00	41373.4	87.87	0.00260

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 25. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.4712E-00	41577.3	87.95	0.00271
2610.	0.4693E-00	41782.2	88.03	0.00282
2620.	0.4675E-00	41988.1	88.12	0.00294
2630.	0.4656E-00	42195.0	88.20	0.00306
2640.	0.4638E-00	42402.9	88.28	0.00318
2650.	0.4620E-00	42611.9	88.37	0.00331
2660.	0.4602E-00	42821.9	88.45	0.00344
2670.	0.4584E-00	43033.0	88.53	0.00358
2680.	0.4566E-00	43245.3	88.62	0.00372
2690.	0.4549E-00	43458.6	88.70	0.00386
2700.	0.4531E-00	43673.2	88.79	0.00401
2710.	0.4514E-00	43888.9	88.87	0.00417
2720.	0.4497E-00	44105.8	88.95	0.00433
2730.	0.4479E-00	44323.9	89.04	0.00449
2740.	0.4462E-00	44543.3	89.13	0.00466
2750.	0.4445E-00	44764.0	89.21	0.00483
2760.	0.4428E-00	44985.9	89.30	0.00501
2770.	0.4412E-00	45209.2	89.38	0.00519
2780.	0.4395E-00	45433.8	89.47	0.00538
2790.	0.4378E-00	45659.8	89.56	0.00558
2800.	0.4362E-00	45887.2	89.64	0.00578
2810.	0.4345E-00	46116.0	89.73	0.00598
2820.	0.4329E-00	46346.3	89.82	0.00620
2830.	0.4313E-00	46578.0	89.91	0.00641
2840.	0.4297E-00	46811.3	89.99	0.00664
2850.	0.4281E-00	47046.1	90.08	0.00687
2860.	0.4265E-00	47282.4	90.17	0.00710
2870.	0.4249E-00	47520.3	90.26	0.00735
2880.	0.4233E-00	47759.8	90.35	0.00760
2890.	0.4217E-00	48001.0	90.44	0.00785
2900.	0.4202E-00	48243.8	90.53	0.00812
2910.	0.4186E-00	48488.4	90.62	0.00839
2920.	0.4171E-00	48734.6	90.71	0.00866
2930.	0.4155E-00	48982.6	90.81	0.00895
2940.	0.4140E-00	49232.4	90.90	0.00924
2950.	0.4125E-00	49484.0	90.99	0.00954
2960.	0.4109E-00	49737.4	91.08	0.00984
2970.	0.4094E-00	49992.7	91.18	0.01016
2980.	0.4079E-00	50249.9	91.27	0.01048
2990.	0.4064E-00	50509.1	91.36	0.01081
3000.	0.4049E-00	50770.1	91.46	0.01115

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.1220E 02	1352.2	38.06	0.
110.	0.1099E 02	1485.7	39.33	0.
120.	0.1001E 02	1621.4	40.51	0.
130.	0.9200E 01	1759.5	41.62	0.
140.	0.8520E 01	1900.0	42.66	0.
150.	0.7938E 01	2042.2	43.64	0.
160.	0.7434E 01	2186.0	44.57	0.
170.	0.6993E 01	2330.8	45.45	0.
180.	0.6602E 01	2476.4	46.28	0.
190.	0.6255E 01	2622.5	47.07	0.
200.	0.5943E 01	2768.9	47.82	0.
210.	0.5661E 01	2915.5	48.54	0.
220.	0.5406E 01	3062.1	49.22	0.
230.	0.5173E 01	3208.7	49.87	0.
240.	0.4959E 01	3355.2	50.49	0.
250.	0.4763E 01	3501.7	51.09	0.
260.	0.4582E 01	3648.2	51.67	0.
270.	0.4415E 01	3794.5	52.22	0.
280.	0.4259E 01	3940.8	52.75	0.
290.	0.4115E 01	4087.0	53.26	0.
300.	0.3980E 01	4233.1	53.76	0.
310.	0.3853E 01	4379.2	54.24	0.
320.	0.3735E 01	4525.2	54.70	0.
330.	0.3623E 01	4671.1	55.15	0.
340.	0.3518E 01	4817.0	55.59	0.
350.	0.3419E 01	4962.9	56.01	0.
360.	0.3326E 01	5108.7	56.42	0.
370.	0.3237E 01	5254.4	56.82	0.
380.	0.3154E 01	5400.2	57.21	0.
390.	0.3074E 01	5545.9	57.59	0.
400.	0.2998E 01	5691.6	57.95	0.
410.	0.2926E 01	5837.2	58.31	0.
420.	0.2858E 01	5982.9	58.66	0.
430.	0.2793E 01	6128.5	59.01	0.
440.	0.2730E 01	6274.1	59.34	0.
450.	0.2670E 01	6419.7	59.67	0.
460.	0.2613E 01	6565.4	59.99	0.
470.	0.2558E 01	6711.0	60.30	0.
480.	0.2506E 01	6856.6	60.61	0.
490.	0.2456E 01	7002.2	60.91	0.
500.	0.2407E 01	7147.8	61.20	0.
510.	0.2361E 01	7293.5	61.49	0.
520.	0.2316E 01	7439.1	61.78	0.
530.	0.2273E 01	7584.8	62.05	0.
540.	0.2232E 01	7730.5	62.32	0.
550.	0.2192E 01	7876.2	62.59	0.
560.	0.2153E 01	8021.9	62.85	0.
570.	0.2116E 01	8167.7	63.11	0.
580.	0.2080E 01	8313.4	63.37	0.
590.	0.2045E 01	8459.2	63.62	0.

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.2011E 01	8604.4	63.32	0.
610.	0.1979E 01	8750.2	63.56	0.
620.	0.1947E 01	8895.9	63.80	0.
630.	0.1917E 01	9041.7	64.03	0.
640.	0.1887E 01	9187.6	64.26	0.
650.	0.1859E 01	9333.4	64.49	0.
660.	0.1831E 01	9479.4	64.71	0.
670.	0.1804E 01	9625.3	64.93	0.
680.	0.1778E 01	9771.4	65.15	0.
690.	0.1752E 01	9917.5	65.36	0.
700.	0.1728E 01	10063.7	65.57	0.
710.	0.1704E 01	10210.0	65.78	0.
720.	0.1680E 01	10356.4	65.98	0.
730.	0.1658E 01	10502.9	66.18	0.
740.	0.1635E 01	10649.4	66.38	0.
750.	0.1614E 01	10796.1	66.58	0.
760.	0.1593E 01	10942.9	66.78	0.
770.	0.1573E 01	11089.8	66.97	0.
780.	0.1553E 01	11236.7	67.16	0.
790.	0.1533E 01	11383.8	67.34	0.
800.	0.1514E 01	11531.0	67.53	0.
810.	0.1496E 01	11678.3	67.71	0.
820.	0.1478E 01	11825.7	67.89	0.
830.	0.1460E 01	11973.3	68.07	0.
840.	0.1443E 01	12121.0	68.25	0.
850.	0.1426E 01	12268.7	68.42	0.
860.	0.1410E 01	12416.6	68.60	0.
870.	0.1394E 01	12564.7	68.77	0.
880.	0.1378E 01	12712.8	68.94	0.
890.	0.1363E 01	12861.1	69.11	0.
900.	0.1348E 01	13009.6	69.27	0.
910.	0.1333E 01	13158.1	69.44	0.
920.	0.1319E 01	13306.8	69.60	0.
930.	0.1305E 01	13455.6	69.76	0.
940.	0.1291E 01	13604.6	69.92	0.
950.	0.1278E 01	13753.7	70.08	0.
960.	0.1264E 01	13903.0	70.23	0.
970.	0.1252E 01	14052.4	70.39	0.
980.	0.1239E 01	14202.0	70.54	0.
990.	0.1227E 01	14351.7	70.69	0.
1000.	0.1214E 01	14501.5	70.84	0.
1010.	0.1202E 01	14651.5	70.99	0.
1020.	0.1191E 01	14801.7	71.14	0.
1030.	0.1179E 01	14952.0	71.29	0.
1040.	0.1168E 01	15102.5	71.43	0.
1050.	0.1157E 01	15253.2	71.58	0.
1060.	0.1146E 01	15404.0	71.72	0.
1070.	0.1136E 01	15555.0	71.86	0.
1080.	0.1125E 01	15706.1	72.00	0.
1090.	0.1115E 01	15857.5	72.14	0.

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.1105E 01	16009.0	72.28	0.
1110.	0.1095E 01	16160.6	72.42	0.
1120.	0.1085E 01	16312.5	72.55	0.
1130.	0.1076E 01	16464.5	72.69	0.
1140.	0.1067E 01	16616.8	72.82	0.
1150.	0.1057E 01	16769.2	72.96	0.
1160.	0.1048E 01	16921.7	73.09	0.
1170.	0.1040E 01	17074.5	73.22	0.
1180.	0.1031E 01	17227.5	73.35	0.
1190.	0.1022E 01	17380.6	73.48	0.
1200.	0.1014E 01	17534.0	73.61	0.
1210.	0.1005E 01	17687.5	73.73	0.
1220.	0.9973E 00	17841.3	73.86	0.
1230.	0.9892E 00	17995.2	73.99	0.
1240.	0.9813E 00	18149.4	74.11	0.
1250.	0.9735E 00	18303.7	74.23	0.
1260.	0.9659E 00	18458.3	74.36	0.
1270.	0.9583E 00	18613.1	74.48	0.
1280.	0.9509E 00	18768.0	74.60	0.
1290.	0.9436E 00	18923.2	74.72	0.
1300.	0.9364E 00	19078.6	74.84	0.
1310.	0.9293E 00	19234.3	74.96	0.
1320.	0.9223E 00	19390.1	75.08	0.
1330.	0.9155E 00	19546.2	75.20	0.
1340.	0.9087E 00	19702.5	75.32	0.
1350.	0.9020E 00	19859.0	75.43	0.
1360.	0.8954E 00	20015.7	75.55	0.
1370.	0.8889E 00	20172.7	75.66	0.
1380.	0.8825E 00	20329.9	75.78	0.
1390.	0.8762E 00	20487.3	75.89	0.
1400.	0.8700E 00	20645.0	76.00	0.
1410.	0.8639E 00	20802.9	76.12	0.
1420.	0.8579E 00	20961.0	76.23	0.
1430.	0.8519E 00	21119.4	76.34	0.
1440.	0.8461E 00	21278.1	76.45	0.
1450.	0.8403E 00	21436.9	76.56	0.
1460.	0.8345E 00	21596.1	76.67	0.
1470.	0.8289E 00	21755.5	76.78	0.
1480.	0.8234E 00	21915.1	76.89	0.
1490.	0.8179E 00	22075.0	76.99	0.
1500.	0.8189E 00	22201.1	77.11	0.00000
1510.	0.8135E 00	22361.5	77.22	0.00000
1520.	0.8081E 00	22522.1	77.32	0.00000
1530.	0.8029E 00	22682.9	77.43	0.00000
1540.	0.7976E 00	22843.9	77.53	0.00000
1550.	0.7925E 00	23005.2	77.64	0.00000
1560.	0.7874E 00	23166.6	77.74	0.00000
1570.	0.7824E 00	23328.3	77.85	0.00000
1580.	0.7774E 00	23490.2	77.95	0.00000
1590.	0.7726E 00	23652.3	78.05	0.00000

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.7677E 00	23814.6	78.15	0.00000
1610.	0.7630E 00	23977.2	78.25	0.00000
1620.	0.7582E 00	24140.0	78.35	0.00000
1630.	0.7536E 00	24302.9	78.46	0.00001
1640.	0.7490E 00	24466.1	78.56	0.00001
1650.	0.7445E 00	24629.6	78.65	0.00001
1660.	0.7400E 00	24793.2	78.75	0.00001
1670.	0.7355E 00	24957.1	78.85	0.00001
1680.	0.7312E 00	25121.1	78.95	0.00001
1690.	0.7268E 00	25285.4	79.05	0.00001
1700.	0.7226E 00	25449.9	79.14	0.00001
1710.	0.7183E 00	25614.7	79.24	0.00001
1720.	0.7142E 00	25779.6	79.34	0.00001
1730.	0.7100E 00	25944.8	79.43	0.00001
1740.	0.7059E 00	26110.2	79.53	0.00002
1750.	0.7019E 00	26275.8	79.62	0.00002
1760.	0.6979E 00	26441.6	79.72	0.00002
1770.	0.6940E 00	26607.7	79.81	0.00002
1780.	0.6901E 00	26774.0	79.91	0.00002
1790.	0.6862E 00	26940.5	80.00	0.00002
1800.	0.6824E 00	27107.2	80.09	0.00003
1810.	0.6786E 00	27274.2	80.19	0.00003
1820.	0.6749E 00	27441.4	80.28	0.00003
1830.	0.6712E 00	27608.8	80.37	0.00003
1840.	0.6676E 00	27776.5	80.46	0.00004
1850.	0.6640E 00	27944.3	80.55	0.00004
1860.	0.6604E 00	28112.5	80.64	0.00004
1870.	0.6569E 00	28280.8	80.73	0.00004
1880.	0.6534E 00	28449.4	80.82	0.00005
1890.	0.6499E 00	28618.3	80.91	0.00005
1900.	0.6465E 00	28787.4	81.00	0.00006
1910.	0.6431E 00	28956.7	81.09	0.00006
1920.	0.6397E 00	29126.3	81.18	0.00007
1930.	0.6364E 00	29296.2	81.27	0.00007
1940.	0.6331E 00	29466.3	81.36	0.00008
1950.	0.6299E 00	29636.6	81.45	0.00008
1960.	0.6267E 00	29807.2	81.53	0.00009
1970.	0.6235E 00	29978.1	81.62	0.00009
1980.	0.6203E 00	30149.3	81.71	0.00010
1990.	0.6172E 00	30320.7	81.80	0.00011
2000.	0.6141E 00	30492.4	81.88	0.00011
2010.	0.6111E 00	30664.4	81.97	0.00012
2020.	0.6080E 00	30836.7	82.05	0.00013
2030.	0.6050E 00	31009.2	82.14	0.00014
2040.	0.6021E 00	31182.1	82.23	0.00015
2050.	0.5991E 00	31355.3	82.31	0.00016
2060.	0.5962E 00	31528.7	82.40	0.00017
2070.	0.5933E 00	31702.5	82.48	0.00018
2080.	0.5904E 00	31876.6	82.56	0.00019
2090.	0.5876E 00	32051.0	82.65	0.00021

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.5848E 00	32225.7	82.73	0.00022
2110.	0.5820E 00	32400.8	82.82	0.00023
2120.	0.5793E 00	32576.2	82.90	0.00025
2130.	0.5765E 00	32751.9	82.98	0.00026
2140.	0.5738E 00	32928.0	83.07	0.00028
2150.	0.5712E 00	33104.5	83.15	0.00030
2160.	0.5685E 00	33281.3	83.23	0.00032
2170.	0.5659E 00	33458.5	83.32	0.00034
2180.	0.5633E 00	33636.0	83.40	0.00035
2190.	0.5607E 00	33814.0	83.48	0.00038
2200.	0.5581E 00	33992.4	83.56	0.00040
2210.	0.5556E 00	34171.1	83.65	0.00042
2220.	0.5531E 00	34350.3	83.73	0.00045
2230.	0.5506E 00	34529.9	83.81	0.00047
2240.	0.5481E 00	34709.9	83.89	0.00050
2250.	0.5457E 00	34890.4	83.97	0.00052
2260.	0.5432E 00	35071.3	84.06	0.00055
2270.	0.5408E 00	35252.7	84.14	0.00058
2280.	0.5384E 00	35434.6	84.22	0.00062
2290.	0.5361E 00	35616.9	84.30	0.00065
2300.	0.5337E 00	35799.7	84.38	0.00068
2310.	0.5314E 00	35983.0	84.46	0.00072
2320.	0.5291E 00	36166.9	84.54	0.00076
2330.	0.5268E 00	36351.2	84.63	0.00080
2340.	0.5245E 00	36536.1	84.71	0.00084
2350.	0.5223E 00	36721.6	84.79	0.00088
2360.	0.5200E 00	36907.6	84.87	0.00093
2370.	0.5178E 00	37094.2	84.95	0.00097
2380.	0.5156E 00	37281.3	85.03	0.00102
2390.	0.5134E 00	37469.1	85.11	0.00107
2400.	0.5112E 00	37657.5	85.19	0.00112
2410.	0.5091E 00	37846.5	85.27	0.00118
2420.	0.5070E 00	38036.2	85.35	0.00123
2430.	0.5048E 00	38226.5	85.43	0.00129
2440.	0.5027E 00	38417.4	85.52	0.00136
2450.	0.5007E 00	38609.1	85.60	0.00142
2460.	0.4986E-00	38801.5	85.68	0.00149
2470.	0.4965E-00	38994.5	85.76	0.00155
2480.	0.4945E-00	39188.4	85.84	0.00163
2490.	0.4925E-00	39382.9	85.92	0.00170
2500.	0.4905E-00	39578.2	86.00	0.00178
2510.	0.4885E-00	39774.3	86.08	0.00186
2520.	0.4865E-00	39971.2	86.16	0.00194
2530.	0.4845E-00	40169.0	86.25	0.00202
2540.	0.4826E-00	40367.5	86.33	0.00211
2550.	0.4807E-00	40566.9	86.41	0.00220
2560.	0.4787E-00	40767.2	86.49	0.00230
2570.	0.4768E-00	40968.3	86.57	0.00240
2580.	0.4749E-00	41170.4	86.65	0.00250
2590.	0.4730E-00	41373.4	86.74	0.00260

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 50. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.4712E-00	41577.3	86.82	0.00271
2610.	0.4693E-00	41782.2	86.90	0.00282
2620.	0.4675E-00	41988.1	86.98	0.00294
2630.	0.4656E-00	42195.0	87.07	0.00306
2640.	0.4638E-00	42402.9	87.15	0.00318
2650.	0.4620E-00	42611.9	87.23	0.00331
2660.	0.4602E-00	42821.9	87.32	0.00344
2670.	0.4584E-00	43033.0	87.40	0.00358
2680.	0.4566E-00	43245.3	87.48	0.00372
2690.	0.4549E-00	43458.6	87.57	0.00386
2700.	0.4531E-00	43673.2	87.65	0.00401
2710.	0.4514E-00	43888.9	87.74	0.00417
2720.	0.4497E-00	44105.8	87.82	0.00433
2730.	0.4479E-00	44323.9	87.91	0.00449
2740.	0.4462E-00	44543.3	87.99	0.00466
2750.	0.4445E-00	44764.0	88.08	0.00483
2760.	0.4428E-00	44985.9	88.16	0.00501
2770.	0.4412E-00	45209.2	88.25	0.00519
2780.	0.4395E-00	45433.8	88.34	0.00538
2790.	0.4378E-00	45659.8	88.42	0.00558
2800.	0.4362E-00	45887.2	88.51	0.00578
2810.	0.4345E-00	46116.0	88.60	0.00598
2820.	0.4329E-00	46346.3	88.69	0.00620
2830.	0.4313E-00	46578.0	88.77	0.00641
2840.	0.4297E-00	46811.3	88.86	0.00664
2850.	0.4281E-00	47046.1	88.95	0.00687
2860.	0.4265E-00	47282.4	89.04	0.00710
2870.	0.4249E-00	47520.3	89.13	0.00735
2880.	0.4233E-00	47759.8	89.22	0.00760
2890.	0.4217E-00	48001.0	89.31	0.00785
2900.	0.4202E-00	48243.8	89.40	0.00812
2910.	0.4186E-00	48488.4	89.49	0.00839
2920.	0.4171E-00	48734.6	89.58	0.00866
2930.	0.4155E-00	48982.6	89.67	0.00895
2940.	0.4140E-00	49232.4	89.76	0.00924
2950.	0.4125E-00	49484.0	89.86	0.00954
2960.	0.4109E-00	49737.4	89.95	0.00984
2970.	0.4094E-00	49992.7	90.04	0.01016
2980.	0.4079E-00	50249.9	90.14	0.01048
2990.	0.4064E-00	50509.1	90.23	0.01081
3000.	0.4049E-00	50770.1	90.33	0.01115

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.1220E 02	1191.6	35.44	0.
110.	0.1099E 02	1333.4	36.79	0.
120.	0.1001E 02	1479.0	38.06	0.
130.	0.9200E 01	1628.3	39.25	0.
140.	0.8520E 01	1780.5	40.38	0.
150.	0.7938E 01	1934.8	41.44	0.
160.	0.7434E 01	2090.4	42.45	0.
170.	0.6993E 01	2246.7	43.40	0.
180.	0.6602E 01	2403.1	44.29	0.
190.	0.6255E 01	2559.0	45.13	0.
200.	0.5943E 01	2714.4	45.93	0.
210.	0.5661E 01	2869.0	46.68	0.
220.	0.5406E 01	3022.6	47.40	0.
230.	0.5173E 01	3175.4	48.08	0.
240.	0.4959E 01	3327.3	48.72	0.
250.	0.4763E 01	3478.4	49.34	0.
260.	0.4582E 01	3628.7	49.93	0.
270.	0.4415E 01	3778.3	50.50	0.
280.	0.4259E 01	3927.4	51.04	0.
290.	0.4115E 01	4075.9	51.56	0.
300.	0.3980E 01	4224.0	52.06	0.
310.	0.3853E 01	4371.7	52.54	0.
320.	0.3735E 01	4519.1	53.01	0.
330.	0.3623E 01	4666.1	53.47	0.
340.	0.3518E 01	4812.9	53.90	0.
350.	0.3419E 01	4959.5	54.33	0.
360.	0.3326E 01	5106.0	54.74	0.
370.	0.3237E 01	5252.2	55.14	0.
380.	0.3154E 01	5398.4	55.53	0.
390.	0.3074E 01	5544.5	55.91	0.
400.	0.2998E 01	5690.4	56.28	0.
410.	0.2926E 01	5836.3	56.64	0.
420.	0.2858E 01	5982.2	56.99	0.
430.	0.2793E 01	6128.0	57.34	0.
440.	0.2730E 01	6273.8	57.67	0.
450.	0.2670E 01	6419.5	58.00	0.
460.	0.2613E 01	6565.2	58.32	0.
470.	0.2558E 01	6710.9	58.63	0.
480.	0.2506E 01	6856.6	58.94	0.
490.	0.2456E 01	7002.3	59.24	0.
500.	0.2407E 01	7148.0	59.53	0.
510.	0.2361E 01	7293.7	59.82	0.
520.	0.2316E 01	7439.3	60.10	0.
530.	0.2273E 01	7585.0	60.38	0.
540.	0.2232E 01	7730.7	60.65	0.
550.	0.2192E 01	7876.4	60.92	0.
560.	0.2153E 01	8022.1	61.18	0.
570.	0.2116E 01	8167.8	61.44	0.
580.	0.2080E 01	8313.5	61.70	0.
590.	0.2045E 01	8459.2	61.94	0.

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.2011E 01	8604.4	62.19	0.
610.	0.1979E 01	8750.2	62.43	0.
620.	0.1947E 01	8895.9	62.67	0.
630.	0.1917E 01	9041.7	62.90	0.
640.	0.1887E 01	9187.6	63.13	0.
650.	0.1859E 01	9333.4	63.36	0.
660.	0.1831E 01	9479.4	63.58	0.
670.	0.1804E 01	9625.3	63.80	0.
680.	0.1778E 01	9771.4	64.01	0.
690.	0.1752E 01	9917.5	64.23	0.
700.	0.1728E 01	10063.7	64.44	0.
710.	0.1704E 01	10210.0	64.65	0.
720.	0.1680E 01	10356.4	64.85	0.
730.	0.1658E 01	10502.9	65.05	0.
740.	0.1635E 01	10649.4	65.25	0.
750.	0.1614E 01	10796.1	65.45	0.
760.	0.1593E 01	10942.9	65.64	0.
770.	0.1573E 01	11089.8	65.83	0.
780.	0.1553E 01	11236.7	66.02	0.
790.	0.1533E 01	11383.8	66.21	0.
800.	0.1514E 01	11531.0	66.40	0.
810.	0.1496E 01	11678.3	66.58	0.
820.	0.1478E 01	11825.7	66.76	0.
830.	0.1460E 01	11973.3	66.94	0.
840.	0.1443E 01	12121.0	67.12	0.
850.	0.1426E 01	12268.7	67.29	0.
860.	0.1410E 01	12416.6	67.46	0.
870.	0.1394E 01	12564.7	67.64	0.
880.	0.1378E 01	12712.8	67.81	0.
890.	0.1363E 01	12861.1	67.97	0.
900.	0.1348E 01	13009.6	68.14	0.
910.	0.1333E 01	13158.1	68.30	0.
920.	0.1319E 01	13306.8	68.47	0.
930.	0.1305E 01	13455.6	68.63	0.
940.	0.1291E 01	13604.6	68.79	0.
950.	0.1278E 01	13753.7	68.94	0.
960.	0.1264E 01	13903.0	69.10	0.
970.	0.1252E 01	14052.4	69.25	0.
980.	0.1239E 01	14202.0	69.41	0.
990.	0.1227E 01	14351.7	69.56	0.
1000.	0.1214E 01	14501.5	69.71	0.
1010.	0.1202E 01	14651.5	69.86	0.
1020.	0.1191E 01	14801.7	70.01	0.
1030.	0.1179E 01	14952.0	70.15	0.
1040.	0.1168E 01	15102.5	70.30	0.
1050.	0.1157E 01	15253.2	70.44	0.
1060.	0.1146E 01	15404.0	70.59	0.
1070.	0.1136E 01	15555.0	70.73	0.
1080.	0.1125E 01	15706.1	70.87	0.
1090.	0.1115E 01	15857.5	71.01	0.

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.1105E 01	16009.0	71.15	0.
1110.	0.1095E 01	16160.6	71.28	0.
1120.	0.1085E 01	16312.5	71.42	0.
1130.	0.1076E 01	16464.5	71.56	0.
1140.	0.1067E 01	16616.8	71.69	0.
1150.	0.1057E 01	16769.2	71.82	0.
1160.	0.1048E 01	16921.7	71.95	0.
1170.	0.1040E 01	17074.5	72.09	0.
1180.	0.1031E 01	17227.5	72.22	0.
1190.	0.1022E 01	17380.6	72.35	0.
1200.	0.1014E 01	17534.0	72.47	0.
1210.	0.1005E 01	17687.5	72.60	0.
1220.	0.9973E 00	17841.3	72.73	0.
1230.	0.9892E 00	17995.2	72.85	0.
1240.	0.9813E 00	18149.4	72.98	0.
1250.	0.9735E 00	18303.7	73.10	0.
1260.	0.9659E 00	18458.3	73.23	0.
1270.	0.9583E 00	18613.1	73.35	0.
1280.	0.9509E 00	18768.0	73.47	0.
1290.	0.9436E 00	18923.2	73.59	0.
1300.	0.9364E 00	19078.6	73.71	0.
1310.	0.9293E 00	19234.3	73.83	0.
1320.	0.9223E 00	19390.1	73.95	0.
1330.	0.9155E 00	19546.2	74.07	0.
1340.	0.9087E 00	19702.5	74.18	0.
1350.	0.9020E 00	19859.0	74.30	0.
1360.	0.8954E 00	20015.7	74.41	0.
1370.	0.8889E 00	20172.7	74.53	0.
1380.	0.8825E 00	20329.9	74.64	0.
1390.	0.8762E 00	20487.3	74.76	0.
1400.	0.8700E 00	20645.0	74.87	0.
1410.	0.8639E 00	20802.9	74.98	0.
1420.	0.8579E 00	20961.0	75.09	0.
1430.	0.8519E 00	21119.4	75.21	0.
1440.	0.8461E 00	21278.1	75.32	0.
1450.	0.8403E 00	21436.9	75.43	0.
1460.	0.8345E 00	21596.1	75.54	0.
1470.	0.8289E 00	21755.5	75.64	0.
1480.	0.8234E 00	21915.1	75.75	0.
1490.	0.8179E 00	22075.0	75.86	0.
1500.	0.8189E 00	22201.1	75.98	0.00000
1510.	0.8135E 00	22361.5	76.09	0.00000
1520.	0.8081E 00	22522.1	76.19	0.00000
1530.	0.8029E 00	22682.9	76.30	0.00000
1540.	0.7976E 00	22843.9	76.40	0.00000
1550.	0.7925E 00	23005.2	76.51	0.00000
1560.	0.7874E 00	23166.6	76.61	0.00000
1570.	0.7824E 00	23328.3	76.71	0.00000
1580.	0.7774E 00	23490.2	76.82	0.00000
1590.	0.7726E 00	23652.3	76.92	0.00000

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.7677E 00	23814.6	77.02	0.00000
1610.	0.7630E 00	23977.2	77.12	0.00000
1620.	0.7582E 00	24140.0	77.22	0.00000
1630.	0.7536E 00	24302.9	77.32	0.00001
1640.	0.7490E 00	24466.1	77.42	0.00001
1650.	0.7445E 00	24629.6	77.52	0.00001
1660.	0.7400E 00	24793.2	77.62	0.00001
1670.	0.7355E 00	24957.1	77.72	0.00001
1680.	0.7312E 00	25121.1	77.82	0.00001
1690.	0.7268E 00	25285.4	77.91	0.00001
1700.	0.7226E 00	25449.9	78.01	0.00001
1710.	0.7183E 00	25614.7	78.11	0.00001
1720.	0.7142E 00	25779.6	78.20	0.00001
1730.	0.7100E 00	25944.8	78.30	0.00001
1740.	0.7059E 00	26110.2	78.40	0.00002
1750.	0.7019E 00	26275.8	78.49	0.00002
1760.	0.6979E 00	26441.6	78.59	0.00002
1770.	0.6940E 00	26607.7	78.68	0.00002
1780.	0.6901E 00	26774.0	78.77	0.00002
1790.	0.6862E 00	26940.5	78.87	0.00002
1800.	0.6824E 00	27107.2	78.96	0.00003
1810.	0.6786E 00	27274.2	79.05	0.00003
1820.	0.6749E 00	27441.4	79.15	0.00003
1830.	0.6712E 00	27608.8	79.24	0.00003
1840.	0.6676E 00	27776.5	79.33	0.00004
1850.	0.6640E 00	27944.3	79.42	0.00004
1860.	0.6604E 00	28112.5	79.51	0.00004
1870.	0.6569E 00	28280.8	79.60	0.00004
1880.	0.6534E 00	28449.4	79.69	0.00005
1890.	0.6499E 00	28618.3	79.78	0.00005
1900.	0.6465E 00	28787.4	79.87	0.00006
1910.	0.6431E 00	28956.7	79.96	0.00006
1920.	0.6397E 00	29126.3	80.05	0.00007
1930.	0.6364E 00	29296.2	80.14	0.00007
1940.	0.6331E 00	29466.3	80.23	0.00008
1950.	0.6299E 00	29636.6	80.31	0.00008
1960.	0.6267E 00	29807.2	80.40	0.00009
1970.	0.6235E 00	29978.1	80.49	0.00009
1980.	0.6203E 00	30149.3	80.58	0.00010
1990.	0.6172E 00	30320.7	80.66	0.00011
2000.	0.6141E 00	30492.4	80.75	0.00011
2010.	0.6111E 00	30664.4	80.84	0.00012
2020.	0.6080E 00	30836.7	80.92	0.00013
2030.	0.6050E 00	31009.2	81.01	0.00014
2040.	0.6021E 00	31182.1	81.09	0.00015
2050.	0.5991E 00	31355.3	81.18	0.00016
2060.	0.5962E 00	31528.7	81.26	0.00017
2070.	0.5933E 00	31702.5	81.35	0.00018
2080.	0.5904E 00	31876.6	81.43	0.00019
2090.	0.5876E 00	32051.0	81.52	0.00021

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.5848E 00	32225.7	81.60	0.00022
2110.	0.5820E 00	32400.8	81.68	0.00023
2120.	0.5793E 00	32576.2	81.77	0.00025
2130.	0.5765E 00	32751.9	81.85	0.00026
2140.	0.5738E 00	32928.0	81.94	0.00028
2150.	0.5712E 00	33104.5	82.02	0.00030
2160.	0.5685E 00	33281.3	82.10	0.00032
2170.	0.5659E 00	33458.5	82.18	0.00034
2180.	0.5633E 00	33636.0	82.27	0.00035
2190.	0.5607E 00	33814.0	82.35	0.00038
2200.	0.5581E 00	33992.4	82.43	0.00040
2210.	0.5556E 00	34171.1	82.51	0.00042
2220.	0.5531E 00	34350.3	82.60	0.00045
2230.	0.5506E 00	34529.9	82.68	0.00047
2240.	0.5481E 00	34709.9	82.76	0.00050
2250.	0.5457E 00	34890.4	82.84	0.00052
2260.	0.5432E 00	35071.3	82.92	0.00055
2270.	0.5408E 00	35252.7	83.00	0.00058
2280.	0.5384E 00	35434.6	83.09	0.00062
2290.	0.5361E 00	35616.9	83.17	0.00065
2300.	0.5337E 00	35799.7	83.25	0.00068
2310.	0.5314E 00	35983.0	83.33	0.00072
2320.	0.5291E 00	36166.9	83.41	0.00076
2330.	0.5268E 00	36351.2	83.49	0.00080
2340.	0.5245E 00	36536.1	83.57	0.00084
2350.	0.5223E 00	36721.6	83.65	0.00088
2360.	0.5200E 00	36907.6	83.74	0.00093
2370.	0.5178E 00	37094.2	83.82	0.00097
2380.	0.5156E 00	37281.3	83.90	0.00102
2390.	0.5134E 00	37469.1	83.98	0.00107
2400.	0.5112E 00	37657.5	84.06	0.00112
2410.	0.5091E 00	37846.5	84.14	0.00118
2420.	0.5070E 00	38036.2	84.22	0.00123
2430.	0.5048E 00	38226.5	84.30	0.00129
2440.	0.5027E 00	38417.4	84.38	0.00136
2450.	0.5007E 00	38609.1	84.46	0.00142
2460.	0.4986E-00	38801.5	84.54	0.00149
2470.	0.4965E-00	38994.5	84.63	0.00155
2480.	0.4945E-00	39188.4	84.71	0.00163
2490.	0.4925E-00	39382.9	84.79	0.00170
2500.	0.4905E-00	39578.2	84.87	0.00178
2510.	0.4885E-00	39774.3	84.95	0.00186
2520.	0.4865E-00	39971.2	85.03	0.00194
2530.	0.4845E-00	40169.0	85.11	0.00202
2540.	0.4826E-00	40367.5	85.19	0.00211
2550.	0.4807E-00	40566.9	85.28	0.00220
2560.	0.4787E-00	40767.2	85.36	0.00230
2570.	0.4768E-00	40968.3	85.44	0.00240
2580.	0.4749E-00	41170.4	85.52	0.00250
2590.	0.4730E-00	41373.4	85.60	0.00260

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 75. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.4712E-00	41577.3	85.69	0.00271
2610.	0.4693E-00	41782.2	85.77	0.00282
2620.	0.4675E-00	41988.1	85.85	0.00294
2630.	0.4656E-00	42195.0	85.93	0.00306
2640.	0.4638E-00	42402.9	86.02	0.00318
2650.	0.4620E-00	42611.9	86.10	0.00331
2660.	0.4602E-00	42821.9	86.18	0.00344
2670.	0.4584E-00	43033.0	86.27	0.00358
2680.	0.4566E-00	43245.3	86.35	0.00372
2690.	0.4549E-00	43458.6	86.44	0.00386
2700.	0.4531E-00	43673.2	86.52	0.00401
2710.	0.4514E-00	43888.9	86.60	0.00417
2720.	0.4497E-00	44105.8	86.69	0.00433
2730.	0.4479E-00	44323.9	86.77	0.00449
2740.	0.4462E-00	44543.3	86.86	0.00466
2750.	0.4445E-00	44764.0	86.95	0.00483
2760.	0.4428E-00	44985.9	87.03	0.00501
2770.	0.4412E-00	45209.2	87.12	0.00519
2780.	0.4395E-00	45433.8	87.20	0.00538
2790.	0.4378E-00	45659.8	87.29	0.00558
2800.	0.4362E-00	45887.2	87.38	0.00578
2810.	0.4345E-00	46116.0	87.46	0.00598
2820.	0.4329E-00	46346.3	87.55	0.00620
2830.	0.4313E-00	46578.0	87.64	0.00641
2840.	0.4297E-00	46811.3	87.73	0.00664
2850.	0.4281E-00	47046.1	87.82	0.00687
2860.	0.4265E-00	47282.4	87.91	0.00710
2870.	0.4249E-00	47520.3	88.00	0.00735
2880.	0.4233E-00	47759.8	88.09	0.00760
2890.	0.4217E-00	48001.0	88.18	0.00785
2900.	0.4202E-00	48243.8	88.27	0.00812
2910.	0.4186E-00	48488.4	88.36	0.00839
2920.	0.4171E-00	48734.6	88.45	0.00866
2930.	0.4155E-00	48982.6	88.54	0.00895
2940.	0.4140E-00	49232.4	88.63	0.00924
2950.	0.4125E-00	49484.0	88.72	0.00954
2960.	0.4109E-00	49737.4	88.82	0.00984
2970.	0.4094E-00	49992.7	88.91	0.01016
2980.	0.4079E-00	50249.9	89.01	0.01048
2990.	0.4064E-00	50509.1	89.10	0.01081
3000.	0.4049E-00	50770.1	89.19	0.01115

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
100.	0.1220E 02	1031.1	31.04	0.
110.	0.1099E 02	1181.2	32.47	0.
120.	0.1001E 02	1336.7	33.82	0.
130.	0.9200E 01	1497.0	35.10	0.
140.	0.8520E 01	1661.0	36.32	0.
150.	0.7938E 01	1827.3	37.47	0.
160.	0.7434E 01	1994.9	38.55	0.
170.	0.6993E 01	2162.6	39.56	0.
180.	0.6602E 01	2329.7	40.52	0.
190.	0.6255E 01	2495.6	41.42	0.
200.	0.5943E 01	2659.9	42.26	0.
210.	0.5661E 01	2822.4	43.05	0.
220.	0.5406E 01	2983.2	43.80	0.
230.	0.5173E 01	3142.1	44.51	0.
240.	0.4959E 01	3299.3	45.17	0.
250.	0.4763E 01	3455.0	45.81	0.
260.	0.4582E 01	3609.2	46.42	0.
270.	0.4415E 01	3762.2	46.99	0.
280.	0.4259E 01	3914.0	47.54	0.
290.	0.4115E 01	4064.9	48.07	0.
300.	0.3980E 01	4215.0	48.58	0.
310.	0.3853E 01	4364.3	49.07	0.
320.	0.3735E 01	4513.0	49.54	0.
330.	0.3623E 01	4661.1	50.00	0.
340.	0.3518E 01	4808.9	50.44	0.
350.	0.3419E 01	4956.2	50.87	0.
360.	0.3326E 01	5103.3	51.28	0.
370.	0.3237E 01	5250.0	51.69	0.
380.	0.3154E 01	5396.6	52.08	0.
390.	0.3074E 01	5543.0	52.46	0.
400.	0.2998E 01	5689.3	52.83	0.
410.	0.2926E 01	5835.4	53.19	0.
420.	0.2858E 01	5981.5	53.54	0.
430.	0.2793E 01	6127.5	53.88	0.
440.	0.2730E 01	6273.4	54.22	0.
450.	0.2670E 01	6419.3	54.55	0.
460.	0.2613E 01	6565.1	54.87	0.
470.	0.2558E 01	6710.9	55.18	0.
480.	0.2506E 01	6856.7	55.49	0.
490.	0.2456E 01	7002.4	55.79	0.
500.	0.2407E 01	7148.1	56.08	0.
510.	0.2361E 01	7293.8	56.37	0.
520.	0.2316E 01	7439.5	56.65	0.
530.	0.2273E 01	7585.2	56.93	0.
540.	0.2232E 01	7730.9	57.20	0.
550.	0.2192E 01	7876.5	57.47	0.
560.	0.2153E 01	8022.2	57.73	0.
570.	0.2116E 01	8167.9	57.99	0.
580.	0.2080E 01	8313.6	58.24	0.
590.	0.2045E 01	8459.3	58.49	0.

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
600.	0.2011E 01	8604.4	61.06	0.
610.	0.1979E 01	8750.2	61.30	0.
620.	0.1947E 01	8895.9	61.53	0.
630.	0.1917E 01	9041.7	61.77	0.
640.	0.1887E 01	9187.6	62.00	0.
650.	0.1859E 01	9333.4	62.22	0.
660.	0.1831E 01	9479.4	62.45	0.
670.	0.1804E 01	9625.3	62.67	0.
680.	0.1778E 01	9771.4	62.88	0.
690.	0.1752E 01	9917.5	63.09	0.
700.	0.1728E 01	10063.7	63.31	0.
710.	0.1704E 01	10210.0	63.51	0.
720.	0.1680E 01	10356.4	63.72	0.
730.	0.1658E 01	10502.9	63.92	0.
740.	0.1635E 01	10649.4	64.12	0.
750.	0.1614E 01	10796.1	64.32	0.
760.	0.1593E 01	10942.9	64.51	0.
770.	0.1573E 01	11089.8	64.70	0.
780.	0.1553E 01	11236.7	64.89	0.
790.	0.1533E 01	11383.8	65.08	0.
800.	0.1514E 01	11531.0	65.26	0.
810.	0.1496E 01	11678.3	65.45	0.
820.	0.1478E 01	11825.7	65.63	0.
830.	0.1460E 01	11973.3	65.81	0.
840.	0.1443E 01	12121.0	65.98	0.
850.	0.1426E 01	12268.7	66.16	0.
860.	0.1410E 01	12416.6	66.33	0.
870.	0.1394E 01	12564.7	66.50	0.
880.	0.1378E 01	12712.8	66.67	0.
890.	0.1363E 01	12861.1	66.84	0.
900.	0.1348E 01	13009.6	67.01	0.
910.	0.1333E 01	13158.1	67.17	0.
920.	0.1319E 01	13306.8	67.33	0.
930.	0.1305E 01	13455.6	67.49	0.
940.	0.1291E 01	13604.6	67.65	0.
950.	0.1278E 01	13753.7	67.81	0.
960.	0.1264E 01	13903.0	67.97	0.
970.	0.1252E 01	14052.4	68.12	0.
980.	0.1239E 01	14202.0	68.27	0.
990.	0.1227E 01	14351.7	68.43	0.
1000.	0.1214E 01	14501.5	68.58	0.
1010.	0.1202E 01	14651.5	68.73	0.
1020.	0.1191E 01	14801.7	68.87	0.
1030.	0.1179E 01	14952.0	69.02	0.
1040.	0.1168E 01	15102.5	69.17	0.
1050.	0.1157E 01	15253.2	69.31	0.
1060.	0.1146E 01	15404.0	69.45	0.
1070.	0.1136E 01	15555.0	69.60	0.
1080.	0.1125E 01	15706.1	69.74	0.
1090.	0.1115E 01	15857.5	69.88	0.

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1100.	0.1105E 01	16009.0	70.01	0.
1110.	0.1095E 01	16160.6	70.15	0.
1120.	0.1085E 01	16312.5	70.29	0.
1130.	0.1076E 01	16464.5	70.42	0.
1140.	0.1067E 01	16616.8	70.56	0.
1150.	0.1057E 01	16769.2	70.69	0.
1160.	0.1048E 01	16921.7	70.82	0.
1170.	0.1040E 01	17074.5	70.95	0.
1180.	0.1031E 01	17227.5	71.08	0.
1190.	0.1022E 01	17380.6	71.21	0.
1200.	0.1014E 01	17534.0	71.34	0.
1210.	0.1005E 01	17687.5	71.47	0.
1220.	0.9973E 00	17841.3	71.59	0.
1230.	0.9892E 00	17995.2	71.72	0.
1240.	0.9813E 00	18149.4	71.85	0.
1250.	0.9735E 00	18303.7	71.97	0.
1260.	0.9659E 00	18458.3	72.09	0.
1270.	0.9583E 00	18613.1	72.21	0.
1280.	0.9509E 00	18768.0	72.34	0.
1290.	0.9436E 00	18923.2	72.46	0.
1300.	0.9364E 00	19078.6	72.58	0.
1310.	0.9293E 00	19234.3	72.70	0.
1320.	0.9223E 00	19390.1	72.82	0.
1330.	0.9155E 00	19546.2	72.93	0.
1340.	0.9087E 00	19702.5	73.05	0.
1350.	0.9020E 00	19859.0	73.17	0.
1360.	0.8954E 00	20015.7	73.28	0.
1370.	0.8889E 00	20172.7	73.40	0.
1380.	0.8825E 00	20329.9	73.51	0.
1390.	0.8762E 00	20487.3	73.62	0.
1400.	0.8700E 00	20645.0	73.74	0.
1410.	0.8639E 00	20802.9	73.85	0.
1420.	0.8579E 00	20961.0	73.96	0.
1430.	0.8519E 00	21119.4	74.07	0.
1440.	0.8461E 00	21278.1	74.18	0.
1450.	0.8403E 00	21436.9	74.29	0.
1460.	0.8345E 00	21596.1	74.40	0.
1470.	0.8289E 00	21755.5	74.51	0.
1480.	0.8234E 00	21915.1	74.62	0.
1490.	0.8179E 00	22075.0	74.73	0.
1500.	0.8189E 00	22201.1	74.85	0.00000
1510.	0.8135E 00	22361.5	74.95	0.00000
1520.	0.8081E 00	22522.1	75.06	0.00000
1530.	0.8029E 00	22682.9	75.16	0.00000
1540.	0.7976E 00	22843.9	75.27	0.00000
1550.	0.7925E 00	23005.2	75.37	0.00000
1560.	0.7874E 00	23166.6	75.48	0.00000
1570.	0.7824E 00	23328.3	75.58	0.00000
1580.	0.7774E 00	23490.2	75.68	0.00000
1590.	0.7726E 00	23652.3	75.79	0.00000

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
1600.	0.7677E 00	23814.6	75.89	0.00000
1610.	0.7630E 00	23977.2	75.99	0.00000
1620.	0.7582E 00	24140.0	76.09	0.00000
1630.	0.7536E 00	24302.9	76.19	0.00001
1640.	0.7490E 00	24466.1	76.29	0.00001
1650.	0.7445E 00	24629.6	76.39	0.00001
1660.	0.7400E 00	24793.2	76.49	0.00001
1670.	0.7355E 00	24957.1	76.59	0.00001
1680.	0.7312E 00	25121.1	76.68	0.00001
1690.	0.7268E 00	25285.4	76.78	0.00001
1700.	0.7226E 00	25449.9	76.88	0.00001
1710.	0.7183E 00	25614.7	76.98	0.00001
1720.	0.7142E 00	25779.6	77.07	0.00001
1730.	0.7100E 00	25944.8	77.17	0.00001
1740.	0.7059E 00	26110.2	77.26	0.00002
1750.	0.7019E 00	26275.8	77.36	0.00002
1760.	0.6979E 00	26441.6	77.45	0.00002
1770.	0.6940E 00	26607.7	77.55	0.00002
1780.	0.6901E 00	26774.0	77.64	0.00002
1790.	0.6862E 00	26940.5	77.73	0.00002
1800.	0.6824E 00	27107.2	77.83	0.00003
1810.	0.6786E 00	27274.2	77.92	0.00003
1820.	0.6749E 00	27441.4	78.01	0.00003
1830.	0.6712E 00	27608.8	78.10	0.00003
1840.	0.6676E 00	27776.5	78.20	0.00004
1850.	0.6640E 00	27944.3	78.29	0.00004
1860.	0.6604E 00	28112.5	78.38	0.00004
1870.	0.6569E 00	28280.8	78.47	0.00004
1880.	0.6534E 00	28449.4	78.56	0.00005
1890.	0.6499E 00	28618.3	78.65	0.00005
1900.	0.6465E 00	28787.4	78.74	0.00006
1910.	0.6431E 00	28956.7	78.83	0.00006
1920.	0.6397E 00	29126.3	78.92	0.00007
1930.	0.6364E 00	29296.2	79.00	0.00007
1940.	0.6331E 00	29466.3	79.09	0.00008
1950.	0.6299E 00	29636.6	79.18	0.00008
1960.	0.6267E 00	29807.2	79.27	0.00009
1970.	0.6235E 00	29978.1	79.36	0.00009
1980.	0.6203E 00	30149.3	79.44	0.00010
1990.	0.6172E 00	30320.7	79.53	0.00011
2000.	0.6141E 00	30492.4	79.62	0.00011
2010.	0.6111E 00	30664.4	79.70	0.00012
2020.	0.6080E 00	30836.7	79.79	0.00013
2030.	0.6050E 00	31009.2	79.87	0.00014
2040.	0.6021E 00	31182.1	79.96	0.00015
2050.	0.5991E 00	31355.3	80.05	0.00016
2060.	0.5962E 00	31528.7	80.13	0.00017
2070.	0.5933E 00	31702.5	80.22	0.00018
2080.	0.5904E 00	31876.6	80.30	0.00019
2090.	0.5876E 00	32051.0	80.38	0.00021

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2100.	0.5848E 00	32225.7	80.47	0.00022
2110.	0.5820E 00	32400.8	80.55	0.00023
2120.	0.5793E 00	32576.2	80.64	0.00025
2130.	0.5765E 00	32751.9	80.72	0.00026
2140.	0.5738E 00	32928.0	80.80	0.00028
2150.	0.5712E 00	33104.5	80.89	0.00030
2160.	0.5685E 00	33281.3	80.97	0.00032
2170.	0.5659E 00	33458.5	81.05	0.00034
2180.	0.5633E 00	33636.0	81.13	0.00035
2190.	0.5607E 00	33814.0	81.22	0.00038
2200.	0.5581E 00	33992.4	81.30	0.00040
2210.	0.5556E 00	34171.1	81.38	0.00042
2220.	0.5531E 00	34350.3	81.46	0.00045
2230.	0.5506E 00	34529.9	81.55	0.00047
2240.	0.5481E 00	34709.9	81.63	0.00050
2250.	0.5457E 00	34890.4	81.71	0.00052
2260.	0.5432E 00	35071.3	81.79	0.00055
2270.	0.5408E 00	35252.7	81.87	0.00058
2280.	0.5384E 00	35434.6	81.95	0.00062
2290.	0.5361E 00	35616.9	82.04	0.00065
2300.	0.5337E 00	35799.7	82.12	0.00068
2310.	0.5314E 00	35983.0	82.20	0.00072
2320.	0.5291E 00	36166.9	82.28	0.00076
2330.	0.5268E 00	36351.2	82.36	0.00080
2340.	0.5245E 00	36536.1	82.44	0.00084
2350.	0.5223E 00	36721.6	82.52	0.00088
2360.	0.5200E 00	36907.6	82.60	0.00093
2370.	0.5178E 00	37094.2	82.68	0.00097
2380.	0.5156E 00	37281.3	82.76	0.00102
2390.	0.5134E 00	37469.1	82.85	0.00107
2400.	0.5112E 00	37657.5	82.93	0.00112
2410.	0.5091E 00	37846.5	83.01	0.00118
2420.	0.5070E 00	38036.2	83.09	0.00123
2430.	0.5048E 00	38226.5	83.17	0.00129
2440.	0.5027E 00	38417.4	83.25	0.00136
2450.	0.5007E 00	38609.1	83.33	0.00142
2460.	0.4986E-00	38801.5	83.41	0.00149
2470.	0.4965E-00	38994.5	83.49	0.00155
2480.	0.4945E-00	39188.4	83.57	0.00163
2490.	0.4925E-00	39382.9	83.66	0.00170
2500.	0.4905E-00	39578.2	83.74	0.00178
2510.	0.4885E-00	39774.3	83.82	0.00186
2520.	0.4865E-00	39971.2	83.90	0.00194
2530.	0.4845E-00	40169.0	83.98	0.00202
2540.	0.4826E-00	40367.5	84.06	0.00211
2550.	0.4807E-00	40566.9	84.14	0.00220
2560.	0.4787E-00	40767.2	84.23	0.00230
2570.	0.4768E-00	40968.3	84.31	0.00240
2580.	0.4749E-00	41170.4	84.39	0.00250
2590.	0.4730E-00	41373.4	84.47	0.00260

PRESSURE 50. ATMOSPHERES, INITIAL COMPOSITION 100. PERCENT PARA

TEMP DEG K	DENSITY GM/LITER	ENTHALPY JOULES/GM	ENTROPY JOULES/GM DEG	FRACTION DISSOCIATED
2600.	0.4712E-00	41577.3	84.55	0.00271
2610.	0.4693E-00	41782.2	84.64	0.00282
2620.	0.4675E-00	41988.1	84.72	0.00294
2630.	0.4656E-00	42195.0	84.80	0.00306
2640.	0.4638E-00	42402.9	84.89	0.00318
2650.	0.4620E-00	42611.9	84.97	0.00331
2660.	0.4602E-00	42821.9	85.05	0.00344
2670.	0.4584E-00	43033.0	85.14	0.00358
2680.	0.4566E-00	43245.3	85.22	0.00372
2690.	0.4549E-00	43458.6	85.30	0.00386
2700.	0.4531E-00	43673.2	85.39	0.00401
2710.	0.4514E-00	43888.9	85.47	0.00417
2720.	0.4497E-00	44105.8	85.56	0.00433
2730.	0.4479E-00	44323.9	85.64	0.00449
2740.	0.4462E-00	44543.3	85.73	0.00466
2750.	0.4445E-00	44764.0	85.81	0.00483
2760.	0.4428E-00	44985.9	85.90	0.00501
2770.	0.4412E-00	45209.2	85.98	0.00519
2780.	0.4395E-00	45433.8	86.07	0.00538
2790.	0.4378E-00	45659.8	86.16	0.00558
2800.	0.4362E-00	45887.2	86.24	0.00578
2810.	0.4345E-00	46116.0	86.33	0.00598
2820.	0.4329E-00	46346.3	86.42	0.00620
2830.	0.4313E-00	46578.0	86.51	0.00641
2840.	0.4297E-00	46811.3	86.60	0.00664
2850.	0.4281E-00	47046.1	86.68	0.00687
2860.	0.4265E-00	47282.4	86.77	0.00710
2870.	0.4249E-00	47520.3	86.86	0.00735
2880.	0.4233E-00	47759.8	86.95	0.00760
2890.	0.4217E-00	48001.0	87.04	0.00785
2900.	0.4202E-00	48243.8	87.13	0.00812
2910.	0.4186E-00	48488.4	87.22	0.00839
2920.	0.4171E-00	48734.6	87.32	0.00866
2930.	0.4155E-00	48982.6	87.41	0.00895
2940.	0.4140E-00	49232.4	87.50	0.00924
2950.	0.4125E-00	49484.0	87.59	0.00954
2960.	0.4109E-00	49737.4	87.69	0.00984
2970.	0.4094E-00	49992.7	87.78	0.01016
2980.	0.4079E-00	50249.9	87.87	0.01048
2990.	0.4064E-00	50509.1	87.97	0.01081
3000.	0.4049E-00	50770.1	88.06	0.01115

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