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Technical Note

154

**THE THERMODYNAMIC PROPERTIES
OF HELIUM FROM 3 TO 300° K
BETWEEN 0.5 AND 100 ATMOSPHERES**

DOUGLAS B. MANN



**U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS**

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THE THERMODYNAMIC PROPERTIES
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ABSTRACT

The specific volume, enthalpy, entropy, and internal energy values of helium are presented in tabular form as functions of pressure and temperature.

Data are tabulated in one degree Kelvin increments for forty isobars between 0.5 atmospheres and 100 atmospheres. A comparison with previously published data is made where applicable.

An expression is presented which represents the pressure-density-temperature surface based on previously published data.

The tabulation is presented in the dimensional units of the metric system, but is also available in the dimensional units of the British system (Supplement A).

1. INTRODUCTION

Recent developments in the field of cryogenic engineering, such as the low temperature operation of masers and magnets, require increasingly accurate representations of the properties of the gases used as refrigerants. Helium, in particular, is used exclusively to provide continuous refrigeration in the temperature range 3.5° to 13° K, and is being considered as a prime refrigerant to temperature levels up to 40° K. Refrigeration methods are also becoming more complex and efficient, reflecting the advances in the design and construction of equipment such as heat exchangers and expansion machines. To determine the performance of these more advanced refrigeration systems, it is necessary to have available a continuous and consistent set of the thermodynamic properties of helium extending from 3° K to ambient temperatures.

These property data must necessarily reflect the most recent experimental measurements.

1.1 DATA CONSIDERED IN GENERATING THIS TABULATION

The work of Keesom [1942] assembled and in most cases correlated the property data reported by experimentalists up to and including 1941. Akin [1950], using the Beattie-Bridgeman equation of state and data derived from Keesom [1942], presented thermodynamic properties for helium to temperatures extending from 590° K down to about 12° K and to quite high gas densities.

Lounasmaa [1958] provided experimental data which indicated the virial form of the equation of state used by Keesom [1942] was somewhat inadequate in representing the properties for densities greater than the critical density at temperatures below 20° K. Mann and Stewart [1959] correlated these data of Lounasmaa [1958] with those of Keesom [1942], Berman and Mate [1958], and Domb and Dugdale [1957]. The results of this correlation were presented in graphical form for the temperature region 3° to 20° K.

The work of Edeskuty and Sherman [1958] provided experimental data at 4.2° K and below and up to densities in excess of three times the critical density.

The purpose of this work is to correlate the applicable data of these more recent investigators with those of Keesom [1942] to give a continuous representation of properties extending from 3°K to 300°K and pressures to 100 atmospheres.

2.0 SYMBOLS

The following is a list of symbols and definitions used in this report:

- C_p^* - molar specific heat of helium gas at very low pressures. Assumed to be numerically equal to $5/2 R$ j/gm-mole-°K.
- C_{sat} - specific heat of liquid helium at saturation conditions, - j/gm-mole-°K.
- ρ - mass concentration (density) - gm-moles/liter.
- H - enthalpy - j/gm-mole.
- H_0 - enthalpy value of liquid helium at the conditions $T = 0^\circ K$, $P = \text{zero}$.
- H_L - enthalpy value at the conditions $T = 4.2144^\circ K$ (normal boiling point, T_{55E}), $P = \text{one atmosphere}$, saturated liquid.
- P - absolute pressure - atmospheres.
- S - entropy - j/gm-mole-°K.
- S_0 - entropy of liquid helium at the conditions $T = 0^\circ K$, and $P = \text{zero}$, assumed to be numerically equal to zero.
- S_L - entropy value at the conditions $T = 4.2144^\circ K$, (normal boiling point, T_{55E}), $P = \text{one atmosphere}$, saturated liquid.
- T - temperature - degrees Kelvin.
- U - internal energy - j/gm-mole.
- V - molar volume - liters/gm-mole.
- Z - compressibility factor $\equiv \frac{P}{\rho RT}$

3.0 CONSTANTS AND CONVERSION FACTORS

The temperature scale used in this report is that designated by the symbol T_{55E} [Clement, Logan and Gaffney, 1955].

Constants and conversion factors are as follows:

One atmosphere	= 1.013250(10 ⁶) dynes/cm ² .
R (gas constant)	= 8.20575 x 10 ⁻² liter-atm/gm-mole- °K. (chemical scale).
One calorie (thermochemical)	= 4.1840 Joules
One Joule (j)	= 9.86896 x 10 ⁻³ liter-atm.
One liter	= 1000.028 cm ³ .

4.0 PRESSURE-DENSITY-TEMPERATURE SURFACE

The equation developed to describe the pressure-density-temperature surface is based on the equation of Benedict-Webb-Rubin [1940], as modified for nitrogen by Strobridge [1962] and further modified here for helium. With pressure as the dependent variable, the equation is:

$$\begin{aligned}
 P = R\rho T + & \left(R n_1 T + n_2 + \frac{n_3}{T} + \frac{n_4}{T^2} + \frac{n_5}{T^4} \right) \rho^2 + \left(R n_6 T + n_7 \right) \rho^3 \\
 & + n_8 \rho^4 + \left(\frac{n_9}{T^2} + \frac{n_{10}}{T^3} + \frac{n_{11}}{T^4} \right) \rho^3 e^{-n_{12} \rho^2 / T} \\
 & + \left(\frac{n_{13}}{T^2} + \frac{n_{14}}{T^3} + \frac{n_{15}}{T^4} \right) \rho^5 e^{-n_{12} \rho^2 / T} + n_{16} \rho^5 + n_{17} \rho^6 \quad (1)
 \end{aligned}$$

Values for the constants are as follows:

$$\begin{array}{ll}
 R = 0.820575 (10^{-1}) & n_9 = -0.5002871627(10^{-2}) \\
 n_1 = 0.1627693557(10^{-1}) & n_{10} = 0.3451283837(10^{-1}) \\
 n_2 = -0.3700903492(10^{-1}) & n_{11} = 0.1008924438(10^0) \\
 n_3 = 0.7567259965(10^{-2}) & n_{12} = 0.65 (10^{-2}) \\
 n_4 = -0.1887566673(10^{-1}) & n_{13} = -0.1851562535(10^{-4}) \\
 n_5 = 0.4792344640(10^{-1}) & n_{14} = 0.4204351888(10^{-4}) \\
 n_6 = 0.1560344984(10^{-3}) & n_{15} = -0.1712445150(10^{-3}) \\
 n_7 = 0.9274298542(10^{-3}) & n_{16} = 0.7739390202(10^{-6}) \\
 n_8 = -0.2833997045(10^{-4}) & n_{17} = -0.2870693948(10^{-8})
 \end{array}$$

A least squares method developed by Jones [1962] and programmed for use on a digital computer was used to determine the values of these constants. Because the constant n_{12} appears in the exponential term, it was necessary to select several values for this constant and solve for the set of constants which gave the minimum in the sum of squares of deviations. The resulting best fit for the data was only slightly affected by changes in the value of the constant n_{12} , but it was found necessary to carry the maximum number of places in the derived constants to assure internal consistency and reproducibility.

Data used for the least squares treatment consisted of 695 pressure, density, and temperature points. These points were taken from the following published works:

Berman and Mate [1958]. Thirty-eight data points were used to describe the saturated vapor and saturated liquid conditions. Temperatures range from 2.2° to 5.18°K.

Edeskuty and Sherman [1958]. Eighty-eight data points were used to describe the compressed liquid region from 2.2° to 4.2°K. Pressures range from one to 140 atmospheres and the highest density values are in excess of three times the critical density.

Hill and Lounasmaa [1960]. A total of 258 experimental data points were used to describe the rather broad temperature and pressure region from about 2.5° to 20°K. Pressures range from one to 102

atmospheres with density values extending to three times the critical density.

Keesom [1942]. The virial equation of state and the values for the coefficients adopted by Keesom were used to obtain 311 pressure-density-temperature points along twenty-nine isotherms extending from 3.1 to 574°K. Pressure-density-temperature points having densities greater than the critical density were excluded because of the divergence of the equation of state values for pressure from the experimental values of Hill and Lounasmaa [1960] in the region of the 20°K isotherm.

Except for the two-phase region described by Berman and Mate [1958] overlapping of the data regions was extensive.

5.0 DERIVED FUNCTIONS

The property functions of enthalpy, entropy, and internal energy for the single phase fluid region were calculated using only the equation for the pressure-density-temperature surface (1). This procedure was necessary in the absence of specific heat measurements over the entire range of interest. Equations used to calculate these properties are shown below. For a complete derivation of the equations, the reader is referred to Beattie [1955].

$$H = H_0^o + \int_{T=0}^T C_p^* dT + (Z-1) RT + \int_0^p \left[\frac{P}{\rho} - \frac{T}{\rho} \left(\frac{\partial P}{\partial T} \right)_\rho \right] d\rho \quad (2)$$

$$S = S_0^o + \int_{T=0}^T \frac{C_p^*}{T} dT - R \ln \frac{P}{Z} + \int_0^p \left[\frac{R}{\rho} - \frac{1}{\rho^2} \left(\frac{\partial P}{\partial T} \right)_\rho \right] d\rho \quad (3)$$

$$U = H - \frac{P}{\rho} . \quad (4)$$

For the particular case of helium:

$$H_0^o = (H_L - H_0) + L_v - \left[(Z - 1) RT + \int_0^p \left[\frac{P}{\rho} - \frac{T}{\rho} \left(\frac{\partial P}{\partial T} \right)_\rho \right] d\rho \right] , \quad (5)$$

$$S_0^o = (S_L - S_0) + \frac{L_v}{T} - \left[-R \ln \frac{P}{Z} + \int_0^P \left[\frac{R}{\rho} - \frac{1}{\rho^2} \left(\frac{\partial P}{\partial T} \right)_{\rho} \right] d\rho \right]. \quad (6)$$

Equations (5) and (6) are evaluated at the normal boiling point temperature of 4.2144°K and the density of saturated vapor at this temperature. L_v is the heat of vaporization at this temperature, based on Berman and Mate [1958]. The calculations indicated by (5) and (6) result in values for S_0^o and H_0^o of 9.2609 j/gm-mole °K and 36.5582 j/gm-mole respectively.

The values of enthalpy, entropy, and internal energy of the saturated liquid given in Table I were taken from Mann and Stewart [1959]. These values were found by graphically integrating the expressions:

$$H - H_0 = \int_{T=0}^T C_{\text{sat}} dT + \int_{P=0}^P \frac{dP}{\rho}, \quad (7)$$

$$S - S_0 = \int_{T=0}^T \frac{C_{\text{sat}}}{T} dT. \quad (8)$$

The specific heat of saturated liquid (C_{sat}) was taken from Hill and Lounasmaa [1957].

Properties at the saturated vapor condition given in Table I were found using (7) and (8) and the heat of vaporization data of Berman and Mate [1958].

Values for internal energy were computed from (4).

Equation (1) was developed starting with the work of Lounasmaa [1959]. This publication presented the derived constants for the Benedict-Webb-Rubin equation of state using the data obtained experimentally by Hill and Lounasmaa [1960]. As the data range was extended to include the region defined by this report, the Benedict-Webb-Rubin equation was also modified as necessary. The temperature-pressure region 4.8° to 5.8°K and 1.8 to 2.8 atmospheres was less accurately reproduced as this modification proceeded to the form

TABLE 1
Properties of Helium
Two Phase Liquid-Vapor Region

Temperature °K	Pressure Atmospheres	Saturated Vapor			Saturated Liquid				
		v cc/gm	h j/gm	u j/gm	v cc/gm	h j/gm	u j/gm		
3.00	0.241	224.11	28.96	23.49	10.247	7.0852	5.30	5.13	2.356
3.20	0.320	174.83	29.48	23.81	9.911	7.1849	5.85	5.62	2.527
3.40	0.416	138.70	29.93	24.08	9.606	7.3025	6.47	6.16	2.690
3.60	0.529	111.48	30.34	24.36	9.322	7.4388	7.18	6.78	2.883
3.80	0.661	90.50	30.59	24.53	9.021	7.5965	7.93	7.40	3.059
4.00	0.814	73.86	30.72	24.63	8.736	7.7785	8.81	8.17	3.255
4.20	0.990	60.61	30.79	24.71	8.443	7.9885	9.85	9.05	3.460
4.40	1.190	49.80	30.65	24.65	8.150	8.2305	10.96	9.97	3.674
4.60	1.417	40.72	30.32	24.47	7.845	8.5470	12.33	11.10	3.920
4.80	1.672	32.87	29.49	23.92	7.473	9.0334	13.88	12.35	4.188
5.00	1.959	25.67	28.02	22.92	7.000	9.9404	16.00	14.03	4.598

of (1). The reason for this decrease in accuracy was the inability of the developed equation to represent exactly the form of the critical isotherm at or near the critical pressure.

The effect of this problem was two-fold. Properties defined by (1), (2), (3), and (4) in this temperature and pressure region were found to have substantial errors. In addition, the integration, indicated by (2) and (3), for the values of derived properties at densities greater than the critical density and at pressures greater than 2.8 atmospheres resulted in substantial errors at temperatures near the critical point.

To eliminate these errors, the properties were derived using (1), (2), (3), and (4) for temperatures of 6°K and above for densities greater than critical density and for temperatures approaching the saturated vapor conditions at densities less than the critical density.

Equations (2) and (3) were then modified so as to substitute for the lower limit of integration the values for the properties along the saturated liquid region. Equations (9) and (10) indicate this modification and with (4) are the equations used to derive properties at pressures greater than the critical pressure and at temperatures less than 6°K.

$$\Delta S = \int_{\rho_{\text{sat}}}^{\rho} \left[-\frac{1}{\rho} \left(\frac{\partial P}{\partial T} \right)_{\rho} \right]_T d\rho \quad (9)$$

$$\Delta H = \frac{P}{\rho} - \left(\frac{P}{\rho_{\text{sat}}} \right) + \int_{\rho_{\text{sat}}}^{\rho} \left[\frac{P}{\rho} - \frac{T}{\rho} \left(\frac{\partial P}{\partial T} \right)_{\rho} \right]_T d\rho \quad (10)$$

Isobars were then plotted graphically on temperature-entropy and temperature-enthalpy coordinates. The entropy change along the isochore 30.93 gm-mole/liter was computed from 4.75° to 10°K using the specific heat data of Hill and Lounasmaa [1960] and the expression:

$$\Delta S = \int_{T_1}^{T_2} \frac{C_v}{T} dT. \quad (11)$$

The intersections of the isobars with this isochore given by Hill and Lounasmaa [1960] were noted as the temperature was increased.

A correction for the properties along the 5° and 6°K isotherms was determined and the tabulated data were adjusted to be consistent with the above-described specific heat data of Hill and Lounasmaa [1960]. In addition, the two-atmosphere isobar was plotted from Hill and Lounasmaa [1960] in the region of the critical values and the tabulated properties obtained directly from this plot.

6.0 TABULATED THERMODYNAMIC PROPERTIES

Values taken from the pressure-density-temperature surface described by (1) and the derived properties found from (2) through (11) are listed as functions of pressure and temperature on succeeding pages. Forty isobars are presented covering the range 0.5 to 100 atmospheres. One degree increments of temperature are given except at the two-phase boundaries, and, in general, extend from 3° to 300°K. Values listed in the tables are specific not molar quantities. The molecular weight of helium was taken as 4.0028.

It was found that a better representation of the pressure-density-temperature surface could be achieved by considering a number of restricted ranges of temperature and pressure when defining the constants of (1), but this procedure would then require the fitting and smoothing of several property surfaces. It was felt that the surface matching would not increase the accuracy of the tabulated values over the entire range of interest by a factor that could justify the extensive data manipulation required.

7.0 DISCUSSION

The pressure-density-temperature surface described by (1) and the tabulated derived functions fit the original data to varying degrees of accuracy depending on the temperature and pressure region considered. In general, the ability of (1) to reproduce the original data is less accurate in the regions of phase change, and in particular, in the region of the critical point. As mentioned above, the liquid-vapor region was handled graphically in an attempt to reduce the error in this region.

In the temperature region 10° to 300°K the accuracy of the tabulated values of pressure, density, enthalpy, and entropy is estimated to be within 3% while internal energy values may vary somewhat more.

Below 10°K and at low pressures the properties of enthalpy, entropy, internal energy, and pressure are accurate to an estimated error of 3% while density may have an uncertainty of as much as 5%. At higher pressures the density is defined to within the estimated 3% but the pressures may be in error as much as 5%.

Values for the specific heats of helium derived from the tables are estimated to be within 5% in the temperature range 10 to 300°K. It is not recommended that specific heats be extracted from the tables at temperature levels below 10°K.

Figure 1 summarizes the deviations in enthalpy when the values of this paper are compared with enthalpy values of previously published works.

$$\text{Deviation (\%)} = 100 (\text{Obs.} - \text{Calc.}) / (\text{Obs.})$$

The number of places carried in the tables is not a reflection of the estimated accuracy but is necessary to provide internal consistency during the calculation of refrigeration systems.

Tabulated values of the properties are presented in the dimensional units of the metric system. Values in the units of the British system are available as Supplement A to this report [Mann 1962] .

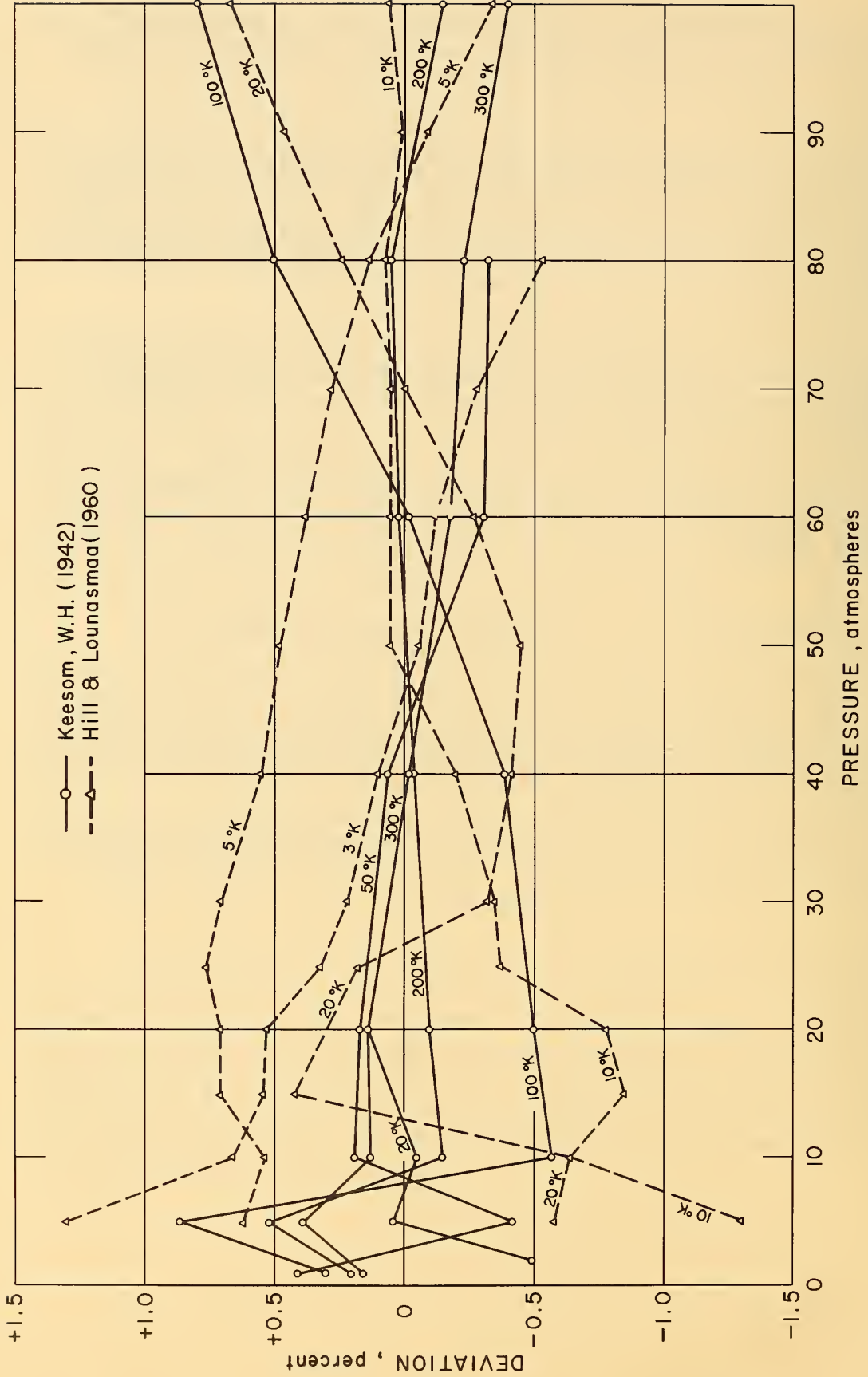


Figure 1. Enthalpy Deviation Plot

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TABLE 2

Tabulation of Thermodynamic Properties

-50 ATMOSPHERE 1S0BAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	2503.23	331.43	204.61	24.580
					62.00	2544.26	336.62	207.72	24.664
					63.00	2585.29	341.82	210.84	24.748
					64.00	2626.32	347.01	213.96	24.829
					65.00	2667.35	352.21	217.07	24.910
					66.00	2708.37	357.40	220.19	24.989
					67.00	2749.40	362.60	223.30	25.067
					68.00	2790.42	367.79	226.42	25.144
					69.00	2831.45	372.99	229.54	25.220
					70.00	2872.47	378.18	232.65	25.295
					71.00	2913.49	383.38	235.77	25.369
					72.00	2954.51	388.57	238.89	25.441
					73.00	2995.54	393.77	242.00	25.513
					74.00	3036.56	398.96	245.12	25.584
					75.00	3077.58	404.16	248.23	25.653
					76.00	3118.60	409.35	251.35	25.722
					77.00	3159.61	414.54	254.47	25.790
					78.00	3200.63	419.74	257.58	25.857
					79.00	3241.65	424.93	260.70	25.923
					80.00	3282.67	430.13	263.81	25.988
					81.00	3323.69	435.32	266.93	26.053
					82.00	3364.70	440.52	270.05	26.117
					83.00	3405.72	445.71	273.16	26.180
					84.00	3446.74	450.90	276.28	26.242
					85.00	3487.75	456.10	279.39	26.303
					86.00	3528.77	461.29	282.51	26.364
					87.00	3569.78	466.49	285.63	26.424
					88.00	3610.80	471.68	288.74	26.483
					89.00	3651.81	476.87	291.86	26.542
					90.00	3692.82	482.07	294.97	26.600
					91.00	3733.84	487.26	298.09	26.658
					92.00	3774.85	492.45	301.21	26.714
					93.00	3815.86	497.65	304.32	26.771
					94.00	3856.88	502.84	307.44	26.826
					95.00	3897.89	508.03	310.55	26.881
					96.00	3938.90	513.23	313.67	26.935
					97.00	3979.91	518.42	316.78	26.989
					98.00	4020.93	523.62	319.90	27.042
					99.00	4061.94	528.81	323.02	27.095
					100.00	4102.95	534.00	326.13	27.147
					101.00	4143.96	539.20	329.25	27.199
					102.00	4184.97	544.39	332.36	27.250
					103.00	4225.98	549.58	335.48	27.301
					104.00	4266.99	554.78	338.59	27.351
					105.00	4308.00	559.97	341.71	27.401
					106.00	4349.01	565.16	344.83	27.450
					107.00	4390.02	570.36	347.94	27.499
					108.00	4431.03	575.55	351.06	27.547
					109.00	4472.04	580.74	354.17	27.595
					110.00	4513.05	585.94	357.29	27.642
					111.00	4554.06	591.13	360.40	27.689
					112.00	4595.07	596.32	363.52	27.736
					113.00	4636.08	601.52	366.63	27.782
					114.00	4677.09	606.71	369.75	27.828
					115.00	4718.10	611.90	372.87	27.873
					116.00	4759.11	617.10	375.98	27.918
					117.00	4800.12	622.29	379.10	27.963
					118.00	4841.12	627.48	382.21	28.007
					119.00	4882.13	632.68	385.33	28.051
					120.00	4923.14	637.87	388.44	28.094
					121.00	4964.14	643.06	391.56	28.137
					122.00	5005.15	648.25	394.67	28.180
					123.00	5046.16	653.45	397.79	28.222
					124.00	5087.17	658.64	400.91	28.265
					125.00	5128.18	663.83	404.02	28.306
					126.00	5169.18	669.03	407.14	28.348
					127.00	5210.19	674.22	410.25	28.389
					128.00	5251.19	679.41	413.37	28.429
					129.00	5292.20	684.61	416.48	28.470
					130.00	5333.21	689.80	419.60	28.510
					131.00	5374.22	694.99	422.71	28.550
					132.00	5415.22	700.18	425.83	28.589
					133.00	5456.23	705.38	428.94	28.628
					134.00	5497.23	710.57	432.06	28.667
					135.00	5538.24	715.76	435.18	28.706
					136.00	5579.25	720.96	438.29	28.744
					137.00	5620.25	726.15	441.41	28.782
					138.00	5661.26	731.34	444.52	28.820
					139.00	5702.26	736.54	447.64	28.858
					140.00	5743.27	741.73	450.75	28.895
					141.00	5784.27	746.93	453.87	28.933
					142.00	5825.28	752.12	456.98	28.971
					143.00	5866.28	757.32	460.10	29.009
					144.00	5907.28	762.51	463.21	29.047
					145.00	5948.29	767.71	466.33	29.085
					146.00	5989.29	772.90	469.44	29.123
					147.00	6030.29	778.10	472.56	29.161
					148.00	6071.29	783.29	475.67	29.199
					149.00	6112.29	788.49	478.79	29.237
					150.00	6153.29	793.68	481.90	29.275
					151.00	6194.29	798.88	485.02	29.313
					152.00	6235.29	804.07	488.13	29.351
					153.00	6276.29	809.27	491.25	29.389
					154.00	6317.29	814.46	494.36	29.427
					155.00	6358.29	819.66	497.48	29.465
					156.00	6399.29	824.85	500.59	29.503
					157.00	6440.29	830.05	503.71	29.541
					158.00	6481.29	835.24	506.82	29.579
					159.00	6522.29	840.44	510.94	29.617
					160.00	6563.29	845.63	514.05	29.655
					161.00	6604.29	850.83	517.17	29.693
					162.00	6645.29	856.02	520.28	29.731
					163.00	6686.29	861.22	523.40	29.769
					164.00	6727.29	866.41	526.51	29.807
					165.00	6768.29	871.61	529.63	29.845
					166.00	6809.29	876.80	532.74	29.883
					167.00	6850.29	882.00	535.86	29.921
					168.00	6891.29	887.19	538.97	29.959
					169.00	6932.29	892.39	542.09	29.997
					170.00	6973.29	897.58	545.20	30.035
					171.00	7014.29	902.78	548.32	30.073
					172.00	7055.29	907.97	551.43	30.111
					173.00	7096.29	913.17	554.55	30.149
					174.00	7137.29	918.36	557.66	30.187
					175.00	7178.29	923.56	560.78	30.225
					176.00	7219.29	928.75	563.89	30.263
					177.00	7260.29	933.95	567.01	30.301
					178.00	7301.29	939.14	570.12	30.339
					179.00	7342.29	944.34	573.24	30.377
					180.00	7383.29	949.53	576.35	30.415
					181.00	7424.29	954.73	579.47	30.453
					182.00	7465.29	959.92	582.58	30.491
					183.00	7506.29	965.12	585.70	30.529
					184.00	7547.29	970.31	588.81	30.567
					185.00	7588.29	975.51	591.93	30.605
					186.00	7629.29	980.70	595.04	30.643
					187.00	7670.29	985.90	598.16	30.681
					188.00	7711.29	991.09	601.27	30.719
					189.00	7752.29	996.29	604.39	30.757
					190.00	7793.29	1001.48	607.50	30.795
					191.00	7834.29	1006.68	610.62	30.833
					192.00	7875.29	1011.87	613.73	30.871
					193.00	7916.29	1017.07	616.85	30.909
					194.00	7957.29	1022.26	619.96	30.947
					195.00	7998.29	1027.46	623.08	30.985
					196.00	8039.29	1032.65	626.19	31.023
					197.00	8080.29	1037.85	629.31	31.061
					198.00	8121.29	1043.04	632.42	31.099
					199.00	8162.29	1048.24	635.54	31.137
					200.00	8203.29	1053.43	638.65	31.175
					201.00	8244.29	1058.63	641.77	31.213
					202.00	8285.29	1063.82	644.88	31.251
					203.00	8326.29	1069.02	648.00	31.289
					204.00	8367.29	1074.21	651.11	31.327
					205.00	8408.29	1079.41	654.23	31.365
					206.00	8449.29	1084.60	657.34	31.403
					207.00	8490.29	1089.80	660.46	31.441
					208.00	8531.29	1095.00	663.57	31.479
					209.00	8572.29	1100.19	666.69	31.517
					210.00	8613.29	1105.39	669.80	

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	5784.28	746.92	453.87	28.932	221.00	9064.57	1162.34	703.09	31.265
142.00	5825.28	752.11	456.98	28.968	222.00	9105.57	1167.53	706.21	31.289
143.00	5866.29	757.31	460.10	29.005	223.00	9146.57	1172.72	709.32	31.312
144.00	5907.29	762.50	463.21	29.041	224.00	9187.57	1177.92	712.44	31.335
145.00	5948.30	767.69	466.33	29.077	225.00	9228.58	1183.11	715.55	31.358
146.00	5989.30	772.88	469.44	29.113	226.00	9269.58	1188.30	718.67	31.382
147.00	6030.31	778.08	472.56	29.148	227.00	9310.58	1193.49	721.78	31.404
148.00	6071.31	783.27	475.68	29.183	228.00	9351.58	1198.69	724.90	31.427
149.00	6112.32	788.46	478.79	29.218	229.00	9392.59	1203.88	728.01	31.450
150.00	6153.32	793.66	481.91	29.253	230.00	9433.59	1209.07	731.13	31.473
151.00	6194.33	798.85	485.02	29.288	231.00	9474.59	1214.26	734.24	31.495
152.00	6235.33	804.04	488.14	29.322	232.00	9515.59	1219.46	737.36	31.518
153.00	6276.34	809.24	491.25	29.356	233.00	9556.59	1224.65	740.48	31.540
154.00	6317.34	814.43	494.37	29.390	234.00	9597.60	1229.84	743.59	31.562
155.00	6358.35	819.62	497.48	29.423	235.00	9638.60	1235.03	746.71	31.584
156.00	6399.35	824.81	500.60	29.457	236.00	9679.60	1240.23	749.82	31.606
157.00	6440.36	830.01	503.71	29.490	237.00	9720.60	1245.42	752.94	31.628
158.00	6481.36	835.20	506.83	29.523	238.00	9761.61	1250.61	756.05	31.650
159.00	6522.37	840.39	509.94	29.556	239.00	9802.61	1255.80	759.17	31.672
160.00	6563.37	845.59	513.06	29.588	240.00	9843.61	1261.00	762.28	31.694
161.00	6604.38	850.78	516.18	29.621	241.00	9884.61	1266.19	765.40	31.715
162.00	6645.38	855.97	519.29	29.653	242.00	9925.61	1271.38	768.51	31.737
163.00	6686.38	861.16	522.41	29.685	243.00	9966.62	1276.57	771.63	31.758
164.00	6727.39	866.36	525.52	29.716	244.00	10007.62	1281.77	774.74	31.779
165.00	6768.39	871.55	528.64	29.748	245.00	10048.62	1286.96	777.86	31.801
166.00	6809.40	876.74	531.75	29.779	246.00	10089.62	1292.15	780.97	31.822
167.00	6850.40	881.93	534.87	29.811	247.00	10130.62	1297.34	784.09	31.843
168.00	6891.41	887.13	537.98	29.842	248.00	10171.62	1302.54	787.20	31.864
169.00	6932.41	892.32	541.10	29.872	249.00	10212.63	1307.73	790.32	31.885
170.00	6973.41	897.51	544.21	29.903	250.00	10253.63	1312.92	793.43	31.906
171.00	7014.42	902.71	547.33	29.933	251.00	10294.63	1318.11	796.55	31.926
172.00	7055.42	907.90	550.44	29.964	252.00	10335.63	1323.31	799.66	31.947
173.00	7096.42	913.09	553.56	29.994	253.00	10376.63	1328.50	802.78	31.968
174.00	7137.43	918.28	556.67	30.024	254.00	10417.64	1333.69	805.89	31.988
175.00	7178.43	923.48	559.79	30.054	255.00	10458.64	1338.88	809.01	32.008
176.00	7219.44	928.67	562.91	30.083	256.00	10499.64	1344.08	812.13	32.029
177.00	7260.44	933.86	566.02	30.113	257.00	10540.64	1349.27	815.24	32.049
178.00	7301.44	939.05	569.14	30.142	258.00	10581.64	1354.46	818.36	32.069
179.00	7342.45	944.25	572.25	30.171	259.00	10622.64	1359.65	821.47	32.089
180.00	7383.45	949.44	575.37	30.200	260.00	10663.65	1364.85	824.59	32.109
181.00	7424.45	954.63	578.48	30.229	261.00	10704.65	1370.04	827.70	32.129
182.00	7465.46	959.83	581.60	30.257	262.00	10745.65	1375.23	830.82	32.149
183.00	7506.46	965.02	584.71	30.286	263.00	10786.65	1380.42	833.93	32.169
184.00	7547.46	970.21	587.83	30.314	264.00	10827.65	1385.62	837.05	32.189
185.00	7588.47	975.40	590.94	30.342	265.00	10868.65	1390.81	840.16	32.208
186.00	7629.47	980.60	594.06	30.370	266.00	10909.66	1396.00	843.28	32.228
187.00	7670.47	985.79	597.17	30.398	267.00	10950.66	1401.19	846.39	32.247
188.00	7711.48	990.98	600.29	30.426	268.00	10991.66	1406.39	849.51	32.267
189.00	7752.48	996.17	603.40	30.453	269.00	11032.66	1411.58	852.62	32.286
190.00	7793.48	1001.37	606.52	30.481	270.00	11073.66	1416.77	855.74	32.305
191.00	7834.49	1006.56	609.63	30.508	271.00	11114.66	1421.96	858.85	32.324
192.00	7875.49	1011.75	612.75	30.535	272.00	11155.67	1427.16	861.97	32.344
193.00	7916.49	1016.95	615.87	30.562	273.00	11196.67	1432.35	865.08	32.363
194.00	7957.50	1022.14	618.98	30.589	274.00	11237.67	1437.54	868.20	32.382
195.00	7998.50	1027.33	622.10	30.615	275.00	11278.67	1442.73	871.31	32.400
196.00	8039.50	1032.52	625.21	30.642	276.00	11319.67	1447.93	874.43	32.419
197.00	8080.50	1037.72	628.33	30.668	277.00	11360.67	1453.12	877.54	32.438
198.00	8121.51	1042.91	631.44	30.695	278.00	11401.68	1458.31	880.66	32.457
199.00	8162.51	1048.10	634.56	30.721	279.00	11442.68	1463.50	883.77	32.475
200.00	8203.51	1053.29	637.67	30.747	280.00	11483.68	1468.70	886.89	32.494
201.00	8244.52	1058.49	640.79	30.773	281.00	11524.68	1473.89	890.01	32.513
202.00	8285.52	1063.68	643.90	30.799	282.00	11565.68	1479.08	893.12	32.531
203.00	8326.52	1068.87	647.02	30.824	283.00	11606.68	1484.27	896.24	32.549
204.00	8367.52	1074.06	650.13	30.850	284.00	11647.68	1489.47	899.35	32.568
205.00	8408.53	1079.25	653.25	30.875	285.00	11688.69	1494.66	902.47	32.586
206.00	8449.53	1084.45	656.36	30.900	286.00	11729.69	1499.85	905.58	32.604
207.00	8490.53	1089.64	659.48	30.926	287.00	11770.69	1505.04	908.70	32.622
208.00	8531.54	1094.83	662.59	30.951	288.00	11811.69	1510.24	911.81	32.640
209.00	8572.54	1100.03	665.71	30.975	289.00	11852.69	1515.43	914.93	32.658
210.00	8613.54	1105.22	668.82	31.000	290.00	11893.69	1520.62	918.04	32.676
211.00	8654.54	1110.41	671.94	31.025	291.00	11934.69	1525.81	921.16	32.694
212.00	8695.55	1115.60	675.05	31.049	292.00	11975.69	1531.01	924.27	32.712
213.00	8736.55	1120.80	678.17	31.074	293.00	12016.69	1536.20	927.39	32.730
214.00	8777.55	1125.99	681.29	31.098	294.00	12057.69	1541.39	930.50	32.747
215.00	8818.55	1131.18	684.40	31.122	295.00	12098.69	1546.58	933.62	32.765
216.00	8859.56	1136.38	687.52	31.147	296.00	12139.69	1551.78	936.73	32.783
217.00	8900.56	1141.57	690.63	31.171	297.00	12180.69	1556.97	939.85	32.800
218.00	8941.56	1146.76	693.75	31.194	298.00	12221.69	1562.16	942.96	32.818
219.00	8982.56	1151.95	696.86	31.218	299.00	12262.69	1567.35	946.08	32.835
220.00	9023.57	1157.15	699.98	31.242	300.00	12303.69	1572.55	949.19	32.852

1.00 ATMOSPHERE 1SQBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	1252.74	331.45	204.51	23.139
					62.00	1273.27	336.65	207.63	23.223
					63.00	1293.80	341.85	210.75	23.306
					64.00	1314.32	347.04	213.87	23.388
					65.00	1334.85	352.24	216.98	23.469
					66.00	1355.38	357.44	220.10	23.548
					67.00	1375.90	362.64	223.22	23.626
					68.00	1396.43	367.83	226.34	23.703
					69.00	1416.95	373.03	229.46	23.779
					70.00	1437.47	378.23	232.57	23.854
					71.00	1457.99	383.43	235.69	23.928
					72.00	1478.52	388.62	238.81	24.000
					73.00	1499.04	393.82	241.92	24.072
					74.00	1519.56	399.02	245.04	24.143
					75.00	1540.08	404.21	248.16	24.212
					76.00	1560.60	409.41	251.28	24.281
					77.00	1581.12	414.60	254.39	24.349
					78.00	1601.63	419.80	257.51	24.416
					79.00	1622.15	425.00	260.63	24.482
					80.00	1642.67	430.19	263.74	24.548
					81.00	1663.19	435.39	266.86	24.612
					82.00	1683.70	440.58	269.98	24.676
					83.00	1704.22	445.78	273.09	24.739
					84.00	1724.74	450.97	276.21	24.801
					85.00	1745.25	456.17	279.33	24.863
					86.00	1765.77	461.37	282.44	24.924
					87.00	1786.28	466.56	285.56	24.984
					88.00	1806.80	471.76	288.68	25.043
					89.00	1827.31	476.95	291.79	25.102
					90.00	1847.82	482.15	294.91	25.160
3.00	6.99	5.74	5.02	2.318	81.00	1663.19	435.39	266.86	24.612
4.00	7.70	8.87	8.09	3.234	82.00	1683.70	440.58	269.98	24.676
4.214	8.01	9.98	9.17	3.473	83.00	1704.22	445.78	273.09	24.739
4.214	59.83	30.88	24.82	8.432	84.00	1724.74	450.97	276.21	24.801
5.00	82.88	36.24	27.84	9.609	85.00	1745.25	456.17	279.33	24.863
6.00	108.09	42.32	31.37	10.762	86.00	1765.77	461.37	282.44	24.924
7.00	131.63	48.15	34.81	11.661	87.00	1786.28	466.56	285.56	24.984
8.00	154.27	53.79	38.16	12.414	88.00	1806.80	471.76	288.68	25.043
9.00	176.38	59.32	41.45	13.065	89.00	1827.31	476.95	291.79	25.102
10.00	198.13	64.77	44.70	13.640	90.00	1847.82	482.15	294.91	25.160
11.00	219.64	70.17	47.92	14.155	91.00	1868.34	487.34	298.03	25.217
12.00	240.98	75.54	51.12	14.622	92.00	1888.85	492.54	301.14	25.274
13.00	262.18	80.88	54.31	15.049	93.00	1909.36	497.73	304.26	25.330
14.00	283.27	86.19	57.49	15.443	94.00	1929.88	502.93	307.38	25.386
15.00	304.29	91.49	60.66	15.808	95.00	1950.39	508.12	310.49	25.441
16.00	325.24	96.77	63.82	16.150	96.00	1970.90	513.32	313.61	25.495
17.00	346.14	102.05	66.98	16.469	97.00	1991.41	518.51	316.73	25.549
18.00	366.99	107.31	70.13	16.770	98.00	2011.93	523.71	319.84	25.602
19.00	387.80	112.57	73.27	17.054	99.00	2032.44	528.90	322.96	25.655
20.00	408.59	117.82	76.42	17.324	100.00	2052.95	534.10	326.07	25.707
21.00	429.34	123.07	79.56	17.580	101.00	2073.46	539.29	329.19	25.759
22.00	450.08	128.31	82.70	17.823	102.00	2093.97	544.48	332.31	25.810
23.00	470.79	133.54	85.84	18.056	103.00	2114.48	549.68	335.42	25.861
24.00	491.49	138.77	88.97	18.279	104.00	2134.99	554.87	338.54	25.911
25.00	512.17	144.00	92.11	18.492	105.00	2155.50	560.07	341.66	25.960
26.00	532.83	149.23	95.24	18.697	106.00	2176.01	565.26	344.77	26.010
27.00	553.49	154.45	98.37	18.894	107.00	2196.52	570.46	347.89	26.058
28.00	574.13	159.67	101.50	19.084	108.00	2217.03	575.65	351.00	26.107
29.00	594.76	164.89	104.63	19.267	109.00	2237.54	580.84	354.12	26.155
30.00	615.39	170.11	107.76	19.444	110.00	2258.05	586.04	357.24	26.202
31.00	636.00	175.33	110.88	19.615	111.00	2278.56	591.23	360.35	26.249
32.00	656.61	180.54	114.01	19.781	112.00	2299.07	596.43	363.47	26.296
33.00	677.22	185.76	117.13	19.941	113.00	2319.58	601.62	366.58	26.342
34.00	697.81	190.97	120.26	20.097	114.00	2340.09	606.82	369.70	26.388
35.00	718.41	196.18	123.38	20.248	115.00	2360.59	612.01	372.82	26.433
36.00	738.99	201.39	126.51	20.395	116.00	2381.10	617.20	375.93	26.478
37.00	759.57	206.60	129.63	20.537	117.00	2401.61	622.40	379.05	26.523
38.00	780.15	211.81	132.75	20.676	118.00	2422.12	627.59	382.16	26.567
39.00	800.73	217.01	135.88	20.812	119.00	2442.63	632.79	385.28	26.611
40.00	821.30	222.22	139.00	20.943	120.00	2463.13	637.98	388.40	26.654
41.00	841.86	227.43	142.12	21.072	121.00	2483.64	643.17	391.51	26.697
42.00	862.43	232.63	145.24	21.197	122.00	2504.15	648.37	394.63	26.740
43.00	882.99	237.84	148.36	21.320	123.00	2524.66	653.56	397.74	26.782
44.00	903.54	243.04	151.49	21.440	124.00	2545.16	658.76	400.86	26.824
45.00	924.10	248.24	154.61	21.556	125.00	2565.67	663.95	403.98	26.866
46.00	944.65	253.45	157.73	21.671	126.00	2586.18	669.14	407.09	26.907
47.00	965.20	258.65	160.85	21.783	127.00	2606.69	674.34	410.21	26.949
48.00	985.75	263.85	163.97	21.892	128.00	2627.19	679.53	413.32	26.989
49.00	1006.30	269.05	167.09	22.000	129.00	2647.70	684.72	416.44	27.030
50.00	1026.84	274.25	170.21	22.105	130.00	2668.21	689.92	419.55	27.070
51.00	1047.39	279.45	173.33	22.208	131.00	2688.71	695.11	422.67	27.110
52.00	1067.93	284.66	176.45	22.309	132.00	2709.22	700.30	425.79	27.149
53.00	1088.47	289.86	179.56	22.408	133.00	2729.73	705.50	428.90	27.188
54.00	1109.01	295.06	182.68	22.505	134.00	2750.23	710.69	432.02	27.227
55.00	1129.54	300.26	185.80	22.600	135.00	2770.74	715.89	435.13	27.266
56.00	1150.08	305.46	188.92	22.694	136.00	2791.24	721.08	438.25	27.304
57.00	1170.61	310.66	192.04	22.786	137.00	2811.75	726.27	441.36	27.342
58.00	1191.15	315.85	195.16	22.876	138.00	2832.26	731.47	444.48	27.380
59.00	1211.68	321.05	198.28	22.965	139.00	2852.76	736.66	447.60	27.417
60.00	1232.21	326.25	201.39	23.053	140.00	2873.27	741.85	450.71	27.455

* PHASE CHANGE

1.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	2893.77	747.05	453.83	27.492	221.00	4534.06	1162.49	703.07	29.825
142.00	2914.28	752.24	456.94	27.528	222.00	4554.56	1167.69	706.18	29.849
143.00	2934.78	757.43	460.06	27.565	223.00	4575.07	1172.88	709.30	29.872
144.00	2955.29	762.63	463.17	27.601	224.00	4595.57	1178.07	712.41	29.895
145.00	2975.80	767.82	466.29	27.637	225.00	4616.07	1183.26	715.53	29.919
146.00	2996.30	773.01	469.41	27.673	226.00	4636.57	1188.46	718.64	29.942
147.00	3016.81	778.21	472.52	27.708	227.00	4657.08	1193.65	721.76	29.965
148.00	3037.31	783.40	475.64	27.743	228.00	4677.58	1198.84	724.87	29.987
149.00	3057.82	788.59	478.75	27.778	229.00	4698.08	1204.03	727.99	30.010
150.00	3078.32	793.79	481.87	27.813	230.00	4718.58	1209.23	731.10	30.033
151.00	3098.83	798.98	484.98	27.847	231.00	4739.08	1214.42	734.22	30.055
152.00	3119.33	804.17	488.10	27.882	232.00	4759.59	1219.61	737.34	30.078
153.00	3139.84	809.37	491.22	27.916	233.00	4780.09	1224.81	740.45	30.100
154.00	3160.34	814.56	494.33	27.950	234.00	4800.59	1230.00	743.57	30.122
155.00	3180.85	819.75	497.45	27.983	235.00	4821.09	1235.19	746.68	30.144
156.00	3201.35	824.95	500.56	28.017	236.00	4841.60	1240.38	749.80	30.166
157.00	3221.85	830.14	503.68	28.050	237.00	4862.10	1245.58	752.91	30.188
158.00	3242.36	835.33	506.79	28.083	238.00	4882.60	1250.77	756.03	30.210
159.00	3262.86	840.53	509.91	28.116	239.00	4903.10	1255.96	759.14	30.232
160.00	3283.37	845.72	513.02	28.148	240.00	4923.60	1261.16	762.26	30.254
161.00	3303.87	850.91	516.14	28.180	241.00	4944.11	1266.35	765.37	30.275
162.00	3324.38	856.11	519.26	28.213	242.00	4964.61	1271.54	768.49	30.297
163.00	3344.88	861.30	522.37	28.245	243.00	4985.11	1276.73	771.60	30.318
164.00	3365.38	866.49	525.49	28.276	244.00	5005.61	1281.93	774.72	30.340
165.00	3385.89	871.69	528.60	28.308	245.00	5026.11	1287.12	777.83	30.361
166.00	3406.39	876.88	531.72	28.339	246.00	5046.61	1292.31	780.95	30.382
167.00	3426.90	882.07	534.83	28.371	247.00	5067.12	1297.50	784.07	30.403
168.00	3447.40	887.27	537.95	28.402	248.00	5087.62	1302.70	787.18	30.424
169.00	3467.91	892.46	541.06	28.432	249.00	5108.12	1307.89	790.30	30.445
170.00	3488.41	897.65	544.18	28.463	250.00	5128.62	1313.08	793.41	30.466
171.00	3508.91	902.85	547.30	28.493	251.00	5149.12	1318.28	796.53	30.486
172.00	3529.42	908.04	550.41	28.524	252.00	5169.63	1323.47	799.64	30.507
173.00	3549.92	913.23	553.53	28.554	253.00	5190.13	1328.66	802.76	30.528
174.00	3570.42	918.42	556.64	28.584	254.00	5210.63	1333.85	805.87	30.548
175.00	3590.93	923.62	559.76	28.614	255.00	5231.13	1339.05	808.99	30.569
176.00	3611.43	928.81	562.87	28.643	256.00	5251.63	1344.24	812.10	30.589
177.00	3631.94	934.00	565.99	28.673	257.00	5272.13	1349.43	815.22	30.609
178.00	3652.44	939.20	569.10	28.702	258.00	5292.64	1354.62	818.33	30.629
179.00	3672.94	944.39	572.22	28.731	259.00	5313.14	1359.82	821.45	30.649
180.00	3693.45	949.58	575.33	28.760	260.00	5333.64	1365.01	824.56	30.669
181.00	3713.95	954.78	578.45	28.789	261.00	5354.14	1370.20	827.68	30.689
182.00	3734.45	959.97	581.57	28.817	262.00	5374.64	1375.39	830.79	30.709
183.00	3754.96	965.16	584.68	28.846	263.00	5395.14	1380.59	833.91	30.729
184.00	3775.46	970.36	587.80	28.874	264.00	5415.65	1385.78	837.03	30.749
185.00	3795.96	975.55	590.91	28.902	265.00	5436.15	1390.97	840.14	30.768
186.00	3816.47	980.74	594.03	28.930	266.00	5456.65	1396.17	843.26	30.788
187.00	3836.97	985.93	597.14	28.958	267.00	5477.15	1401.36	846.37	30.807
188.00	3857.47	991.13	600.26	28.986	268.00	5497.65	1406.55	849.49	30.827
189.00	3877.98	996.32	603.37	29.013	269.00	5518.15	1411.74	852.60	30.846
190.00	3898.48	1001.51	606.49	29.041	270.00	5538.66	1416.94	855.72	30.865
191.00	3918.98	1006.71	609.60	29.068	271.00	5559.16	1422.13	858.83	30.885
192.00	3939.49	1011.90	612.72	29.095	272.00	5579.66	1427.32	861.95	30.904
193.00	3959.99	1017.09	615.84	29.122	273.00	5600.16	1432.51	865.06	30.923
194.00	3980.49	1022.29	618.95	29.149	274.00	5620.66	1437.71	868.18	30.942
195.00	4000.99	1027.48	622.07	29.175	275.00	5641.16	1442.90	871.29	30.961
196.00	4021.50	1032.67	625.18	29.202	276.00	5661.67	1448.09	874.41	30.979
197.00	4042.00	1037.86	628.30	29.228	277.00	5682.17	1453.28	877.52	30.998
198.00	4062.50	1043.06	631.41	29.255	278.00	5702.67	1458.48	880.64	31.017
199.00	4083.01	1048.25	634.53	29.281	279.00	5723.17	1463.67	883.75	31.036
200.00	4103.51	1053.44	637.64	29.307	280.00	5743.67	1468.86	886.87	31.054
201.00	4124.01	1058.64	640.76	29.333	281.00	5764.17	1474.06	889.98	31.073
202.00	4144.51	1063.83	643.87	29.359	282.00	5784.67	1479.25	893.10	31.091
203.00	4165.02	1069.02	646.99	29.384	283.00	5805.18	1484.44	896.22	31.109
204.00	4185.52	1074.21	650.11	29.410	284.00	5825.68	1489.63	899.33	31.128
205.00	4206.02	1079.41	653.22	29.435	285.00	5846.18	1494.83	902.45	31.146
206.00	4226.53	1084.60	656.34	29.460	286.00	5866.68	1500.02	905.56	31.164
207.00	4247.03	1089.79	659.45	29.486	287.00	5887.18	1505.21	908.68	31.182
208.00	4267.53	1094.99	662.57	29.511	288.00	5907.68	1510.40	911.79	31.200
209.00	4288.03	1100.18	665.68	29.536	289.00	5928.18	1515.60	914.91	31.218
210.00	4308.54	1105.37	668.80	29.560	290.00	5948.69	1520.79	918.02	31.236
211.00	4329.04	1110.56	671.91	29.585	291.00	5969.19	1525.98	921.14	31.254
212.00	4349.54	1115.76	675.03	29.610	292.00	5989.69	1531.17	924.25	31.272
213.00	4370.04	1120.95	678.14	29.634	293.00	6010.19	1536.37	927.37	31.290
214.00	4390.55	1126.14	681.26	29.658	294.00	6030.69	1541.56	930.48	31.308
215.00	4411.05	1131.34	684.37	29.682	295.00	6051.19	1546.75	933.60	31.325
216.00	4431.55	1136.53	687.49	29.707	296.00	6071.69	1551.94	936.71	31.343
217.00	4452.05	1141.72	690.61	29.731	297.00	6092.19	1557.14	939.83	31.360
218.00	4472.56	1146.91	693.72	29.754	298.00	6112.70	1562.33	942.94	31.378
219.00	4493.06	1152.11	696.84	29.778	299.00	6133.20	1567.52	946.06	31.395
220.00	4513.56	1157.30	699.95	29.802	300.00	6153.70	1572.71	949.17	31.412

2.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	627.50	331.50	204.33	21.696
					62.00	637.78	336.70	207.45	21.780
					63.00	648.06	341.90	210.57	21.864
					64.00	658.34	347.11	213.69	21.946
					65.00	668.61	352.31	216.81	22.026
					66.00	678.89	357.51	219.93	22.106
					67.00	689.16	362.72	223.05	22.184
					68.00	699.44	367.92	226.17	22.261
					69.00	709.71	373.12	229.29	22.337
					70.00	719.98	378.32	232.41	22.412
					71.00	730.25	383.52	235.53	22.486
					72.00	740.52	388.72	238.65	22.558
					73.00	750.80	393.92	241.77	22.630
					74.00	761.07	399.12	244.89	22.701
					75.00	771.33	404.32	248.01	22.771
					76.00	781.60	409.52	251.13	22.839
					77.00	791.87	414.72	254.25	22.907
					78.00	802.14	419.92	257.37	22.975
					79.00	812.41	425.12	260.48	23.041
					80.00	822.68	430.32	263.60	23.106
					81.00	832.94	435.52	266.72	23.171
					82.00	843.21	440.72	269.84	23.235
					83.00	853.48	445.92	272.96	23.298
					84.00	863.74	451.12	276.08	23.360
					85.00	874.01	456.32	279.20	23.421
					86.00	884.27	461.52	282.31	23.482
					87.00	894.54	466.71	285.43	23.542
					88.00	904.80	471.91	288.55	23.602
					89.00	915.06	477.11	291.67	23.660
					90.00	925.33	482.31	294.79	23.718
3.00	6.87	6.31	4.92	2.275	91.00	935.59	487.51	297.90	23.776
4.00	7.45	9.25	7.74	3.136	92.00	945.86	492.70	301.02	23.833
5.00	9.36	15.90	14.00	4.550	93.00	956.12	497.90	304.14	23.889
* 5.031	10.18	16.48	14.42	4.674	94.00	966.38	503.10	307.26	23.945
* 5.031	24.33	27.68	22.75	6.904	95.00	976.64	508.30	310.37	24.000
6.00	45.83	38.23	28.95	8.899	96.00	986.91	513.49	313.49	24.054
7.00	59.74	45.04	32.94	9.950	97.00	997.17	518.69	316.61	24.108
8.00	72.35	51.27	36.61	10.782	98.00	1007.43	523.89	319.73	24.161
9.00	84.28	57.20	40.12	11.481	99.00	1017.69	529.08	322.84	24.214
10.00	95.82	62.94	43.53	12.086	100.00	1027.95	534.28	325.96	24.266
11.00	107.08	68.57	46.87	12.623	101.00	1038.21	539.48	329.08	24.318
12.00	118.16	74.12	50.17	13.105	102.00	1048.47	544.68	332.20	24.369
13.00	129.10	79.60	53.44	13.544	103.00	1058.73	549.87	335.31	24.420
14.00	139.93	85.04	56.69	13.948	104.00	1068.99	555.07	338.43	24.470
15.00	150.69	90.45	59.91	14.320	105.00	1079.25	560.26	341.55	24.520
16.00	161.38	95.83	63.12	14.668	106.00	1089.51	565.46	344.67	24.569
17.00	172.01	101.18	66.32	14.992	107.00	1099.77	570.66	347.78	24.618
18.00	182.61	106.52	69.51	15.297	108.00	1110.03	575.85	350.90	24.666
19.00	193.16	111.84	72.69	15.585	109.00	1120.29	581.05	354.02	24.714
20.00	203.69	117.14	75.87	15.857	110.00	1130.55	586.25	357.13	24.761
21.00	214.19	122.44	79.03	16.115	111.00	1140.81	591.44	360.25	24.808
22.00	224.66	127.73	82.20	16.361	112.00	1151.07	596.64	363.37	24.855
23.00	235.12	133.00	85.36	16.596	113.00	1161.33	601.83	366.48	24.901
24.00	245.56	138.28	88.51	16.820	114.00	1171.59	607.03	369.60	24.947
25.00	255.99	143.54	91.66	17.035	115.00	1181.85	612.23	372.72	24.992
26.00	266.40	148.80	94.81	17.241	116.00	1192.10	617.42	375.83	25.037
27.00	276.80	154.05	97.96	17.440	117.00	1202.36	622.62	378.95	25.082
28.00	287.19	159.30	101.10	17.631	118.00	1212.62	627.81	382.07	25.126
29.00	297.57	164.55	104.25	17.815	119.00	1222.88	633.01	385.19	25.170
30.00	307.94	169.79	107.39	17.992	120.00	1233.14	638.20	388.30	25.213
31.00	318.30	175.03	110.52	18.164	121.00	1243.39	643.40	391.42	25.257
32.00	328.66	180.27	113.66	18.331	122.00	1253.65	648.59	394.54	25.299
33.00	339.01	185.50	116.80	18.492	123.00	1263.91	653.79	397.65	25.342
34.00	349.36	190.73	119.93	18.648	124.00	1274.16	658.98	400.77	25.384
35.00	359.69	195.96	123.07	18.799	125.00	1284.42	664.18	403.88	25.426
36.00	370.03	201.19	126.20	18.947	126.00	1294.68	669.38	407.00	25.467
37.00	380.36	206.41	129.33	19.090	127.00	1304.94	674.57	410.12	25.508
38.00	390.68	211.64	132.46	19.229	128.00	1315.19	679.77	413.23	25.549
39.00	401.01	216.86	135.59	19.365	129.00	1325.45	684.96	416.35	25.589
40.00	411.32	222.08	138.72	19.497	130.00	1335.71	690.16	419.47	25.629
41.00	421.64	227.30	141.85	19.626	131.00	1345.96	695.35	422.58	25.669
42.00	431.95	232.52	144.98	19.751	132.00	1356.22	700.55	425.70	25.709
43.00	442.26	237.73	148.11	19.874	133.00	1366.48	705.74	428.82	25.748
44.00	452.57	242.95	151.23	19.994	134.00	1376.73	710.94	431.93	25.787
45.00	462.87	248.16	154.36	20.111	135.00	1386.99	716.13	435.05	25.825
46.00	473.17	253.38	157.48	20.226	136.00	1397.24	721.32	438.17	25.864
47.00	483.47	258.59	160.61	20.338	137.00	1407.50	726.52	441.28	25.902
48.00	493.77	263.80	163.73	20.448	138.00	1417.76	731.71	444.40	25.940
49.00	504.07	269.01	166.86	20.555	139.00	1428.01	736.91	447.51	25.977
50.00	514.36	274.22	169.98	20.660	140.00	1438.27	742.10	450.63	26.014
51.00	524.65	279.43	173.11	20.764					
52.00	534.94	284.64	176.23	20.865					
53.00	545.23	289.85	179.35	20.964					
54.00	555.52	295.06	182.48	21.061					
55.00	565.81	300.26	185.60	21.157					
56.00	576.09	305.47	188.72	21.251					
57.00	586.38	310.68	191.84	21.343					
58.00	596.66	315.88	194.97	21.433					
59.00	606.94	321.09	198.09	21.522					
60.00	617.22	326.29	201.21	21.610					

* PHASE CHANGE

2.00 ATMOSPHERE ISOBAR

TEMPERATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPERATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	1448.52	747.30	453.75	26.051	221.00	2268.81	1162.80	703.02	28.385
142.00	1458.78	752.49	456.86	26.088	222.00	2279.06	1167.99	706.13	28.409
143.00	1469.03	757.69	459.98	26.124	223.00	2289.31	1173.19	709.25	28.432
144.00	1479.29	762.88	463.10	26.161	224.00	2299.57	1178.38	712.36	28.455
145.00	1489.54	768.08	466.21	26.197	225.00	2309.82	1183.57	715.48	28.479
146.00	1499.80	773.27	469.33	26.232	226.00	2320.07	1188.77	718.59	28.502
147.00	1510.06	778.47	472.44	26.268	227.00	2330.32	1193.96	721.71	28.524
148.00	1520.31	783.66	475.56	26.303	228.00	2340.58	1199.15	724.82	28.547
149.00	1530.57	788.85	478.68	26.338	229.00	2350.83	1204.35	727.94	28.570
150.00	1540.82	794.05	481.79	26.373	230.00	2361.08	1209.54	731.06	28.593
151.00	1551.08	799.24	484.91	26.407	231.00	2371.33	1214.73	734.17	28.615
152.00	1561.33	804.44	488.03	26.441	232.00	2381.58	1219.93	737.29	28.638
153.00	1571.58	809.63	491.14	26.476	233.00	2391.84	1225.12	740.40	28.660
154.00	1581.84	814.83	494.26	26.509	234.00	2402.09	1230.31	743.52	28.682
155.00	1592.09	820.02	497.37	26.543	235.00	2412.34	1235.51	746.63	28.704
156.00	1602.35	825.21	500.49	26.576	236.00	2422.59	1240.70	749.75	28.726
157.00	1612.60	830.41	503.61	26.610	237.00	2432.84	1245.89	752.86	28.748
158.00	1622.86	835.60	506.72	26.643	238.00	2443.10	1251.09	755.98	28.770
159.00	1633.11	840.80	509.84	26.675	239.00	2453.35	1256.28	759.10	28.792
160.00	1643.37	845.99	512.95	26.708	240.00	2463.60	1261.47	762.21	28.814
161.00	1653.62	851.18	516.07	26.740	241.00	2473.85	1266.67	765.33	28.835
162.00	1663.88	856.38	519.19	26.772	242.00	2484.10	1271.86	768.44	28.857
163.00	1674.13	861.57	522.30	26.804	243.00	2494.36	1277.05	771.56	28.878
164.00	1684.38	866.77	525.42	26.836	244.00	2504.61	1282.24	774.67	28.900
165.00	1694.64	871.96	528.53	26.868	245.00	2514.86	1287.44	777.79	28.921
166.00	1704.89	877.16	531.65	26.899	246.00	2525.11	1292.63	780.90	28.942
167.00	1715.15	882.35	534.77	26.930	247.00	2535.36	1297.82	784.02	28.963
168.00	1725.40	887.54	537.88	26.961	248.00	2545.62	1303.02	787.13	28.984
169.00	1735.65	892.74	541.00	26.992	249.00	2555.87	1308.21	790.25	29.005
170.00	1745.91	897.93	544.11	27.023	250.00	2566.12	1313.40	793.37	29.026
171.00	1756.16	903.12	547.23	27.053	251.00	2576.37	1318.60	796.48	29.046
172.00	1766.42	908.32	550.34	27.084	252.00	2586.62	1323.79	799.60	29.067
173.00	1776.67	913.51	553.46	27.114	253.00	2596.87	1328.98	802.71	29.088
174.00	1786.92	918.71	556.58	27.144	254.00	2607.13	1334.18	805.83	29.108
175.00	1797.18	923.90	559.69	27.173	255.00	2617.38	1339.37	808.94	29.129
176.00	1807.43	929.09	562.81	27.203	256.00	2627.63	1344.56	812.06	29.149
177.00	1817.68	934.29	565.92	27.232	257.00	2637.88	1349.75	815.17	29.169
178.00	1827.94	939.48	569.04	27.262	258.00	2648.13	1354.95	818.29	29.189
179.00	1838.19	944.68	572.16	27.291	259.00	2658.38	1360.14	821.40	29.209
180.00	1848.44	949.87	575.27	27.320	260.00	2668.64	1365.33	824.52	29.229
181.00	1858.70	955.06	578.39	27.348	261.00	2678.89	1370.53	827.64	29.249
182.00	1868.95	960.26	581.50	27.377	262.00	2689.14	1375.72	830.75	29.269
183.00	1879.20	965.45	584.62	27.405	263.00	2699.39	1380.91	833.87	29.289
184.00	1889.46	970.64	587.73	27.434	264.00	2709.64	1386.11	836.98	29.309
185.00	1899.71	975.84	590.85	27.462	265.00	2719.89	1391.30	840.10	29.328
186.00	1909.96	981.03	593.97	27.490	266.00	2730.15	1396.49	843.21	29.348
187.00	1920.22	986.22	597.08	27.518	267.00	2740.40	1401.68	846.33	29.367
188.00	1930.47	991.42	600.20	27.545	268.00	2750.65	1406.88	849.44	29.387
189.00	1940.72	996.61	603.31	27.573	269.00	2760.90	1412.07	852.56	29.406
190.00	1950.98	1001.81	606.43	27.600	270.00	2771.15	1417.26	855.67	29.425
191.00	1961.23	1007.00	609.55	27.628	271.00	2781.40	1422.46	858.79	29.445
192.00	1971.48	1012.19	612.66	27.655	272.00	2791.66	1427.65	861.91	29.464
193.00	1981.74	1017.39	615.78	27.682	273.00	2801.91	1432.84	865.02	29.483
194.00	1991.99	1022.58	618.89	27.709	274.00	2812.16	1438.04	868.14	29.502
195.00	2002.24	1027.77	622.01	27.735	275.00	2822.41	1443.23	871.25	29.521
196.00	2012.50	1032.97	625.12	27.762	276.00	2832.66	1448.42	874.37	29.539
197.00	2022.75	1038.16	628.24	27.788	277.00	2842.91	1453.61	877.48	29.558
198.00	2033.00	1043.35	631.36	27.815	278.00	2853.16	1458.81	880.60	29.577
199.00	2043.25	1048.55	634.47	27.841	279.00	2863.42	1464.00	883.71	29.596
200.00	2053.51	1053.74	637.59	27.867	280.00	2873.67	1469.19	886.83	29.614
201.00	2063.76	1058.93	640.70	27.893	281.00	2883.92	1474.39	889.94	29.633
202.00	2074.01	1064.13	643.82	27.919	282.00	2894.17	1479.58	893.06	29.651
203.00	2084.26	1069.32	646.93	27.944	283.00	2904.42	1484.77	896.18	29.670
204.00	2094.52	1074.51	650.05	27.970	284.00	2914.67	1489.96	899.29	29.688
205.00	2104.77	1079.71	653.17	27.995	285.00	2924.92	1495.16	902.41	29.706
206.00	2115.02	1084.90	656.28	28.020	286.00	2935.18	1500.35	905.52	29.724
207.00	2125.28	1090.10	659.40	28.045	287.00	2945.43	1505.54	908.64	29.742
208.00	2135.53	1095.29	662.51	28.071	288.00	2955.68	1510.74	911.75	29.760
209.00	2145.78	1100.48	665.63	28.095	289.00	2965.93	1515.93	914.87	29.778
210.00	2156.03	1105.68	668.74	28.120	290.00	2976.18	1521.12	917.98	29.796
211.00	2166.29	1110.87	671.86	28.145	291.00	2986.43	1526.32	921.10	29.814
212.00	2176.54	1116.06	674.97	28.169	292.00	2996.68	1531.51	924.21	29.832
213.00	2186.79	1121.26	678.09	28.194	293.00	3006.94	1536.70	927.33	29.850
214.00	2197.04	1126.45	681.21	28.218	294.00	3017.19	1541.89	930.44	29.868
215.00	2207.30	1131.64	684.32	28.242	295.00	3027.44	1547.09	933.56	29.885
216.00	2217.55	1136.84	687.44	28.267	296.00	3037.69	1552.28	936.68	29.903
217.00	2227.80	1142.03	690.55	28.291	297.00	3047.94	1557.47	939.79	29.920
218.00	2238.05	1147.22	693.67	28.314	298.00	3058.19	1562.67	942.91	29.938
219.00	2248.31	1152.42	696.78	28.338	299.00	3068.44	1567.86	946.02	29.955
220.00	2258.56	1157.61	699.90	28.362	300.00	3078.69	1573.05	949.14	29.972

3.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	419.10	331.55	204.15	20.851
					62.00	425.96	336.76	207.27	20.935
					63.00	432.82	341.96	210.39	21.019
					64.00	439.68	347.17	213.52	21.101
					65.00	446.54	352.38	216.64	21.181
					66.00	453.40	357.59	219.76	21.261
					67.00	460.25	362.80	222.89	21.339
					68.00	467.11	368.00	226.01	21.416
					69.00	473.97	373.21	229.13	21.492
					70.00	480.82	378.42	232.25	21.567
					71.00	487.68	383.62	235.38	21.641
					72.00	494.53	388.83	238.50	21.714
					73.00	501.39	394.03	241.62	21.786
					74.00	508.24	399.24	244.74	21.857
					75.00	515.09	404.44	247.86	21.926
					76.00	521.94	409.64	250.98	21.995
					77.00	528.80	414.85	254.10	22.063
					78.00	535.65	420.05	257.22	22.131
					79.00	542.50	425.25	260.34	22.197
					80.00	549.35	430.46	263.46	22.262
					81.00	556.20	435.66	266.58	22.327
					82.00	563.05	440.86	269.70	22.391
					83.00	569.90	446.06	272.82	22.454
					84.00	576.75	451.27	275.94	22.516
					85.00	583.60	456.47	279.06	22.578
					86.00	590.44	461.67	282.18	22.638
					87.00	597.29	466.87	285.30	22.699
					88.00	604.14	472.07	288.42	22.758
					89.00	610.99	477.27	291.54	22.817
					90.00	617.83	482.47	294.66	22.875
					91.00	624.68	487.67	297.78	22.932
					92.00	631.53	492.87	300.90	22.989
					93.00	638.37	498.07	304.02	23.045
					94.00	645.22	503.27	307.14	23.101
					95.00	652.06	508.47	310.26	23.156
					96.00	658.91	513.67	313.38	23.210
					97.00	665.75	518.87	316.49	23.264
					98.00	672.60	524.07	319.61	23.318
					99.00	679.44	529.27	322.73	23.370
					100.00	686.29	534.47	325.85	23.423
					101.00	693.13	539.67	328.97	23.474
					102.00	699.98	544.87	332.09	23.526
					103.00	706.82	550.07	335.20	23.576
					104.00	713.66	555.26	338.32	23.627
					105.00	720.51	560.46	341.44	23.676
					106.00	727.35	565.66	344.56	23.726
					107.00	734.19	570.86	347.68	23.774
					108.00	741.04	576.06	350.80	23.823
					109.00	747.88	581.26	353.91	23.871
					110.00	754.72	586.45	357.03	23.918
					111.00	761.56	591.65	360.15	23.965
					112.00	768.40	596.85	363.27	24.012
					113.00	775.25	602.05	366.38	24.058
					114.00	782.09	607.24	369.50	24.104
					115.00	788.93	612.44	372.62	24.149
					116.00	795.77	617.64	375.74	24.194
					117.00	802.61	622.84	378.86	24.239
					118.00	809.45	628.03	381.97	24.283
					119.00	816.30	633.23	385.09	24.327
					120.00	823.14	638.43	388.21	24.370
					121.00	829.98	643.62	391.33	24.414
					122.00	836.82	648.82	394.44	24.456
					123.00	843.66	654.02	397.56	24.499
					124.00	850.50	659.22	400.68	24.541
					125.00	857.34	664.41	403.79	24.583
					126.00	864.18	669.61	406.91	24.624
					127.00	871.02	674.81	410.03	24.665
					128.00	877.86	680.00	413.15	24.706
					129.00	884.70	685.20	416.26	24.746
					130.00	891.54	690.39	419.38	24.786
					131.00	898.38	695.59	422.50	24.826
					132.00	905.22	700.79	425.62	24.866
					133.00	912.06	705.98	428.73	24.905
					134.00	918.90	711.18	431.85	24.944
					135.00	925.74	716.38	434.97	24.982
					136.00	932.58	721.57	438.08	25.021
					137.00	939.42	726.77	441.20	25.059
					138.00	946.26	731.96	444.32	25.097
					139.00	953.10	737.16	447.43	25.134
					140.00	959.93	742.35	450.55	25.171
3.00	6.77	6.89	4.83	2.237					
4.00	7.27	9.69	7.48	3.060					
5.00	8.41	14.32	11.77	4.104					
6.00	24.12	33.02	25.69	7.462					
7.00	35.72	41.66	30.80	8.799					
8.00	45.14	48.66	34.94	9.735					
9.00	53.73	55.06	38.73	10.489					
10.00	61.86	61.13	42.33	11.129					
11.00	69.70	67.00	45.81	11.689					
12.00	77.35	72.73	49.22	12.187					
13.00	84.86	78.37	52.57	12.639					
14.00	92.26	83.93	55.89	13.051					
15.00	99.59	89.44	59.17	13.431					
16.00	106.85	94.91	62.43	13.784					
17.00	114.06	100.34	65.67	14.114					
18.00	121.22	105.75	68.90	14.423					
19.00	128.35	111.13	72.11	14.714					
20.00	135.46	116.49	75.32	14.989					
21.00	142.53	121.84	78.51	15.249					
22.00	149.58	127.17	81.70	15.497					
23.00	156.62	132.49	84.88	15.734					
24.00	163.64	137.80	88.06	15.960					
25.00	170.64	143.10	91.23	16.176					
26.00	177.63	148.39	94.39	16.384					
27.00	184.61	153.67	97.55	16.583					
28.00	191.58	158.95	100.71	16.775					
29.00	198.54	164.22	103.87	16.960					
30.00	205.49	169.49	107.02	17.138					
31.00	212.43	174.75	110.17	17.311					
32.00	219.37	180.00	113.32	17.478					
33.00	226.30	185.26	116.47	17.640					
34.00	233.23	190.51	119.61	17.796					
35.00	240.15	195.75	122.75	17.948					
36.00	247.06	201.00	125.89	18.096					
37.00	253.98	206.24	129.03	18.240					
38.00	260.88	211.48	132.17	18.379					
39.00	267.79	216.71	135.31	18.515					
40.00	274.69	221.95	138.45	18.648					
41.00	281.58	227.18	141.58	18.777					
42.00	288.48	232.41	144.72	18.903					
43.00	295.37	237.64	147.85	19.026					
44.00	302.26	242.86	150.98	19.146					
45.00	309.15	248.09	154.11	19.264					
46.00	316.03	253.31	157.24	19.379					
47.00	322.91	258.53	160.37	19.491					
48.00	329.79	263.76	163.50	19.601					
49.00	336.67	268.98	166.63	19.708					
50.00	343.55	274.19	169.76	19.814					
51.00	350.42	279.41	172.89	19.917					
52.00	357.29	284.63	176.02	20.018					
53.00	364.17	289.85	179.14	20.118					
54.00	371.04	295.06	182.27	20.215					
55.00	377.91	300.27	185.40	20.311					
56.00	384.77	305.49	188.52	20.405					
57.00	391.64	310.70	191.65	20.497					
58.00	398.51	315.91	194.77	20.588					
59.00	405.37	321.12	197.90	20.677					
60.00	412.23	326.34	201.02	20.764					

3.00 ATMOSPHERE 1SOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	966.77	747.55	453.67	25.208	221.00	1513.73	1163.11	702.96	27.543
142.00	973.61	752.75	456.78	25.245	222.00	1520.56	1168.30	706.08	27.566
143.00	980.45	757.94	459.90	25.282	223.00	1527.40	1173.50	709.20	27.590
144.00	987.29	763.14	463.02	25.318	224.00	1534.23	1178.69	712.31	27.613
145.00	994.13	768.33	466.13	25.354	225.00	1541.07	1183.89	715.43	27.636
146.00	1000.97	773.53	469.25	25.389	226.00	1547.90	1189.08	718.54	27.659
147.00	1007.81	778.72	472.37	25.425	227.00	1554.74	1194.27	721.66	27.682
148.00	1014.64	783.92	475.48	25.460	228.00	1561.57	1199.47	724.77	27.705
149.00	1021.48	789.11	478.60	25.495	229.00	1568.41	1204.66	727.89	27.728
150.00	1028.32	794.31	481.72	25.530	230.00	1575.25	1209.85	731.01	27.750
151.00	1035.16	799.51	484.83	25.564	231.00	1582.08	1215.05	734.12	27.773
152.00	1042.00	804.70	487.95	25.599	232.00	1588.92	1220.24	737.24	27.795
153.00	1048.84	809.90	491.07	25.633	233.00	1595.75	1225.43	740.35	27.818
154.00	1055.67	815.09	494.18	25.667	234.00	1602.59	1230.63	743.47	27.840
155.00	1062.51	820.29	497.30	25.700	235.00	1609.42	1235.82	746.58	27.862
156.00	1069.35	825.48	500.42	25.734	236.00	1616.26	1241.02	749.70	27.884
157.00	1076.19	830.68	503.53	25.767	237.00	1623.09	1246.21	752.82	27.906
158.00	1083.02	835.87	506.65	25.800	238.00	1629.93	1251.40	755.93	27.928
159.00	1089.86	841.07	509.77	25.833	239.00	1636.76	1256.60	759.05	27.950
160.00	1096.70	846.26	512.88	25.865	240.00	1643.60	1261.79	762.16	27.971
161.00	1103.54	851.46	516.00	25.898	241.00	1650.43	1266.98	765.28	27.993
162.00	1110.38	856.65	519.12	25.930	242.00	1657.27	1272.18	768.39	28.014
163.00	1117.21	861.85	522.23	25.962	243.00	1664.10	1277.37	771.51	28.036
164.00	1124.05	867.04	525.35	25.993	244.00	1670.94	1282.56	774.63	28.057
165.00	1130.89	872.24	528.47	26.025	245.00	1677.78	1287.76	777.74	28.078
166.00	1137.73	877.43	531.58	26.056	246.00	1684.61	1292.95	780.86	28.099
167.00	1144.56	882.63	534.70	26.088	247.00	1691.45	1298.14	783.97	28.121
168.00	1151.40	887.82	537.81	26.119	248.00	1698.28	1303.34	787.09	28.142
169.00	1158.24	893.01	540.93	26.149	249.00	1705.12	1308.53	790.20	28.162
170.00	1165.07	898.21	544.05	26.180	250.00	1711.95	1313.72	793.32	28.183
171.00	1171.91	903.40	547.16	26.211	251.00	1718.79	1318.92	796.44	28.204
172.00	1178.75	908.60	550.28	26.241	252.00	1725.62	1324.11	799.55	28.225
173.00	1185.59	913.79	553.40	26.271	253.00	1732.46	1329.30	802.67	28.245
174.00	1192.42	918.99	556.51	26.301	254.00	1739.29	1334.50	805.78	28.266
175.00	1199.26	924.18	559.63	26.331	255.00	1746.13	1339.69	808.90	28.286
176.00	1206.10	929.38	562.74	26.360	256.00	1752.96	1344.88	812.01	28.306
177.00	1212.93	934.57	565.86	26.390	257.00	1759.80	1350.08	815.13	28.327
178.00	1219.77	939.77	568.98	26.419	258.00	1766.63	1355.27	818.25	28.347
179.00	1226.61	944.96	572.09	26.448	259.00	1773.47	1360.47	821.36	28.367
180.00	1233.44	950.16	575.21	26.477	260.00	1780.30	1365.66	824.48	28.387
181.00	1240.28	955.35	578.33	26.506	261.00	1787.14	1370.85	827.59	28.407
182.00	1247.12	960.54	581.44	26.534	262.00	1793.97	1376.05	830.71	28.427
183.00	1253.95	965.74	584.56	26.563	263.00	1800.81	1381.24	833.82	28.447
184.00	1260.79	970.93	587.67	26.591	264.00	1807.64	1386.43	836.94	28.466
185.00	1267.63	976.13	590.79	26.619	265.00	1814.48	1391.63	840.05	28.486
186.00	1274.46	981.32	593.91	26.647	266.00	1821.31	1396.82	843.17	28.505
187.00	1281.30	986.52	597.02	26.675	267.00	1828.15	1402.01	846.29	28.525
188.00	1288.14	991.71	600.14	26.703	268.00	1834.98	1407.20	849.40	28.544
189.00	1294.97	996.90	603.25	26.730	269.00	1841.82	1412.40	852.52	28.564
190.00	1301.81	1002.10	606.37	26.758	270.00	1848.65	1417.59	855.63	28.583
191.00	1308.65	1007.29	609.49	26.785	271.00	1855.49	1422.78	858.75	28.602
192.00	1315.48	1012.49	612.60	26.812	272.00	1862.32	1427.98	861.86	28.621
193.00	1322.32	1017.68	615.72	26.839	273.00	1869.16	1433.17	864.98	28.640
194.00	1329.16	1022.88	618.83	26.866	274.00	1875.99	1438.36	868.10	28.659
195.00	1335.99	1028.07	621.95	26.893	275.00	1882.83	1443.56	871.21	28.678
196.00	1342.83	1033.26	625.07	26.919	276.00	1889.66	1448.75	874.33	28.697
197.00	1349.66	1038.46	628.18	26.946	277.00	1896.49	1453.94	877.44	28.716
198.00	1356.50	1043.65	631.30	26.972	278.00	1903.33	1459.14	880.56	28.735
199.00	1363.34	1048.85	634.41	26.998	279.00	1910.16	1464.33	883.67	28.753
200.00	1370.17	1054.04	637.53	27.024	280.00	1917.00	1469.52	886.79	28.772
201.00	1377.01	1059.23	640.65	27.050	281.00	1923.83	1474.72	889.90	28.790
202.00	1383.84	1064.43	643.76	27.076	282.00	1930.67	1479.91	893.02	28.809
203.00	1390.68	1069.62	646.88	27.102	283.00	1937.50	1485.10	896.14	28.827
204.00	1397.52	1074.82	649.99	27.127	284.00	1944.34	1490.30	899.25	28.845
205.00	1404.35	1080.01	653.11	27.153	285.00	1951.17	1495.49	902.37	28.864
206.00	1411.19	1085.20	656.23	27.178	286.00	1958.01	1500.68	905.48	28.882
207.00	1418.02	1090.40	659.34	27.203	287.00	1964.84	1505.88	908.60	28.900
208.00	1424.86	1095.59	662.46	27.228	288.00	1971.68	1511.07	911.71	28.918
209.00	1431.70	1100.79	665.57	27.253	289.00	1978.51	1516.26	914.83	28.936
210.00	1438.53	1105.98	668.69	27.278	290.00	1985.35	1521.46	917.94	28.954
211.00	1445.37	1111.17	671.81	27.302	291.00	1992.18	1526.65	921.06	28.972
212.00	1452.20	1116.37	674.92	27.327	292.00	1999.02	1531.84	924.18	28.990
213.00	1459.04	1121.56	678.04	27.351	293.00	2005.85	1537.04	927.29	29.007
214.00	1465.88	1126.75	681.15	27.376	294.00	2012.69	1542.23	930.41	29.025
215.00	1472.71	1131.95	684.27	27.400	295.00	2019.52	1547.42	933.52	29.043
216.00	1479.55	1137.14	687.38	27.424	296.00	2026.35	1552.61	936.64	29.060
217.00	1486.38	1142.34	690.50	27.448	297.00	2033.19	1557.81	939.75	29.078
218.00	1493.22	1147.53	693.62	27.472	298.00	2040.02	1563.00	942.87	29.095
219.00	1500.05	1152.72	696.73	27.496	299.00	2046.86	1568.19	945.98	29.113
220.00	1506.89	1157.92	699.85	27.519	300.00	2053.69	1573.39	949.10	29.130

4.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	314.90	331.60	203.97	20.250
					62.00	320.05	336.81	207.09	20.335
					63.00	325.21	342.03	210.22	20.418
					64.00	330.36	347.24	213.35	20.500
					65.00	335.51	352.46	216.47	20.581
					66.00	340.66	357.67	219.60	20.661
					67.00	345.81	362.88	222.72	20.739
					68.00	350.95	368.09	225.85	20.816
					69.00	356.10	373.30	228.97	20.893
					70.00	361.25	378.51	232.10	20.968
					71.00	366.39	383.72	235.22	21.041
					72.00	371.54	388.93	238.34	21.114
					73.00	376.69	394.14	241.47	21.186
					74.00	381.83	399.35	244.59	21.257
					75.00	386.97	404.56	247.71	21.327
					76.00	392.12	409.77	250.84	21.396
					77.00	397.26	414.97	253.96	21.464
					78.00	402.40	420.18	257.08	21.531
					79.00	407.55	425.39	260.20	21.597
					80.00	412.69	430.59	263.33	21.663
					81.00	417.83	435.80	266.45	21.728
					82.00	422.97	441.00	269.57	21.791
					83.00	428.11	446.21	272.69	21.855
					84.00	433.25	451.41	275.81	21.917
					85.00	438.39	456.62	278.93	21.979
					86.00	443.53	461.82	282.05	22.039
					87.00	448.67	467.03	285.18	22.100
					88.00	453.81	472.23	288.30	22.159
					89.00	458.95	477.43	291.42	22.218
					90.00	464.09	482.64	294.54	22.276
					91.00	469.23	487.84	297.66	22.333
					92.00	474.36	493.04	300.78	22.390
					93.00	479.50	498.25	303.90	22.447
					94.00	484.64	503.45	307.02	22.502
					95.00	489.78	508.65	310.14	22.557
					96.00	494.91	513.85	313.26	22.612
					97.00	500.05	519.05	316.38	22.666
					98.00	505.19	524.26	319.50	22.719
					99.00	510.32	529.46	322.62	22.772
					100.00	515.46	534.66	325.74	22.824
					101.00	520.59	539.86	328.86	22.876
					102.00	525.73	545.06	331.98	22.927
					103.00	530.86	550.26	335.10	22.978
					104.00	536.00	555.46	338.22	23.028
					105.00	541.13	560.66	341.34	23.078
					106.00	546.27	565.86	344.45	23.127
					107.00	551.40	571.06	347.57	23.176
					108.00	556.54	576.26	350.69	23.224
					109.00	561.67	581.46	353.81	23.272
					110.00	566.81	586.66	356.93	23.320
					111.00	571.94	591.86	360.05	23.367
					112.00	577.07	597.06	363.17	23.413
					113.00	582.21	602.26	366.29	23.460
					114.00	587.34	607.46	369.40	23.505
					115.00	592.47	612.66	372.52	23.551
					116.00	597.61	617.86	375.64	23.596
					117.00	602.74	623.06	378.76	23.640
					118.00	607.87	628.26	381.88	23.685
					119.00	613.01	633.45	385.00	23.729
					120.00	618.14	638.65	388.11	23.772
					121.00	623.27	643.85	391.23	23.815
					122.00	628.40	649.05	394.35	23.858
					123.00	633.54	654.25	397.47	23.900
					124.00	638.67	659.45	400.59	23.943
					125.00	643.80	664.64	403.71	23.984
					126.00	648.93	669.84	406.82	24.026
					127.00	654.06	675.04	409.94	24.067
					128.00	659.20	680.24	413.06	24.108
					129.00	664.33	685.44	416.18	24.148
					130.00	669.46	690.63	419.29	24.188
					131.00	674.59	695.83	422.41	24.228
					132.00	679.72	701.03	425.53	24.268
					133.00	684.85	706.23	428.65	24.307
					134.00	689.98	711.42	431.77	24.346
					135.00	695.12	716.62	434.88	24.384
					136.00	700.25	721.82	438.00	24.423
					137.00	705.38	727.02	441.12	24.461
					138.00	710.51	732.21	444.24	24.499
					139.00	715.64	737.41	447.35	24.536
					140.00	720.77	742.61	450.47	24.573
3.00	6.68	7.46	4.76	2.204					
4.00	7.12	10.16	7.28	2.997					
5.00	7.99	14.32	11.08	3.939					
6.00	12.01	24.58	19.72	5.761					
7.00	23.73	37.95	28.33	7.847					
8.00	31.67	45.99	33.15	8.923					
9.00	38.58	52.92	37.28	9.741					
10.00	45.00	59.34	41.10	10.417					
11.00	51.12	65.46	44.74	11.000					
12.00	57.05	71.38	48.26	11.516					
13.00	62.83	77.17	51.70	11.979					
14.00	68.51	82.86	55.09	12.401					
15.00	74.12	88.47	58.43	12.788					
16.00	79.65	94.03	61.74	13.147					
17.00	85.14	99.54	65.03	13.481					
18.00	90.59	105.01	68.29	13.794					
19.00	96.00	110.45	71.54	14.088					
20.00	101.39	115.87	74.77	14.366					
21.00	106.75	121.26	78.00	14.629					
22.00	112.09	126.64	81.21	14.879					
23.00	117.41	132.00	84.41	15.117					
24.00	122.71	137.34	87.60	15.345					
25.00	128.00	142.67	90.79	15.562					
26.00	133.28	147.99	93.98	15.771					
27.00	138.54	153.31	97.15	15.971					
28.00	143.80	158.61	100.33	16.164					
29.00	149.05	163.91	103.49	16.350					
30.00	154.29	169.20	106.66	16.529					
31.00	159.52	174.48	109.82	16.703					
32.00	164.75	179.76	112.98	16.870					
33.00	169.97	185.03	116.14	17.032					
34.00	175.18	190.30	119.29	17.190					
35.00	180.39	195.56	122.44	17.342					
36.00	185.60	200.82	125.59	17.490					
37.00	190.80	206.07	128.74	17.634					
38.00	196.00	211.33	131.89	17.775					
39.00	201.19	216.58	135.03	17.911					
40.00	206.38	221.82	138.17	18.044					
41.00	211.57	227.07	141.32	18.173					
42.00	216.76	232.31	144.46	18.300					
43.00	221.94	237.55	147.59	18.423					
44.00	227.12	242.79	150.73	18.543					
45.00	232.29	248.02	153.87	18.661					
46.00	237.47	253.25	157.01	18.776					
47.00	242.64	258.49	160.14	18.888					
48.00	247.81	263.72	163.28	18.999					
49.00	252.98	268.95	166.41	19.106					
50.00	258.15	274.17	169.54	19.212					
51.00	263.31	279.40	172.67	19.315					
52.00	268.48	284.62	175.81	19.417					
53.00	273.64	289.85	178.94	19.516					
54.00	278.80	295.07	182.07	19.614					
55.00	283.96	300.29	185.20	19.710					
56.00	289.12	305.51	188.33	19.804					
57.00	294.28	310.73	191.46	19.896					
58.00	299.44	315.95	194.58	19.987					
59.00	304.59	321.17	197.71	20.076					
60.00	309.75	326.38	200.84	20.164					

4.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	725.90	747.80	453.59	24.610	221.00	1136.18	1163.42	702.91	26.945
142.00	731.03	753.00	456.71	24.647	222.00	1141.31	1168.61	706.03	26.969
143.00	736.16	758.20	459.82	24.683	223.00	1146.44	1173.81	709.14	26.992
144.00	741.29	763.39	462.94	24.720	224.00	1151.57	1179.00	712.26	27.015
145.00	746.42	768.59	466.06	24.756	225.00	1156.69	1184.20	715.38	27.038
146.00	751.55	773.79	469.17	24.791	226.00	1161.82	1189.39	718.49	27.061
147.00	756.68	778.98	472.29	24.827	227.00	1166.95	1194.59	721.61	27.084
148.00	761.81	784.18	475.41	24.862	228.00	1172.07	1199.78	724.73	27.107
149.00	766.94	789.38	478.53	24.897	229.00	1177.20	1204.97	727.84	27.130
150.00	772.07	794.57	481.64	24.932	230.00	1182.33	1210.17	730.96	27.152
151.00	777.20	799.77	484.76	24.966	231.00	1187.46	1215.36	734.07	27.175
152.00	782.33	804.96	487.88	25.001	232.00	1192.58	1220.56	737.19	27.197
153.00	787.46	810.16	490.99	25.035	233.00	1197.71	1225.75	740.30	27.220
154.00	792.59	815.36	494.11	25.069	234.00	1202.84	1230.94	743.42	27.242
155.00	797.72	820.55	497.23	25.102	235.00	1207.96	1236.14	746.54	27.264
156.00	802.85	825.75	500.35	25.136	236.00	1213.09	1241.33	749.65	27.286
157.00	807.98	830.94	503.46	25.169	237.00	1218.22	1246.53	752.77	27.308
158.00	813.11	836.14	506.58	25.202	238.00	1223.34	1251.72	755.88	27.330
159.00	818.24	841.34	509.70	25.235	239.00	1228.47	1256.91	759.00	27.352
160.00	823.37	846.53	512.81	25.267	240.00	1233.60	1262.11	762.12	27.373
161.00	828.50	851.73	515.93	25.300	241.00	1238.73	1267.30	765.23	27.395
162.00	833.63	856.92	519.05	25.332	242.00	1243.85	1272.49	768.35	27.417
163.00	838.76	862.12	522.16	25.364	243.00	1248.98	1277.69	771.46	27.438
164.00	843.88	867.32	525.28	25.395	244.00	1254.11	1282.88	774.58	27.459
165.00	849.01	872.51	528.40	25.427	245.00	1259.23	1288.08	777.70	27.481
166.00	854.14	877.71	531.51	25.458	246.00	1264.36	1293.27	780.81	27.502
167.00	859.27	882.90	534.63	25.490	247.00	1269.49	1298.46	783.93	27.523
168.00	864.40	888.10	537.75	25.521	248.00	1274.61	1303.66	787.04	27.544
169.00	869.53	893.29	540.86	25.552	249.00	1279.74	1308.85	790.16	27.565
170.00	874.66	898.49	543.98	25.582	250.00	1284.87	1314.05	793.28	27.585
171.00	879.79	903.68	547.10	25.613	251.00	1289.99	1319.24	796.39	27.606
172.00	884.92	908.88	550.21	25.643	252.00	1295.12	1324.43	799.51	27.627
173.00	890.04	914.08	553.33	25.673	253.00	1300.25	1329.63	802.62	27.647
174.00	895.17	919.27	556.45	25.703	254.00	1305.37	1334.82	805.74	27.668
175.00	900.30	924.47	559.56	25.733	255.00	1310.50	1340.01	808.85	27.688
176.00	905.43	929.66	562.68	25.762	256.00	1315.63	1345.21	811.97	27.709
177.00	910.56	934.86	565.80	25.792	257.00	1320.75	1350.40	815.09	27.729
178.00	915.69	940.05	568.91	25.821	258.00	1325.88	1355.60	818.20	27.749
179.00	920.82	945.25	572.03	25.850	259.00	1331.01	1360.79	821.32	27.769
180.00	925.94	950.44	575.15	25.879	260.00	1336.13	1365.98	824.43	27.789
181.00	931.07	955.64	578.26	25.908	261.00	1341.26	1371.18	827.55	27.809
182.00	936.20	960.83	581.38	25.937	262.00	1346.39	1376.37	830.66	27.829
183.00	941.33	966.03	584.50	25.965	263.00	1351.51	1381.56	833.78	27.849
184.00	946.46	971.22	587.61	25.993	264.00	1356.64	1386.76	836.90	27.868
185.00	951.59	976.42	590.73	26.021	265.00	1361.77	1391.95	840.01	27.888
186.00	956.71	981.61	593.85	26.049	266.00	1366.89	1397.14	843.13	27.908
187.00	961.84	986.81	596.96	26.077	267.00	1372.02	1402.34	846.24	27.927
188.00	966.97	992.00	600.08	26.105	268.00	1377.15	1407.53	849.36	27.947
189.00	972.10	997.20	603.19	26.133	269.00	1382.27	1412.73	852.48	27.966
190.00	977.23	1002.39	606.31	26.160	270.00	1387.40	1417.92	855.59	27.985
191.00	982.35	1007.59	609.43	26.187	271.00	1392.53	1423.11	858.71	28.004
192.00	987.48	1012.78	612.54	26.214	272.00	1397.65	1428.31	861.82	28.024
193.00	992.61	1017.98	615.66	26.241	273.00	1402.78	1433.50	864.94	28.043
194.00	997.74	1023.17	618.78	26.268	274.00	1407.91	1438.69	868.05	28.062
195.00	1002.87	1028.37	621.89	26.295	275.00	1413.03	1443.89	871.17	28.081
196.00	1007.99	1033.56	625.01	26.322	276.00	1418.16	1449.08	874.29	28.099
197.00	1013.12	1038.75	628.13	26.348	277.00	1423.29	1454.27	877.40	28.118
198.00	1018.25	1043.95	631.24	26.374	278.00	1428.41	1459.47	880.52	28.137
199.00	1023.38	1049.14	634.36	26.400	279.00	1433.54	1464.66	883.63	28.155
200.00	1028.51	1054.34	637.47	26.426	280.00	1438.67	1469.85	886.75	28.174
201.00	1033.63	1059.53	640.59	26.452	281.00	1443.79	1475.05	889.86	28.193
202.00	1038.76	1064.73	643.71	26.478	282.00	1448.92	1480.24	892.98	28.211
203.00	1043.89	1069.92	646.82	26.504	283.00	1454.04	1485.44	896.10	28.229
204.00	1049.02	1075.12	649.94	26.529	284.00	1459.17	1490.63	899.21	28.248
205.00	1054.14	1080.31	653.06	26.555	285.00	1464.30	1495.82	902.33	28.266
206.00	1059.27	1085.51	656.17	26.580	286.00	1469.42	1501.02	905.44	28.284
207.00	1064.40	1090.70	659.29	26.605	287.00	1474.55	1506.21	908.56	28.302
208.00	1069.53	1095.89	662.40	26.630	288.00	1479.68	1511.40	911.67	28.320
209.00	1074.65	1101.09	665.52	26.655	289.00	1484.80	1516.60	914.79	28.338
210.00	1079.78	1106.28	668.64	26.680	290.00	1489.93	1521.79	917.90	28.356
211.00	1084.91	1111.48	671.75	26.705	291.00	1495.06	1526.98	921.02	28.374
212.00	1090.04	1116.67	674.87	26.729	292.00	1500.18	1532.18	924.14	28.392
213.00	1095.16	1121.87	677.98	26.754	293.00	1505.31	1537.37	927.25	28.410
214.00	1100.29	1127.06	681.10	26.778	294.00	1510.43	1542.56	930.37	28.427
215.00	1105.42	1132.25	684.22	26.802	295.00	1515.56	1547.76	933.48	28.445
216.00	1110.55	1137.45	687.33	26.826	296.00	1520.69	1552.95	936.60	28.463
217.00	1115.67	1142.64	690.45	26.850	297.00	1525.81	1558.14	939.71	28.480
218.00	1120.80	1147.84	693.56	26.874	298.00	1530.94	1563.34	942.83	28.498
219.00	1125.93	1153.03	696.68	26.898	299.00	1536.07	1568.53	945.95	28.515
220.00	1131.06	1158.23	699.80	26.922	300.00	1541.19	1573.72	949.06	28.532

5.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	252.39	331.66	203.79	19.784
					62.00	256.52	336.88	206.92	19.869
					63.00	260.64	342.10	210.05	19.952
					64.00	264.77	347.32	213.18	20.034
					65.00	268.89	352.53	216.30	20.115
					66.00	273.02	357.75	219.43	20.195
					67.00	277.14	362.97	222.56	20.273
					68.00	281.26	368.18	225.69	20.351
					69.00	285.39	373.40	228.81	20.427
					70.00	289.51	378.61	231.94	20.502
					71.00	293.63	383.83	235.06	20.576
					72.00	297.75	389.04	238.19	20.649
					73.00	301.87	394.25	241.32	20.721
					74.00	305.99	399.47	244.44	20.792
					75.00	310.11	404.68	247.57	20.861
					76.00	314.23	409.89	250.69	20.931
					77.00	318.34	415.10	253.82	20.999
					78.00	322.46	420.31	256.94	21.066
					79.00	326.58	425.52	260.06	21.132
					80.00	330.70	430.73	263.19	21.198
					81.00	334.81	435.94	266.31	21.262
					82.00	338.93	441.15	269.43	21.326
					83.00	343.04	446.36	272.56	21.389
					84.00	347.16	451.56	275.68	21.452
					85.00	351.27	456.77	278.80	21.513
					86.00	355.39	461.98	281.93	21.574
					87.00	359.50	467.19	285.05	21.635
					88.00	363.62	472.39	288.17	21.694
					89.00	367.73	477.60	291.29	21.753
					90.00	371.84	482.81	294.42	21.811
					91.00	375.96	488.01	297.54	21.869
					92.00	380.07	493.22	300.66	21.926
					93.00	384.18	498.42	303.78	21.982
					94.00	388.29	503.63	306.90	22.037
					95.00	392.41	508.83	310.02	22.093
					96.00	396.52	514.03	313.14	22.147
					97.00	400.63	519.24	316.27	22.201
					98.00	404.74	524.44	319.39	22.254
					99.00	408.85	529.65	322.51	22.307
					100.00	412.96	534.85	325.63	22.359
					101.00	417.07	540.05	328.75	22.411
					102.00	421.18	545.26	331.87	22.462
					103.00	425.29	550.46	334.99	22.513
					104.00	429.40	555.66	338.11	22.564
					105.00	433.51	560.86	341.23	22.613
					106.00	437.62	566.07	344.35	22.663
					107.00	441.73	571.27	347.47	22.711
					108.00	445.84	576.47	350.59	22.760
					109.00	449.95	581.67	353.71	22.808
					110.00	454.06	586.87	356.83	22.855
					111.00	458.17	592.07	359.95	22.902
					112.00	462.28	597.28	363.07	22.949
					113.00	466.39	602.48	366.19	22.995
					114.00	470.49	607.68	369.31	23.041
					115.00	474.60	612.88	372.43	23.086
					116.00	478.71	618.08	375.55	23.132
					117.00	482.82	623.28	378.67	23.176
					118.00	486.93	628.48	381.78	23.220
					119.00	491.03	633.68	384.90	23.264
					120.00	495.14	638.88	388.02	23.308
					121.00	499.25	644.08	391.14	23.351
					122.00	503.36	649.28	394.26	23.394
					123.00	507.46	654.48	397.38	23.436
					124.00	511.57	659.68	400.50	23.478
					125.00	515.68	664.88	403.62	23.520
					126.00	519.78	670.08	406.74	23.561
					127.00	523.89	675.28	409.85	23.603
					128.00	528.00	680.48	412.97	23.643
					129.00	532.10	685.67	416.09	23.684
					130.00	536.21	690.87	419.21	23.724
					131.00	540.32	696.07	422.33	23.764
					132.00	544.42	701.27	425.45	23.803
					133.00	548.53	706.47	428.56	23.843
					134.00	552.64	711.67	431.68	23.882
					135.00	556.74	716.87	434.80	23.920
					136.00	560.85	722.07	437.92	23.959
					137.00	564.95	727.26	441.04	23.997
					138.00	569.06	732.46	444.15	24.034
					139.00	573.16	737.66	447.27	24.072
					140.00	577.27	742.86	450.39	24.109
3.00	6.60	8.05	4.70	2.173					
4.00	6.99	10.66	7.11	2.942					
5.00	7.71	14.53	10.62	3.820					
6.00	9.59	21.17	16.31	5.016					
7.00	16.74	33.96	25.48	6.989					
8.00	23.74	43.29	31.26	8.239					
9.00	29.63	50.81	35.80	9.126					
10.00	35.01	57.59	39.86	9.841					
11.00	40.08	63.96	43.66	10.448					
12.00	44.95	70.07	47.30	10.980					
13.00	49.69	76.01	50.83	11.455					
14.00	54.33	81.82	54.30	11.886					
15.00	58.89	87.54	57.70	12.280					
16.00	63.39	93.18	61.06	12.645					
17.00	67.84	98.77	64.39	12.983					
18.00	72.26	104.30	67.70	13.300					
19.00	76.63	109.80	70.98	13.597					
20.00	80.99	115.27	74.24	13.878					
21.00	85.31	120.71	77.49	14.143					
22.00	89.62	126.13	80.72	14.395					
23.00	93.91	131.52	83.95	14.635					
24.00	98.18	136.90	87.16	14.864					
25.00	102.44	142.27	90.37	15.083					
26.00	106.69	147.62	93.57	15.293					
27.00	110.93	152.96	96.76	15.494					
28.00	115.16	158.29	99.94	15.688					
29.00	119.38	163.61	103.13	15.875					
30.00	123.59	168.92	106.30	16.055					
31.00	127.79	174.22	109.48	16.229					
32.00	131.99	179.52	112.65	16.397					
33.00	136.19	184.81	115.81	16.560					
34.00	140.37	190.09	118.98	16.717					
35.00	144.56	195.37	122.14	16.871					
36.00	148.73	200.65	125.29	17.019					
37.00	152.91	205.92	128.45	17.164					
38.00	157.08	211.19	131.60	17.304					
39.00	161.25	216.45	134.75	17.441					
40.00	165.41	221.71	137.90	17.574					
41.00	169.57	226.96	141.05	17.704					
42.00	173.73	232.22	144.20	17.830					
43.00	177.89	237.47	147.34	17.954					
44.00	182.04	242.72	150.49	18.074					
45.00	186.19	247.96	153.63	18.192					
46.00	190.34	253.20	156.77	18.308					
47.00	194.49	258.45	159.91	18.420					
48.00	198.63	263.69	163.05	18.531					
49.00	202.78	268.92	166.19	18.639					
50.00	206.92	274.16	169.33	18.744					
51.00	211.06	279.39	172.46	18.848					
52.00	215.20	284.62	175.60	18.950					
53.00	219.33	289.85	178.73	19.049					
54.00	223.47	295.08	181.87	19.147					
55.00	227.60	300.31	185.00	19.243					
56.00	231.74	305.54	188.13	19.337					
57.00	235.87	310.76	191.26	19.430					
58.00	240.00	315.99	194.40	19.520					
59.00	244.13	321.21	197.53	19.610					
60.00	248.26	326.44	200.66	19.697					

5.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	581.38	748.06	453.51	24.146	221.00	909.66	1163.73	702.86	26.481
142.00	585.48	753.25	456.63	24.183	222.00	913.76	1168.92	705.98	26.505
143.00	589.59	758.45	459.74	24.219	223.00	917.86	1174.12	709.09	26.528
144.00	593.69	763.65	462.86	24.256	224.00	921.97	1179.31	712.21	26.551
145.00	597.80	768.85	465.98	24.292	225.00	926.07	1184.51	715.33	26.575
146.00	601.90	774.04	469.10	24.327	226.00	930.17	1189.70	718.44	26.598
147.00	606.01	779.24	472.22	24.363	227.00	934.27	1194.90	721.56	26.620
148.00	610.11	784.44	475.33	24.398	228.00	938.37	1200.09	724.68	26.643
149.00	614.22	789.64	478.45	24.433	229.00	942.48	1205.29	727.79	26.666
150.00	618.32	794.83	481.57	24.468	230.00	946.58	1210.48	730.91	26.689
151.00	622.43	800.03	484.69	24.502	231.00	950.68	1215.68	734.02	26.711
152.00	626.53	805.23	487.80	24.537	232.00	954.78	1220.87	737.14	26.734
153.00	630.64	810.43	490.92	24.571	233.00	958.88	1226.06	740.26	26.756
154.00	634.74	815.62	494.04	24.605	234.00	962.99	1231.26	743.37	26.778
155.00	638.85	820.82	497.16	24.638	235.00	967.09	1236.45	746.49	26.800
156.00	642.95	826.02	500.27	24.672	236.00	971.19	1241.65	749.61	26.822
157.00	647.05	831.21	503.39	24.705	237.00	975.29	1246.84	752.72	26.844
158.00	651.16	836.41	506.51	24.738	238.00	979.39	1252.04	755.84	26.866
159.00	655.26	841.61	509.63	24.771	239.00	983.50	1257.23	758.95	26.888
160.00	659.37	846.80	512.74	24.803	240.00	987.60	1262.42	762.07	26.910
161.00	663.47	852.00	515.86	24.836	241.00	991.70	1267.62	765.19	26.931
162.00	667.58	857.20	518.98	24.868	242.00	995.80	1272.81	768.30	26.953
163.00	671.68	862.39	522.09	24.900	243.00	999.90	1278.01	771.42	26.974
164.00	675.78	867.59	525.21	24.932	244.00	1004.01	1283.20	774.53	26.996
165.00	679.89	872.79	528.33	24.963	245.00	1008.11	1288.40	777.65	27.017
166.00	683.99	877.98	531.45	24.995	246.00	1012.21	1293.59	780.77	27.038
167.00	688.10	883.18	534.56	25.026	247.00	1016.31	1298.78	783.88	27.059
168.00	692.20	888.38	537.68	25.057	248.00	1020.41	1303.98	787.00	27.080
169.00	696.30	893.57	540.80	25.088	249.00	1024.51	1309.17	790.11	27.101
170.00	700.41	898.77	543.91	25.118	250.00	1028.62	1314.37	793.23	27.122
171.00	704.51	903.96	547.03	25.149	251.00	1032.72	1319.56	796.35	27.143
172.00	708.62	909.16	550.15	25.179	252.00	1036.82	1324.76	799.46	27.163
173.00	712.72	914.36	553.27	25.209	253.00	1040.92	1329.95	802.58	27.184
174.00	716.82	919.55	556.38	25.239	254.00	1045.02	1335.14	805.69	27.204
175.00	720.93	924.75	559.50	25.269	255.00	1049.13	1340.34	808.81	27.225
176.00	725.03	929.95	562.62	25.298	256.00	1053.23	1345.53	811.93	27.245
177.00	729.13	935.14	565.73	25.328	257.00	1057.33	1350.73	815.04	27.265
178.00	733.24	940.34	568.85	25.357	258.00	1061.43	1355.92	818.16	27.285
179.00	737.34	945.53	571.97	25.386	259.00	1065.53	1361.11	821.27	27.305
180.00	741.44	950.73	575.08	25.415	260.00	1069.63	1366.31	824.39	27.326
181.00	745.55	955.92	578.20	25.444	261.00	1073.74	1371.50	827.51	27.345
182.00	749.65	961.12	581.32	25.473	262.00	1077.84	1376.70	830.62	27.365
183.00	753.75	966.32	584.43	25.501	263.00	1081.94	1381.89	833.74	27.385
184.00	757.86	971.51	587.55	25.529	264.00	1086.04	1387.08	836.85	27.405
185.00	761.96	976.71	590.67	25.558	265.00	1090.14	1392.28	839.97	27.424
186.00	766.06	981.90	593.79	25.586	266.00	1094.24	1397.47	843.09	27.444
187.00	770.17	987.10	596.90	25.613	267.00	1098.35	1402.67	846.20	27.463
188.00	774.27	992.29	600.02	25.641	268.00	1102.45	1407.86	849.32	27.483
189.00	778.37	997.49	603.14	25.669	269.00	1106.55	1413.05	852.43	27.502
190.00	782.48	1002.68	606.25	25.696	270.00	1110.65	1418.25	855.55	27.522
191.00	786.58	1007.88	609.37	25.723	271.00	1114.75	1423.44	858.67	27.541
192.00	790.68	1013.08	612.49	25.751	272.00	1118.85	1428.63	861.78	27.560
193.00	794.79	1018.27	615.60	25.778	273.00	1122.95	1433.83	864.90	27.579
194.00	798.89	1023.47	618.72	25.804	274.00	1127.06	1439.02	868.01	27.598
195.00	802.99	1028.66	621.84	25.831	275.00	1131.16	1444.22	871.13	27.617
196.00	807.09	1033.86	624.95	25.858	276.00	1135.26	1449.41	874.24	27.636
197.00	811.20	1039.05	628.07	25.884	277.00	1139.36	1454.60	877.36	27.654
198.00	815.30	1044.25	631.18	25.910	278.00	1143.46	1459.80	880.48	27.673
199.00	819.40	1049.44	634.30	25.937	279.00	1147.56	1464.99	883.59	27.692
200.00	823.51	1054.64	637.42	25.963	280.00	1151.66	1470.19	886.71	27.710
201.00	827.61	1059.83	640.53	25.989	281.00	1155.77	1475.38	889.82	27.729
202.00	831.71	1065.03	643.65	26.014	282.00	1159.87	1480.57	892.94	27.747
203.00	835.81	1070.22	646.77	26.040	283.00	1163.97	1485.77	896.06	27.766
204.00	839.92	1075.42	649.88	26.066	284.00	1168.07	1490.96	899.17	27.784
205.00	844.02	1080.61	653.00	26.091	285.00	1172.17	1496.15	902.29	27.802
206.00	848.12	1085.81	656.12	26.116	286.00	1176.27	1501.35	905.40	27.821
207.00	852.22	1091.00	659.23	26.141	287.00	1180.37	1506.54	908.52	27.839
208.00	856.33	1096.20	662.35	26.166	288.00	1184.48	1511.74	911.63	27.857
209.00	860.43	1101.39	665.47	26.191	289.00	1188.58	1516.93	914.75	27.875
210.00	864.53	1106.59	668.58	26.216	290.00	1192.68	1522.12	917.87	27.893
211.00	868.63	1111.78	671.70	26.241	291.00	1196.78	1527.32	920.98	27.911
212.00	872.74	1116.98	674.82	26.265	292.00	1200.88	1532.51	924.10	27.928
213.00	876.84	1122.17	677.93	26.290	293.00	1204.98	1537.70	927.21	27.946
214.00	880.94	1127.37	681.05	26.314	294.00	1209.08	1542.90	930.33	27.964
215.00	885.04	1132.56	684.16	26.338	295.00	1213.18	1548.09	933.44	27.981
216.00	889.15	1137.76	687.28	26.362	296.00	1217.29	1553.28	936.56	27.999
217.00	893.25	1142.95	690.40	26.386	297.00	1221.39	1558.48	939.68	28.017
218.00	897.35	1148.15	693.51	26.410	298.00	1225.49	1563.67	942.79	28.034
219.00	901.45	1153.34	696.63	26.434	299.00	1229.59	1568.87	945.91	28.051
220.00	905.56	1158.54	699.75	26.458	300.00	1233.69	1574.06	949.02	28.069

6.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	210.72	331.72	203.61	19.402
					62.00	214.16	336.94	206.74	19.487
					63.00	217.60	342.17	209.87	19.571
					64.00	221.04	347.39	213.01	19.653
					65.00	224.49	352.62	216.14	19.734
					66.00	227.93	357.84	219.27	19.814
					67.00	231.37	363.06	222.40	19.892
					68.00	234.81	368.28	225.53	19.970
					69.00	238.24	373.50	228.65	20.046
					70.00	241.68	378.72	231.78	20.121
					71.00	245.12	383.94	234.91	20.195
					72.00	248.56	389.15	238.04	20.268
					73.00	251.99	394.37	241.17	20.340
					74.00	255.43	399.59	244.29	20.411
					75.00	258.86	404.80	247.42	20.481
					76.00	262.30	410.02	250.55	20.550
					77.00	265.73	415.23	253.67	20.618
					78.00	269.17	420.44	256.80	20.685
					79.00	272.60	425.66	259.93	20.752
					80.00	276.03	430.87	263.05	20.817
					81.00	279.47	436.08	266.18	20.882
					82.00	282.90	441.29	269.30	20.946
					83.00	286.33	446.51	272.43	21.009
					84.00	289.76	451.72	275.55	21.072
					85.00	293.20	456.93	278.67	21.133
					86.00	296.63	462.14	281.80	21.194
					87.00	300.06	467.35	284.92	21.254
					88.00	303.49	472.56	288.05	21.314
					89.00	306.92	477.77	291.17	21.373
					90.00	310.35	482.97	294.29	21.431
					91.00	313.78	488.18	297.42	21.489
					92.00	317.21	493.39	300.54	21.546
					93.00	320.64	498.60	303.66	21.602
					94.00	324.06	503.80	306.78	21.658
					95.00	327.49	509.01	309.91	21.713
					96.00	330.92	514.22	313.03	21.767
					97.00	334.35	519.42	316.15	21.821
					98.00	337.78	524.63	319.27	21.874
					99.00	341.20	529.84	322.40	21.927
					100.00	344.63	535.04	325.52	21.980
					101.00	348.06	540.25	328.64	22.031
					102.00	351.49	545.45	331.76	22.083
					103.00	354.91	550.66	334.88	22.133
					104.00	358.34	555.86	338.00	22.184
					105.00	361.77	561.07	341.12	22.234
					106.00	365.19	566.27	344.25	22.283
					107.00	368.62	571.47	347.37	22.332
					108.00	372.04	576.68	350.49	22.380
					109.00	375.47	581.88	353.61	22.428
					110.00	378.90	587.08	356.73	22.476
					111.00	382.32	592.29	359.85	22.523
					112.00	385.75	597.49	362.97	22.569
					113.00	389.17	602.69	366.09	22.616
					114.00	392.60	607.90	369.21	22.661
					115.00	396.02	613.10	372.33	22.707
					116.00	399.45	618.30	375.45	22.752
					117.00	402.87	623.50	378.57	22.797
					118.00	406.29	628.70	381.69	22.841
					119.00	409.72	633.91	384.81	22.885
					120.00	413.14	639.11	387.93	22.928
					121.00	416.57	644.31	391.05	22.971
					122.00	419.99	649.51	394.17	23.014
					123.00	423.41	654.71	397.29	23.057
					124.00	426.84	659.91	400.41	23.099
					125.00	430.26	665.11	403.53	23.141
					126.00	433.69	670.31	406.65	23.182
					127.00	437.11	675.51	409.77	23.223
					128.00	440.53	680.71	412.89	23.264
					129.00	443.96	685.91	416.00	23.304
					130.00	447.38	691.11	419.12	23.345
					131.00	450.80	696.31	422.24	23.384
					132.00	454.22	701.51	425.36	23.424
					133.00	457.65	706.71	428.48	23.463
					134.00	461.07	711.91	431.60	23.502
					135.00	464.49	717.11	434.72	23.541
					136.00	467.92	722.31	437.84	23.579
					137.00	471.34	727.51	440.96	23.617
					138.00	474.76	732.71	444.07	23.655
					139.00	478.18	737.91	447.19	23.693
					140.00	481.60	743.11	450.31	23.730
3.00	6.53	8.63	4.66	2.145					
4.00	6.88	11.17	6.98	2.894					
5.00	7.50	14.82	10.26	3.726					
6.00	8.82	20.47	15.11	4.745					
7.00	12.78	30.40	22.63	6.269					
8.00	18.67	40.65	29.30	7.643					
9.00	23.81	48.76	34.29	8.600					
10.00	28.45	55.90	38.61	9.353					
11.00	32.80	62.52	42.58	9.984					
12.00	36.97	68.82	46.34	10.532					
13.00	41.00	74.90	49.97	11.019					
14.00	44.93	80.83	53.51	11.458					
15.00	48.79	86.64	56.98	11.859					
16.00	52.60	92.37	60.39	12.229					
17.00	56.35	98.02	63.76	12.572					
18.00	60.07	103.62	67.10	12.892					
19.00	63.75	109.18	70.42	13.192					
20.00	67.41	114.70	73.71	13.475					
21.00	71.05	120.18	76.98	13.743					
22.00	74.67	125.64	80.24	13.997					
23.00	78.27	131.07	83.49	14.238					
24.00	81.85	136.48	86.72	14.469					
25.00	85.42	141.88	89.95	14.689					
26.00	88.99	147.26	93.16	14.900					
27.00	92.54	152.63	96.37	15.102					
28.00	96.08	157.98	99.57	15.297					
29.00	99.61	163.32	102.76	15.484					
30.00	103.14	168.66	105.95	15.665					
31.00	106.65	173.98	109.14	15.840					
32.00	110.17	179.29	112.32	16.009					
33.00	113.68	184.60	115.49	16.172					
34.00	117.18	189.90	118.66	16.330					
35.00	120.68	195.20	121.83	16.484					
36.00	124.17	200.49	125.00	16.633					
37.00	127.66	205.77	128.16	16.778					
38.00	131.14	211.05	131.32	16.918					
39.00	134.63	216.33	134.48	17.055					
40.00	138.11	221.60	137.64	17.189					
41.00	141.58	226.87	140.79	17.319					
42.00	145.06	232.13	143.95	17.446					
43.00	148.53	237.40	147.10	17.570					
44.00	152.00	242.65	150.24	17.690					
45.00	155.46	247.91	153.39	17.809					
46.00	158.93	253.16	156.54	17.924					
47.00	162.39	258.41	159.68	18.037					
48.00	165.85	263.66	162.83	18.147					
49.00	169.31	268.90	165.97	18.256					
50.00	172.77	274.15	169.11	18.361					
51.00	176.22	279.39	172.25	18.465					
52.00	179.68	284.63	175.39	18.567					
53.00	183.13	289.87	178.53	18.667					
54.00	186.58	295.10	181.67	18.765					
55.00	190.03	300.34	184.80	18.861					
56.00	193.48	305.57	187.94	18.955					
57.00	196.93	310.80	191.08	19.048					
58.00	200.38	316.03	194.21	19.139					
59.00	203.83	321.26	197.34	19.228					
60.00	207.27	326.49	200.48	19.316					

6.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	485.03	748.31	453.43	23.767	221.00	758.64	1164.04	702.81	26.102
142.00	488.45	753.51	456.55	23.804	222.00	762.06	1169.23	705.93	26.126
143.00	491.87	758.71	459.67	23.840	223.00	765.48	1174.43	709.04	26.149
144.00	495.29	763.91	462.79	23.876	224.00	768.90	1179.62	712.16	26.172
145.00	498.71	769.11	465.90	23.912	225.00	772.32	1184.82	715.28	26.196
146.00	502.14	774.30	469.02	23.948	226.00	775.74	1190.01	718.39	26.219
147.00	505.56	779.50	472.14	23.984	227.00	779.15	1195.21	721.51	26.242
148.00	508.98	784.70	475.26	24.019	228.00	782.57	1200.40	724.63	26.264
149.00	512.40	789.90	478.38	24.054	229.00	785.99	1205.60	727.74	26.287
150.00	515.82	795.10	481.49	24.089	230.00	789.41	1210.79	730.86	26.310
151.00	519.24	800.30	484.61	24.123	231.00	792.83	1215.99	733.98	26.332
152.00	522.67	805.49	487.73	24.157	232.00	796.25	1221.18	737.09	26.355
153.00	526.09	810.69	490.85	24.192	233.00	799.67	1226.38	740.21	26.377
154.00	529.51	815.89	493.97	24.225	234.00	803.09	1231.57	743.32	26.399
155.00	532.93	821.09	497.08	24.259	235.00	806.50	1236.77	746.44	26.421
156.00	536.35	826.29	500.20	24.292	236.00	809.92	1241.96	749.56	26.444
157.00	539.77	831.48	503.32	24.326	237.00	813.34	1247.16	752.67	26.465
158.00	543.19	836.68	506.44	24.359	238.00	816.76	1252.35	755.79	26.487
159.00	546.61	841.88	509.56	24.391	239.00	820.18	1257.55	758.91	26.509
160.00	550.04	847.08	512.67	24.424	240.00	823.60	1262.74	762.02	26.531
161.00	553.46	852.27	515.79	24.456	241.00	827.02	1267.94	765.14	26.552
162.00	556.88	857.47	518.91	24.489	242.00	830.44	1273.13	768.26	26.574
163.00	560.30	862.67	522.03	24.521	243.00	833.85	1278.33	771.37	26.595
164.00	563.72	867.87	525.14	24.552	244.00	837.27	1283.52	774.49	26.617
165.00	567.14	873.06	528.26	24.584	245.00	840.69	1288.72	777.60	26.638
166.00	570.56	878.26	531.38	24.615	246.00	844.11	1293.91	780.72	26.659
167.00	573.98	883.46	534.50	24.647	247.00	847.53	1299.10	783.84	26.680
168.00	577.40	888.65	537.61	24.678	248.00	850.95	1304.30	786.95	26.701
169.00	580.82	893.85	540.73	24.708	249.00	854.36	1309.49	790.07	26.722
170.00	584.24	899.05	543.85	24.739	250.00	857.78	1314.69	793.19	26.743
171.00	587.66	904.25	546.97	24.770	251.00	861.20	1319.88	796.30	26.764
172.00	591.08	909.44	550.08	24.800	252.00	864.62	1325.08	799.42	26.784
173.00	594.50	914.64	553.20	24.830	253.00	868.04	1330.27	802.53	26.805
174.00	597.92	919.84	556.32	24.860	254.00	871.46	1335.47	805.65	26.825
175.00	601.34	925.03	559.44	24.890	255.00	874.88	1340.66	808.77	26.846
176.00	604.76	930.23	562.55	24.919	256.00	878.29	1345.85	811.88	26.866
177.00	608.18	935.43	565.67	24.949	257.00	881.71	1351.05	815.00	26.886
178.00	611.60	940.62	568.79	24.978	258.00	885.13	1356.24	818.11	26.907
179.00	615.02	945.82	571.90	25.007	259.00	888.55	1361.44	821.23	26.927
180.00	618.44	951.02	575.02	25.036	260.00	891.97	1366.63	824.35	26.947
181.00	621.86	956.21	578.14	25.065	261.00	895.39	1371.83	827.46	26.967
182.00	625.28	961.41	581.26	25.094	262.00	898.80	1377.02	830.58	26.986
183.00	628.70	966.60	584.37	25.122	263.00	902.22	1382.22	833.70	27.006
184.00	632.12	971.80	587.49	25.150	264.00	905.64	1387.41	836.81	27.026
185.00	635.54	977.00	590.61	25.179	265.00	909.06	1392.60	839.93	27.046
186.00	638.96	982.19	593.72	25.207	266.00	912.48	1397.80	843.04	27.065
187.00	642.38	987.39	596.84	25.234	267.00	915.89	1402.99	846.16	27.085
188.00	645.80	992.59	599.96	25.262	268.00	919.31	1408.19	849.28	27.104
189.00	649.22	997.78	603.08	25.290	269.00	922.73	1413.38	852.39	27.123
190.00	652.64	1002.98	606.19	25.317	270.00	926.15	1418.58	855.51	27.143
191.00	656.06	1008.17	609.31	25.344	271.00	929.57	1423.77	858.62	27.162
192.00	659.48	1013.37	612.43	25.372	272.00	932.99	1428.96	861.74	27.181
193.00	662.90	1018.57	615.54	25.399	273.00	936.40	1434.16	864.86	27.200
194.00	666.32	1023.76	618.66	25.425	274.00	939.82	1439.35	867.97	27.219
195.00	669.74	1028.96	621.78	25.452	275.00	943.24	1444.55	871.09	27.238
196.00	673.16	1034.15	624.89	25.479	276.00	946.66	1449.74	874.20	27.257
197.00	676.58	1039.35	628.01	25.505	277.00	950.08	1454.93	877.32	27.276
198.00	680.00	1044.55	631.13	25.531	278.00	953.49	1460.13	880.44	27.294
199.00	683.42	1049.74	634.25	25.558	279.00	956.91	1465.32	883.55	27.313
200.00	686.84	1054.94	637.36	25.584	280.00	960.33	1470.52	886.67	27.332
201.00	690.26	1060.13	640.48	25.610	281.00	963.75	1475.71	889.78	27.350
202.00	693.68	1065.33	643.60	25.635	282.00	967.17	1480.90	892.90	27.369
203.00	697.10	1070.52	646.71	25.661	283.00	970.59	1486.10	896.02	27.387
204.00	700.52	1075.72	649.83	25.687	284.00	974.00	1491.29	899.13	27.405
205.00	703.94	1080.91	652.95	25.712	285.00	977.42	1496.49	902.25	27.423
206.00	707.36	1086.11	656.06	25.737	286.00	980.84	1501.68	905.36	27.442
207.00	710.77	1091.31	659.18	25.762	287.00	984.26	1506.87	908.48	27.460
208.00	714.19	1096.50	662.30	25.787	288.00	987.68	1512.07	911.60	27.478
209.00	717.61	1101.70	665.41	25.812	289.00	991.09	1517.26	914.71	27.496
210.00	721.03	1106.89	668.53	25.837	290.00	994.51	1522.46	917.83	27.514
211.00	724.45	1112.09	671.65	25.862	291.00	997.93	1527.65	920.94	27.532
212.00	727.87	1117.28	674.76	25.886	292.00	1001.35	1532.84	924.06	27.550
213.00	731.29	1122.48	677.88	25.911	293.00	1004.77	1538.04	927.17	27.567
214.00	734.71	1127.67	681.00	25.935	294.00	1008.18	1543.23	930.29	27.585
215.00	738.13	1132.87	684.11	25.959	295.00	1011.60	1548.43	933.41	27.603
216.00	741.55	1138.06	687.23	25.983	296.00	1015.02	1553.62	936.52	27.620
217.00	744.97	1143.26	690.35	26.007	297.00	1018.44	1558.81	939.64	27.638
218.00	748.38	1148.45	693.46	26.031	298.00	1021.85	1564.01	942.75	27.655
219.00	751.80	1153.65	696.58	26.055	299.00	1025.27	1569.20	945.87	27.673
220.00	755.22	1158.84	699.69	26.079	300.00	1028.69	1574.40	948.99	27.690

7.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	180.95	331.78	203.43	19.079
					62.00	183.91	337.01	206.57	19.164
					63.00	186.86	342.24	209.70	19.248
					64.00	189.82	347.47	212.84	19.330
					65.00	192.77	352.70	215.97	19.411
					66.00	195.72	357.93	219.10	19.491
					67.00	198.67	363.15	222.24	19.570
					68.00	201.62	368.38	225.37	19.647
					69.00	204.57	373.60	228.50	19.723
					70.00	207.52	378.82	231.63	19.799
					71.00	210.47	384.05	234.76	19.873
					72.00	213.42	389.27	237.89	19.946
					73.00	216.37	394.49	241.02	20.018
					74.00	219.32	399.71	244.15	20.089
					75.00	222.26	404.93	247.28	20.159
					76.00	225.21	410.15	250.41	20.228
					77.00	228.16	415.36	253.53	20.296
					78.00	231.10	420.58	256.66	20.363
					79.00	234.05	425.80	259.79	20.430
					80.00	236.99	431.01	262.92	20.496
					81.00	239.94	436.23	266.04	20.560
					82.00	242.88	441.44	269.17	20.624
					83.00	245.83	446.66	272.30	20.687
					84.00	248.77	451.87	275.42	20.750
					85.00	251.71	457.08	278.55	20.812
					86.00	254.66	462.30	281.67	20.873
					87.00	257.60	467.51	284.80	20.933
					88.00	260.54	472.72	287.92	20.992
					89.00	263.48	477.93	291.05	21.051
					90.00	266.42	483.14	294.17	21.110
					91.00	269.36	488.36	297.30	21.167
					92.00	272.31	493.57	300.42	21.224
					93.00	275.25	498.78	303.54	21.280
					94.00	278.19	503.99	306.67	21.336
					95.00	281.13	509.19	309.79	21.391
					96.00	284.07	514.40	312.92	21.446
					97.00	287.01	519.61	316.04	21.500
					98.00	289.95	524.82	319.16	21.553
					99.00	292.89	530.03	322.29	21.606
					100.00	295.83	535.24	325.41	21.658
					101.00	298.76	540.45	328.53	21.710
					102.00	301.70	545.65	331.65	21.761
					103.00	304.64	550.86	334.78	21.812
					104.00	307.58	556.06	337.90	21.863
					105.00	310.52	561.27	341.02	21.912
					106.00	313.46	566.48	344.14	21.962
					107.00	316.39	571.68	347.26	22.011
					108.00	319.33	576.89	350.39	22.059
					109.00	322.27	582.09	353.51	22.107
					110.00	325.21	587.30	356.63	22.155
					111.00	328.14	592.50	359.75	22.202
					112.00	331.08	597.71	362.87	22.248
					113.00	334.02	602.91	365.99	22.295
					114.00	336.96	608.11	369.11	22.340
					115.00	339.89	613.32	372.23	22.386
					116.00	342.83	618.52	375.36	22.431
					117.00	345.77	623.73	378.48	22.476
					118.00	348.70	628.93	381.60	22.520
					119.00	351.64	634.13	384.72	22.564
					120.00	354.57	639.34	387.84	22.607
					121.00	357.51	644.54	390.96	22.651
					122.00	360.45	649.74	394.08	22.693
					123.00	363.38	654.94	397.20	22.736
					124.00	366.32	660.15	400.32	22.778
					125.00	369.25	665.35	403.44	22.820
					126.00	372.19	670.55	406.56	22.861
					127.00	375.12	675.75	409.68	22.902
					128.00	378.06	680.95	412.80	22.943
					129.00	380.99	686.16	415.92	22.984
					130.00	383.93	691.36	419.04	23.024
					131.00	386.86	696.56	422.16	23.064
					132.00	389.80	701.76	425.28	23.103
					133.00	392.73	706.96	428.40	23.142
					134.00	395.67	712.16	431.52	23.181
					135.00	398.60	717.36	434.64	23.220
					136.00	401.54	722.56	437.76	23.258
					137.00	404.47	727.76	440.88	23.297
					138.00	407.40	732.96	443.99	23.334
					139.00	410.34	738.16	447.11	23.372
					140.00	413.27	743.36	450.23	23.409
3.00	6.47	9.21	4.62	2.119	83.00	245.83	446.66	272.30	20.687
4.00	6.79	11.69	6.87	2.850	84.00	248.77	451.87	275.42	20.750
5.00	7.33	15.18	9.98	3.648	85.00	251.71	457.08	278.55	20.812
6.00	8.37	20.28	14.34	4.568	86.00	254.66	462.30	281.67	20.873
7.00	10.83	28.21	20.53	5.787	87.00	257.60	467.51	284.80	20.933
8.00	15.32	38.23	27.37	7.126	88.00	260.54	472.72	287.92	20.992
9.00	19.79	46.82	32.79	8.140	89.00	263.48	477.93	291.05	21.051
10.00	23.87	54.29	37.36	8.928	90.00	266.42	483.14	294.17	21.110
11.00	27.68	61.15	41.51	9.581	91.00	269.36	488.36	297.30	21.167
12.00	31.33	67.62	45.40	10.145	92.00	272.31	493.57	300.42	21.224
13.00	34.84	73.84	49.13	10.643	93.00	275.25	498.78	303.54	21.280
14.00	38.27	79.88	52.74	11.090	94.00	278.19	503.99	306.67	21.336
15.00	41.62	85.79	56.26	11.498	95.00	281.13	509.19	309.79	21.391
16.00	44.92	91.59	59.73	11.873	96.00	284.07	514.40	312.92	21.446
17.00	48.18	97.32	63.15	12.220	97.00	287.01	519.61	316.04	21.500
18.00	51.39	102.98	66.52	12.543	98.00	289.95	524.82	319.16	21.553
19.00	54.58	108.58	69.87	12.847	99.00	292.89	530.03	322.29	21.606
20.00	57.75	114.15	73.19	13.132	100.00	295.83	535.24	325.41	21.658
21.00	60.89	119.68	76.49	13.402	101.00	298.76	540.45	328.53	21.710
22.00	64.01	125.17	79.77	13.657	102.00	301.70	545.65	331.65	21.761
23.00	67.11	130.64	83.04	13.900	103.00	304.64	550.86	334.78	21.812
24.00	70.21	136.09	86.29	14.132	104.00	307.58	556.06	337.90	21.863
25.00	73.29	141.51	89.53	14.354	105.00	310.52	561.27	341.02	21.912
26.00	76.35	146.92	92.76	14.566	106.00	313.46	566.48	344.14	21.962
27.00	79.41	152.31	95.98	14.769	107.00	316.39	571.68	347.26	22.011
28.00	82.46	157.69	99.20	14.965	108.00	319.33	576.89	350.39	22.059
29.00	85.50	163.05	102.40	15.153	109.00	322.27	582.09	353.51	22.107
30.00	88.54	168.41	105.60	15.334	110.00	325.21	587.30	356.63	22.155
31.00	91.57	173.75	108.80	15.510	111.00	328.14	592.50	359.75	22.202
32.00	94.59	179.08	111.99	15.679	112.00	331.08	597.71	362.87	22.248
33.00	97.61	184.41	115.18	15.843	113.00	334.02	602.91	365.99	22.295
34.00	100.62	189.73	118.36	16.002	114.00	336.96	608.11	369.11	22.340
35.00	103.63	195.04	121.53	16.156	115.00	339.89	613.32	372.23	22.386
36.00	106.63	200.34	124.71	16.305	116.00	342.83	618.52	375.36	22.431
37.00	109.63	205.64	127.88	16.450	117.00	345.77	623.73	378.48	22.476
38.00	112.63	210.93	131.05	16.591	118.00	348.70	628.93	381.60	22.520
39.00	115.62	216.22	134.21	16.729	119.00	351.64	634.13	384.72	22.564
40.00	118.61	221.50	137.38	16.862	120.00	354.57	639.34	387.84	22.607
41.00	121.60	226.78	140.54	16.993	121.00	357.51	644.54	390.96	22.651
42.00	124.58	232.06	143.69	17.120	122.00	360.45	649.74	394.08	22.693
43.00	127.56	237.33	146.85	17.244	123.00	363.38	654.94	397.20	22.736
44.00	130.54	242.60	150.00	17.365	124.00	366.32	660.15	400.32	22.778
45.00	133.52	247.86	153.16	17.483	125.00	369.25	665.35	403.44	22.820
46.00	136.50	253.12	156.31	17.599	126.00	372.19	670.55	406.56	22.861
47.00	139.47	258.38	159.46	17.712	127.00	375.12	675.75	409.68	22.902
48.00	142.44	263.64	162.61	17.823	128.00	378.06	680.95	412.80	22.943
49.00	145.41	268.89	165.75	17.931	129.00	380.99	686.16	415.92	22.984
50.00	148.38	274.14	168.90	18.037	130.00	383.93	691.36	419.04	23.024
51.00	151.35	279.39	172.04	18.141	131.00	386.86	696.56	422.16	23.064
52.00	154.31	284.64	175.19	18.243	132.00	389.80	701.76	425.28	23.103
53.00	157.28	289.88	178.33	18.343	133.00	392.73	706.96	428.40	23.142
54.00	160.24	295.13	181.47	18.441	134.00				

7.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	416.21	748.56	453.35	23.446	221.00	650.77	1164.35	702.76	25.782
142.00	419.14	753.76	456.47	23.483	222.00	653.70	1169.55	705.88	25.805
143.00	422.07	758.96	459.59	23.519	223.00	656.63	1174.74	708.99	25.829
144.00	425.01	764.16	462.71	23.556	224.00	659.56	1179.94	712.11	25.852
145.00	427.94	769.36	465.83	23.592	225.00	662.50	1185.13	715.23	25.875
146.00	430.88	774.56	468.95	23.627	226.00	665.43	1190.33	718.34	25.898
147.00	433.81	779.76	472.06	23.663	227.00	668.36	1195.52	721.46	25.921
148.00	436.74	784.96	475.18	23.698	228.00	671.29	1200.72	724.58	25.944
149.00	439.68	790.16	478.30	23.733	229.00	674.22	1205.91	727.69	25.967
150.00	442.61	795.36	481.42	23.768	230.00	677.15	1211.11	730.81	25.989
151.00	445.54	800.56	484.54	23.802	231.00	680.08	1216.30	733.93	26.012
152.00	448.48	805.76	487.66	23.837	232.00	683.01	1221.50	737.04	26.034
153.00	451.41	810.96	490.78	23.871	233.00	685.94	1226.69	740.16	26.057
154.00	454.34	816.16	493.89	23.905	234.00	688.87	1231.89	743.28	26.079
155.00	457.28	821.36	497.01	23.938	235.00	691.80	1237.08	746.39	26.101
156.00	460.21	826.55	500.13	23.972	236.00	694.73	1242.28	749.51	26.123
157.00	463.14	831.75	503.25	24.005	237.00	697.66	1247.47	752.63	26.145
158.00	466.07	836.95	506.37	24.038	238.00	700.59	1252.67	755.74	26.167
159.00	469.01	842.15	509.49	24.071	239.00	703.52	1257.87	758.86	26.189
160.00	471.94	847.35	512.60	24.103	240.00	706.45	1263.06	761.98	26.210
161.00	474.87	852.55	515.72	24.136	241.00	709.39	1268.26	765.09	26.232
162.00	477.81	857.75	518.84	24.168	242.00	712.32	1273.45	768.21	26.254
163.00	480.74	862.94	521.96	24.200	243.00	715.25	1278.65	771.33	26.275
164.00	483.67	868.14	525.08	24.232	244.00	718.18	1283.84	774.44	26.296
165.00	486.60	873.34	528.19	24.263	245.00	721.11	1289.04	777.56	26.318
166.00	489.54	878.54	531.31	24.295	246.00	724.04	1294.23	780.67	26.339
167.00	492.47	883.74	534.43	24.326	247.00	726.97	1299.42	783.79	26.360
168.00	495.40	888.93	537.55	24.357	248.00	729.90	1304.62	786.91	26.381
169.00	498.33	894.13	540.67	24.388	249.00	732.83	1309.81	790.02	26.402
170.00	501.27	899.33	543.78	24.419	250.00	735.76	1315.01	793.14	26.423
171.00	504.20	904.53	546.90	24.449	251.00	738.69	1320.20	796.26	26.443
172.00	507.13	909.72	550.02	24.479	252.00	741.62	1325.40	799.37	26.464
173.00	510.06	914.92	553.14	24.509	253.00	744.55	1330.59	802.49	26.484
174.00	513.00	920.12	556.25	24.539	254.00	747.48	1335.79	805.61	26.505
175.00	515.93	925.32	559.37	24.569	255.00	750.41	1340.98	808.72	26.525
176.00	518.86	930.51	562.49	24.599	256.00	753.34	1346.18	811.84	26.546
177.00	521.79	935.71	565.61	24.628	257.00	756.27	1351.37	814.95	26.566
178.00	524.72	940.91	568.73	24.658	258.00	759.20	1356.57	818.07	26.586
179.00	527.66	946.11	571.84	24.687	259.00	762.13	1361.76	821.19	26.606
180.00	530.59	951.30	574.96	24.716	260.00	765.06	1366.96	824.30	26.626
181.00	533.52	956.50	578.08	24.744	261.00	767.99	1372.15	827.42	26.646
182.00	536.45	961.70	581.20	24.773	262.00	770.92	1377.35	830.54	26.666
183.00	539.38	966.89	584.31	24.802	263.00	773.85	1382.54	833.65	26.686
184.00	542.32	972.09	587.43	24.830	264.00	776.78	1387.74	836.77	26.706
185.00	545.25	977.29	590.55	24.858	265.00	779.71	1392.93	839.88	26.725
186.00	548.18	982.48	593.67	24.886	266.00	782.64	1398.12	843.00	26.745
187.00	551.11	987.68	596.78	24.914	267.00	785.57	1403.32	846.12	26.764
188.00	554.04	992.88	599.90	24.942	268.00	788.50	1408.51	849.23	26.784
189.00	556.97	998.08	603.02	24.969	269.00	791.43	1413.71	852.35	26.803
190.00	559.91	1003.27	606.13	24.997	270.00	794.36	1418.90	855.47	26.822
191.00	562.84	1008.47	609.25	25.024	271.00	797.29	1424.10	858.58	26.841
192.00	565.77	1013.67	612.37	25.051	272.00	800.22	1429.29	861.70	26.861
193.00	568.70	1018.86	615.49	25.078	273.00	803.15	1434.49	864.81	26.880
194.00	571.63	1024.06	618.60	25.105	274.00	806.08	1439.68	867.93	26.899
195.00	574.56	1029.25	621.72	25.132	275.00	809.01	1444.88	871.05	26.918
196.00	577.49	1034.45	624.84	25.158	276.00	811.94	1450.07	874.16	26.936
197.00	580.43	1039.65	627.95	25.185	277.00	814.87	1455.26	877.28	26.955
198.00	583.36	1044.84	631.07	25.211	278.00	817.80	1460.46	880.40	26.974
199.00	586.29	1050.04	634.19	25.237	279.00	820.73	1465.65	883.51	26.993
200.00	589.22	1055.24	637.31	25.263	280.00	823.66	1470.85	886.63	27.011
201.00	592.15	1060.43	640.42	25.289	281.00	826.59	1476.04	889.74	27.030
202.00	595.08	1065.63	643.54	25.315	282.00	829.52	1481.24	892.86	27.048
203.00	598.01	1070.82	646.66	25.341	283.00	832.45	1486.43	895.98	27.067
204.00	600.95	1076.02	649.77	25.366	284.00	835.38	1491.62	899.09	27.085
205.00	603.88	1081.22	652.89	25.391	285.00	838.31	1496.82	902.21	27.103
206.00	606.81	1086.41	656.01	25.417	286.00	841.24	1502.01	905.32	27.121
207.00	609.74	1091.61	659.13	25.442	287.00	844.17	1507.21	908.44	27.139
208.00	612.67	1096.80	662.24	25.467	288.00	847.10	1512.40	911.56	27.158
209.00	615.60	1102.00	665.36	25.492	289.00	850.03	1517.60	914.67	27.176
210.00	618.53	1107.20	668.48	25.517	290.00	852.96	1522.79	917.79	27.193
211.00	621.46	1112.39	671.59	25.541	291.00	855.89	1527.98	920.90	27.211
212.00	624.39	1117.59	674.71	25.566	292.00	858.82	1533.18	924.02	27.229
213.00	627.33	1122.78	677.83	25.590	293.00	861.75	1538.37	927.14	27.247
214.00	630.26	1127.98	680.94	25.615	294.00	864.68	1543.57	930.25	27.265
215.00	633.19	1133.18	684.06	25.639	295.00	867.61	1548.76	933.37	27.282
216.00	636.12	1138.37	687.18	25.663	296.00	870.54	1553.96	936.48	27.300
217.00	639.05	1143.57	690.29	25.687	297.00	873.47	1559.15	939.60	27.317
218.00	641.98	1148.76	693.41	25.711	298.00	876.40	1564.34	942.72	27.335
219.00	644.91	1153.96	696.53	25.735	299.00	879.33	1569.54	945.83	27.352
220.00	647.84	1159.15	699.64	25.758	300.00	882.26	1574.73	948.95	27.370

8.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	158.63	331.85	203.26	18.799
					62.00	161.22	337.09	206.40	18.884
					63.00	163.81	342.32	209.53	18.968
					64.00	166.40	347.56	212.67	19.051
					65.00	168.98	352.79	215.81	19.132
					66.00	171.57	358.02	218.94	19.212
					67.00	174.16	363.25	222.08	19.290
					68.00	176.74	368.48	225.21	19.368
					69.00	179.32	373.71	228.34	19.444
					70.00	181.91	378.93	231.48	19.519
					71.00	184.49	384.16	234.61	19.593
					72.00	187.07	389.39	237.74	19.666
					73.00	189.65	394.61	240.87	19.738
					74.00	192.24	399.83	244.00	19.809
					75.00	194.82	405.06	247.13	19.880
					76.00	197.40	410.28	250.26	19.949
					77.00	199.98	415.50	253.39	20.017
					78.00	202.56	420.72	256.52	20.084
					79.00	205.13	425.94	259.65	20.151
					80.00	207.71	431.16	262.78	20.217
					81.00	210.29	436.38	265.91	20.281
					82.00	212.87	441.59	269.04	20.345
					83.00	215.45	446.81	272.17	20.409
					84.00	218.02	452.03	275.29	20.471
					85.00	220.60	457.24	278.42	20.533
					86.00	223.18	462.46	281.55	20.594
					87.00	225.75	467.67	284.67	20.654
					88.00	228.33	472.89	287.80	20.714
					89.00	230.91	478.10	290.93	20.773
					90.00	233.48	483.32	294.05	20.831
					91.00	236.06	488.53	297.18	20.888
					92.00	238.63	493.74	300.30	20.945
					93.00	241.21	498.95	303.43	21.002
					94.00	243.78	504.17	306.55	21.058
					95.00	246.35	509.38	309.68	21.113
					96.00	248.93	514.59	312.80	21.167
					97.00	251.50	519.80	315.93	21.221
					98.00	254.08	525.01	319.05	21.275
					99.00	256.65	530.22	322.18	21.328
					100.00	259.22	535.43	325.30	21.380
					101.00	261.79	540.64	328.42	21.432
					102.00	264.37	545.85	331.55	21.483
					103.00	266.94	551.06	334.67	21.534
					104.00	269.51	556.27	337.79	21.584
					105.00	272.08	561.47	340.92	21.634
					106.00	274.66	566.68	344.04	21.683
					107.00	277.23	571.89	347.16	21.732
					108.00	279.80	577.10	350.28	21.781
					109.00	282.37	582.30	353.41	21.829
					110.00	284.94	587.51	356.53	21.876
					111.00	287.51	592.72	359.65	21.923
					112.00	290.08	597.92	362.77	21.970
					113.00	292.65	603.13	365.90	22.016
					114.00	295.23	608.33	369.02	22.062
					115.00	297.80	613.54	372.14	22.108
					116.00	300.37	618.75	375.26	22.153
					117.00	302.94	623.95	378.38	22.197
					118.00	305.51	629.15	381.50	22.242
					119.00	308.08	634.36	384.63	22.286
					120.00	310.65	639.56	387.75	22.329
					121.00	313.22	644.77	390.87	22.372
					122.00	315.79	649.97	393.99	22.415
					123.00	318.36	655.18	397.11	22.458
					124.00	320.93	660.38	400.23	22.500
					125.00	323.49	665.58	403.35	22.542
					126.00	326.06	670.79	406.47	22.583
					127.00	328.63	675.99	409.59	22.624
					128.00	331.20	681.19	412.71	22.665
					129.00	333.77	686.40	415.83	22.706
					130.00	336.34	691.60	418.95	22.746
					131.00	338.91	696.80	422.07	22.786
					132.00	341.48	702.00	425.19	22.825
					133.00	344.05	707.21	428.31	22.864
					134.00	346.61	712.41	431.43	22.903
					135.00	349.18	717.61	434.55	22.942
					136.00	351.75	722.81	437.67	22.980
					137.00	354.32	728.01	440.79	23.019
					138.00	356.89	733.22	443.91	23.056
					139.00	359.46	738.42	447.03	23.094
					140.00	362.02	743.62	450.15	23.131
3.00	6.41	9.79	4.59	2.094					
4.00	6.70	12.21	6.78	2.810					
5.00	7.19	15.58	9.75	3.580					
6.00	8.05	20.31	13.78	4.435					
7.00	9.80	27.08	19.14	5.478					
8.00	13.10	36.22	25.61	6.696					
9.00	16.91	45.03	31.32	7.736					
10.00	20.52	52.78	36.14	8.552					
11.00	23.92	59.84	40.46	9.226					
12.00	27.15	66.48	44.47	9.804					
13.00	30.27	72.83	48.29	10.312					
14.00	33.31	78.98	51.97	10.768					
15.00	36.28	84.97	55.56	11.181					
16.00	39.20	90.85	59.08	11.561					
17.00	42.07	96.64	62.54	11.912					
18.00	44.91	102.36	65.95	12.239					
19.00	47.73	108.02	69.33	12.545					
20.00	50.52	113.63	72.68	12.832					
21.00	53.28	119.19	76.00	13.104					
22.00	56.03	124.71	79.31	13.361					
23.00	58.77	130.23	82.59	13.606					
24.00	61.49	135.71	85.86	13.839					
25.00	64.20	141.16	89.12	14.062					
26.00	66.89	146.59	92.37	14.275					
27.00	69.58	152.01	95.60	14.479					
28.00	72.26	157.41	98.83	14.676					
29.00	74.94	162.79	102.05	14.865					
30.00	77.60	168.17	105.26	15.047					
31.00	80.26	173.53	108.47	15.223					
32.00	82.92	178.88	111.67	15.393					
33.00	85.56	184.22	114.86	15.557					
34.00	88.21	189.56	118.05	15.716					
35.00	90.85	194.88	121.24	15.871					
36.00	93.48	200.20	124.42	16.020					
37.00	96.12	205.51	127.60	16.166					
38.00	98.74	210.82	130.77	16.307					
39.00	101.37	216.12	133.95	16.445					
40.00	103.99	221.41	137.11	16.579					
41.00	106.61	226.70	140.28	16.710					
42.00	109.23	231.99	143.45	16.837					
43.00	111.84	237.27	146.61	16.961					
44.00	114.46	242.55	149.77	17.083					
45.00	117.07	247.82	152.92	17.201					
46.00	119.68	253.09	156.08	17.317					
47.00	122.28	258.36	159.23	17.430					
48.00	124.89	263.62	162.39	17.541					
49.00	127.49	268.89	165.54	17.650					
50.00	130.09	274.14	168.69	17.756					
51.00	132.69	279.40	171.84	17.860					
52.00	135.29	284.65	174.98	17.962					
53.00	137.89	289.91	178.13	18.062					
54.00	140.49	295.16	181.27	18.160					
55.00	143.08	300.40	184.42	18.256					
56.00	145.68	305.65	187.56	18.351					
57.00	148.27	310.89	190.70	18.444					
58.00	150.86	316.14	193.84	18.535					
59.00	153.45	321.38	196.98	18.625					
60.00	156.04	326.61	200.12	18.713					

8.00 ATMOSPHERE 1508AR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	364.59	748.82	453.27	23.168	221.00	569.87	1164.66	702.71	25.504
142.00	367.16	754.02	456.39	23.205	222.00	572.44	1169.86	705.83	25.528
143.00	369.73	759.22	459.51	23.242	223.00	575.00	1175.05	708.94	25.551
144.00	372.30	764.42	462.63	23.278	224.00	577.56	1180.25	712.06	25.574
145.00	374.86	769.62	465.75	23.314	225.00	580.13	1185.44	715.18	25.598
146.00	377.43	774.82	468.87	23.349	226.00	582.69	1190.64	718.29	25.621
147.00	380.00	780.02	471.99	23.385	227.00	585.26	1195.83	721.41	25.644
148.00	382.57	785.22	475.11	23.420	228.00	587.82	1201.03	724.53	25.666
149.00	385.13	790.42	478.23	23.455	229.00	590.39	1206.23	727.65	25.689
150.00	387.70	795.62	481.35	23.490	230.00	592.95	1211.42	730.76	25.712
151.00	390.27	800.82	484.47	23.525	231.00	595.52	1216.62	733.88	25.734
152.00	392.83	806.02	487.58	23.559	232.00	598.08	1221.81	737.00	25.757
153.00	395.40	811.22	490.70	23.593	233.00	600.65	1227.01	740.11	25.779
154.00	397.97	816.42	493.82	23.627	234.00	603.21	1232.20	743.23	25.801
155.00	400.54	821.62	496.94	23.661	235.00	605.78	1237.40	746.35	25.823
156.00	403.10	826.82	500.06	23.694	236.00	608.34	1242.60	749.46	25.846
157.00	405.67	832.02	503.18	23.727	237.00	610.90	1247.79	752.58	25.868
158.00	408.24	837.22	506.30	23.760	238.00	613.47	1252.99	755.70	25.889
159.00	410.80	842.42	509.42	23.793	239.00	616.03	1258.18	758.81	25.911
160.00	413.37	847.62	512.53	23.826	240.00	618.60	1263.38	761.93	25.933
161.00	415.94	852.82	515.65	23.858	241.00	621.16	1268.57	765.05	25.954
162.00	418.50	858.02	518.77	23.890	242.00	623.73	1273.77	768.16	25.976
163.00	421.07	863.22	521.89	23.922	243.00	626.29	1278.96	771.28	25.997
164.00	423.64	868.42	525.01	23.954	244.00	628.86	1284.16	774.40	26.019
165.00	426.20	873.62	528.13	23.986	245.00	631.42	1289.35	777.51	26.040
166.00	428.77	878.82	531.25	24.017	246.00	633.98	1294.55	780.63	26.061
167.00	431.34	884.01	534.36	24.048	247.00	636.55	1299.75	783.75	26.082
168.00	433.90	889.21	537.48	24.079	248.00	639.11	1304.94	786.86	26.103
169.00	436.47	894.41	540.60	24.110	249.00	641.68	1310.14	789.98	26.124
170.00	439.03	899.61	543.72	24.141	250.00	644.24	1315.33	793.10	26.145
171.00	441.60	904.81	546.84	24.171	251.00	646.81	1320.53	796.21	26.166
172.00	444.17	910.01	549.95	24.202	252.00	649.37	1325.72	799.33	26.186
173.00	446.73	915.20	553.07	24.232	253.00	651.93	1330.92	802.45	26.207
174.00	449.30	920.40	556.19	24.262	254.00	654.50	1336.11	805.56	26.227
175.00	451.87	925.60	559.31	24.291	255.00	657.06	1341.31	808.68	26.248
176.00	454.43	930.80	562.43	24.321	256.00	659.63	1346.50	811.79	26.268
177.00	457.00	936.00	565.55	24.351	257.00	662.19	1351.70	814.91	26.288
178.00	459.56	941.19	568.66	24.380	258.00	664.75	1356.89	818.03	26.309
179.00	462.13	946.39	571.78	24.409	259.00	667.32	1362.09	821.14	26.329
180.00	464.70	951.59	574.90	24.438	260.00	669.88	1367.28	824.26	26.349
181.00	467.26	956.79	578.02	24.467	261.00	672.45	1372.48	827.38	26.369
182.00	469.83	961.99	581.13	24.495	262.00	675.01	1377.67	830.49	26.389
183.00	472.39	967.18	584.25	24.524	263.00	677.58	1382.87	833.61	26.408
184.00	474.96	972.38	587.37	24.552	264.00	680.14	1388.06	836.73	26.428
185.00	477.52	977.58	590.49	24.580	265.00	682.70	1393.26	839.84	26.448
186.00	480.09	982.78	593.61	24.608	266.00	685.27	1398.45	842.96	26.467
187.00	482.66	987.97	596.72	24.636	267.00	687.83	1403.65	846.08	26.487
188.00	485.22	993.17	599.84	24.664	268.00	690.40	1408.84	849.19	26.506
189.00	487.79	998.37	602.96	24.692	269.00	692.96	1414.04	852.31	26.525
190.00	490.35	1003.57	606.08	24.719	270.00	695.52	1419.23	855.42	26.545
191.00	492.92	1008.76	609.19	24.746	271.00	698.09	1424.43	858.54	26.564
192.00	495.48	1013.96	612.31	24.773	272.00	700.65	1429.62	861.66	26.583
193.00	498.05	1019.16	615.43	24.800	273.00	703.22	1434.82	864.77	26.602
194.00	500.61	1024.35	618.55	24.827	274.00	705.78	1440.01	867.89	26.621
195.00	503.18	1029.55	621.66	24.854	275.00	708.34	1445.20	871.01	26.640
196.00	505.74	1034.75	624.78	24.881	276.00	710.91	1450.40	874.12	26.659
197.00	508.31	1039.95	627.90	24.907	277.00	713.47	1455.59	877.24	26.678
198.00	510.88	1045.14	631.02	24.933	278.00	716.04	1460.79	880.36	26.696
199.00	513.44	1050.34	634.13	24.959	279.00	718.60	1465.98	883.47	26.715
200.00	516.01	1055.54	637.25	24.986	280.00	721.16	1471.18	886.59	26.734
201.00	518.57	1060.73	640.37	25.011	281.00	723.73	1476.37	889.70	26.752
202.00	521.14	1065.93	643.49	25.037	282.00	726.29	1481.57	892.82	26.771
203.00	523.70	1071.13	646.60	25.063	283.00	728.86	1486.76	895.94	26.789
204.00	526.27	1076.32	649.72	25.088	284.00	731.42	1491.96	899.05	26.807
205.00	528.83	1081.52	652.84	25.114	285.00	733.98	1497.15	902.17	26.826
206.00	531.40	1086.72	655.95	25.139	286.00	736.55	1502.35	905.29	26.844
207.00	533.96	1091.91	659.07	25.164	287.00	739.11	1507.54	908.40	26.862
208.00	536.53	1097.11	662.19	25.189	288.00	741.67	1512.73	911.52	26.880
209.00	539.09	1102.31	665.31	25.214	289.00	744.24	1517.93	914.63	26.898
210.00	541.66	1107.50	668.42	25.239	290.00	746.80	1523.12	917.75	26.916
211.00	544.22	1112.70	671.54	25.264	291.00	749.37	1528.32	920.87	26.934
212.00	546.79	1117.89	674.66	25.288	292.00	751.93	1533.51	923.98	26.952
213.00	549.35	1123.09	677.77	25.313	293.00	754.49	1538.71	927.10	26.969
214.00	551.92	1128.29	680.89	25.337	294.00	757.06	1543.90	930.21	26.987
215.00	554.48	1133.48	684.01	25.361	295.00	759.62	1549.10	933.33	27.005
216.00	557.05	1138.68	687.13	25.385	296.00	762.18	1554.29	936.45	27.022
217.00	559.61	1143.88	690.24	25.409	297.00	764.75	1559.48	939.56	27.040
218.00	562.18	1149.07	693.36	25.433	298.00	767.31	1564.68	942.68	27.057
219.00	564.74	1154.27	696.48	25.457	299.00	769.88	1569.87	945.80	27.075
220.00	567.31	1159.46	699.59	25.481	300.00	772.44	1575.07	948.91	27.092

9.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	141.28	331.92	203.09	18.552
					62.00	143.58	337.17	206.23	18.637
					63.00	145.88	342.41	209.37	18.721
					64.00	148.19	347.64	212.51	18.803
					65.00	150.49	352.88	215.64	18.885
					66.00	152.79	358.12	218.78	18.965
					67.00	155.09	363.35	221.92	19.043
					68.00	157.39	368.58	225.05	19.121
					69.00	159.69	373.82	228.19	19.197
					70.00	161.98	379.05	231.32	19.272
					71.00	164.28	384.28	234.46	19.347
					72.00	166.58	389.51	237.59	19.420
					73.00	168.88	394.73	240.73	19.492
					74.00	171.17	399.96	243.86	19.563
					75.00	173.47	405.19	246.99	19.633
					76.00	175.76	410.41	250.12	19.702
					77.00	178.06	415.64	253.25	19.771
					78.00	180.35	420.86	256.39	19.838
					79.00	182.65	426.08	259.52	19.905
					80.00	184.94	431.30	262.65	19.970
					81.00	187.24	436.53	265.78	20.035
					82.00	189.53	441.75	268.91	20.099
					83.00	191.82	446.97	272.04	20.162
					84.00	194.11	452.19	275.16	20.225
					85.00	196.41	457.40	278.29	20.287
					86.00	198.70	462.62	281.42	20.348
					87.00	200.99	467.84	284.55	20.408
					88.00	203.28	473.06	287.68	20.468
					89.00	205.57	478.27	290.80	20.527
					90.00	207.86	483.49	293.93	20.585
3.00	6.35	10.36	4.58	2.071	91.00	210.15	488.71	297.06	20.643
4.00	6.63	12.74	6.70	2.774	92.00	212.44	493.92	300.19	20.700
5.00	7.07	16.00	9.56	3.520	93.00	214.73	499.14	303.31	20.756
6.00	7.81	20.46	13.34	4.327	94.00	217.02	504.35	306.44	20.812
7.00	9.17	26.51	18.15	5.260	95.00	219.31	509.56	309.56	20.867
8.00	11.63	34.72	24.11	6.353	96.00	221.60	514.78	312.69	20.921
9.00	14.82	43.46	29.94	7.382	97.00	223.89	519.99	315.82	20.975
10.00	18.01	51.38	34.96	8.218	98.00	226.18	525.20	318.94	21.029
					99.00	228.46	530.41	322.07	21.082
					100.00	230.75	535.63	325.19	21.134
11.00	21.05	58.63	39.43	8.909	101.00	233.04	540.84	328.32	21.186
12.00	23.96	65.41	43.56	9.499	102.00	235.33	546.05	331.44	21.237
13.00	26.76	71.87	47.47	10.017	103.00	237.62	551.26	334.56	21.288
14.00	29.49	78.12	51.22	10.480	104.00	239.90	556.47	337.69	21.339
15.00	32.16	84.20	54.87	10.899	105.00	242.19	561.68	340.81	21.388
16.00	34.77	90.15	58.44	11.283	106.00	244.48	566.89	343.94	21.438
17.00	37.35	96.00	61.94	11.638	107.00	246.77	572.10	347.06	21.487
18.00	39.90	101.77	65.39	11.968	108.00	249.05	577.31	350.18	21.535
19.00	42.42	107.48	68.80	12.276	109.00	251.34	582.52	353.31	21.583
20.00	44.91	113.13	72.17	12.566	110.00	253.63	587.72	356.43	21.631
21.00	47.39	118.74	75.52	12.840	111.00	255.91	592.93	359.55	21.678
22.00	49.84	124.30	78.85	13.099	112.00	258.20	598.14	362.68	21.725
23.00	52.29	129.84	82.15	13.345	113.00	260.48	603.35	365.80	21.771
24.00	54.72	135.34	85.44	13.579	114.00	262.77	608.56	368.92	21.817
25.00	57.14	140.83	88.72	13.803	115.00	265.06	613.76	372.05	21.862
26.00	59.55	146.28	91.98	14.017	116.00	267.34	618.97	375.17	21.907
27.00	61.95	151.72	95.23	14.222	117.00	269.63	624.18	378.29	21.952
28.00	64.34	157.15	98.47	14.420	118.00	271.91	629.38	381.41	21.996
29.00	66.73	162.55	101.70	14.609	119.00	274.20	634.59	384.53	22.040
30.00	69.10	167.94	104.92	14.792	120.00	276.48	639.79	387.66	22.084
31.00	71.48	173.32	108.14	14.969	121.00	278.77	645.00	390.78	22.127
32.00	73.84	178.69	111.35	15.139	122.00	281.05	650.21	393.90	22.170
33.00	76.21	184.05	114.55	15.304	123.00	283.34	655.41	397.02	22.212
34.00	78.56	189.40	117.75	15.464	124.00	285.62	660.62	400.14	22.255
35.00	80.92	194.74	120.95	15.618	125.00	287.91	665.82	403.26	22.296
36.00	83.27	200.07	124.14	15.769	126.00	290.19	671.03	406.39	22.338
37.00	85.61	205.39	127.32	15.914	127.00	292.48	676.23	409.51	22.379
38.00	87.95	210.71	130.50	16.056	128.00	294.76	681.43	412.63	22.420
39.00	90.29	216.02	133.68	16.194	129.00	297.04	686.64	415.75	22.460
40.00	92.63	221.33	136.86	16.329	130.00	299.33	691.84	418.87	22.500
41.00	94.96	226.63	140.03	16.459	131.00	301.61	697.05	421.99	22.540
42.00	97.29	231.93	143.20	16.587	132.00	303.90	702.25	425.11	22.580
43.00	99.62	237.22	146.37	16.712	133.00	306.18	707.45	428.23	22.619
44.00	101.95	242.51	149.53	16.833	134.00	308.46	712.66	431.35	22.658
45.00	104.28	247.79	152.69	16.952	135.00	310.75	717.86	434.47	22.697
46.00	106.60	253.07	155.85	17.068	136.00	313.03	723.06	437.59	22.735
47.00	108.92	258.34	159.01	17.181	137.00	315.31	728.26	440.71	22.773
48.00	111.24	263.62	162.17	17.292	138.00	317.60	733.47	443.84	22.811
49.00	113.56	268.88	165.33	17.401	139.00	319.88	738.67	446.96	22.849
50.00	115.87	274.15	168.48	17.507	140.00	322.16	743.87	450.08	22.886
51.00	118.19	279.41	171.63	17.612					
52.00	120.50	284.67	174.78	17.714					
53.00	122.82	289.93	177.93	17.814					
54.00	125.13	295.19	181.08	17.912					
55.00	127.44	300.44	184.23	18.009					
56.00	129.75	305.69	187.37	18.103					
57.00	132.05	310.94	190.52	18.196					
58.00	134.36	316.19	193.66	18.287					
59.00	136.67	321.44	196.80	18.377					
60.00	138.97	326.68	199.95	18.465					

9.00 ATMOSPHERE ISO8AR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	324.45	749.07	453.20	22.923	221.00	506.95	1164.97	702.66	25.259
142.00	326.73	754.28	456.32	22.960	222.00	509.23	1170.17	705.78	25.283
143.00	329.01	759.48	459.44	22.996	223.00	511.51	1175.36	708.89	25.306
144.00	331.30	764.68	462.56	23.033	224.00	513.79	1180.56	712.01	25.330
145.00	333.58	769.88	465.68	23.069	225.00	516.07	1185.76	715.13	25.353
146.00	335.86	775.08	468.80	23.104	226.00	518.35	1190.95	718.25	25.376
147.00	338.14	780.29	471.91	23.140	227.00	520.63	1196.15	721.36	25.399
148.00	340.43	785.49	475.03	23.175	228.00	522.91	1201.34	724.48	25.421
149.00	342.71	790.69	478.15	23.210	229.00	525.19	1206.54	727.60	25.444
150.00	344.99	795.89	481.27	23.245	230.00	527.47	1211.74	730.71	25.467
151.00	347.28	801.09	484.39	23.279	231.00	529.75	1216.93	733.83	25.489
152.00	349.56	806.29	487.51	23.314	232.00	532.03	1222.13	736.95	25.512
153.00	351.84	811.49	490.63	23.348	233.00	534.31	1227.32	740.06	25.534
154.00	354.12	816.69	493.75	23.382	234.00	536.59	1232.52	743.18	25.556
155.00	356.40	821.89	496.87	23.415	235.00	538.87	1237.72	746.30	25.579
156.00	358.69	827.09	499.99	23.449	236.00	541.15	1242.91	749.42	25.601
157.00	360.97	832.29	503.11	23.482	237.00	543.42	1248.11	752.53	25.623
158.00	363.25	837.49	506.23	23.515	238.00	545.70	1253.30	755.65	25.645
159.00	365.53	842.69	509.35	23.548	239.00	547.98	1258.50	758.77	25.666
160.00	367.81	847.89	512.47	23.581	240.00	550.26	1263.70	761.88	25.688
161.00	370.10	853.09	515.58	23.613	241.00	552.54	1268.89	765.00	25.710
162.00	372.38	858.29	518.70	23.645	242.00	554.82	1274.09	768.12	25.731
163.00	374.66	863.49	521.82	23.677	243.00	557.10	1279.28	771.23	25.753
164.00	376.94	868.69	524.94	23.709	244.00	559.38	1284.48	774.35	25.774
165.00	379.22	873.89	528.06	23.741	245.00	561.66	1289.67	777.47	25.795
166.00	381.51	879.09	531.18	23.772	246.00	563.94	1294.87	780.58	25.816
167.00	383.79	884.29	534.30	23.803	247.00	566.22	1300.07	783.70	25.837
168.00	386.07	889.49	537.42	23.834	248.00	568.50	1305.26	786.82	25.858
169.00	388.35	894.69	540.54	23.865	249.00	570.78	1310.46	789.93	25.879
170.00	390.63	899.89	543.65	23.896	250.00	573.06	1315.65	793.05	25.900
171.00	392.91	905.09	546.77	23.926	251.00	575.34	1320.85	796.17	25.921
172.00	395.20	910.29	549.89	23.957	252.00	577.62	1326.04	799.28	25.942
173.00	397.48	915.49	553.01	23.987	253.00	579.90	1331.24	802.40	25.962
174.00	399.76	920.69	556.13	24.017	254.00	582.18	1336.43	805.52	25.983
175.00	402.04	925.89	559.25	24.046	255.00	584.46	1341.63	808.63	26.003
176.00	404.32	931.08	562.36	24.076	256.00	586.74	1346.83	811.75	26.023
177.00	406.60	936.28	565.48	24.106	257.00	589.02	1352.02	814.87	26.044
178.00	408.88	941.48	568.60	24.135	258.00	591.30	1357.22	817.98	26.064
179.00	411.16	946.68	571.72	24.164	259.00	593.58	1362.41	821.10	26.084
180.00	413.45	951.88	574.84	24.193	260.00	595.85	1367.61	824.22	26.104
181.00	415.73	957.08	577.96	24.222	261.00	598.13	1372.80	827.33	26.124
182.00	418.01	962.28	581.07	24.250	262.00	600.41	1378.00	830.45	26.144
183.00	420.29	967.47	584.19	24.279	263.00	602.69	1383.19	833.57	26.163
184.00	422.57	972.67	587.31	24.307	264.00	604.97	1388.39	836.68	26.183
185.00	424.85	977.87	590.43	24.335	265.00	607.25	1393.58	839.80	26.203
186.00	427.13	983.07	593.55	24.363	266.00	609.53	1398.78	842.92	26.222
187.00	429.41	988.27	596.66	24.391	267.00	611.81	1403.97	846.03	26.242
188.00	431.69	993.46	599.78	24.419	268.00	614.09	1409.17	849.15	26.261
189.00	433.97	998.66	602.90	24.447	269.00	616.37	1414.36	852.27	26.281
190.00	436.26	1003.86	606.02	24.474	270.00	618.65	1419.56	855.38	26.300
191.00	438.54	1009.06	609.14	24.501	271.00	620.93	1424.75	858.50	26.319
192.00	440.82	1014.26	612.25	24.528	272.00	623.21	1429.95	861.62	26.338
193.00	443.10	1019.45	615.37	24.555	273.00	625.49	1435.14	864.73	26.357
194.00	445.38	1024.65	618.49	24.582	274.00	627.77	1440.34	867.85	26.376
195.00	447.66	1029.85	621.61	24.609	275.00	630.04	1445.53	870.97	26.395
196.00	449.94	1035.05	624.72	24.636	276.00	632.32	1450.73	874.08	26.414
197.00	452.22	1040.24	627.84	24.662	277.00	634.60	1455.92	877.20	26.433
198.00	454.50	1045.44	630.96	24.688	278.00	636.88	1461.12	880.31	26.452
199.00	456.78	1050.64	634.08	24.715	279.00	639.16	1466.31	883.43	26.470
200.00	459.06	1055.84	637.19	24.741	280.00	641.44	1471.51	886.55	26.489
201.00	461.34	1061.03	640.31	24.766	281.00	643.72	1476.70	889.66	26.507
202.00	463.62	1066.23	643.43	24.792	282.00	646.00	1481.90	892.78	26.526
203.00	465.90	1071.43	646.55	24.818	283.00	648.28	1487.09	895.90	26.544
204.00	468.18	1076.62	649.67	24.843	284.00	650.56	1492.29	899.01	26.563
205.00	470.46	1081.82	652.78	24.869	285.00	652.84	1497.48	902.13	26.581
206.00	472.74	1087.02	655.90	24.894	286.00	655.12	1502.68	905.25	26.599
207.00	475.02	1092.22	659.02	24.919	287.00	657.39	1507.87	908.36	26.617
208.00	477.30	1097.41	662.14	24.944	288.00	659.67	1513.07	911.48	26.635
209.00	479.59	1102.61	665.25	24.969	289.00	661.95	1518.26	914.59	26.653
210.00	481.87	1107.81	668.37	24.994	290.00	664.23	1523.46	917.71	26.671
211.00	484.15	1113.00	671.49	25.019	291.00	666.51	1528.65	920.83	26.689
212.00	486.43	1118.20	674.60	25.043	292.00	668.79	1533.85	923.94	26.707
213.00	488.71	1123.40	677.72	25.068	293.00	671.07	1539.04	927.06	26.725
214.00	490.99	1128.59	680.84	25.092	294.00	673.35	1544.24	930.18	26.742
215.00	493.27	1133.79	683.96	25.116	295.00	675.63	1549.43	933.29	26.760
216.00	495.55	1138.99	687.07	25.141	296.00	677.91	1554.63	936.41	26.778
217.00	497.83	1144.18	690.19	25.165	297.00	680.19	1559.82	939.53	26.795
218.00	500.11	1149.38	693.31	25.188	298.00	682.46	1565.01	942.64	26.813
219.00	502.39	1154.58	696.43	25.212	299.00	684.74	1570.21	945.76	26.830
220.00	504.67	1159.77	699.54	25.236	300.00	687.02	1575.40	948.87	26.847

10.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	127.39	332.00	202.92	18.330
					62.00	129.47	337.25	206.06	18.416
					63.00	131.54	342.49	209.20	18.500
					64.00	133.62	347.73	212.34	18.582
					65.00	135.69	352.97	215.48	18.663
					66.00	137.76	358.21	218.62	18.743
					67.00	139.84	363.45	221.76	18.822
					68.00	141.91	368.69	224.90	18.900
					69.00	143.98	373.93	228.04	18.976
					70.00	146.05	379.16	231.17	19.052
					71.00	148.12	384.39	234.31	19.126
					72.00	150.19	389.63	237.45	19.199
					73.00	152.26	394.86	240.58	19.271
					74.00	154.32	400.09	243.72	19.342
					75.00	156.39	405.32	246.85	19.412
					76.00	158.46	410.55	249.98	19.482
					77.00	160.53	415.78	253.12	19.550
					78.00	162.59	421.00	256.25	19.617
					79.00	164.66	426.23	259.38	19.684
					80.00	166.73	431.45	262.51	19.750
					81.00	168.79	436.68	265.65	19.815
					82.00	170.86	441.90	268.78	19.879
					83.00	172.92	447.12	271.91	19.942
					84.00	174.98	452.35	275.04	20.005
					85.00	177.05	457.57	278.17	20.066
					86.00	179.11	462.79	281.30	20.127
					87.00	181.18	468.01	284.43	20.188
					88.00	183.24	473.23	287.56	20.248
					89.00	185.30	478.45	290.68	20.306
					90.00	187.37	483.67	293.81	20.365
					91.00	189.43	488.88	296.94	20.422
					92.00	191.49	494.10	300.07	20.479
					93.00	193.55	499.32	303.20	20.536
					94.00	195.61	504.53	306.32	20.592
					95.00	197.67	509.75	309.45	20.647
					96.00	199.74	514.97	312.58	20.701
					97.00	201.80	520.18	315.71	20.755
					98.00	203.86	525.40	318.83	20.809
					99.00	205.92	530.61	321.96	20.862
					100.00	207.98	535.82	325.08	20.914
					21.00	42.68	118.30	75.05	12.602
					22.00	44.91	123.90	78.40	12.863
					23.00	47.12	129.47	81.72	13.110
					24.00	49.32	135.00	85.03	13.346
					25.00	51.50	140.51	88.32	13.571
					26.00	53.68	145.99	91.60	13.786
					27.00	55.85	151.45	94.86	13.992
					28.00	58.01	156.90	98.11	14.190
					29.00	60.17	162.32	101.36	14.380
					30.00	62.31	167.73	104.59	14.564
					31.00	64.46	173.13	107.82	14.741
					32.00	66.59	178.51	111.04	14.911
					33.00	68.72	183.89	114.25	15.077
					34.00	70.85	189.25	117.46	15.237
					35.00	72.98	194.60	120.66	15.392
					36.00	75.10	199.95	123.86	15.543
					37.00	77.21	205.29	127.05	15.689
					38.00	79.33	210.62	130.24	15.831
					39.00	81.44	215.94	133.42	15.969
					40.00	83.54	221.26	136.60	16.104
					41.00	85.65	226.57	139.78	16.235
					42.00	87.75	231.87	142.96	16.363
					43.00	89.85	237.17	146.13	16.488
					44.00	91.95	242.47	149.30	16.609
					45.00	94.05	247.76	152.47	16.728
					46.00	96.14	253.05	155.63	16.845
					47.00	98.23	258.33	158.79	16.958
					48.00	100.32	263.61	161.96	17.069
					49.00	102.41	268.89	165.12	17.178
					50.00	104.50	274.16	168.27	17.285
					51.00	106.59	279.43	171.43	17.389
					52.00	108.67	284.70	174.58	17.491
					53.00	110.76	289.96	177.74	17.592
					54.00	112.84	295.23	180.89	17.690
					55.00	114.92	300.49	184.04	17.787
					56.00	117.00	305.74	187.19	17.881
					57.00	119.08	311.00	190.33	17.974
					58.00	121.16	316.25	193.48	18.066
					59.00	123.24	321.50	196.63	18.155
					60.00	125.32	326.75	199.77	18.244

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	292.33	749.33	453.12	22.704	221.00	456.61	1165.28	702.61	25.040
142.00	294.39	754.53	456.24	22.740	222.00	458.66	1170.48	705.73	25.064
143.00	296.44	759.74	459.36	22.777	223.00	460.71	1175.67	708.84	25.087
144.00	298.50	764.94	462.48	22.813	224.00	462.76	1180.87	711.96	25.110
145.00	300.55	770.14	465.60	22.849	225.00	464.82	1186.07	715.08	25.134
146.00	302.61	775.35	468.72	22.885	226.00	466.87	1191.26	718.20	25.157
147.00	304.66	780.55	471.84	22.920	227.00	468.92	1196.46	721.31	25.180
148.00	306.72	785.75	474.96	22.956	228.00	470.97	1201.66	724.43	25.202
149.00	308.77	790.95	478.08	22.991	229.00	473.03	1206.85	727.55	25.225
150.00	310.83	796.15	481.20	23.026	230.00	475.08	1212.05	730.67	25.248
151.00	312.88	801.36	484.32	23.060	231.00	477.13	1217.25	733.78	25.270
152.00	314.94	806.56	487.44	23.094	232.00	479.18	1222.44	736.90	25.293
153.00	316.99	811.76	490.56	23.129	233.00	481.23	1227.64	740.02	25.315
154.00	319.05	816.96	493.68	23.162	234.00	483.29	1232.84	743.13	25.337
155.00	321.10	822.16	496.80	23.196	235.00	485.34	1238.03	746.25	25.360
156.00	323.15	827.36	499.92	23.230	236.00	487.39	1243.23	749.37	25.382
157.00	325.21	832.57	503.04	23.263	237.00	489.44	1248.43	752.49	25.404
158.00	327.26	837.77	506.16	23.296	238.00	491.49	1253.62	755.60	25.425
159.00	329.32	842.97	509.28	23.329	239.00	493.55	1258.82	758.72	25.447
160.00	331.37	848.17	512.40	23.361	240.00	495.60	1264.01	761.84	25.469
161.00	333.43	853.37	515.52	23.394	241.00	497.65	1269.21	764.95	25.491
162.00	335.48	858.57	518.64	23.426	242.00	499.70	1274.41	768.07	25.512
163.00	337.53	863.77	521.76	23.458	243.00	501.75	1279.60	771.19	25.534
164.00	339.59	868.97	524.87	23.490	244.00	503.80	1284.80	774.30	25.555
165.00	341.64	874.17	527.99	23.521	245.00	505.86	1289.99	777.42	25.576
166.00	343.70	879.37	531.11	23.553	246.00	507.91	1295.19	780.54	25.597
167.00	345.75	884.57	534.23	23.584	247.00	509.96	1300.39	783.66	25.618
168.00	347.80	889.77	537.35	23.615	248.00	512.01	1305.58	786.77	25.639
169.00	349.86	894.97	540.47	23.646	249.00	514.06	1310.78	789.89	25.660
170.00	351.91	900.17	543.59	23.677	250.00	516.12	1315.97	793.01	25.681
171.00	353.96	905.37	546.71	23.707	251.00	518.17	1321.17	796.12	25.702
172.00	356.02	910.57	549.83	23.737	252.00	520.22	1326.37	799.24	25.722
173.00	358.07	915.77	552.95	23.767	253.00	522.27	1331.56	802.36	25.743
174.00	360.13	920.97	556.06	23.797	254.00	524.32	1336.76	805.47	25.764
175.00	362.18	926.17	559.18	23.827	255.00	526.37	1341.95	808.59	25.784
176.00	364.23	931.37	562.30	23.857	256.00	528.43	1347.15	811.71	25.804
177.00	366.29	936.57	565.42	23.886	257.00	530.48	1352.35	814.82	25.825
178.00	368.34	941.77	568.54	23.916	258.00	532.53	1357.54	817.94	25.845
179.00	370.39	946.97	571.66	23.945	259.00	534.58	1362.74	821.06	25.865
180.00	372.45	952.17	574.78	23.974	260.00	536.63	1367.93	824.17	25.885
181.00	374.50	957.37	577.89	24.003	261.00	538.68	1373.13	827.29	25.905
182.00	376.55	962.56	581.01	24.031	262.00	540.74	1378.32	830.41	25.925
183.00	378.61	967.76	584.13	24.060	263.00	542.79	1383.52	833.53	25.944
184.00	380.66	972.96	587.25	24.088	264.00	544.84	1388.71	836.64	25.964
185.00	382.71	978.16	590.37	24.116	265.00	546.89	1393.91	839.76	25.984
186.00	384.77	983.36	593.49	24.144	266.00	548.94	1399.11	842.88	26.003
187.00	386.82	988.56	596.60	24.172	267.00	550.99	1404.30	845.99	26.023
188.00	388.87	993.76	599.72	24.200	268.00	553.05	1409.50	849.11	26.042
189.00	390.92	998.96	602.84	24.227	269.00	555.10	1414.69	852.23	26.062
190.00	392.98	1004.15	605.96	24.255	270.00	557.15	1419.89	855.34	26.081
191.00	395.03	1009.35	609.08	24.282	271.00	559.20	1425.08	858.46	26.100
192.00	397.08	1014.55	612.20	24.309	272.00	561.25	1430.28	861.58	26.119
193.00	399.14	1019.75	615.31	24.336	273.00	563.30	1435.47	864.69	26.138
194.00	401.19	1024.95	618.43	24.363	274.00	565.35	1440.67	867.81	26.157
195.00	403.24	1030.15	621.55	24.390	275.00	567.41	1445.86	870.93	26.176
196.00	405.29	1035.34	624.67	24.416	276.00	569.46	1451.06	874.04	26.195
197.00	407.35	1040.54	627.79	24.443	277.00	571.51	1456.25	877.16	26.214
198.00	409.40	1045.74	630.90	24.469	278.00	573.56	1461.45	880.27	26.233
199.00	411.45	1050.94	634.02	24.495	279.00	575.61	1466.64	883.39	26.251
200.00	413.51	1056.14	637.14	24.521	280.00	577.66	1471.84	886.51	26.270
201.00	415.56	1061.33	640.26	24.547	281.00	579.71	1477.04	889.62	26.288
202.00	417.61	1066.53	643.38	24.573	282.00	581.77	1482.23	892.74	26.307
203.00	419.66	1071.73	646.49	24.599	283.00	583.82	1487.43	895.86	26.325
204.00	421.72	1076.93	649.61	24.624	284.00	585.87	1492.62	898.97	26.344
205.00	423.77	1082.12	652.73	24.650	285.00	587.92	1497.82	902.09	26.362
206.00	425.82	1087.32	655.85	24.675	286.00	589.97	1503.01	905.21	26.380
207.00	427.87	1092.52	658.96	24.700	287.00	592.02	1508.21	908.32	26.398
208.00	429.93	1097.72	662.08	24.725	288.00	594.07	1513.40	911.44	26.416
209.00	431.98	1102.91	665.20	24.750	289.00	596.13	1518.60	914.56	26.434
210.00	434.03	1108.11	668.32	24.775	290.00	598.18	1523.79	917.67	26.452
211.00	436.08	1113.31	671.43	24.800	291.00	600.23	1528.99	920.79	26.470
212.00	438.14	1118.51	674.55	24.824	292.00	602.28	1534.18	923.91	26.488
213.00	440.19	1123.70	677.67	24.849	293.00	604.33	1539.38	927.02	26.506
214.00	442.24	1128.90	680.79	24.873	294.00	606.38	1544.57	930.14	26.523
215.00	444.29	1134.10	683.91	24.897	295.00	608.43	1549.77	933.25	26.541
216.00	446.35	1139.30	687.02	24.921	296.00	610.48	1554.96	936.37	26.559
217.00	448.40	1144.49	690.14	24.945	297.00	612.54	1560.16	939.49	26.576
218.00	450.45	1149.69	693.26	24.969	298.00	614.59	1565.35	942.60	26.594
219.00	452.50	1154.89	696.37	24.993	299.00	616.64	1570.55	945.72	26.611
220.00	454.56	1160.08	699.49	25.017	300.00	618.69	1575.74	948.84	26.628

11.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	116.04	332.08	202.75	18.130
					62.00	117.92	337.33	205.89	18.215
					63.00	119.81	342.58	209.04	18.299
					64.00	121.70	347.83	212.18	18.382
					65.00	123.59	353.07	215.32	18.463
					66.00	125.47	358.32	218.46	18.543
					67.00	127.36	363.56	221.61	18.622
					68.00	129.24	368.80	224.75	18.700
					69.00	131.13	374.04	227.89	18.776
					70.00	133.01	379.28	231.02	18.852
					71.00	134.89	384.52	234.16	18.926
					72.00	136.78	389.75	237.30	18.999
					73.00	138.66	394.99	240.44	19.071
					74.00	140.54	400.22	243.57	19.142
					75.00	142.42	405.45	246.71	19.213
					76.00	144.30	410.69	249.85	19.282
					77.00	146.18	415.92	252.98	19.350
					78.00	148.06	421.15	256.11	19.418
					79.00	149.94	426.38	259.25	19.484
					80.00	151.82	431.60	262.38	19.550
					81.00	153.70	436.83	265.52	19.615
					82.00	155.58	442.06	268.65	19.679
					83.00	157.46	447.28	271.78	19.743
					84.00	159.34	452.51	274.91	19.805
					85.00	161.21	457.73	278.04	19.867
					86.00	163.09	462.96	281.17	19.928
					87.00	164.97	468.18	284.31	19.989
					88.00	166.84	473.40	287.44	20.048
					89.00	168.72	478.62	290.57	20.107
					90.00	170.60	483.84	293.70	20.166
					91.00	172.47	489.06	296.82	20.223
					92.00	174.35	494.28	299.95	20.280
					93.00	176.22	499.50	303.08	20.337
					94.00	178.10	504.72	306.21	20.393
					95.00	179.97	509.94	309.34	20.448
					96.00	181.85	515.16	312.47	20.502
					97.00	183.72	520.37	315.59	20.556
					98.00	185.60	525.59	318.72	20.610
					99.00	187.47	530.81	321.85	20.663
					100.00	189.35	536.02	324.98	20.715
					101.00	191.22	541.24	328.10	20.767
					102.00	193.09	546.45	331.23	20.819
					103.00	194.97	551.67	334.36	20.869
					104.00	196.84	556.88	337.48	20.920
					105.00	198.71	562.09	340.61	20.970
					106.00	200.58	567.31	343.73	21.019
					107.00	202.46	572.52	346.86	21.068
					108.00	204.33	577.73	349.98	21.117
					109.00	206.20	582.94	353.11	21.165
					110.00	208.07	588.16	356.23	21.212
					111.00	209.95	593.37	359.36	21.259
					112.00	211.82	598.58	362.48	21.306
					113.00	213.69	603.79	365.61	21.352
					114.00	215.56	609.00	368.73	21.398
					115.00	217.43	614.21	371.86	21.444
					116.00	219.30	619.42	374.98	21.489
					117.00	221.18	624.63	378.11	21.534
					118.00	223.05	629.84	381.23	21.578
					119.00	224.92	635.05	384.35	21.622
					120.00	226.79	640.26	387.48	21.666
					121.00	228.66	645.46	390.60	21.709
					122.00	230.53	650.67	393.72	21.752
					123.00	232.40	655.88	396.85	21.794
					124.00	234.27	661.09	399.97	21.836
					125.00	236.14	666.30	403.09	21.878
					126.00	238.01	671.50	406.21	21.920
					127.00	239.88	676.71	409.34	21.961
					128.00	241.75	681.92	412.46	22.002
					129.00	243.62	687.12	415.58	22.042
					130.00	245.49	692.33	418.70	22.082
					131.00	247.36	697.54	421.83	22.122
					132.00	249.23	702.74	424.95	22.162
					133.00	251.10	707.95	428.07	22.201
					134.00	252.97	713.15	431.19	22.240
					135.00	254.84	718.36	434.31	22.279
					136.00	256.71	723.56	437.43	22.317
					137.00	258.58	728.77	440.56	22.355
					138.00	260.45	733.97	443.68	22.393
					139.00	262.32	739.18	446.80	22.431
					140.00	264.19	744.38	449.92	22.468
3.00	6.25	11.51	4.55	2.030	83.00	157.46	447.28	271.78	19.743
4.00	6.49	13.81	6.57	2.709	84.00	159.34	452.51	274.91	19.805
5.00	6.86	16.90	9.25	3.418	85.00	161.21	457.73	278.04	19.867
6.00	7.45	20.99	12.69	4.157	86.00	163.09	462.96	281.17	19.928
7.00	8.39	26.18	16.82	4.958	87.00	164.97	468.18	284.31	19.989
8.00	9.94	33.01	21.93	5.868	88.00	166.84	473.40	287.44	20.048
9.00	12.13	41.05	27.53	6.814	89.00	168.72	478.62	290.57	20.107
10.00	14.58	49.01	32.76	7.654	90.00	170.60	483.84	293.70	20.166
11.00	17.04	56.47	37.47	8.365	91.00	172.47	489.06	296.82	20.223
12.00	19.43	63.47	41.81	8.974	92.00	174.35	494.28	299.95	20.280
13.00	21.76	70.13	45.88	9.508	93.00	176.22	499.50	303.08	20.337
14.00	24.02	76.55	49.77	9.983	94.00	178.10	504.72	306.21	20.393
15.00	26.23	82.77	53.53	10.412	95.00	179.97	509.94	309.34	20.448
16.00	28.40	88.85	57.19	10.805	96.00	181.85	515.16	312.47	20.502
17.00	30.54	94.81	60.77	11.166	97.00	183.72	520.37	315.59	20.556
18.00	32.65	100.68	64.29	11.502	98.00	185.60	525.59	318.72	20.610
19.00	34.74	106.48	67.76	11.815	99.00	187.47	530.81	321.85	20.663
20.00	36.80	112.21	71.19	12.109	100.00	189.35	536.02	324.98	20.715
21.00	38.85	117.89	74.59	12.386	101.00	191.22	541.24	328.10	20.767
22.00	40.88	123.52	77.95	12.648	102.00	193.09	546.45	331.23	20.819
23.00	42.90	129.11	81.30	12.897	103.00	194.97	551.67	334.36	20.869
24.00	44.91	134.67	84.62	13.134	104.00	196.84	556.88	337.48	20.920
25.00	46.90	140.21	87.93	13.359	105.00	198.71	562.09	340.61	20.970
26.00	48.89	145.71	91.22	13.575	106.00	200.58	567.31	343.73	21.019
27.00	50.87	151.20	94.50	13.782	107.00	202.46	572.52	346.86	21.068
28.00	52.84	156.66	97.76	13.981	108.00	204.33	577.73	349.98	21.117
29.00	54.81	162.10	101.02	14.172	109.00	206.20	582.94	353.11	21.165
30.00	56.76	167.53	104.26	14.356	110.00	208.07	588.16	356.23	21.212
31.00	58.72	172.95	107.50	14.534	111.00	209.95	593.37	359.36	21.259
32.00	60.67	178.35	110.73	14.705	112.00	211.82	598.58	362.48	21.306
33.00	62.61	183.73	113.95	14.871	113.00	213.69	603.79	365.61	21.352
34.00	64.55	189.11	117.16	15.031	114.00	215.56	609.00	368.73	21.398
35.00	66.48	194.48	120.37	15.187	115.00	217.43	614.21	371.86	21.444
36.00	68.42	199.84	123.58	15.338	116.00	219.30	619.42	374.98	21.489
37.00	70.35	205.19	126.78	15.484	117.00	221.18	624.63	378.11	21.534
38.00	72.27	210.53	129.97	15.627	118.00	223.05	629.84	381.23	21.578
39.00	74.19	215.86	133.16	15.765	119.00	224.92	635.05	384.35	21.622
40.00	76.11	221.19	136.35	15.900	120.00	226.79	640.26	387.48	21.666
41.00	78.03	226.51	139.54	16.032	121.00	228.66	645.46	390.60	21.709
42.00	79.95	231.82	142.72	16.160	122.00	230.53	650.67	393.72	21.752
43.00	81.86	237.13	145.89	16.285	123.00	232.40	655.88	396.85	21.794
44.00	83.77	242.44	149.07	16.407	124.00	234.27	661.09	399.97	21.836
45.00	85.68	247.74	152.24	16.526	125.00	236.14	666.30	403.09	21.878
46.00	87.59	253.03	155.41	16.642	126.00	238.01	671.50	406.21	21.920
47.00	89.49	258.33	158.58	16.756	127.00	239.88	676.71	409.34	21.961
48.00	91.40	263.61	161.74	16.867	128.00	241.75	681.92	412.46	22.002
49.00	93.30	268.90	164.91	16.976	129.00	243.62	687.12	415.58	22.042
50.00	95.20	274.18	168.07	17.083	130.00	245.49	692.33	418.70	22.082
51.00	97.10	279.45	171.23	17.187	131.00	247.36	697.54	421.83	22.122
52.00	99.00	284.73	174.39	17.290	132.00	249.23	702.74	424.95	22.162
53.00	100.89	290.00	177.54	17.390	133.00	251.10	707.95	428.07	22.201
54.00	102.79	295.27	180.70	17.489	134.00	252.97			

11.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	266.06	749.59	453.04	22.505	221.00	415.42	1165.59	702.56	24.842
142.00	267.92	754.79	456.16	22.542	222.00	417.29	1170.79	705.68	24.866
143.00	269.79	760.00	459.28	22.578	223.00	419.15	1175.98	708.79	24.889
144.00	271.66	765.20	462.40	22.615	224.00	421.02	1181.18	711.91	24.912
145.00	273.53	770.40	465.52	22.651	225.00	422.88	1186.38	715.03	24.935
146.00	275.40	775.61	468.65	22.686	226.00	424.75	1191.58	718.15	24.958
147.00	277.27	780.81	471.77	22.722	227.00	426.62	1196.77	721.27	24.981
148.00	279.14	786.01	474.89	22.757	228.00	428.48	1201.97	724.38	25.004
149.00	281.00	791.22	478.01	22.792	229.00	430.35	1207.17	727.50	25.027
150.00	282.87	796.42	481.13	22.827	230.00	432.21	1212.36	730.62	25.050
151.00	284.74	801.62	484.25	22.862	231.00	434.08	1217.56	733.73	25.072
152.00	286.61	806.83	487.37	22.896	232.00	435.94	1222.76	736.85	25.095
153.00	288.48	812.03	490.49	22.930	233.00	437.81	1227.96	739.97	25.117
154.00	290.35	817.23	493.61	22.964	234.00	439.68	1233.15	743.09	25.139
155.00	292.21	822.43	496.73	22.998	235.00	441.54	1238.35	746.20	25.161
156.00	294.08	827.63	499.85	23.031	236.00	443.41	1243.55	749.32	25.183
157.00	295.95	832.84	502.97	23.064	237.00	445.27	1248.74	752.44	25.205
158.00	297.82	838.04	506.09	23.097	238.00	447.14	1253.94	755.56	25.227
159.00	299.69	843.24	509.21	23.130	239.00	449.00	1259.14	758.67	25.249
160.00	301.55	848.44	512.33	23.163	240.00	450.87	1264.33	761.79	25.271
161.00	303.42	853.64	515.45	23.195	241.00	452.74	1269.53	764.91	25.292
162.00	305.29	858.85	518.57	23.227	242.00	454.60	1274.73	768.03	25.314
163.00	307.16	864.05	521.69	23.259	243.00	456.47	1279.92	771.14	25.335
164.00	309.02	869.25	524.81	23.291	244.00	458.33	1285.12	774.26	25.357
165.00	310.89	874.45	527.93	23.323	245.00	460.20	1290.31	777.38	25.378
166.00	312.76	879.65	531.05	23.354	246.00	462.06	1295.51	780.49	25.399
167.00	314.63	884.85	534.17	23.386	247.00	463.93	1300.71	783.61	25.420
168.00	316.49	890.05	537.29	23.417	248.00	465.79	1305.90	786.73	25.441
169.00	318.36	895.25	540.41	23.447	249.00	467.66	1311.10	789.85	25.462
170.00	320.23	900.45	543.52	23.478	250.00	469.52	1316.30	792.96	25.483
171.00	322.10	905.65	546.64	23.509	251.00	471.39	1321.49	796.08	25.504
172.00	323.96	910.85	549.76	23.539	252.00	473.26	1326.69	799.20	25.524
173.00	325.83	916.06	552.88	23.569	253.00	475.12	1331.88	802.31	25.545
174.00	327.70	921.26	556.00	23.599	254.00	476.99	1337.08	805.43	25.565
175.00	329.57	926.46	559.12	23.629	255.00	478.85	1342.28	808.55	25.586
176.00	331.43	931.66	562.24	23.659	256.00	480.72	1347.47	811.66	25.606
177.00	333.30	936.86	565.36	23.688	257.00	482.58	1352.67	814.78	25.626
178.00	335.17	942.06	568.48	23.717	258.00	484.45	1357.87	817.90	25.647
179.00	337.03	947.26	571.60	23.746	259.00	486.31	1363.06	821.02	25.667
180.00	338.90	952.46	574.72	23.775	260.00	488.18	1368.26	824.13	25.687
181.00	340.77	957.66	577.83	23.804	261.00	490.04	1373.45	827.25	25.707
182.00	342.63	962.85	580.95	23.833	262.00	491.91	1378.65	830.37	25.727
183.00	344.50	968.05	584.07	23.861	263.00	493.77	1383.84	833.48	25.746
184.00	346.37	973.25	587.19	23.890	264.00	495.64	1389.04	836.60	25.766
185.00	348.24	978.45	590.31	23.918	265.00	497.50	1394.24	839.72	25.786
186.00	350.10	983.65	593.43	23.946	266.00	499.37	1399.43	842.83	25.805
187.00	351.97	988.85	596.55	23.974	267.00	501.23	1404.63	845.95	25.825
188.00	353.84	994.05	599.66	24.002	268.00	503.10	1409.82	849.07	25.844
189.00	355.70	999.25	602.78	24.029	269.00	504.96	1415.02	852.18	25.864
190.00	357.57	1004.45	605.90	24.057	270.00	506.83	1420.22	855.30	25.883
191.00	359.44	1009.65	609.02	24.084	271.00	508.69	1425.41	858.42	25.902
192.00	361.30	1014.85	612.14	24.111	272.00	510.56	1430.61	861.53	25.921
193.00	363.17	1020.05	615.26	24.138	273.00	512.43	1435.80	864.65	25.940
194.00	365.03	1025.24	618.38	24.165	274.00	514.29	1441.00	867.77	25.959
195.00	366.90	1030.44	621.49	24.192	275.00	516.16	1446.19	870.88	25.978
196.00	368.77	1035.64	624.61	24.218	276.00	518.02	1451.39	874.00	25.997
197.00	370.63	1040.84	627.73	24.245	277.00	519.89	1456.58	877.12	26.016
198.00	372.50	1046.04	630.85	24.271	278.00	521.75	1461.78	880.23	26.035
199.00	374.37	1051.24	633.97	24.297	279.00	523.62	1466.98	883.35	26.053
200.00	376.23	1056.44	637.08	24.323	280.00	525.48	1472.17	886.47	26.072
201.00	378.10	1061.63	640.20	24.349	281.00	527.35	1477.37	889.58	26.090
202.00	379.97	1066.83	643.32	24.375	282.00	529.21	1482.56	892.70	26.109
203.00	381.83	1072.03	646.44	24.401	283.00	531.08	1487.76	895.82	26.127
204.00	383.70	1077.23	649.56	24.426	284.00	532.94	1492.95	898.93	26.145
205.00	385.56	1082.43	652.68	24.452	285.00	534.81	1498.15	902.05	26.164
206.00	387.43	1087.63	655.79	24.477	286.00	536.67	1503.34	905.17	26.182
207.00	389.30	1092.82	658.91	24.502	287.00	538.54	1508.54	908.28	26.200
208.00	391.16	1098.02	662.03	24.527	288.00	540.40	1513.73	911.40	26.218
209.00	393.03	1103.22	665.15	24.552	289.00	542.27	1518.93	914.52	26.236
210.00	394.90	1108.42	668.26	24.577	290.00	544.13	1524.12	917.63	26.254
211.00	396.76	1113.61	671.38	24.601	291.00	546.00	1529.32	920.75	26.272
212.00	398.63	1118.81	674.50	24.626	292.00	547.86	1534.52	923.87	26.290
213.00	400.49	1124.01	677.62	24.651	293.00	549.73	1539.71	926.98	26.308
214.00	402.36	1129.21	680.74	24.675	294.00	551.59	1544.91	930.10	26.325
215.00	404.23	1134.41	683.85	24.699	295.00	553.46	1550.10	933.22	26.343
216.00	406.09	1139.60	686.97	24.723	296.00	555.32	1555.30	936.33	26.360
217.00	407.96	1144.80	690.09	24.747	297.00	557.19	1560.49	939.45	26.378
218.00	409.82	1150.00	693.21	24.771	298.00	559.05	1565.69	942.57	26.395
219.00	411.69	1155.20	696.32	24.795	299.00	560.91	1570.88	945.68	26.413
220.00	413.56	1160.39	699.44	24.819	300.00	562.78	1576.08	948.80	26.430

12.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	106.57	332.16	202.58	17.946
					62.00	108.31	337.42	205.73	18.032
					63.00	110.04	342.67	208.87	18.116
					64.00	111.77	347.92	212.02	18.199
					65.00	113.50	353.17	215.16	18.280
					66.00	115.23	358.42	218.31	18.360
					67.00	116.96	363.67	221.45	18.439
					68.00	118.69	368.91	224.59	18.517
					69.00	120.42	374.16	227.73	18.593
					70.00	122.15	379.40	230.88	18.669
					71.00	123.87	384.64	234.02	18.743
					72.00	125.60	389.88	237.16	18.816
					73.00	127.33	395.12	240.29	18.889
					74.00	129.05	400.35	243.43	18.960
					75.00	130.78	405.59	246.57	19.030
					76.00	132.51	410.83	249.71	19.100
					77.00	134.23	416.06	252.84	19.168
					78.00	135.96	421.29	255.98	19.235
					79.00	137.68	426.52	259.12	19.302
					80.00	139.40	431.76	262.25	19.368
					81.00	141.13	436.99	265.39	19.433
					82.00	142.85	442.22	268.52	19.497
					83.00	144.57	447.44	271.65	19.560
					84.00	146.30	452.67	274.79	19.623
					85.00	148.02	457.90	277.92	19.685
					86.00	149.74	463.12	281.05	19.746
					87.00	151.46	468.35	284.18	19.806
					88.00	153.18	473.57	287.32	19.866
					89.00	154.90	478.80	290.45	19.925
					90.00	156.62	484.02	293.58	19.984
3.00	6.20	12.09	4.55	2.010	91.00	158.34	489.24	296.71	20.041
4.00	6.43	14.35	6.53	2.680	92.00	160.06	494.47	299.84	20.098
5.00	6.78	17.37	9.13	3.373	93.00	161.78	499.69	302.97	20.155
6.00	7.31	21.31	12.43	4.087	94.00	163.50	504.91	306.10	20.211
7.00	8.13	26.23	16.34	4.846	95.00	165.22	510.13	309.23	20.266
8.00	9.42	32.59	21.13	5.692	96.00	166.94	515.35	312.36	20.321
9.00	11.25	40.22	26.53	6.590	97.00	168.66	520.57	315.49	20.375
10.00	13.40	48.06	31.76	7.417	98.00	170.38	525.79	318.61	20.428
					99.00	172.10	531.00	321.74	20.481
					100.00	173.82	536.22	324.87	20.534
11.00	15.61	55.54	36.56	8.130	101.00	175.54	541.44	328.00	20.585
12.00	17.79	62.61	40.98	8.746	102.00	177.25	546.66	331.13	20.637
13.00	19.92	69.35	45.12	9.285	103.00	178.97	551.87	334.25	20.688
14.00	22.00	75.83	49.08	9.766	104.00	180.69	557.09	337.38	20.738
15.00	24.04	82.12	52.89	10.199	105.00	182.41	562.30	340.51	20.788
16.00	26.04	88.25	56.59	10.595	106.00	184.13	567.52	343.63	20.837
17.00	28.01	94.26	60.20	10.960	107.00	185.84	572.73	346.76	20.886
18.00	29.95	100.18	63.76	11.298	108.00	187.56	577.95	349.89	20.935
19.00	31.88	106.01	67.25	11.613	109.00	189.28	583.16	353.01	20.983
20.00	33.78	111.78	70.71	11.909	110.00	190.99	588.37	356.14	21.031
21.00	35.66	117.49	74.13	12.188	111.00	192.71	593.59	359.26	21.078
22.00	37.53	123.16	77.52	12.451	112.00	194.43	598.80	362.39	21.125
23.00	39.39	128.78	80.88	12.701	113.00	196.14	604.01	365.51	21.171
24.00	41.24	134.37	84.22	12.939	114.00	197.86	609.22	368.64	21.217
25.00	43.08	139.92	87.54	13.166	115.00	199.58	614.43	371.76	21.262
26.00	44.90	145.45	90.85	13.383	116.00	201.29	619.65	374.89	21.307
27.00	46.73	150.95	94.14	13.590	117.00	203.01	624.86	378.01	21.352
28.00	48.54	156.44	97.42	13.790	118.00	204.72	630.07	381.14	21.396
29.00	50.35	161.90	100.68	13.982	119.00	206.44	635.28	384.26	21.440
30.00	52.15	167.34	103.94	14.166	120.00	208.15	640.49	387.39	21.484
31.00	53.94	172.77	107.18	14.344	121.00	209.87	645.70	390.51	21.527
32.00	55.73	178.19	110.42	14.516	122.00	211.59	650.91	393.63	21.570
33.00	57.52	183.59	113.65	14.682	123.00	213.30	656.12	396.76	21.613
34.00	59.30	188.98	116.88	14.843	124.00	215.02	661.33	399.88	21.655
35.00	61.08	194.36	120.09	14.999	125.00	216.73	666.53	403.00	21.697
36.00	62.86	199.73	123.30	15.150	126.00	218.45	671.74	406.13	21.738
37.00	64.63	205.09	126.51	15.297	127.00	220.16	676.95	409.25	21.779
38.00	66.40	210.45	129.71	15.440	128.00	221.88	682.16	412.37	21.820
39.00	68.16	215.79	132.91	15.579	129.00	223.59	687.37	415.50	21.861
40.00	69.93	221.13	136.10	15.714	130.00	225.30	692.58	418.62	21.901
41.00	71.69	226.46	139.29	15.846	131.00	227.02	697.78	421.74	21.941
42.00	73.45	231.78	142.48	15.974	132.00	228.73	702.99	424.87	21.980
43.00	75.20	237.10	145.66	16.099	133.00	230.45	708.20	427.99	22.020
44.00	76.96	242.41	148.84	16.221	134.00	232.16	713.40	431.11	22.059
45.00	78.71	247.72	152.02	16.341	135.00	233.88	718.61	434.23	22.097
46.00	80.46	253.03	155.19	16.457	136.00	235.59	723.82	437.35	22.136
47.00	82.21	258.33	158.36	16.571	137.00	237.30	729.02	440.48	22.174
48.00	83.96	263.62	161.53	16.683	138.00	239.02	734.23	443.60	22.212
49.00	85.70	268.91	164.70	16.792	139.00	240.73	739.43	446.72	22.250
50.00	87.45	274.20	167.87	16.899	140.00	242.45	744.64	449.84	22.287
51.00	89.19	279.48	171.03	17.003					
52.00	90.94	284.76	174.19	17.106					
53.00	92.68	290.04	177.35	17.206					
54.00	94.42	295.31	180.51	17.305					
55.00	96.16	300.59	183.67	17.402					
56.00	97.89	305.85	186.82	17.496					
57.00	99.63	311.12	189.97	17.590					
58.00	101.37	316.38	193.13	17.681					
59.00	103.10	321.65	196.28	17.771					
60.00	104.84	326.90	199.43	17.860					

12.00 ATMOSPHERE ISOBAR

TEMPERATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPERATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	244.16	749.84	452.96	22.324	221.00	381.10	1165.90	702.51	24.661
142.00	245.87	755.05	456.09	22.361	222.00	382.81	1171.10	705.63	24.685
143.00	247.59	760.25	459.21	22.397	223.00	384.52	1176.30	708.75	24.708
144.00	249.30	765.46	462.33	22.433	224.00	386.23	1181.49	711.86	24.731
145.00	251.01	770.66	465.45	22.469	225.00	387.94	1186.69	714.98	24.754
146.00	252.73	775.87	468.57	22.505	226.00	389.65	1191.89	718.10	24.777
147.00	254.44	781.07	471.69	22.541	227.00	391.36	1197.09	721.22	24.800
148.00	256.15	786.28	474.81	22.576	228.00	393.07	1202.28	724.33	24.823
149.00	257.87	791.48	477.93	22.611	229.00	394.78	1207.48	727.45	24.846
150.00	259.58	796.69	481.06	22.646	230.00	396.49	1212.68	730.57	24.869
151.00	261.29	801.89	484.18	22.680	231.00	398.20	1217.88	733.69	24.891
152.00	263.00	807.09	487.30	22.715	232.00	399.91	1223.07	736.80	24.914
153.00	264.72	812.30	490.42	22.749	233.00	401.62	1228.27	739.92	24.936
154.00	266.43	817.50	493.54	22.783	234.00	403.34	1233.47	743.04	24.958
155.00	268.14	822.70	496.66	22.817	235.00	405.05	1238.67	746.16	24.980
156.00	269.86	827.91	499.78	22.850	236.00	406.76	1243.86	749.27	25.003
157.00	271.57	833.11	502.90	22.883	237.00	408.47	1249.06	752.39	25.024
158.00	273.28	838.31	506.02	22.916	238.00	410.18	1254.26	755.51	25.046
159.00	274.99	843.51	509.14	22.949	239.00	411.89	1259.45	758.63	25.068
160.00	276.71	848.72	512.26	22.982	240.00	413.60	1264.65	761.74	25.090
161.00	278.42	853.92	515.38	23.014	241.00	415.31	1269.85	764.86	25.111
162.00	280.13	859.12	518.50	23.046	242.00	417.02	1275.04	767.98	25.133
163.00	281.84	864.32	521.62	23.078	243.00	418.73	1280.24	771.10	25.154
164.00	283.56	869.53	524.74	23.110	244.00	420.44	1285.44	774.21	25.176
165.00	285.27	874.73	527.86	23.142	245.00	422.15	1290.63	777.33	25.197
166.00	286.98	879.93	530.98	23.173	246.00	423.86	1295.83	780.45	25.218
167.00	288.69	885.13	534.10	23.204	247.00	425.57	1301.03	783.57	25.239
168.00	290.40	890.33	537.22	23.236	248.00	427.28	1306.22	786.68	25.260
169.00	292.12	895.53	540.34	23.266	249.00	428.99	1311.42	789.80	25.281
170.00	293.83	900.74	543.46	23.297	250.00	430.70	1316.62	792.92	25.302
171.00	295.54	905.94	546.58	23.328	251.00	432.41	1321.81	796.04	25.323
172.00	297.25	911.14	549.70	23.358	252.00	434.12	1327.01	799.15	25.343
173.00	298.96	916.34	552.82	23.388	253.00	435.83	1332.21	802.27	25.364
174.00	300.68	921.54	555.94	23.418	254.00	437.54	1337.40	805.39	25.384
175.00	302.39	926.74	559.06	23.448	255.00	439.25	1342.60	808.50	25.405
176.00	304.10	931.94	562.18	23.477	256.00	440.96	1347.80	811.62	25.425
177.00	305.81	937.14	565.30	23.507	257.00	442.67	1352.99	814.74	25.446
178.00	307.52	942.34	568.42	23.536	258.00	444.38	1358.19	817.86	25.466
179.00	309.23	947.54	571.54	23.565	259.00	446.09	1363.39	820.97	25.486
180.00	310.95	952.74	574.65	23.594	260.00	447.80	1368.58	824.09	25.506
181.00	312.66	957.94	577.77	23.623	261.00	449.51	1373.78	827.21	25.526
182.00	314.37	963.14	580.89	23.652	262.00	451.22	1378.97	830.32	25.546
183.00	316.08	968.35	584.01	23.680	263.00	452.93	1384.17	833.44	25.565
184.00	317.79	973.55	587.13	23.709	264.00	454.64	1389.37	836.56	25.585
185.00	319.50	978.75	590.25	23.737	265.00	456.35	1394.56	839.67	25.605
186.00	321.22	983.95	593.37	23.765	266.00	458.06	1399.76	842.79	25.624
187.00	322.93	989.14	596.49	23.793	267.00	459.77	1404.96	845.91	25.644
188.00	324.64	994.34	599.61	23.820	268.00	461.48	1410.15	849.03	25.663
189.00	326.35	999.54	602.73	23.848	269.00	463.19	1415.35	852.14	25.683
190.00	328.06	1004.74	605.84	23.875	270.00	464.90	1420.54	855.26	25.702
191.00	329.77	1009.94	608.96	23.903	271.00	466.61	1425.74	858.38	25.721
192.00	331.48	1015.14	612.08	23.930	272.00	468.32	1430.94	861.49	25.740
193.00	333.20	1020.34	615.20	23.957	273.00	470.03	1436.13	864.61	25.759
194.00	334.91	1025.54	618.32	23.984	274.00	471.74	1441.33	867.73	25.778
195.00	336.62	1030.74	621.44	24.011	275.00	473.45	1446.52	870.84	25.797
196.00	338.33	1035.94	624.56	24.037	276.00	475.16	1451.72	873.96	25.816
197.00	340.04	1041.14	627.67	24.064	277.00	476.87	1456.92	877.08	25.835
198.00	341.75	1046.34	630.79	24.090	278.00	478.58	1462.11	880.19	25.854
199.00	343.46	1051.54	633.91	24.116	279.00	480.29	1467.31	883.31	25.872
200.00	345.17	1056.74	637.03	24.142	280.00	482.00	1472.50	886.43	25.891
201.00	346.88	1061.94	640.15	24.168	281.00	483.71	1477.70	889.55	25.909
202.00	348.59	1067.13	643.27	24.194	282.00	485.41	1482.89	892.66	25.928
203.00	350.31	1072.33	646.38	24.220	283.00	487.12	1488.09	895.78	25.946
204.00	352.02	1077.53	649.50	24.245	284.00	488.83	1493.29	898.90	25.965
205.00	353.73	1082.73	652.62	24.271	285.00	490.54	1498.48	902.01	25.983
206.00	355.44	1087.93	655.74	24.296	286.00	492.25	1503.68	905.13	26.001
207.00	357.15	1093.13	658.86	24.321	287.00	493.96	1508.87	908.25	26.019
208.00	358.86	1098.33	661.98	24.346	288.00	495.67	1514.07	911.36	26.037
209.00	360.57	1103.52	665.09	24.371	289.00	497.38	1519.26	914.48	26.055
210.00	362.28	1108.72	668.21	24.396	290.00	499.09	1524.46	917.60	26.073
211.00	363.99	1113.92	671.33	24.421	291.00	500.80	1529.65	920.71	26.091
212.00	365.70	1119.12	674.45	24.445	292.00	502.51	1534.85	923.83	26.109
213.00	367.41	1124.32	677.57	24.470	293.00	504.22	1540.05	926.95	26.127
214.00	369.12	1129.52	680.68	24.494	294.00	505.93	1545.24	930.06	26.144
215.00	370.84	1134.71	683.80	24.518	295.00	507.64	1550.44	933.18	26.162
216.00	372.55	1139.91	686.92	24.542	296.00	509.35	1555.63	936.30	26.180
217.00	374.26	1145.11	690.04	24.566	297.00	511.06	1560.83	939.41	26.197
218.00	375.97	1150.31	693.16	24.590	298.00	512.77	1566.02	942.53	26.215
219.00	377.68	1155.51	696.27	24.614	299.00	514.48	1571.22	945.65	26.232
220.00	379.39	1160.70	699.39	24.638	300.00	516.19	1576.41	948.76	26.249

13.00 ATMOSPHERE IS08AR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	98.57	332.25	202.41	17.778
					62.00	100.17	337.51	205.56	17.863
					63.00	101.77	342.77	208.71	17.947
					64.00	103.37	348.02	211.86	18.030
					65.00	104.97	353.28	215.01	18.112
					66.00	106.57	358.53	218.15	18.192
					67.00	108.16	363.78	221.30	18.271
					68.00	109.76	369.03	224.44	18.348
					69.00	111.36	374.27	227.59	18.425
					70.00	112.96	379.52	230.73	18.501
					71.00	114.55	384.77	233.87	18.575
					72.00	116.15	390.01	237.01	18.648
					73.00	117.74	395.25	240.15	18.721
					74.00	119.34	400.49	243.29	18.792
					75.00	120.93	405.73	246.43	18.862
					76.00	122.52	410.97	249.57	18.932
					77.00	124.12	416.21	252.71	19.000
					78.00	125.71	421.44	255.85	19.068
					79.00	127.30	426.68	258.98	19.134
					80.00	128.90	431.91	262.12	19.200
					81.00	130.49	437.14	265.26	19.265
					82.00	132.08	442.38	268.39	19.329
					83.00	133.67	447.61	271.53	19.393
					84.00	135.26	452.84	274.66	19.455
					85.00	136.85	458.07	277.80	19.517
					86.00	138.44	463.29	280.93	19.578
					87.00	140.03	468.52	284.06	19.639
					88.00	141.62	473.75	287.20	19.699
					89.00	143.21	478.98	290.33	19.758
					90.00	144.80	484.20	293.46	19.816
					91.00	146.39	489.43	296.59	19.874
					92.00	147.98	494.65	299.72	19.931
					93.00	149.57	499.87	302.86	19.987
					94.00	151.16	505.10	305.99	20.043
					95.00	152.74	510.32	309.12	20.098
					96.00	154.33	515.54	312.25	20.153
					97.00	155.92	520.76	315.38	20.207
					98.00	157.51	525.98	318.51	20.261
					99.00	159.09	531.20	321.64	20.314
					100.00	160.68	536.42	324.76	20.366
					101.00	162.27	541.64	327.89	20.418
					102.00	163.85	546.86	331.02	20.470
					103.00	165.44	552.08	334.15	20.521
					104.00	167.03	557.30	337.28	20.571
					105.00	168.61	562.51	340.41	20.621
					106.00	170.20	567.73	343.53	20.670
					107.00	171.78	572.95	346.66	20.719
					108.00	173.37	578.16	349.79	20.768
					109.00	174.96	583.38	352.91	20.816
					110.00	176.54	588.59	356.04	20.863
					111.00	178.13	593.81	359.17	20.911
					112.00	179.71	599.02	362.29	20.957
					113.00	181.30	604.23	365.42	21.004
					114.00	182.88	609.45	368.55	21.050
					115.00	184.47	614.66	371.67	21.095
					116.00	186.05	619.87	374.80	21.140
					117.00	187.63	625.09	377.92	21.185
					118.00	189.22	630.30	381.05	21.229
					119.00	190.80	635.51	384.17	21.273
					120.00	192.39	640.72	387.30	21.317
					121.00	193.97	645.93	390.42	21.360
					122.00	195.56	651.14	393.55	21.403
					123.00	197.14	656.35	396.67	21.446
					124.00	198.72	661.56	399.80	21.488
					125.00	200.31	666.77	402.92	21.530
					126.00	201.89	671.98	406.04	21.571
					127.00	203.47	677.19	409.17	21.612
					128.00	205.06	682.40	412.29	21.653
					129.00	206.64	687.61	415.41	21.694
					130.00	208.22	692.82	418.54	21.734
					131.00	209.81	698.03	421.66	21.774
					132.00	211.39	703.24	424.78	21.814
					133.00	212.97	708.45	427.91	21.853
					134.00	214.55	713.65	431.03	21.892
					135.00	216.14	718.86	434.15	21.931
					136.00	217.72	724.07	437.28	21.969
					137.00	219.30	729.28	440.40	22.007
					138.00	220.88	734.48	443.52	22.045
					139.00	222.47	739.69	446.64	22.083
					140.00	224.05	744.90	449.77	22.120
3.00	6.15	12.66	4.55	1.992					
4.00	6.37	14.88	6.49	2.652					
5.00	6.70	17.84	9.02	3.332					
6.00	7.18	21.67	12.21	4.024					
7.00	7.91	26.36	15.93	4.748					
8.00	9.02	32.35	20.46	5.546					
9.00	10.57	39.60	25.67	6.399					
10.00	12.45	47.26	30.85	7.206					
11.00	14.44	54.72	35.69	7.917					
12.00	16.44	61.83	40.18	8.536					
13.00	18.40	68.63	44.39	9.080					
14.00	20.32	75.17	48.40	9.565					
15.00	22.21	81.51	52.26	10.003					
16.00	24.06	87.69	56.00	10.402					
17.00	25.89	93.75	59.65	10.769					
18.00	27.69	99.70	63.23	11.109					
19.00	29.47	105.58	66.76	11.427					
20.00	31.23	111.38	70.24	11.725					
21.00	32.98	117.12	73.68	12.005					
22.00	34.71	122.81	77.09	12.270					
23.00	36.43	128.46	80.47	12.521					
24.00	38.14	134.07	83.83	12.760					
25.00	39.85	139.65	87.16	12.987					
26.00	41.54	145.20	90.48	13.205					
27.00	43.22	150.72	93.79	13.413					
28.00	44.90	156.22	97.07	13.613					
29.00	46.58	161.70	100.35	13.806					
30.00	48.24	167.17	103.62	13.991					
31.00	49.91	172.61	106.87	14.169					
32.00	51.56	178.04	110.12	14.342					
33.00	53.22	183.46	113.36	14.508					
34.00	54.87	188.86	116.59	14.670					
35.00	56.51	194.25	119.81	14.826					
36.00	58.15	199.64	123.03	14.978					
37.00	59.79	205.01	126.25	15.125					
38.00	61.43	210.37	129.45	15.268					
39.00	63.06	215.73	132.66	15.407					
40.00	64.69	221.07	135.86	15.542					
41.00	66.32	226.41	139.05	15.674					
42.00	67.95	231.75	142.24	15.803					
43.00	69.57	237.07	145.43	15.928					
44.00	71.19	242.40	148.62	16.051					
45.00	72.81	247.71	151.80	16.170					
46.00	74.43	253.02	154.98	16.287					
47.00	76.05	258.33	158.15	16.401					
48.00	77.67	263.63	161.33	16.512					
49.00	79.28	268.93	164.50	16.622					
50.00	80.89	274.22	167.67	16.729					
51.00	82.51	279.51	170.83	16.833					
52.00	84.12	284.80	174.00	16.936					
53.00	85.73	290.08	177.16	17.037					
54.00	87.33	295.36	180.32	17.135					
55.00	88.94	300.64	183.48	17.232					
56.00	90.55	305.91	186.64	17.327					
57.00	92.15	311.19	189.80	17.421					
58.00	93.76	316.46	192.95	17.512					
59.00	95.36	321.72	196.11	17.602					
60.00	96.96	326.99	199.26	17.691					

13.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	225.63	750.10	452.89	22.157	221.00	352.06	1166.21	702.46	24.495
142.00	227.21	755.31	456.01	22.194	222.00	353.64	1171.41	705.58	24.518
143.00	228.80	760.51	459.13	22.230	223.00	355.22	1176.61	708.70	24.542
144.00	230.38	765.72	462.25	22.267	224.00	356.80	1181.81	711.81	24.565
145.00	231.96	770.93	465.38	22.303	225.00	358.37	1187.00	714.93	24.588
146.00	233.54	776.13	468.50	22.338	226.00	359.95	1192.20	718.05	24.611
147.00	235.12	781.34	471.62	22.374	227.00	361.53	1197.40	721.17	24.634
148.00	236.70	786.54	474.74	22.409	228.00	363.11	1202.60	724.29	24.657
149.00	238.29	791.75	477.86	22.444	229.00	364.69	1207.80	727.40	24.680
150.00	239.87	796.95	480.98	22.479	230.00	366.27	1212.99	730.52	24.702
151.00	241.45	802.16	484.10	22.514	231.00	367.85	1218.19	733.64	24.725
152.00	243.03	807.36	487.23	22.548	232.00	369.43	1223.39	736.76	24.747
153.00	244.61	812.57	490.35	22.582	233.00	371.01	1228.59	739.87	24.770
154.00	246.19	817.77	493.47	22.616	234.00	372.58	1233.78	742.99	24.792
155.00	247.77	822.97	496.59	22.650	235.00	374.16	1238.98	746.11	24.814
156.00	249.36	828.18	499.71	22.683	236.00	375.74	1244.18	749.23	24.836
157.00	250.94	833.38	502.83	22.717	237.00	377.32	1249.38	752.35	24.858
158.00	252.52	838.58	505.95	22.750	238.00	378.90	1254.57	755.46	24.880
159.00	254.10	843.79	509.07	22.782	239.00	380.48	1259.77	758.58	24.902
160.00	255.68	848.99	512.19	22.815	240.00	382.06	1264.97	761.70	24.923
161.00	257.26	854.19	515.31	22.847	241.00	383.64	1270.17	764.82	24.945
162.00	258.84	859.40	518.43	22.880	242.00	385.22	1275.36	767.93	24.967
163.00	260.42	864.60	521.55	22.912	243.00	386.79	1280.56	771.05	24.988
164.00	262.00	869.80	524.68	22.943	244.00	388.37	1285.76	774.17	25.009
165.00	263.59	875.01	527.80	22.975	245.00	389.95	1290.95	777.29	25.031
166.00	265.17	880.21	530.92	23.007	246.00	391.53	1296.15	780.40	25.052
167.00	266.75	885.41	534.04	23.038	247.00	393.11	1301.35	783.52	25.073
168.00	268.33	890.61	537.16	23.069	248.00	394.69	1306.55	786.64	25.094
169.00	269.91	895.82	540.28	23.100	249.00	396.27	1311.74	789.76	25.115
170.00	271.49	901.02	543.40	23.130	250.00	397.85	1316.94	792.87	25.136
171.00	273.07	906.22	546.52	23.161	251.00	399.42	1322.14	795.99	25.156
172.00	274.65	911.42	549.64	23.191	252.00	401.00	1327.33	799.11	25.177
173.00	276.23	916.62	552.76	23.221	253.00	402.58	1332.53	802.23	25.198
174.00	277.81	921.83	555.88	23.251	254.00	404.16	1337.73	805.34	25.218
175.00	279.39	927.03	559.00	23.281	255.00	405.74	1342.92	808.46	25.238
176.00	280.97	932.23	562.12	23.311	256.00	407.32	1348.12	811.58	25.259
177.00	282.55	937.43	565.24	23.340	257.00	408.90	1353.32	814.70	25.279
178.00	284.13	942.63	568.35	23.370	258.00	410.47	1358.51	817.81	25.299
179.00	285.71	947.83	571.47	23.399	259.00	412.05	1363.71	820.93	25.319
180.00	287.29	953.03	574.59	23.428	260.00	413.63	1368.91	824.05	25.339
181.00	288.87	958.23	577.71	23.457	261.00	415.21	1374.10	827.16	25.359
182.00	290.45	963.44	580.83	23.485	262.00	416.79	1379.30	830.28	25.379
183.00	292.03	968.64	583.95	23.514	263.00	418.37	1384.50	833.40	25.399
184.00	293.61	973.84	587.07	23.542	264.00	419.95	1389.69	836.52	25.419
185.00	295.19	979.04	590.19	23.570	265.00	421.52	1394.89	839.63	25.438
186.00	296.77	984.24	593.31	23.598	266.00	423.10	1400.09	842.75	25.458
187.00	298.35	989.44	596.43	23.626	267.00	424.68	1405.28	845.87	25.477
188.00	299.93	994.64	599.55	23.654	268.00	426.26	1410.48	848.98	25.497
189.00	301.51	999.84	602.67	23.681	269.00	427.84	1415.68	852.10	25.516
190.00	303.09	1005.04	605.79	23.709	270.00	429.42	1420.87	855.22	25.535
191.00	304.67	1010.24	608.91	23.736	271.00	430.99	1426.07	858.34	25.555
192.00	306.25	1015.44	612.02	23.763	272.00	432.57	1431.26	861.45	25.574
193.00	307.83	1020.64	615.14	23.790	273.00	434.15	1436.46	864.57	25.593
194.00	309.41	1025.84	618.26	23.817	274.00	435.73	1441.66	867.69	25.612
195.00	310.99	1031.04	621.38	23.844	275.00	437.31	1446.85	870.80	25.631
196.00	312.57	1036.24	624.50	23.871	276.00	438.89	1452.05	873.92	25.650
197.00	314.15	1041.44	627.62	23.897	277.00	440.47	1457.25	877.04	25.668
198.00	315.73	1046.64	630.74	23.923	278.00	442.04	1462.44	880.16	25.687
199.00	317.31	1051.84	633.86	23.950	279.00	443.62	1467.64	883.27	25.706
200.00	318.89	1057.04	636.97	23.976	280.00	445.20	1472.83	886.39	25.724
201.00	320.47	1062.24	640.09	24.002	281.00	446.78	1478.03	889.51	25.743
202.00	322.05	1067.44	643.21	24.027	282.00	448.36	1483.23	892.62	25.761
203.00	323.63	1072.64	646.33	24.053	283.00	449.94	1488.42	895.74	25.780
204.00	325.21	1077.83	649.45	24.079	284.00	451.51	1493.62	898.86	25.798
205.00	326.79	1083.03	652.57	24.104	285.00	453.09	1498.81	901.97	25.816
206.00	328.37	1088.23	655.69	24.129	286.00	454.67	1504.01	905.09	25.835
207.00	329.95	1093.43	658.80	24.154	287.00	456.25	1509.21	908.21	25.853
208.00	331.53	1098.63	661.92	24.180	288.00	457.83	1514.40	911.32	25.871
209.00	333.11	1103.83	665.04	24.204	289.00	459.40	1519.60	914.44	25.889
210.00	334.69	1109.03	668.16	24.229	290.00	460.98	1524.79	917.56	25.907
211.00	336.27	1114.23	671.28	24.254	291.00	462.56	1529.99	920.67	25.925
212.00	337.84	1119.43	674.40	24.279	292.00	464.14	1535.18	923.79	25.943
213.00	339.42	1124.62	677.51	24.303	293.00	465.72	1540.38	926.91	25.960
214.00	341.00	1129.82	680.63	24.327	294.00	467.30	1545.58	930.03	25.978
215.00	342.58	1135.02	683.75	24.352	295.00	468.87	1550.77	933.14	25.996
216.00	344.16	1140.22	686.87	24.376	296.00	470.45	1555.97	936.26	26.013
217.00	345.74	1145.42	689.99	24.400	297.00	472.03	1561.16	939.38	26.031
218.00	347.32	1150.62	693.11	24.424	298.00	473.61	1566.36	942.49	26.048
219.00	348.90	1155.82	696.22	24.447	299.00	475.19	1571.55	945.61	26.066
220.00	350.48	1161.01	699.34	24.471	300.00	476.77	1576.75	948.73	26.083

14.00 ATMOSPHERE 1508AR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	91.71	332.34	202.24	17.621
					62.00	93.19	337.60	205.40	17.707
					63.00	94.68	342.86	208.55	17.791
					64.00	96.17	348.12	211.70	17.874
					65.00	97.66	353.38	214.85	17.955
					66.00	99.14	358.64	218.00	18.036
					67.00	100.63	363.89	221.15	18.115
					68.00	102.11	369.14	224.29	18.192
					69.00	103.59	374.40	227.44	18.269
					70.00	105.08	379.65	230.58	18.345
					71.00	106.56	384.89	233.73	18.419
					72.00	108.04	390.14	236.87	18.492
					73.00	109.53	395.39	240.01	18.565
					74.00	111.01	400.63	243.15	18.636
					75.00	112.49	405.87	246.30	18.707
					76.00	113.97	411.11	249.44	18.776
					77.00	115.45	416.35	252.58	18.844
					78.00	116.93	421.59	255.71	18.912
					79.00	118.41	426.83	258.85	18.979
					80.00	119.89	432.07	261.99	19.045
					81.00	121.37	437.30	265.13	19.110
					82.00	122.85	442.54	268.27	19.174
					83.00	124.33	447.77	271.40	19.237
					84.00	125.80	453.00	274.54	19.300
					85.00	127.28	458.24	277.67	19.362
					86.00	128.76	463.47	280.81	19.423
					87.00	130.24	468.70	283.94	19.484
					88.00	131.71	473.93	287.08	19.543
					89.00	133.19	479.15	290.21	19.602
					90.00	134.67	484.38	293.35	19.661
3.00	6.11	13.23	4.56	1.974	91.00	136.14	489.61	296.48	19.719
4.00	6.32	15.42	6.46	2.626	92.00	137.62	494.84	299.61	19.776
5.00	6.63	18.33	8.93	3.293	93.00	139.10	500.06	302.74	19.832
6.00	7.07	22.05	12.02	3.967	94.00	140.57	505.29	305.87	19.888
7.00	7.73	26.55	15.58	4.663	95.00	142.05	510.51	309.01	19.943
8.00	8.70	32.24	19.90	5.420	96.00	143.52	515.74	312.14	19.998
9.00	10.04	39.15	24.91	6.233	97.00	145.00	520.96	315.27	20.052
10.00	11.68	46.60	30.02	7.018	98.00	146.47	526.18	318.40	20.106
					99.00	147.95	531.40	321.53	20.159
					100.00	149.42	536.62	324.66	20.211
11.00	13.48	54.00	34.88	7.724	101.00	150.89	541.85	327.79	20.263
12.00	15.30	61.13	39.42	8.344	102.00	152.37	547.07	330.92	20.315
13.00	17.12	67.96	43.68	8.891	103.00	153.84	552.29	334.05	20.366
14.00	18.90	74.55	47.74	9.379	104.00	155.32	557.50	337.18	20.416
15.00	20.65	80.94	51.64	9.820	105.00	156.79	562.72	340.31	20.466
16.00	22.38	87.17	55.42	10.222	106.00	158.26	567.94	343.43	20.515
17.00	24.08	93.26	59.11	10.592	107.00	159.73	573.16	346.56	20.564
18.00	25.75	99.26	62.72	10.934	108.00	161.21	578.38	349.69	20.613
19.00	27.41	105.16	66.28	11.254	109.00	162.68	583.59	352.82	20.661
20.00	29.06	111.00	69.78	11.553	110.00	164.15	588.81	355.94	20.709
21.00	30.68	116.77	73.24	11.835	111.00	165.63	594.03	359.07	20.756
22.00	32.30	122.49	76.67	12.101	112.00	167.10	599.24	362.20	20.803
23.00	33.90	128.16	80.07	12.353	113.00	168.57	604.46	365.33	20.849
24.00	35.50	133.80	83.44	12.593	114.00	170.04	609.67	368.45	20.895
25.00	37.08	139.40	86.79	12.821	115.00	171.51	614.89	371.58	20.941
26.00	38.66	144.97	90.12	13.040	116.00	172.99	620.10	374.71	20.986
27.00	40.23	150.51	93.44	13.249	117.00	174.46	625.32	377.83	21.030
28.00	41.79	156.03	96.74	13.450	118.00	175.93	630.53	380.96	21.075
29.00	43.35	161.52	100.03	13.642	119.00	177.40	635.74	384.08	21.119
30.00	44.90	167.00	103.30	13.828	120.00	178.87	640.96	387.21	21.162
31.00	46.45	172.46	106.57	14.007	121.00	180.34	646.17	390.33	21.206
32.00	47.99	177.90	109.82	14.180	122.00	181.82	651.38	393.46	21.249
33.00	49.53	183.33	113.07	14.347	123.00	183.29	656.59	396.58	21.291
34.00	51.07	188.75	116.31	14.509	124.00	184.76	661.80	399.71	21.333
35.00	52.60	194.15	119.54	14.665	125.00	186.23	667.01	402.83	21.375
36.00	54.13	199.55	122.77	14.817	126.00	187.70	672.23	405.96	21.417
37.00	55.65	204.93	125.99	14.965	127.00	189.17	677.44	409.08	21.458
38.00	57.17	210.30	129.20	15.108	128.00	190.64	682.65	412.21	21.499
39.00	58.69	215.67	132.41	15.248	129.00	192.11	687.86	415.33	21.539
40.00	60.21	221.03	135.61	15.383	130.00	193.58	693.07	418.46	21.580
41.00	61.72	226.38	138.81	15.515	131.00	195.05	698.28	421.58	21.619
42.00	63.24	231.72	142.01	15.644	132.00	196.52	703.49	424.70	21.659
43.00	64.75	237.05	145.20	15.770	133.00	197.99	708.70	427.83	21.698
44.00	66.26	242.38	148.39	15.892	134.00	199.46	713.90	430.95	21.737
45.00	67.76	247.71	151.58	16.012	135.00	200.93	719.11	434.07	21.776
46.00	69.27	253.03	154.76	16.129	136.00	202.40	724.32	437.20	21.815
47.00	70.77	258.34	157.94	16.243	137.00	203.87	729.53	440.32	21.853
48.00	72.28	263.65	161.12	16.355	138.00	205.34	734.74	443.44	21.891
49.00	73.78	268.95	164.29	16.464	139.00	206.81	739.95	446.57	21.928
50.00	75.28	274.25	167.47	16.571	140.00	208.28	745.15	449.69	21.966
51.00	76.78	279.55	170.64	16.676					
52.00	78.27	284.84	173.81	16.779					
53.00	79.77	290.13	176.97	16.880					
54.00	81.26	295.42	180.14	16.978					
55.00	82.76	300.70	183.30	17.075					
56.00	84.25	305.98	186.46	17.170					
57.00	85.74	311.26	189.62	17.264					
58.00	87.24	316.53	192.78	17.356					
59.00	88.73	321.80	195.93	17.446					
60.00	90.22	327.07	199.09	17.534					

14.00 ATMOSPHERE 150BAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	209.75	750.36	452.81	22.003	221.00	327.16	1166.52	702.41	24.341
142.00	211.22	755.57	455.93	22.039	222.00	328.63	1171.72	705.53	24.364
143.00	212.69	760.77	459.06	22.076	223.00	330.10	1176.92	708.65	24.387
144.00	214.16	765.98	462.18	22.112	224.00	331.56	1182.12	711.77	24.411
145.00	215.63	771.19	465.30	22.148	225.00	333.03	1187.32	714.88	24.434
146.00	217.10	776.39	468.42	22.184	226.00	334.50	1192.51	718.00	24.457
147.00	218.57	781.60	471.55	22.220	227.00	335.96	1197.71	721.12	24.480
148.00	220.03	786.81	474.67	22.255	228.00	337.43	1202.91	724.24	24.503
149.00	221.50	792.01	477.79	22.290	229.00	338.90	1208.11	727.36	24.525
150.00	222.97	797.22	480.91	22.325	230.00	340.36	1213.31	730.47	24.548
151.00	224.44	802.42	484.03	22.359	231.00	341.83	1218.51	733.59	24.571
152.00	225.91	807.63	487.16	22.394	232.00	343.30	1223.70	736.71	24.593
153.00	227.38	812.83	490.28	22.428	233.00	344.76	1228.90	739.83	24.615
154.00	228.85	818.04	493.40	22.462	234.00	346.23	1234.10	742.95	24.638
155.00	230.32	823.24	496.52	22.495	235.00	347.69	1239.30	746.06	24.660
156.00	231.79	828.45	499.64	22.529	236.00	349.16	1244.50	749.18	24.682
157.00	233.25	833.65	502.76	22.562	237.00	350.63	1249.69	752.30	24.704
158.00	234.72	838.86	505.88	22.595	238.00	352.09	1254.89	755.42	24.726
159.00	236.19	844.06	509.00	22.628	239.00	353.56	1260.09	758.54	24.748
160.00	237.66	849.27	512.13	22.661	240.00	355.03	1265.29	761.65	24.769
161.00	239.13	854.47	515.25	22.693	241.00	356.49	1270.48	764.77	24.791
162.00	240.60	859.67	518.37	22.725	242.00	357.96	1275.68	767.89	24.812
163.00	242.06	864.88	521.49	22.757	243.00	359.42	1280.88	771.01	24.834
164.00	243.53	870.08	524.61	22.789	244.00	360.89	1286.08	774.12	24.855
165.00	245.00	875.29	527.73	22.821	245.00	362.36	1291.27	777.24	24.876
166.00	246.47	880.49	530.85	22.852	246.00	363.82	1296.47	780.36	24.898
167.00	247.94	885.69	533.97	22.883	247.00	365.29	1301.67	783.48	24.919
168.00	249.41	890.89	537.09	22.915	248.00	366.75	1306.87	786.59	24.940
169.00	250.87	896.10	540.21	22.945	249.00	368.22	1312.06	789.71	24.961
170.00	252.34	901.30	543.33	22.976	250.00	369.69	1317.26	792.83	24.981
171.00	253.81	906.50	546.45	23.007	251.00	371.15	1322.46	795.95	25.002
172.00	255.28	911.71	549.57	23.037	252.00	372.62	1327.66	799.06	25.023
173.00	256.74	916.91	552.69	23.067	253.00	374.08	1332.85	802.18	25.043
174.00	258.21	922.11	555.81	23.097	254.00	375.55	1338.05	805.30	25.064
175.00	259.68	927.31	558.93	23.127	255.00	377.02	1343.25	808.42	25.084
176.00	261.15	932.52	562.05	23.157	256.00	378.48	1348.44	811.53	25.105
177.00	262.62	937.72	565.17	23.186	257.00	379.95	1353.64	814.65	25.125
178.00	264.08	942.92	568.29	23.215	258.00	381.41	1358.84	817.77	25.145
179.00	265.55	948.12	571.41	23.244	259.00	382.88	1364.04	820.89	25.165
180.00	267.02	953.32	574.53	23.273	260.00	384.35	1369.23	824.00	25.185
181.00	268.49	958.52	577.65	23.302	261.00	385.81	1374.43	827.12	25.205
182.00	269.95	963.73	580.77	23.331	262.00	387.28	1379.63	830.24	25.225
183.00	271.42	968.93	583.89	23.359	263.00	388.74	1384.82	833.36	25.245
184.00	272.89	974.13	587.01	23.388	264.00	390.21	1390.02	836.47	25.265
185.00	274.36	979.33	590.13	23.416	265.00	391.68	1395.22	839.59	25.284
186.00	275.82	984.53	593.25	23.444	266.00	393.14	1400.41	842.71	25.304
187.00	277.29	989.73	596.37	23.472	267.00	394.61	1405.61	845.83	25.323
188.00	278.76	994.93	599.49	23.500	268.00	396.07	1410.81	848.94	25.343
189.00	280.23	1000.13	602.61	23.527	269.00	397.54	1416.00	852.06	25.362
190.00	281.69	1005.33	605.73	23.555	270.00	399.00	1421.20	855.18	25.381
191.00	283.16	1010.54	608.85	23.582	271.00	400.47	1426.40	858.30	25.401
192.00	284.63	1015.74	611.97	23.609	272.00	401.94	1431.59	861.41	25.420
193.00	286.09	1020.94	615.09	23.636	273.00	403.40	1436.79	864.53	25.439
194.00	287.56	1026.14	618.21	23.663	274.00	404.87	1441.99	867.65	25.458
195.00	289.03	1031.34	621.33	23.690	275.00	406.33	1447.18	870.76	25.477
196.00	290.50	1036.54	624.44	23.716	276.00	407.80	1452.38	873.88	25.496
197.00	291.96	1041.74	627.56	23.743	277.00	409.26	1457.58	877.00	25.514
198.00	293.43	1046.94	630.68	23.769	278.00	410.73	1462.77	880.12	25.533
199.00	294.90	1052.14	633.80	23.795	279.00	412.20	1467.97	883.23	25.552
200.00	296.36	1057.34	636.92	23.821	280.00	413.66	1473.16	886.35	25.570
201.00	297.83	1062.54	640.04	23.847	281.00	415.13	1478.36	889.47	25.589
202.00	299.30	1067.74	643.16	23.873	282.00	416.59	1483.56	892.58	25.607
203.00	300.76	1072.94	646.28	23.899	283.00	418.06	1488.75	895.70	25.626
204.00	302.23	1078.14	649.40	23.924	284.00	419.52	1493.95	898.82	25.644
205.00	303.70	1083.34	652.51	23.950	285.00	420.99	1499.15	901.93	25.662
206.00	305.16	1088.54	655.63	23.975	286.00	422.46	1504.34	905.05	25.681
207.00	306.63	1093.74	658.75	24.000	287.00	423.92	1509.54	908.17	25.699
208.00	308.10	1098.94	661.87	24.025	288.00	425.39	1514.73	911.29	25.717
209.00	309.57	1104.13	664.99	24.050	289.00	426.85	1519.93	914.40	25.735
210.00	311.03	1109.33	668.11	24.075	290.00	428.32	1525.13	917.52	25.753
211.00	312.50	1114.53	671.23	24.100	291.00	429.78	1530.32	920.64	25.771
212.00	313.97	1119.73	674.35	24.124	292.00	431.25	1535.52	923.75	25.788
213.00	315.43	1124.93	677.46	24.149	293.00	432.71	1540.71	926.87	25.806
214.00	316.90	1130.13	680.58	24.173	294.00	434.18	1545.91	929.99	25.824
215.00	318.37	1135.33	683.70	24.197	295.00	435.65	1551.11	933.10	25.842
216.00	319.83	1140.53	686.82	24.222	296.00	437.11	1556.30	936.22	25.859
217.00	321.30	1145.73	689.94	24.246	297.00	438.58	1561.50	939.34	25.877
218.00	322.77	1150.93	693.06	24.269	298.00	440.04	1566.69	942.46	25.894
219.00	324.23	1156.13	696.17	24.293	299.00	441.51	1571.89	945.57	25.912
220.00	325.70	1161.32	699.29	24.317	300.00	442.97	1577.09	948.69	25.929

15.00 ATMOSPHERE ISO8AR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	85.76	332.43	202.08	17.475
					62.00	87.15	337.70	205.24	17.561
					63.00	88.54	342.96	208.39	17.645
					64.00	89.93	348.23	211.54	17.728
					65.00	91.32	353.49	214.69	17.810
					66.00	92.71	358.75	217.84	17.890
					67.00	94.09	364.01	220.99	17.969
					68.00	95.48	369.26	224.14	18.047
					69.00	96.87	374.52	227.29	18.124
					70.00	98.25	379.77	230.44	18.199
					71.00	99.64	385.02	233.58	18.274
					72.00	101.02	390.27	236.73	18.347
					73.00	102.41	395.52	239.87	18.420
					74.00	103.79	400.77	243.02	18.491
					75.00	105.17	406.02	246.16	18.562
					76.00	106.56	411.26	249.30	18.631
					77.00	107.94	416.50	252.44	18.700
					78.00	109.32	421.74	255.58	18.767
					79.00	110.70	426.99	258.72	18.834
					80.00	112.09	432.22	261.86	18.900
					81.00	113.47	437.46	265.00	18.965
					82.00	114.85	442.70	268.14	19.029
					83.00	116.23	447.94	271.28	19.093
					84.00	117.61	453.17	274.42	19.155
					85.00	118.99	458.41	277.55	19.217
					86.00	120.37	463.64	280.69	19.279
					87.00	121.75	468.87	283.82	19.339
					88.00	123.13	474.10	286.96	19.399
					89.00	124.51	479.34	290.10	19.458
					90.00	125.89	484.57	293.23	19.516
3.00	6.07	13.79	4.56	1.957	91.00	127.26	489.79	296.36	19.574
4.00	6.27	15.96	6.43	2.601	92.00	128.64	495.02	299.50	19.631
5.00	6.56	18.82	8.85	3.257	93.00	130.02	500.25	302.63	19.688
6.00	6.97	22.45	11.85	3.914	94.00	131.40	505.48	305.76	19.744
7.00	7.57	26.79	15.28	4.586	95.00	132.78	510.70	308.90	19.799
8.00	8.43	32.24	19.42	5.311	96.00	134.15	515.93	312.03	19.854
9.00	9.60	38.85	24.26	6.089	97.00	135.53	521.16	315.16	19.908
10.00	11.06	46.08	29.27	6.851	98.00	136.91	526.38	318.29	19.961
					99.00	138.28	531.60	321.42	20.014
					100.00	139.66	536.83	324.55	20.067
11.00	12.67	53.39	34.12	7.547	101.00	141.04	542.05	327.69	20.119
12.00	14.35	60.50	38.69	8.166	102.00	142.41	547.27	330.82	20.170
13.00	16.02	67.36	43.00	8.715	103.00	143.79	552.49	333.95	20.221
14.00	17.68	73.98	47.11	9.206	104.00	145.17	557.71	337.08	20.272
15.00	19.32	80.41	51.05	9.650	105.00	146.54	562.94	340.21	20.322
16.00	20.93	86.67	54.86	10.054	106.00	147.92	568.16	343.33	20.371
17.00	22.52	92.81	58.58	10.426	107.00	149.29	573.37	346.46	20.420
18.00	24.09	98.84	62.22	10.771	108.00	150.67	578.59	349.59	20.469
19.00	25.64	104.78	65.80	11.092	109.00	152.04	583.81	352.72	20.517
20.00	27.18	110.64	69.33	11.393	110.00	153.42	589.03	355.85	20.565
21.00	28.70	116.44	72.81	11.676	111.00	154.79	594.25	358.98	20.612
22.00	30.22	122.18	76.26	11.943	112.00	156.17	599.47	362.11	20.659
23.00	31.72	127.88	79.67	12.196	113.00	157.54	604.68	365.23	20.705
24.00	33.21	133.54	83.06	12.437	114.00	158.92	609.90	368.36	20.751
25.00	34.69	139.16	86.42	12.666	115.00	160.29	615.12	371.49	20.796
26.00	36.17	144.74	89.77	12.886	116.00	161.66	620.33	374.61	20.842
27.00	37.64	150.30	93.10	13.095	117.00	163.04	625.55	377.74	20.886
28.00	39.10	155.84	96.41	13.297	118.00	164.41	630.76	380.87	20.931
29.00	40.56	161.35	99.71	13.490	119.00	165.79	635.98	383.99	20.975
30.00	42.01	166.85	102.99	13.676	120.00	167.16	641.19	387.12	21.018
31.00	43.46	172.32	106.26	13.856	121.00	168.53	646.40	390.25	21.062
32.00	44.90	177.78	109.53	14.029	122.00	169.91	651.62	393.37	21.105
33.00	46.34	183.22	112.78	14.197	123.00	171.28	656.83	396.50	21.147
34.00	47.78	188.65	116.03	14.359	124.00	172.65	662.04	399.62	21.189
35.00	49.21	194.06	119.27	14.516	125.00	174.03	667.26	402.75	21.231
36.00	50.64	199.47	122.50	14.668	126.00	175.40	672.47	405.87	21.273
37.00	52.06	204.86	125.73	14.816	127.00	176.77	677.68	409.00	21.314
38.00	53.49	210.25	128.95	14.959	128.00	178.15	682.89	412.12	21.355
39.00	54.91	215.62	132.16	15.099	129.00	179.52	688.10	415.25	21.395
40.00	56.33	220.99	135.37	15.235	130.00	180.89	693.31	418.37	21.436
41.00	57.74	226.34	138.58	15.367	131.00	182.26	698.52	421.50	21.476
42.00	59.16	231.70	141.78	15.496	132.00	183.64	703.74	424.62	21.515
43.00	60.57	237.04	144.98	15.622	133.00	185.01	708.95	427.75	21.554
44.00	61.98	242.38	148.17	15.744	134.00	186.38	714.16	430.87	21.594
45.00	63.39	247.71	151.36	15.864	135.00	187.75	719.37	433.99	21.632
46.00	64.80	253.03	154.55	15.981	136.00	189.13	724.58	437.12	21.671
47.00	66.20	258.35	157.73	16.096	137.00	190.50	729.78	440.24	21.709
48.00	67.61	263.67	160.92	16.208	138.00	191.87	734.99	443.37	21.747
49.00	69.01	268.98	164.09	16.317	139.00	193.24	740.20	446.49	21.784
50.00	70.41	274.29	167.27	16.424	140.00	194.61	745.41	449.61	21.822
51.00	71.81	279.59	170.44	16.529					
52.00	73.21	284.89	173.62	16.632					
53.00	74.61	290.18	176.79	16.733					
54.00	76.01	295.47	179.95	16.832					
55.00	77.40	300.76	183.12	16.929					
56.00	78.80	306.05	186.28	17.024					
57.00	80.19	311.33	189.45	17.118					
58.00	81.58	316.61	192.61	17.210					
59.00	82.98	321.88	195.77	17.300					
60.00	84.37	327.16	198.92	17.388					

15.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	195.99	750.62	452.74	21.859	221.00	305.59	1166.83	702.36	24.197
142.00	197.36	755.83	455.86	21.896	222.00	306.96	1172.03	705.48	24.220
143.00	198.73	761.04	458.98	21.932	223.00	308.33	1177.23	708.60	24.244
144.00	200.10	766.24	462.10	21.968	224.00	309.70	1182.43	711.72	24.267
145.00	201.47	771.45	465.23	22.004	225.00	311.07	1187.63	714.83	24.290
146.00	202.85	776.66	468.35	22.040	226.00	312.44	1192.83	717.95	24.313
147.00	204.22	781.87	471.47	22.076	227.00	313.80	1198.03	721.07	24.336
148.00	205.59	787.07	474.60	22.111	228.00	315.17	1203.23	724.19	24.359
149.00	206.96	792.28	477.72	22.146	229.00	316.54	1208.42	727.31	24.382
150.00	208.33	797.49	480.84	22.181	230.00	317.91	1213.62	730.43	24.405
151.00	209.70	802.69	483.96	22.216	231.00	319.28	1218.82	733.54	24.427
152.00	211.07	807.90	487.08	22.250	232.00	320.65	1224.02	736.66	24.450
153.00	212.44	813.10	490.21	22.284	233.00	322.02	1229.22	739.78	24.472
154.00	213.82	818.31	493.33	22.318	234.00	323.38	1234.42	742.90	24.494
155.00	215.19	823.52	496.45	22.352	235.00	324.75	1239.61	746.02	24.516
156.00	216.56	828.72	499.57	22.385	236.00	326.12	1244.81	749.14	24.538
157.00	217.93	833.93	502.69	22.418	237.00	327.49	1250.01	752.25	24.560
158.00	219.30	839.13	505.82	22.451	238.00	328.86	1255.21	755.37	24.582
159.00	220.67	844.34	508.94	22.484	239.00	330.23	1260.41	758.49	24.604
160.00	222.04	849.54	512.06	22.517	240.00	331.60	1265.61	761.61	24.626
161.00	223.41	854.75	515.18	22.549	241.00	332.96	1270.80	764.73	24.647
162.00	224.78	859.95	518.30	22.582	242.00	334.33	1276.00	767.84	24.669
163.00	226.15	865.16	521.42	22.614	243.00	335.70	1281.20	770.96	24.690
164.00	227.52	870.36	524.54	22.645	244.00	337.07	1286.40	774.08	24.712
165.00	228.89	875.56	527.66	22.677	245.00	338.44	1291.60	777.20	24.733
166.00	230.26	880.77	530.79	22.709	246.00	339.81	1296.79	780.31	24.754
167.00	231.64	885.97	533.91	22.740	247.00	341.18	1301.99	783.43	24.775
168.00	233.01	891.18	537.03	22.771	248.00	342.54	1307.19	786.55	24.796
169.00	234.38	896.38	540.15	22.802	249.00	343.91	1312.39	789.67	24.817
170.00	235.75	901.58	543.27	22.832	250.00	345.28	1317.58	792.79	24.838
171.00	237.12	906.79	546.39	22.863	251.00	346.65	1322.78	795.90	24.859
172.00	238.49	911.99	549.51	22.893	252.00	348.02	1327.98	799.02	24.879
173.00	239.86	917.19	552.63	22.923	253.00	349.39	1333.18	802.14	24.900
174.00	241.23	922.40	555.75	22.953	254.00	350.75	1338.37	805.26	24.920
175.00	242.60	927.60	558.87	22.983	255.00	352.12	1343.57	808.37	24.941
176.00	243.97	932.80	561.99	23.013	256.00	353.49	1348.77	811.49	24.961
177.00	245.34	938.00	565.11	23.042	257.00	354.86	1353.97	814.61	24.981
178.00	246.71	943.21	568.23	23.072	258.00	356.23	1359.16	817.73	25.002
179.00	248.08	948.41	571.35	23.101	259.00	357.60	1364.36	820.84	25.022
180.00	249.45	953.61	574.47	23.130	260.00	358.96	1369.56	823.96	25.042
181.00	250.82	958.81	577.59	23.159	261.00	360.33	1374.76	827.08	25.062
182.00	252.19	964.02	580.71	23.187	262.00	361.70	1379.95	830.20	25.082
183.00	253.56	969.22	583.83	23.216	263.00	363.07	1385.15	833.31	25.101
184.00	254.93	974.42	586.95	23.244	264.00	364.44	1390.35	836.43	25.121
185.00	256.30	979.62	590.07	23.272	265.00	365.81	1395.54	839.55	25.141
186.00	257.67	984.82	593.19	23.300	266.00	367.17	1400.74	842.67	25.160
187.00	259.04	990.03	596.31	23.328	267.00	368.54	1405.94	845.78	25.180
188.00	260.41	995.23	599.43	23.356	268.00	369.91	1411.13	848.90	25.199
189.00	261.78	1000.43	602.55	23.384	269.00	371.28	1416.33	852.02	25.219
190.00	263.15	1005.63	605.67	23.411	270.00	372.65	1421.53	855.14	25.238
191.00	264.51	1010.83	608.79	23.438	271.00	374.01	1426.73	858.25	25.257
192.00	265.88	1016.03	611.91	23.466	272.00	375.38	1431.92	861.37	25.276
193.00	267.25	1021.23	615.03	23.493	273.00	376.75	1437.12	864.49	25.295
194.00	268.62	1026.43	618.15	23.519	274.00	378.12	1442.32	867.61	25.314
195.00	269.99	1031.64	621.27	23.546	275.00	379.49	1447.51	870.72	25.333
196.00	271.36	1036.84	624.39	23.573	276.00	380.86	1452.71	873.84	25.352
197.00	272.73	1042.04	627.51	23.599	277.00	382.22	1457.91	876.96	25.371
198.00	274.10	1047.24	630.63	23.626	278.00	383.59	1463.10	880.08	25.390
199.00	275.47	1052.44	633.75	23.652	279.00	384.96	1468.30	883.19	25.408
200.00	276.84	1057.64	636.87	23.678	280.00	386.33	1473.50	886.31	25.427
201.00	278.21	1062.84	639.99	23.704	281.00	387.70	1478.69	889.43	25.445
202.00	279.58	1068.04	643.10	23.730	282.00	389.06	1483.89	892.54	25.464
203.00	280.95	1073.24	646.22	23.755	283.00	390.43	1489.09	895.66	25.482
204.00	282.32	1078.44	649.34	23.781	284.00	391.80	1494.28	898.78	25.501
205.00	283.69	1083.64	652.46	23.806	285.00	393.17	1499.48	901.90	25.519
206.00	285.06	1088.84	655.58	23.832	286.00	394.54	1504.67	905.01	25.537
207.00	286.42	1094.04	658.70	23.857	287.00	395.90	1509.87	908.13	25.555
208.00	287.79	1099.24	661.82	23.882	288.00	397.27	1515.07	911.25	25.573
209.00	289.15	1104.44	664.94	23.907	289.00	398.64	1520.26	914.36	25.591
210.00	290.53	1109.64	668.06	23.932	290.00	400.01	1525.46	917.48	25.609
211.00	291.90	1114.84	671.17	23.956	291.00	401.38	1530.66	920.60	25.627
212.00	293.27	1120.04	674.29	23.981	292.00	402.74	1535.85	923.72	25.645
213.00	294.64	1125.24	677.41	24.005	293.00	404.11	1541.05	926.83	25.663
214.00	296.01	1130.44	680.53	24.030	294.00	405.48	1546.25	929.95	25.680
215.00	297.38	1135.64	683.65	24.054	295.00	406.85	1551.44	933.07	25.698
216.00	298.75	1140.84	686.77	24.078	296.00	408.22	1556.64	936.18	25.716
217.00	300.12	1146.04	689.89	24.102	297.00	409.58	1561.83	939.30	25.733
218.00	301.48	1151.24	693.01	24.126	298.00	410.95	1567.03	942.42	25.751
219.00	302.85	1156.44	696.12	24.150	299.00	412.32	1572.23	945.53	25.768
220.00	304.22	1161.63	699.24	24.173	300.00	413.69	1577.42	948.65	25.785

16.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	80.56	332.52	201.92	17.339
					62.00	81.86	337.80	205.07	17.425
					63.00	83.17	343.07	208.23	17.509
					64.00	84.47	348.34	211.39	17.592
					65.00	85.77	353.60	214.54	17.674
					66.00	87.08	358.87	217.69	17.754
					67.00	88.38	364.13	220.84	17.833
					68.00	89.68	369.39	223.99	17.911
					69.00	90.98	374.65	227.14	17.988
					70.00	92.28	379.90	230.29	18.063
					71.00	93.58	385.16	233.44	18.138
					72.00	94.88	390.41	236.59	18.211
					73.00	96.18	395.66	239.73	18.284
					74.00	97.48	400.91	242.88	18.355
					75.00	98.77	406.16	246.02	18.426
					76.00	100.07	411.41	249.17	18.495
					77.00	101.37	416.65	252.31	18.564
					78.00	102.67	421.90	255.45	18.632
					79.00	103.96	427.14	258.59	18.698
					80.00	105.26	432.38	261.74	18.764
					81.00	106.55	437.63	264.88	18.829
					82.00	107.85	442.87	268.02	18.894
					83.00	109.14	448.10	271.16	18.957
					84.00	110.44	453.34	274.29	19.020
					85.00	111.73	458.58	277.43	19.082
					86.00	113.03	463.82	280.57	19.143
					87.00	114.32	469.05	283.71	19.204
					88.00	115.62	474.28	286.84	19.263
					89.00	116.91	479.52	289.98	19.323
					90.00	118.20	484.75	293.12	19.381
3.00	6.03	14.36	4.58	1.941	91.00	119.50	489.98	296.25	19.439
4.00	6.22	16.50	6.41	2.578	92.00	120.79	495.21	299.39	19.496
5.00	6.50	19.31	8.78	3.223	93.00	122.08	500.44	302.52	19.553
6.00	6.88	22.86	11.70	3.866	94.00	123.37	505.67	305.65	19.609
7.00	7.43	27.07	15.02	4.517	95.00	124.66	510.90	308.79	19.664
8.00	8.20	32.31	19.01	5.215	96.00	125.96	516.13	311.92	19.719
9.00	9.24	38.66	23.68	5.963	97.00	127.25	521.35	315.05	19.773
10.00	10.54	45.68	28.60	6.701	98.00	128.54	526.58	318.19	19.826
					99.00	129.83	531.81	321.32	19.879
					100.00	131.12	537.03	324.45	19.932
11.00	12.00	52.87	33.42	7.387	101.00	132.41	542.26	327.58	19.984
12.00	13.53	59.95	38.01	8.003	102.00	133.70	547.48	330.71	20.035
13.00	15.09	66.81	42.35	8.552	103.00	134.99	552.70	333.84	20.086
14.00	16.63	73.46	46.49	9.045	104.00	136.28	557.93	336.98	20.137
15.00	18.16	79.92	50.47	9.491	105.00	137.57	563.15	340.11	20.187
16.00	19.68	86.22	54.32	9.897	106.00	138.87	568.37	343.24	20.236
17.00	21.17	92.39	58.07	10.271	107.00	140.15	573.59	346.37	20.285
18.00	22.64	98.44	61.74	10.618	108.00	141.44	578.81	349.50	20.334
19.00	24.10	104.41	65.34	10.940	109.00	142.73	584.03	352.62	20.382
20.00	25.55	110.30	68.88	11.242	110.00	144.02	589.25	355.75	20.430
21.00	26.98	116.13	72.39	11.527	111.00	145.31	594.47	358.88	20.477
22.00	28.40	121.89	75.85	11.795	112.00	146.60	599.69	362.01	20.524
23.00	29.81	127.61	79.28	12.049	113.00	147.89	604.91	365.14	20.570
24.00	31.21	133.29	82.68	12.291	114.00	149.18	610.13	368.27	20.616
25.00	32.61	138.93	86.06	12.521	115.00	150.47	615.34	371.40	20.662
26.00	34.00	144.54	89.42	12.741	116.00	151.76	620.56	374.52	20.707
27.00	35.38	150.11	92.76	12.951	117.00	153.05	625.78	377.65	20.752
28.00	36.75	155.67	96.08	13.153	118.00	154.34	630.99	380.78	20.796
29.00	38.12	161.19	99.39	13.347	119.00	155.62	636.21	383.91	20.840
30.00	39.49	166.70	102.68	13.534	120.00	156.91	641.42	387.03	20.884
31.00	40.85	172.19	105.97	13.714	121.00	158.20	646.64	390.16	20.927
32.00	42.20	177.66	109.24	13.888	122.00	159.49	651.85	393.29	20.970
33.00	43.55	183.11	112.50	14.055	123.00	160.78	657.07	396.41	21.012
34.00	44.90	188.55	115.76	14.218	124.00	162.06	662.28	399.54	21.055
35.00	46.25	193.98	119.00	14.375	125.00	163.35	667.50	402.66	21.096
36.00	47.59	199.40	122.24	14.528	126.00	164.64	672.71	405.79	21.138
37.00	48.93	204.80	125.47	14.676	127.00	165.93	677.92	408.92	21.179
38.00	50.27	210.19	128.70	14.820	128.00	167.21	683.14	412.04	21.220
39.00	51.60	215.58	131.92	14.959	129.00	168.50	688.35	415.17	21.261
40.00	52.93	220.95	135.14	15.096	130.00	169.79	693.56	418.29	21.301
41.00	54.26	226.32	138.35	15.228	131.00	171.08	698.77	421.42	21.341
42.00	55.59	231.68	141.55	15.357	132.00	172.36	703.99	424.54	21.381
43.00	56.92	237.03	144.76	15.483	133.00	173.65	709.20	427.67	21.420
44.00	58.24	242.38	147.95	15.606	134.00	174.94	714.41	430.79	21.459
45.00	59.56	247.71	151.15	15.726	135.00	176.22	719.62	433.92	21.498
46.00	60.88	253.05	154.34	15.843	136.00	177.51	724.83	437.04	21.536
47.00	62.20	258.37	157.53	15.958	137.00	178.80	730.04	440.16	21.574
48.00	63.52	263.70	160.71	16.070	138.00	180.08	735.25	443.29	21.612
49.00	64.84	269.01	163.90	16.179	139.00	181.37	740.46	446.41	21.650
50.00	66.15	274.33	167.08	16.287	140.00	182.66	745.67	449.54	21.687
51.00	67.47	279.64	170.25	16.392	131.00	171.08	698.77	421.42	21.341
52.00	68.78	284.94	173.43	16.495	132.00	172.36	703.99	424.54	21.381
53.00	70.09	290.24	176.60	16.596	133.00	173.65	709.20	427.67	21.420
54.00	71.41	295.54	179.77	16.695	134.00	174.94	714.41	430.79	21.459
55.00	72.72	300.83	182.94	16.792	135.00	176.22	719.62	433.92	21.498
56.00	74.02	306.12	186.11	16.887	136.00	177.51	724.83	437.04	21.536
57.00	75.33	311.41	189.27	16.981	137.00	178.80	730.04	440.16	21.574
58.00	76.64	316.69	192.44	17.073	138.00	180.08	735.25	443.29	21.612
59.00	77.95	321.97	195.60	17.163	139.00	181.37	740.46	446.41	21.650
60.00	79.25	327.25	198.76	17.252	140.00	182.66	745.67	449.54	21.687

16.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	183.94	750.88	452.66	21.724	221.00	286.71	1167.14	702.31	24.063
142.00	185.23	756.09	455.78	21.761	222.00	288.00	1172.34	705.43	24.086
143.00	186.52	761.30	458.91	21.798	223.00	289.28	1177.54	708.55	24.110
144.00	187.80	766.51	462.03	21.834	224.00	290.56	1182.74	711.67	24.133
145.00	189.09	771.71	465.15	21.870	225.00	291.85	1187.94	714.79	24.156
146.00	190.38	776.92	468.28	21.906	226.00	293.13	1193.14	717.90	24.179
147.00	191.66	782.13	471.40	21.941	227.00	294.41	1198.34	721.02	24.202
148.00	192.95	787.34	474.52	21.977	228.00	295.70	1203.54	724.14	24.225
149.00	194.23	792.55	477.65	22.012	229.00	296.98	1208.74	727.26	24.248
150.00	195.52	797.75	480.77	22.046	230.00	298.26	1213.94	730.38	24.270
151.00	196.80	802.96	483.89	22.081	231.00	299.55	1219.14	733.50	24.293
152.00	198.09	808.17	487.01	22.115	232.00	300.83	1224.34	736.62	24.315
153.00	199.38	813.37	490.14	22.150	233.00	302.11	1229.53	739.73	24.338
154.00	200.66	818.58	493.26	22.183	234.00	303.40	1234.73	742.85	24.360
155.00	201.95	823.79	496.38	22.217	235.00	304.68	1239.93	745.97	24.382
156.00	203.23	828.99	499.50	22.251	236.00	305.96	1245.13	749.09	24.404
157.00	204.52	834.20	502.63	22.284	237.00	307.25	1250.33	752.21	24.426
158.00	205.80	839.41	505.75	22.317	238.00	308.53	1255.53	755.33	24.448
159.00	207.09	844.61	508.87	22.350	239.00	309.81	1260.73	758.44	24.470
160.00	208.37	849.82	511.99	22.382	240.00	311.10	1265.92	761.56	24.492
161.00	209.66	855.02	515.11	22.415	241.00	312.38	1271.12	764.68	24.513
162.00	210.95	860.23	518.23	22.447	242.00	313.66	1276.32	767.80	24.535
163.00	212.23	865.43	521.36	22.479	243.00	314.95	1281.52	770.92	24.556
164.00	213.52	870.64	524.48	22.511	244.00	316.23	1286.72	774.03	24.577
165.00	214.80	875.84	527.60	22.543	245.00	317.51	1291.92	777.15	24.599
166.00	216.09	881.05	530.72	22.574	246.00	318.79	1297.11	780.27	24.620
167.00	217.37	886.25	533.84	22.605	247.00	320.08	1302.31	783.39	24.641
168.00	218.66	891.46	536.96	22.636	248.00	321.36	1307.51	786.51	24.662
169.00	219.94	896.66	540.08	22.667	249.00	322.64	1312.71	789.62	24.683
170.00	221.23	901.87	543.21	22.698	250.00	323.93	1317.91	792.74	24.704
171.00	222.51	907.07	546.33	22.729	251.00	325.21	1323.10	795.86	24.724
172.00	223.80	912.27	549.45	22.759	252.00	326.49	1328.30	798.98	24.745
173.00	225.08	917.48	552.57	22.789	253.00	327.78	1333.50	802.10	24.766
174.00	226.37	922.68	555.69	22.819	254.00	329.06	1338.70	805.21	24.786
175.00	227.65	927.89	558.81	22.849	255.00	330.34	1343.90	808.33	24.807
176.00	228.93	933.09	561.93	22.878	256.00	331.62	1349.09	811.45	24.827
177.00	230.22	938.29	565.05	22.908	257.00	332.91	1354.29	814.57	24.847
178.00	231.50	943.50	568.17	22.937	258.00	334.19	1359.49	817.68	24.867
179.00	232.79	948.70	571.29	22.966	259.00	335.47	1364.69	820.80	24.888
180.00	234.07	953.90	574.41	22.995	260.00	336.76	1369.88	823.92	24.908
181.00	235.36	959.10	577.53	23.024	261.00	338.04	1375.08	827.04	24.928
182.00	236.64	964.31	580.65	23.053	262.00	339.32	1380.28	830.16	24.947
183.00	237.93	969.51	583.77	23.081	263.00	340.60	1385.48	833.27	24.967
184.00	239.21	974.71	586.89	23.110	264.00	341.89	1390.67	836.39	24.987
185.00	240.49	979.92	590.01	23.138	265.00	343.17	1395.87	839.51	25.007
186.00	241.78	985.12	593.13	23.166	266.00	344.45	1401.07	842.63	25.026
187.00	243.06	990.32	596.26	23.194	267.00	345.74	1406.27	845.74	25.046
188.00	244.35	995.52	599.38	23.222	268.00	347.02	1411.46	848.86	25.065
189.00	245.63	1000.72	602.50	23.249	269.00	348.30	1416.66	851.98	25.084
190.00	246.92	1005.93	605.62	23.277	270.00	349.58	1421.86	855.10	25.104
191.00	248.20	1011.13	608.73	23.304	271.00	350.87	1427.05	858.21	25.123
192.00	249.48	1016.33	611.85	23.331	272.00	352.15	1432.25	861.33	25.142
193.00	250.77	1021.53	614.97	23.358	273.00	353.43	1437.45	864.45	25.161
194.00	252.05	1026.73	618.09	23.385	274.00	354.71	1442.65	867.57	25.180
195.00	253.34	1031.93	621.21	23.412	275.00	356.00	1447.84	870.68	25.199
196.00	254.62	1037.14	624.33	23.438	276.00	357.28	1453.04	873.80	25.218
197.00	255.90	1042.34	627.45	23.465	277.00	358.56	1458.24	876.92	25.237
198.00	257.19	1047.54	630.57	23.491	278.00	359.85	1463.43	880.04	25.255
199.00	258.47	1052.74	633.69	23.517	279.00	361.13	1468.63	883.15	25.274
200.00	259.76	1057.94	636.81	23.544	280.00	362.41	1473.83	886.27	25.293
201.00	261.04	1063.14	639.93	23.569	281.00	363.69	1479.02	889.39	25.311
202.00	262.32	1068.34	643.05	23.595	282.00	364.98	1484.22	892.51	25.330
203.00	263.61	1073.54	646.17	23.621	283.00	366.26	1489.42	895.62	25.348
204.00	264.89	1078.74	649.29	23.646	284.00	367.54	1494.61	898.74	25.366
205.00	266.18	1083.94	652.41	23.672	285.00	368.82	1499.81	901.86	25.385
206.00	267.46	1089.14	655.53	23.697	286.00	370.11	1505.01	904.97	25.403
207.00	268.74	1094.35	658.65	23.722	287.00	371.39	1510.20	908.09	25.421
208.00	270.03	1099.55	661.77	23.747	288.00	372.67	1515.40	911.21	25.439
209.00	271.31	1104.75	664.89	23.772	289.00	373.95	1520.60	914.33	25.457
210.00	272.59	1109.95	668.00	23.797	290.00	375.24	1525.79	917.44	25.475
211.00	273.88	1115.15	671.12	23.822	291.00	376.52	1530.99	920.56	25.493
212.00	275.16	1120.35	674.24	23.847	292.00	377.80	1536.19	923.68	25.511
213.00	276.45	1125.55	677.36	23.871	293.00	379.08	1541.38	926.80	25.529
214.00	277.73	1130.75	680.48	23.895	294.00	380.37	1546.58	929.91	25.546
215.00	279.01	1135.95	683.60	23.920	295.00	381.65	1551.78	933.03	25.564
216.00	280.30	1141.15	686.72	23.944	296.00	382.93	1556.97	936.15	25.582
217.00	281.58	1146.35	689.84	23.968	297.00	384.21	1562.17	939.26	25.599
218.00	282.86	1151.55	692.96	23.992	298.00	385.50	1567.37	942.38	25.616
219.00	284.15	1156.75	696.07	24.015	299.00	386.78	1572.56	945.50	25.634
220.00	285.43	1161.95	699.19	24.039	300.00	388.06	1577.76	948.62	25.651

17.00 ATMOSPHERE ISO8AR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	75.97	332.62	201.76	17.211
					62.00	77.20	337.90	204.92	17.296
					63.00	78.43	343.17	208.07	17.381
					64.00	79.66	348.45	211.23	17.464
					65.00	80.88	353.71	214.39	17.546
					66.00	82.11	358.98	217.54	17.626
					67.00	83.34	364.25	220.70	17.705
					68.00	84.56	369.51	223.85	17.783
					69.00	85.79	374.77	227.00	17.860
					70.00	87.01	380.03	230.15	17.936
					71.00	88.24	385.29	233.30	18.010
					72.00	89.46	390.55	236.45	18.084
					73.00	90.68	395.80	239.60	18.156
					74.00	91.90	401.06	242.74	18.228
					75.00	93.13	406.31	245.89	18.298
					76.00	94.35	411.56	249.03	18.368
					77.00	95.57	416.81	252.18	18.436
					78.00	96.79	422.05	255.32	18.504
					79.00	98.01	427.30	258.47	18.571
					80.00	99.23	432.55	261.61	18.637
					81.00	100.45	437.79	264.75	18.702
					82.00	101.67	443.03	267.89	18.766
					83.00	102.89	448.27	271.03	18.830
					84.00	104.11	453.51	274.17	18.893
					85.00	105.33	458.75	277.31	18.955
					86.00	106.55	463.99	280.45	19.016
					87.00	107.77	469.23	283.59	19.076
					88.00	108.99	474.47	286.73	19.136
					89.00	110.21	479.70	289.86	19.195
					90.00	111.42	484.94	293.00	19.254
					91.00	112.64	490.17	296.14	19.312
					92.00	113.86	495.40	299.27	19.369
					93.00	115.07	500.63	302.41	19.426
					94.00	116.29	505.87	305.54	19.481
					95.00	117.51	511.10	308.68	19.537
					96.00	118.72	516.33	311.81	19.592
					97.00	119.94	521.55	314.95	19.646
					98.00	121.16	526.78	318.08	19.699
					99.00	122.37	532.01	321.21	19.752
					100.00	123.59	537.24	324.35	19.805
					101.00	124.80	542.46	327.48	19.857
					102.00	126.02	547.69	330.61	19.909
					103.00	127.23	552.91	333.74	19.959
					104.00	128.45	558.14	336.88	20.010
					105.00	129.66	563.36	340.01	20.060
					106.00	130.88	568.59	343.14	20.109
					107.00	132.09	573.81	346.27	20.159
					108.00	133.31	579.03	349.40	20.207
					109.00	134.52	584.25	352.53	20.255
					110.00	135.74	589.47	355.66	20.303
					111.00	136.95	594.69	358.79	20.350
					112.00	138.16	599.91	361.92	20.397
					113.00	139.38	605.13	365.05	20.443
					114.00	140.59	610.35	368.18	20.489
					115.00	141.80	615.57	371.31	20.535
					116.00	143.02	620.79	374.43	20.580
					117.00	144.23	626.01	377.56	20.625
					118.00	145.44	631.23	380.69	20.669
					119.00	146.66	636.44	383.82	20.713
					120.00	147.87	641.66	386.95	20.757
					121.00	149.08	646.88	390.07	20.800
					122.00	150.29	652.09	393.20	20.843
					123.00	151.51	657.31	396.33	20.886
					124.00	152.72	662.52	399.45	20.928
					125.00	153.93	667.74	402.58	20.970
					126.00	155.14	672.95	405.71	21.011
					127.00	156.36	678.17	408.83	21.053
					128.00	157.57	683.38	411.96	21.094
					129.00	158.78	688.60	415.09	21.134
					130.00	159.99	693.81	418.21	21.174
					131.00	161.20	699.02	421.34	21.214
					132.00	162.42	704.24	424.46	21.254
					133.00	163.63	709.45	427.59	21.293
					134.00	164.84	714.66	430.71	21.332
					135.00	166.05	719.87	433.84	21.371
					136.00	167.26	725.08	436.96	21.410
					137.00	168.47	730.30	440.09	21.448
					138.00	169.68	735.51	443.21	21.486
					139.00	170.90	740.72	446.34	21.523
					140.00	172.11	745.93	449.46	21.561
3.00	6.00	14.92	4.59	1.926					
4.00	6.18	17.04	6.39	2.555					
5.00	6.44	19.81	8.72	3.192					
6.00	6.80	23.28	11.56	3.821					
7.00	7.31	27.38	14.78	4.455					
8.00	8.01	32.43	18.64	5.128					
9.00	8.94	38.57	23.17	5.850					
10.00	10.10	45.38	27.99	6.567					
11.00	11.42	52.45	32.77	7.240					
12.00	12.84	59.47	37.36	7.852					
13.00	14.28	66.32	41.73	8.400					
14.00	15.72	72.99	45.90	8.894					
15.00	17.16	79.47	49.91	9.341					
16.00	18.58	85.79	53.79	9.750					
17.00	19.98	91.99	57.57	10.125					
18.00	21.37	98.08	61.26	10.473					
19.00	22.75	104.07	64.88	10.797					
20.00	24.11	109.99	68.45	11.101					
21.00	25.46	115.83	71.97	11.386					
22.00	26.80	121.62	75.45	11.656					
23.00	28.14	127.36	78.90	11.911					
24.00	29.46	133.06	82.32	12.153					
25.00	30.77	138.72	85.71	12.384					
26.00	32.08	144.34	89.08	12.605					
27.00	33.39	149.94	92.43	12.816					
28.00	34.68	155.50	95.76	13.018					
29.00	35.97	161.05	99.08	13.213					
30.00	37.26	166.57	102.38	13.400					
31.00	38.54	172.07	105.67	13.580					
32.00	39.82	177.55	108.95	13.754					
33.00	41.10	183.02	112.22	13.923					
34.00	42.37	188.47	115.49	14.085					
35.00	43.64	193.91	118.74	14.243					
36.00	44.90	199.33	121.98	14.396					
37.00	46.16	204.74	125.22	14.544					
38.00	47.43	210.15	128.45	14.688					
39.00	48.68	215.54	131.68	14.828					
40.00	49.94	220.92	134.90	14.965					
41.00	51.19	226.30	138.12	15.097					
42.00	52.44	231.67	141.33	15.227					
43.00	53.69	237.03	144.54	15.353					
44.00	54.94	242.38	147.74	15.476					
45.00	56.19	247.72	150.94	15.596					
46.00	57.43	253.06	154.13	15.713					
47.00	58.68	258.40	157.32	15.828					
48.00	59.92	263.73	160.51	15.940					
49.00	61.16	269.05	163.70	16.050					
50.00	62.40	274.37	166.88	16.157					
51.00	63.64	279.68	170.06	16.263					
52.00	64.88	284.99	173.24	16.366					
53.00	66.11	290.30	176.42	16.467					
54.00	67.35	295.60	179.59	16.566					
55.00	68.58	300.90	182.76	16.663					
56.00	69.82	306.19	185.93	16.759					
57.00	71.05	311.49	189.10	16.852					
58.00	72.28	316.77	192.27	16.944					
59.00	73.51	322.06	195.43	17.035					
60.00	74.74	327.34	198.59	17.123					

17.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	173.32	751.14	452.59	21.598	221.00	270.06	1167.46	702.26	23.937
142.00	174.53	756.35	455.71	21.635	222.00	271.27	1172.66	705.38	23.960
143.00	175.74	761.56	458.83	21.671	223.00	272.47	1177.86	708.50	23.983
144.00	176.95	766.77	461.96	21.707	224.00	273.68	1183.06	711.62	24.007
145.00	178.16	771.98	465.08	21.743	225.00	274.89	1188.25	714.74	24.030
146.00	179.37	777.19	468.20	21.779	226.00	276.10	1193.45	717.86	24.053
147.00	180.58	782.40	471.33	21.815	227.00	277.31	1198.65	720.98	24.076
148.00	181.79	787.60	474.45	21.850	228.00	278.51	1203.85	724.09	24.099
149.00	183.00	792.81	477.57	21.885	229.00	279.72	1209.05	727.21	24.121
150.00	184.21	798.02	480.70	21.920	230.00	280.93	1214.25	730.33	24.144
151.00	185.43	803.23	483.82	21.955	231.00	282.14	1219.45	733.45	24.167
152.00	186.64	808.44	486.94	21.989	232.00	283.35	1224.65	736.57	24.189
153.00	187.85	813.64	490.07	22.023	233.00	284.55	1229.85	739.69	24.211
154.00	189.06	818.85	493.19	22.057	234.00	285.76	1235.05	742.81	24.234
155.00	190.27	824.06	496.31	22.091	235.00	286.97	1240.25	745.92	24.256
156.00	191.48	829.27	499.44	22.124	236.00	288.18	1245.45	749.04	24.278
157.00	192.69	834.47	502.56	22.158	237.00	289.38	1250.65	752.16	24.300
158.00	193.90	839.68	505.68	22.191	238.00	290.59	1255.85	755.28	24.322
159.00	195.11	844.89	508.80	22.223	239.00	291.80	1261.04	758.40	24.344
160.00	196.32	850.09	511.92	22.256	240.00	293.01	1266.24	761.52	24.365
161.00	197.53	855.30	515.05	22.289	241.00	294.22	1271.44	764.63	24.387
162.00	198.74	860.51	518.17	22.321	242.00	295.42	1276.64	767.75	24.409
163.00	199.95	865.71	521.29	22.353	243.00	296.63	1281.84	770.87	24.430
164.00	201.16	870.92	524.41	22.385	244.00	297.84	1287.04	773.99	24.451
165.00	202.37	876.12	527.53	22.416	245.00	299.05	1292.24	777.11	24.473
166.00	203.58	881.33	530.66	22.448	246.00	300.25	1297.43	780.23	24.494
167.00	204.79	886.53	533.78	22.479	247.00	301.46	1302.63	783.34	24.515
168.00	205.99	891.74	536.90	22.510	248.00	302.67	1307.83	786.46	24.536
169.00	207.20	896.95	540.02	22.541	249.00	303.88	1313.03	789.58	24.557
170.00	208.41	902.15	543.14	22.572	250.00	305.08	1318.23	792.70	24.578
171.00	209.62	907.35	546.26	22.602	251.00	306.29	1323.43	795.82	24.598
172.00	210.83	912.56	549.39	22.633	252.00	307.50	1328.62	798.93	24.619
173.00	212.04	917.76	552.51	22.663	253.00	308.71	1333.82	802.05	24.640
174.00	213.25	922.97	555.63	22.693	254.00	309.92	1339.02	805.17	24.660
175.00	214.46	928.17	558.75	22.723	255.00	311.12	1344.22	808.29	24.681
176.00	215.67	933.38	561.87	22.752	256.00	312.33	1349.42	811.41	24.701
177.00	216.88	938.58	564.99	22.782	257.00	313.54	1354.62	814.52	24.721
178.00	218.09	943.78	568.11	22.811	258.00	314.75	1359.81	817.64	24.741
179.00	219.30	948.99	571.23	22.840	259.00	315.95	1365.01	820.76	24.761
180.00	220.51	954.19	574.35	22.869	260.00	317.16	1370.21	823.88	24.781
181.00	221.72	959.40	577.47	22.898	261.00	318.37	1375.41	827.00	24.801
182.00	222.92	964.60	580.59	22.927	262.00	319.58	1380.60	830.11	24.821
183.00	224.13	969.80	583.72	22.955	263.00	320.78	1385.80	833.23	24.841
184.00	225.34	975.01	586.84	22.984	264.00	321.99	1391.00	836.35	24.861
185.00	226.55	980.21	589.96	23.012	265.00	323.20	1396.20	839.47	24.880
186.00	227.76	985.41	593.08	23.040	266.00	324.40	1401.40	842.59	24.900
187.00	228.97	990.61	596.20	23.068	267.00	325.61	1406.59	845.70	24.920
188.00	230.18	995.82	599.32	23.095	268.00	326.82	1411.79	848.82	24.939
189.00	231.39	1001.02	602.44	23.123	269.00	328.03	1416.99	851.94	24.958
190.00	232.60	1006.22	605.56	23.150	270.00	329.23	1422.19	855.06	24.978
191.00	233.81	1011.42	608.68	23.178	271.00	330.44	1427.38	858.17	24.997
192.00	235.01	1016.63	611.80	23.205	272.00	331.65	1432.58	861.29	25.016
193.00	236.22	1021.83	614.92	23.232	273.00	332.86	1437.78	864.41	25.035
194.00	237.43	1027.03	618.04	23.259	274.00	334.06	1442.98	867.53	25.054
195.00	238.64	1032.23	621.16	23.286	275.00	335.27	1448.17	870.64	25.073
196.00	239.85	1037.44	624.28	23.312	276.00	336.48	1453.37	873.76	25.092
197.00	241.06	1042.64	627.40	23.339	277.00	337.69	1458.57	876.88	25.111
198.00	242.27	1047.84	630.52	23.365	278.00	338.89	1463.76	880.00	25.129
199.00	243.47	1053.04	633.64	23.391	279.00	340.10	1468.96	883.11	25.148
200.00	244.68	1058.24	636.76	23.417	280.00	341.31	1474.16	886.23	25.167
201.00	245.89	1063.44	639.88	23.443	281.00	342.52	1479.36	889.35	25.185
202.00	247.10	1068.64	643.00	23.469	282.00	343.72	1484.55	892.47	25.204
203.00	248.31	1073.85	646.12	23.495	283.00	344.93	1489.75	895.58	25.222
204.00	249.52	1079.05	649.24	23.520	284.00	346.14	1494.95	898.70	25.240
205.00	250.73	1084.25	652.36	23.546	285.00	347.34	1500.14	901.82	25.259
206.00	251.93	1089.45	655.48	23.571	286.00	348.55	1505.34	904.94	25.277
207.00	253.14	1094.65	658.59	23.596	287.00	349.76	1510.54	908.05	25.295
208.00	254.35	1099.85	661.71	23.621	288.00	350.97	1515.73	911.17	25.313
209.00	255.56	1105.05	664.83	23.646	289.00	352.17	1520.93	914.29	25.331
210.00	256.77	1110.25	667.95	23.671	290.00	353.38	1526.13	917.41	25.349
211.00	257.98	1115.45	671.07	23.696	291.00	354.59	1531.32	920.52	25.367
212.00	259.18	1120.65	674.19	23.720	292.00	355.79	1536.52	923.64	25.385
213.00	260.39	1125.85	677.31	23.745	293.00	357.00	1541.72	926.76	25.403
214.00	261.60	1131.05	680.43	23.769	294.00	358.21	1546.92	929.88	25.420
215.00	262.81	1136.26	683.55	23.793	295.00	359.42	1552.11	932.99	25.438
216.00	264.02	1141.46	686.67	23.818	296.00	360.62	1557.31	936.11	25.455
217.00	265.22	1146.66	689.79	23.842	297.00	361.83	1562.51	939.23	25.473
218.00	266.43	1151.86	692.91	23.865	298.00	363.04	1567.70	942.34	25.490
219.00	267.64	1157.06	696.02	23.889	299.00	364.24	1572.90	945.46	25.508
220.00	268.85	1162.26	699.14	23.913	300.00	365.45	1578.09	948.58	25.525

18.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	71.89	332.72	201.60	17.090
					62.00	73.06	338.00	204.76	17.175
					63.00	74.22	343.28	207.92	17.260
					64.00	75.38	348.56	211.08	17.343
					65.00	76.54	353.83	214.24	17.425
					66.00	77.70	359.10	217.39	17.505
					67.00	78.86	364.37	220.55	17.584
					68.00	80.01	369.64	223.70	17.662
					69.00	81.17	374.90	226.86	17.739
					70.00	82.33	380.17	230.01	17.815
					71.00	83.49	385.43	233.16	17.890
					72.00	84.64	390.69	236.31	17.963
					73.00	85.80	395.95	239.46	18.036
					74.00	86.95	401.20	242.61	18.107
					75.00	88.11	406.46	245.76	18.178
					76.00	89.26	411.71	248.90	18.247
					77.00	90.42	416.96	252.05	18.316
					78.00	91.57	422.21	255.19	18.384
					79.00	92.73	427.46	258.34	18.451
					80.00	93.88	432.71	261.48	18.517
					81.00	95.03	437.96	264.63	18.582
					82.00	96.18	443.20	267.77	18.646
					83.00	97.34	448.44	270.91	18.710
					84.00	98.49	453.69	274.05	18.773
					85.00	99.64	458.93	277.19	18.835
					86.00	100.79	464.17	280.33	18.896
					87.00	101.94	469.41	283.47	18.956
					88.00	103.10	474.65	286.61	19.016
					89.00	104.25	479.89	289.75	19.076
					90.00	105.40	485.12	292.89	19.134
					91.00	106.55	490.36	296.03	19.192
					92.00	107.70	495.59	299.16	19.249
					93.00	108.85	500.83	302.30	19.306
					94.00	110.00	506.06	305.44	19.362
					95.00	111.15	511.29	308.57	19.417
					96.00	112.30	516.52	311.71	19.472
					97.00	113.45	521.76	314.84	19.526
					98.00	114.59	526.99	317.98	19.580
					99.00	115.74	532.21	321.11	19.633
					100.00	116.89	537.44	324.24	19.685
					101.00	118.04	542.67	327.38	19.737
					102.00	119.19	547.90	330.51	19.789
					103.00	120.34	553.13	333.64	19.840
					104.00	121.48	558.35	336.78	19.890
					105.00	122.63	563.58	339.91	19.940
					106.00	123.78	568.80	343.04	19.990
					107.00	124.93	574.03	346.17	20.039
					108.00	126.07	579.25	349.30	20.088
					109.00	127.22	584.47	352.43	20.136
					110.00	128.37	589.70	355.57	20.183
					111.00	129.52	594.92	358.70	20.231
					112.00	130.66	600.14	361.83	20.277
					113.00	131.81	605.36	364.96	20.324
					114.00	132.96	610.58	368.09	20.370
					115.00	134.10	615.80	371.21	20.415
					116.00	135.25	621.02	374.34	20.461
					117.00	136.39	626.24	377.47	20.505
					118.00	137.54	631.46	380.60	20.550
					119.00	138.69	636.68	383.73	20.594
					120.00	139.83	641.90	386.86	20.638
					121.00	140.98	647.12	389.99	20.681
					122.00	142.12	652.33	393.11	20.724
					123.00	143.27	657.55	396.24	20.766
					124.00	144.41	662.77	399.37	20.809
					125.00	145.56	667.98	402.50	20.851
					126.00	146.70	673.20	405.62	20.892
					127.00	147.85	678.41	408.75	20.933
					128.00	148.99	683.63	411.88	20.974
					129.00	150.14	688.84	415.00	21.015
					130.00	151.28	694.06	418.13	21.055
					131.00	152.43	699.27	421.26	21.095
					132.00	153.57	704.49	424.38	21.135
					133.00	154.72	709.70	427.51	21.174
					134.00	155.86	714.91	430.63	21.213
					135.00	157.01	720.13	433.76	21.252
					136.00	158.15	725.34	436.89	21.290
					137.00	159.30	730.55	440.01	21.328
					138.00	160.44	735.76	443.14	21.366
					139.00	161.59	740.98	446.26	21.404
					140.00	162.73	746.19	449.39	21.441
3.00	5.96	15.48	4.61	1.911					
4.00	6.14	17.58	6.38	2.534					
5.00	6.38	20.30	8.66	3.161					
6.00	6.73	23.71	11.45	3.779					
7.00	7.20	27.70	14.57	4.397					
8.00	7.84	32.61	18.31	5.050					
9.00	8.68	38.55	22.72	5.749					
10.00	9.73	45.17	27.43	6.446					
11.00	10.93	52.11	32.16	7.107					
12.00	12.23	59.06	36.75	7.712					
13.00	13.58	65.89	41.13	8.259					
14.00	14.93	72.56	45.33	8.753					
15.00	16.28	79.05	49.37	9.201					
16.00	17.62	85.40	53.27	9.611					
17.00	18.94	91.62	57.08	9.988					
18.00	20.25	97.73	60.79	10.337					
19.00	21.55	103.75	64.44	10.663					
20.00	22.84	109.69	68.03	10.967					
21.00	24.12	115.56	71.56	11.254					
22.00	25.39	121.37	75.06	11.524					
23.00	26.65	127.13	78.52	11.780					
24.00	27.90	132.84	81.95	12.023					
25.00	29.15	138.52	85.36	12.255					
26.00	30.39	144.16	88.74	12.476					
27.00	31.62	149.77	92.10	12.688					
28.00	32.85	155.35	95.44	12.891					
29.00	34.07	160.91	98.77	13.086					
30.00	35.29	166.44	102.08	13.273					
31.00	36.50	171.95	105.38	13.454					
32.00	37.71	177.45	108.67	13.629					
33.00	38.92	182.93	111.95	13.797					
34.00	40.12	188.39	115.22	13.960					
35.00	41.32	193.84	118.48	14.118					
36.00	42.52	199.27	121.73	14.271					
37.00	43.71	204.70	124.97	14.420					
38.00	44.90	210.11	128.21	14.564					
39.00	46.09	215.51	131.44	14.704					
40.00	47.28	220.90	134.67	14.841					
41.00	48.47	226.29	137.89	14.974					
42.00	49.65	231.66	141.11	15.103					
43.00	50.83	237.03	144.32	15.230					
44.00	52.01	242.39	147.52	15.353					
45.00	53.19	247.74	150.73	15.473					
46.00	54.37	253.09	153.93	15.591					
47.00	55.54	258.43	157.12	15.706					
48.00	56.72	263.76	160.32	15.818					
49.00	57.89	269.09	163.50	15.928					
50.00	59.06	274.42	166.69	16.035					
51.00	60.23	279.74	169.88	16.141					
52.00	61.40	285.05	173.06	16.244					
53.00	62.57	290.36	176.24	16.345					
54.00	63.74	295.67	179.41	16.444					
55.00	64.91	300.97	182.59	16.542					
56.00	66.07	306.27	185.76	16.637					
57.00	67.24	311.57	188.93	16.731					
58.00	68.40	316.86	192.10	16.823					
59.00	69.57	322.15	195.27	16.913					
60.00	70.73	327.44	198.43	17.002					

18.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	163.87	751.40	452.51	21.478	221.00	255.25	1167.77	702.21	23.818
142.00	165.02	756.61	455.63	21.515	222.00	256.39	1172.97	705.33	23.841
143.00	166.16	761.82	458.76	21.552	223.00	257.53	1178.17	708.45	23.864
144.00	167.30	767.03	461.88	21.588	224.00	258.67	1183.37	711.57	23.888
145.00	168.45	772.24	465.01	21.624	225.00	259.82	1188.57	714.69	23.911
146.00	169.59	777.45	468.13	21.660	226.00	260.96	1193.77	717.81	23.934
147.00	170.74	782.66	471.26	21.696	227.00	262.10	1198.97	720.93	23.957
148.00	171.88	787.87	474.38	21.731	228.00	263.24	1204.17	724.05	23.980
149.00	173.02	793.08	477.50	21.766	229.00	264.38	1209.37	727.17	24.003
150.00	174.17	798.29	480.63	21.801	230.00	265.52	1214.57	730.28	24.025
151.00	175.31	803.50	483.75	21.835	231.00	266.66	1219.77	733.40	24.048
152.00	176.45	808.71	486.87	21.870	232.00	267.80	1224.97	736.52	24.070
153.00	177.60	813.92	490.00	21.904	233.00	268.94	1230.17	739.64	24.093
154.00	178.74	819.12	493.12	21.938	234.00	270.08	1235.37	742.76	24.115
155.00	179.88	824.33	496.24	21.972	235.00	271.23	1240.57	745.88	24.137
156.00	181.03	829.54	499.37	22.005	236.00	272.37	1245.76	749.00	24.159
157.00	182.17	834.75	502.49	22.038	237.00	273.51	1250.96	752.12	24.181
158.00	183.31	839.96	505.61	22.071	238.00	274.65	1256.16	755.23	24.203
159.00	184.46	845.16	508.74	22.104	239.00	275.79	1261.36	758.35	24.225
160.00	185.60	850.37	511.86	22.137	240.00	276.93	1266.56	761.47	24.246
161.00	186.74	855.58	514.98	22.169	241.00	278.07	1271.76	764.59	24.268
162.00	187.88	860.78	518.10	22.202	242.00	279.21	1276.96	767.71	24.290
163.00	189.03	865.99	521.23	22.234	243.00	280.35	1282.16	770.83	24.311
164.00	190.17	871.20	524.35	22.266	244.00	281.49	1287.36	773.94	24.332
165.00	191.31	876.40	527.47	22.297	245.00	282.63	1292.56	777.06	24.354
166.00	192.45	881.61	530.59	22.329	246.00	283.77	1297.76	780.18	24.375
167.00	193.60	886.82	533.71	22.360	247.00	284.91	1302.95	783.30	24.396
168.00	194.74	892.02	536.84	22.391	248.00	286.05	1308.15	786.42	24.417
169.00	195.88	897.23	539.96	22.422	249.00	287.20	1313.35	789.54	24.438
170.00	197.03	902.43	543.08	22.453	250.00	288.34	1318.55	792.65	24.459
171.00	198.17	907.64	546.20	22.483	251.00	289.48	1323.75	795.77	24.479
172.00	199.31	912.84	549.32	22.513	252.00	290.62	1328.95	798.89	24.500
173.00	200.45	918.05	552.44	22.544	253.00	291.76	1334.15	802.01	24.521
174.00	201.59	923.25	555.57	22.574	254.00	292.90	1339.34	805.13	24.541
175.00	202.74	928.46	558.69	22.603	255.00	294.04	1344.54	808.25	24.562
176.00	203.88	933.66	561.81	22.633	256.00	295.18	1349.74	811.36	24.582
177.00	205.02	938.87	564.93	22.663	257.00	296.32	1354.94	814.48	24.602
178.00	206.16	944.07	568.05	22.692	258.00	297.46	1360.14	817.60	24.622
179.00	207.31	949.28	571.17	22.721	259.00	298.60	1365.34	820.72	24.643
180.00	208.45	954.48	574.29	22.750	260.00	299.74	1370.53	823.84	24.663
181.00	209.59	959.69	577.42	22.779	261.00	300.88	1375.73	826.95	24.683
182.00	210.73	964.89	580.54	22.808	262.00	302.02	1380.93	830.07	24.702
183.00	211.87	970.09	583.66	22.836	263.00	303.16	1386.13	833.19	24.722
184.00	213.02	975.30	586.78	22.864	264.00	304.30	1391.33	836.31	24.742
185.00	214.16	980.50	589.90	22.893	265.00	305.44	1396.52	839.43	24.762
186.00	215.30	985.71	593.02	22.921	266.00	306.58	1401.72	842.54	24.781
187.00	216.44	990.91	596.14	22.949	267.00	307.72	1406.92	845.66	24.801
188.00	217.58	996.11	599.26	22.976	268.00	308.87	1412.12	848.78	24.820
189.00	218.73	1001.32	602.38	23.004	269.00	310.01	1417.32	851.90	24.839
190.00	219.87	1006.52	605.50	23.031	270.00	311.15	1422.51	855.02	24.859
191.00	221.01	1011.72	608.62	23.059	271.00	312.29	1427.71	858.13	24.878
192.00	222.15	1016.92	611.74	23.086	272.00	313.43	1432.91	861.25	24.897
193.00	223.29	1022.13	614.86	23.113	273.00	314.57	1438.11	864.37	24.916
194.00	224.43	1027.33	617.98	23.140	274.00	315.71	1443.30	867.49	24.935
195.00	225.58	1032.53	621.10	23.167	275.00	316.85	1448.50	870.60	24.954
196.00	226.72	1037.73	624.22	23.193	276.00	317.99	1453.70	873.72	24.973
197.00	227.86	1042.94	627.34	23.220	277.00	319.13	1458.90	876.84	24.992
198.00	229.00	1048.14	630.46	23.246	278.00	320.27	1464.10	879.96	25.011
199.00	230.14	1053.34	633.58	23.272	279.00	321.41	1469.29	883.07	25.029
200.00	231.28	1058.54	636.70	23.298	280.00	322.55	1474.49	886.19	25.048
201.00	232.43	1063.75	639.82	23.324	281.00	323.69	1479.69	889.31	25.066
202.00	233.57	1068.95	642.94	23.350	282.00	324.83	1484.88	892.43	25.085
203.00	234.71	1074.15	646.06	23.376	283.00	325.97	1490.08	895.55	25.103
204.00	235.85	1079.35	649.18	23.401	284.00	327.11	1495.28	898.66	25.122
205.00	236.99	1084.55	652.30	23.427	285.00	328.25	1500.48	901.78	25.140
206.00	238.13	1089.75	655.42	23.452	286.00	329.39	1505.67	904.90	25.158
207.00	239.27	1094.96	658.54	23.477	287.00	330.53	1510.87	908.02	25.176
208.00	240.42	1100.16	661.66	23.502	288.00	331.67	1516.07	911.13	25.194
209.00	241.56	1105.36	664.78	23.527	289.00	332.81	1521.27	914.25	25.212
210.00	242.70	1110.56	667.90	23.552	290.00	333.95	1526.46	917.37	25.230
211.00	243.84	1115.76	671.02	23.577	291.00	335.09	1531.66	920.49	25.248
212.00	244.98	1120.96	674.14	23.601	292.00	336.23	1536.86	923.60	25.266
213.00	246.12	1126.16	677.26	23.626	293.00	337.37	1542.05	926.72	25.284
214.00	247.26	1131.36	680.38	23.650	294.00	338.51	1547.25	929.84	25.301
215.00	248.40	1136.56	683.50	23.674	295.00	339.65	1552.45	932.96	25.319
216.00	249.55	1141.76	686.62	23.699	296.00	340.79	1557.64	936.07	25.337
217.00	250.69	1146.97	689.74	23.723	297.00	341.93	1562.84	939.19	25.354
218.00	251.83	1152.17	692.86	23.747	298.00	343.07	1568.04	942.31	25.372
219.00	252.97	1157.37	695.98	23.770	299.00	344.21	1573.23	945.42	25.389
220.00	254.11	1162.57	699.09	23.794	300.00	345.35	1578.43	948.54	25.406

19.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	68.25	332.83	201.44	16.975
					62.00	69.35	338.11	204.60	17.061
					63.00	70.45	343.39	207.76	17.145
					64.00	71.55	348.67	210.93	17.229
					65.00	72.65	353.95	214.09	17.310
					66.00	73.75	359.23	217.24	17.391
					67.00	74.85	364.50	220.40	17.470
					68.00	75.94	369.77	223.56	17.548
					69.00	77.04	375.04	226.71	17.625
					70.00	78.14	380.30	229.87	17.701
					71.00	79.24	385.57	233.02	17.776
					72.00	80.33	390.83	236.17	17.849
					73.00	81.43	396.09	239.32	17.922
					74.00	82.52	401.35	242.47	17.993
					75.00	83.62	406.61	245.62	18.064
					76.00	84.71	411.86	248.77	18.134
					77.00	85.81	417.12	251.92	18.202
					78.00	86.90	422.37	255.07	18.270
					79.00	88.00	427.62	258.21	18.337
					80.00	89.09	432.87	261.36	18.403
					81.00	90.18	438.12	264.50	18.468
					82.00	91.27	443.37	267.65	18.533
					83.00	92.37	448.62	270.79	18.596
					84.00	93.46	453.86	273.93	18.659
					85.00	94.55	459.11	277.07	18.721
					86.00	95.64	464.35	280.22	18.782
					87.00	96.73	469.59	283.36	18.843
					88.00	97.82	474.83	286.50	18.903
					89.00	98.92	480.07	289.64	18.962
					90.00	100.01	485.31	292.78	19.021
					91.00	101.10	490.55	295.91	19.078
					92.00	102.19	495.79	299.05	19.136
					93.00	103.28	501.02	302.19	19.192
					94.00	104.37	506.26	305.33	19.248
					95.00	105.46	511.49	308.46	19.304
					96.00	106.54	516.72	311.60	19.358
					97.00	107.63	521.96	314.74	19.413
					98.00	108.72	527.19	317.87	19.466
					99.00	109.81	532.42	321.01	19.519
					100.00	110.90	537.65	324.14	19.572
					101.00	111.99	542.88	327.28	19.624
					102.00	113.08	548.11	330.41	19.676
					103.00	114.16	553.34	333.54	19.727
					104.00	115.25	558.57	336.68	19.777
					105.00	116.34	563.79	339.81	19.827
					106.00	117.43	569.02	342.94	19.877
					107.00	118.52	574.25	346.08	19.926
					108.00	119.60	579.47	349.21	19.974
					109.00	120.69	584.70	352.34	20.023
					110.00	121.78	589.92	355.47	20.070
					111.00	122.86	595.14	358.60	20.117
					112.00	123.95	600.37	361.73	20.164
					113.00	125.04	605.59	364.86	20.211
					114.00	126.12	610.81	367.99	20.257
					115.00	127.21	616.03	371.12	20.302
					116.00	128.30	621.25	374.25	20.348
					117.00	129.38	626.48	377.38	20.392
					118.00	130.47	631.70	380.51	20.437
					119.00	131.55	636.92	383.64	20.481
					120.00	132.64	642.14	386.77	20.525
					121.00	133.73	647.35	389.90	20.568
					122.00	134.81	652.57	393.03	20.611
					123.00	135.90	657.79	396.16	20.653
					124.00	136.98	663.01	399.29	20.696
					125.00	138.07	668.23	402.41	20.738
					126.00	139.15	673.44	405.54	20.779
					127.00	140.24	678.66	408.67	20.820
					128.00	141.32	683.88	411.80	20.861
					129.00	142.41	689.09	414.92	20.902
					130.00	143.49	694.31	418.05	20.942
					131.00	144.58	699.52	421.18	20.982
					132.00	145.66	704.74	424.30	21.022
					133.00	146.75	709.95	427.43	21.061
					134.00	147.83	715.17	430.56	21.100
					135.00	148.92	720.38	433.68	21.139
					136.00	150.00	725.59	436.81	21.177
					137.00	151.09	730.81	439.93	21.216
					138.00	152.17	736.02	443.06	21.254
					139.00	153.25	741.23	446.19	21.291
					140.00	154.34	746.45	449.31	21.329
3.00	5.93	16.04	4.63	1.896					
4.00	6.10	18.11	6.38	2.513					
5.00	6.33	20.80	8.61	3.133					
6.00	6.66	24.16	11.34	3.739					
7.00	7.10	28.05	14.39	4.343					
8.00	7.69	32.83	18.02	4.979					
9.00	8.46	38.60	22.32	5.657					
10.00	9.41	45.05	26.93	6.336					
11.00	10.51	51.84	31.61	6.984					
12.00	11.71	58.72	36.17	7.582					
13.00	12.96	65.52	40.57	8.126					
14.00	14.23	72.17	44.78	8.620					
15.00	15.50	78.68	48.84	9.069					
16.00	16.76	85.04	52.78	9.480					
17.00	18.01	91.28	56.60	9.858					
18.00	19.26	97.42	60.34	10.208					
19.00	20.49	103.45	64.00	10.535					
20.00	21.71	109.41	67.61	10.840					
21.00	22.93	115.30	71.17	11.128					
22.00	24.13	121.13	74.68	11.399					
23.00	25.33	126.91	78.15	11.656					
24.00	26.51	132.64	81.60	11.900					
25.00	27.70	138.33	85.01	12.132					
26.00	28.87	143.99	88.41	12.354					
27.00	30.04	149.61	91.78	12.566					
28.00	31.21	155.21	95.13	12.770					
29.00	32.37	160.78	98.47	12.965					
30.00	33.52	166.33	101.79	13.153					
31.00	34.67	171.85	105.10	13.335					
32.00	35.82	177.36	108.39	13.509					
33.00	36.97	182.85	111.68	13.678					
34.00	38.11	188.32	114.95	13.842					
35.00	39.25	193.78	118.22	14.000					
36.00	40.38	199.22	121.48	14.153					
37.00	41.52	204.66	124.73	14.302					
38.00	42.65	210.08	127.97	14.447					
39.00	43.78	215.49	131.21	14.587					
40.00	44.90	220.89	134.44	14.724					
41.00	46.03	226.28	137.67	14.857					
42.00	47.15	231.66	140.89	14.987					
43.00	48.27	237.03	144.10	15.113					
44.00	49.39	242.40	147.31	15.237					
45.00	50.51	247.76	150.52	15.357					
46.00	51.63	253.11	153.72	15.475					
47.00	52.74	258.46	156.92	15.590					
48.00	53.85	263.80	160.12	15.702					
49.00	54.97	269.14	163.31	15.812					
50.00	56.08	274.47	166.50	15.920					
51.00	57.19	279.79	169.69	16.025					
52.00	58.30	285.11	172.87	16.129					
53.00	59.41	290.43	176.06	16.230					
54.00	60.52	295.74	179.24	16.329					
55.00	61.62	301.05	182.41	16.427					
56.00	62.73	306.35	185.59	16.522					
57.00	63.83	311.66	188.76	16.616					
58.00	64.94	316.95	191.93	16.708					
59.00	66.04	322.25	195.10	16.799					
60.00	67.14	327.54	198.27	16.887					

19.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	155.42	751.66	452.44	21.366	221.00	242.00	1168.08	702.16	23.705
142.00	156.51	756.87	455.56	21.402	222.00	243.09	1173.28	705.28	23.729
143.00	157.59	762.08	458.69	21.439	223.00	244.17	1178.48	708.40	23.752
144.00	158.67	767.29	461.81	21.475	224.00	245.25	1183.68	711.52	23.775
145.00	159.76	772.51	464.94	21.511	225.00	246.33	1188.88	714.64	23.798
146.00	160.84	777.72	468.06	21.547	226.00	247.41	1194.08	717.76	23.821
147.00	161.93	782.93	471.18	21.583	227.00	248.49	1199.28	720.88	23.844
148.00	163.01	788.14	474.31	21.618	228.00	249.57	1204.48	724.00	23.867
149.00	164.09	793.35	477.43	21.653	229.00	250.65	1209.68	727.12	23.890
150.00	165.18	798.56	480.56	21.688	230.00	251.73	1214.88	730.24	23.913
151.00	166.26	803.77	483.68	21.723	231.00	252.82	1220.08	733.36	23.935
152.00	167.34	808.98	486.80	21.757	232.00	253.90	1225.28	736.48	23.958
153.00	168.43	814.19	489.93	21.791	233.00	254.98	1230.48	739.59	23.980
154.00	169.51	819.40	493.05	21.825	234.00	256.06	1235.68	742.71	24.002
155.00	170.59	824.61	496.18	21.859	235.00	257.14	1240.88	745.83	24.025
156.00	171.68	829.81	499.30	21.892	236.00	258.22	1246.08	748.95	24.047
157.00	172.76	835.02	502.42	21.926	237.00	259.30	1251.28	752.07	24.069
158.00	173.84	840.23	505.55	21.959	238.00	260.38	1256.48	755.19	24.090
159.00	174.93	845.44	508.67	21.992	239.00	261.46	1261.68	758.31	24.112
160.00	176.01	850.65	511.79	22.024	240.00	262.54	1266.88	761.43	24.134
161.00	177.09	855.86	514.91	22.057	241.00	263.62	1272.08	764.54	24.156
162.00	178.17	861.06	518.04	22.089	242.00	264.70	1277.28	767.66	24.177
163.00	179.26	866.27	521.16	22.121	243.00	265.79	1282.48	770.78	24.199
164.00	180.34	871.48	524.28	22.153	244.00	266.87	1287.68	773.90	24.220
165.00	181.42	876.68	527.41	22.185	245.00	267.95	1292.88	777.02	24.241
166.00	182.51	881.89	530.53	22.216	246.00	269.03	1298.08	780.14	24.262
167.00	183.59	887.10	533.65	22.247	247.00	270.11	1303.28	783.26	24.283
168.00	184.67	892.31	536.77	22.278	248.00	271.19	1308.47	786.37	24.304
169.00	185.75	897.51	539.90	22.309	249.00	272.27	1313.67	789.49	24.325
170.00	186.84	902.72	543.02	22.340	250.00	273.35	1318.87	792.61	24.346
171.00	187.92	907.92	546.14	22.370	251.00	274.43	1324.07	795.73	24.367
172.00	189.00	913.13	549.26	22.401	252.00	275.51	1329.27	798.85	24.388
173.00	190.08	918.34	552.38	22.431	253.00	276.59	1334.47	801.97	24.408
174.00	191.17	923.54	555.51	22.461	254.00	277.67	1339.67	805.08	24.429
175.00	192.25	928.75	558.63	22.491	255.00	278.75	1344.87	808.20	24.449
176.00	193.33	933.95	561.75	22.521	256.00	279.83	1350.07	811.32	24.470
177.00	194.41	939.16	564.87	22.550	257.00	280.91	1355.26	814.44	24.490
178.00	195.49	944.36	567.99	22.579	258.00	282.00	1360.46	817.56	24.510
179.00	196.58	949.57	571.11	22.608	259.00	283.08	1365.66	820.68	24.530
180.00	197.66	954.77	574.23	22.637	260.00	284.16	1370.86	823.79	24.550
181.00	198.74	959.98	577.36	22.666	261.00	285.24	1376.06	826.91	24.570
182.00	199.82	965.18	580.48	22.695	262.00	286.32	1381.26	830.03	24.590
183.00	200.91	970.39	583.60	22.724	263.00	287.40	1386.46	833.15	24.610
184.00	201.99	975.59	586.72	22.752	264.00	288.48	1391.65	836.27	24.629
185.00	203.07	980.80	589.84	22.780	265.00	289.56	1396.85	839.38	24.649
186.00	204.15	986.00	592.96	22.808	266.00	290.64	1402.05	842.50	24.669
187.00	205.23	991.20	596.08	22.836	267.00	291.72	1407.25	845.62	24.688
188.00	206.32	996.41	599.20	22.864	268.00	292.80	1412.45	848.74	24.708
189.00	207.40	1001.61	602.32	22.891	269.00	293.88	1417.64	851.86	24.727
190.00	208.48	1006.81	605.45	22.919	270.00	294.96	1422.84	854.97	24.746
191.00	209.56	1012.02	608.57	22.946	271.00	296.04	1428.04	858.09	24.766
192.00	210.64	1017.22	611.69	22.973	272.00	297.12	1433.24	861.21	24.785
193.00	211.72	1022.42	614.81	23.000	273.00	298.20	1438.44	864.33	24.804
194.00	212.81	1027.63	617.93	23.027	274.00	299.28	1443.63	867.45	24.823
195.00	213.89	1032.83	621.05	23.054	275.00	300.36	1448.83	870.56	24.842
196.00	214.97	1038.03	624.17	23.081	276.00	301.44	1454.03	873.68	24.861
197.00	216.05	1043.24	627.29	23.107	277.00	302.52	1459.23	876.80	24.879
198.00	217.13	1048.44	630.41	23.133	278.00	303.60	1464.43	879.92	24.898
199.00	218.21	1053.64	633.53	23.160	279.00	304.69	1469.62	883.04	24.917
200.00	219.30	1058.85	636.65	23.186	280.00	305.77	1474.82	886.15	24.935
201.00	220.38	1064.05	639.77	23.212	281.00	306.85	1480.02	889.27	24.954
202.00	221.46	1069.25	642.89	23.237	282.00	307.93	1485.22	892.39	24.972
203.00	222.54	1074.45	646.01	23.263	283.00	309.01	1490.41	895.51	24.991
204.00	223.62	1079.65	649.13	23.289	284.00	310.09	1495.61	898.62	25.009
205.00	224.70	1084.86	652.25	23.314	285.00	311.17	1500.81	901.74	25.027
206.00	225.79	1090.06	655.37	23.340	286.00	312.25	1506.01	904.86	25.046
207.00	226.87	1095.26	658.49	23.365	287.00	313.33	1511.20	907.98	25.064
208.00	227.95	1100.46	661.61	23.390	288.00	314.41	1516.40	911.10	25.082
209.00	229.03	1105.66	664.73	23.415	289.00	315.49	1521.60	914.21	25.100
210.00	230.11	1110.87	667.85	23.440	290.00	316.57	1526.80	917.33	25.118
211.00	231.19	1116.07	670.97	23.464	291.00	317.65	1531.99	920.45	25.136
212.00	232.27	1121.27	674.09	23.489	292.00	318.73	1537.19	923.57	25.153
213.00	233.35	1126.47	677.21	23.513	293.00	319.81	1542.39	926.68	25.171
214.00	234.44	1131.67	680.33	23.538	294.00	320.89	1547.59	929.80	25.189
215.00	235.52	1136.87	683.45	23.562	295.00	321.97	1552.78	932.92	25.207
216.00	236.60	1142.07	686.57	23.586	296.00	323.05	1557.98	936.04	25.224
217.00	237.68	1147.27	689.69	23.610	297.00	324.13	1563.18	939.15	25.242
218.00	238.76	1152.48	692.81	23.634	298.00	325.21	1568.37	942.27	25.259
219.00	239.84	1157.68	695.93	23.658	299.00	326.29	1573.57	945.39	25.277
220.00	240.92	1162.88	699.05	23.682	300.00	327.37	1578.77	948.51	25.294

20.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	64.96	332.93	201.28	16.866
					62.00	66.01	338.22	204.45	16.952
					63.00	67.06	343.51	207.61	17.037
					64.00	68.10	348.79	210.77	17.120
					65.00	69.15	354.07	213.94	17.202
					66.00	70.19	359.35	217.10	17.282
					67.00	71.24	364.63	220.26	17.362
					68.00	72.28	369.90	223.42	17.440
					69.00	73.33	375.17	226.57	17.517
					70.00	74.37	380.44	229.73	17.593
					71.00	75.41	385.71	232.88	17.667
					72.00	76.45	390.98	236.04	17.741
					73.00	77.50	396.24	239.19	17.814
					74.00	78.54	401.50	242.34	17.885
					75.00	79.58	406.76	245.49	17.956
					76.00	80.62	412.02	248.64	18.025
					77.00	81.66	417.28	251.79	18.094
					78.00	82.70	422.53	254.94	18.162
					79.00	83.74	427.79	258.09	18.229
					80.00	84.78	433.04	261.23	18.295
					81.00	85.82	438.29	264.38	18.360
					82.00	86.86	443.54	267.53	18.425
					83.00	87.89	448.79	270.67	18.488
					84.00	88.93	454.04	273.81	18.551
					85.00	89.97	459.28	276.96	18.613
					86.00	91.01	464.53	280.10	18.675
					87.00	92.04	469.77	283.24	18.735
					88.00	93.08	475.02	286.38	18.795
					89.00	94.12	480.26	289.52	18.854
					90.00	95.15	485.50	292.66	18.913
3.00	5.90	16.60	4.65	1.882	91.00	96.19	490.74	295.80	18.971
4.00	6.06	18.65	6.37	2.493	92.00	97.23	495.98	298.94	19.028
5.00	6.28	21.31	8.57	3.105	93.00	98.26	501.22	302.08	19.085
6.00	6.59	24.61	11.25	3.702	94.00	99.30	506.45	305.22	19.141
7.00	7.01	28.42	14.22	4.293	95.00	100.33	511.69	308.36	19.196
8.00	7.56	33.07	17.76	4.913	96.00	101.37	516.93	311.50	19.251
9.00	8.26	38.69	21.95	5.574	97.00	102.40	522.16	314.63	19.305
10.00	9.13	44.98	26.48	6.236	98.00	103.44	527.39	317.77	19.359
					99.00	104.47	532.63	320.91	19.412
					100.00	105.51	537.86	324.04	19.465
11.00	10.14	51.65	31.10	6.871	101.00	106.54	543.09	327.18	19.517
12.00	11.25	58.44	35.64	7.462	102.00	107.58	548.32	330.31	19.568
13.00	12.42	65.19	40.03	8.003	103.00	108.61	553.55	333.45	19.619
14.00	13.61	71.83	44.26	8.495	104.00	109.64	558.78	336.58	19.670
15.00	14.80	78.34	48.34	8.944	105.00	110.68	564.01	339.71	19.720
16.00	16.00	84.72	52.29	9.355	106.00	111.71	569.24	342.85	19.769
17.00	17.19	90.97	56.14	9.735	107.00	112.75	574.47	345.98	19.818
18.00	18.37	97.12	59.90	10.086	108.00	113.78	579.69	349.11	19.867
19.00	19.54	103.18	63.58	10.414	109.00	114.81	584.92	352.25	19.915
20.00	20.70	109.15	67.20	10.720	110.00	115.85	590.14	355.38	19.963
21.00	21.85	115.06	70.77	11.008	111.00	116.88	595.37	358.51	20.010
22.00	23.00	120.91	74.30	11.281	112.00	117.91	600.59	361.64	20.057
23.00	24.14	126.71	77.79	11.538	113.00	118.94	605.82	364.77	20.103
24.00	25.27	132.45	81.25	11.783	114.00	119.98	611.04	367.90	20.149
25.00	26.39	138.16	84.68	12.016	115.00	121.01	616.27	371.04	20.195
26.00	27.51	143.83	88.08	12.238	116.00	122.04	621.49	374.17	20.240
27.00	28.62	149.47	91.46	12.451	117.00	123.07	626.71	377.30	20.285
28.00	29.73	155.08	94.82	12.655	118.00	124.10	631.93	380.43	20.330
29.00	30.84	160.66	98.17	12.851	119.00	125.14	637.15	383.56	20.374
30.00	31.94	166.22	101.50	13.039	120.00	126.17	642.37	386.69	20.417
31.00	33.03	171.76	104.82	13.221	121.00	127.20	647.59	389.82	20.461
32.00	34.12	177.27	108.12	13.396	122.00	128.23	652.81	392.94	20.504
33.00	35.21	182.77	111.41	13.565	123.00	129.26	658.03	396.07	20.546
34.00	36.30	188.26	114.69	13.729	124.00	130.30	663.25	399.20	20.588
35.00	37.38	193.73	117.97	13.887	125.00	131.33	668.47	402.33	20.630
36.00	38.46	199.18	121.23	14.041	126.00	132.36	673.69	405.46	20.672
37.00	39.54	204.62	124.49	14.190	127.00	133.39	678.91	408.59	20.713
38.00	40.62	210.05	127.74	14.335	128.00	134.42	684.12	411.71	20.754
39.00	41.69	215.47	130.98	14.476	129.00	135.45	689.34	414.84	20.795
40.00	42.76	220.88	134.21	14.613	130.00	136.48	694.56	417.97	20.835
41.00	43.83	226.28	137.44	14.746	131.00	137.51	699.77	421.10	20.875
42.00	44.90	231.67	140.67	14.876	132.00	138.54	704.99	424.22	20.915
43.00	45.97	237.05	143.89	15.002	133.00	139.57	710.21	427.35	20.954
44.00	47.03	242.42	147.10	15.126	134.00	140.60	715.42	430.48	20.993
45.00	48.10	247.79	150.32	15.247	135.00	141.64	720.64	433.60	21.032
46.00	49.16	253.15	153.52	15.364	136.00	142.67	725.85	436.73	21.070
47.00	50.22	258.50	156.73	15.480	137.00	143.70	731.07	439.86	21.109
48.00	51.28	263.85	159.93	15.592	138.00	144.73	736.28	442.98	21.146
49.00	52.34	269.19	163.12	15.702	139.00	145.76	741.49	446.11	21.184
50.00	53.39	274.52	166.32	15.810	140.00	146.79	746.71	449.24	21.221
51.00	54.45	279.85	169.51	15.916					
52.00	55.51	285.18	172.69	16.019					
53.00	56.56	290.50	175.88	16.120					
54.00	57.61	295.82	179.06	16.220					
55.00	58.67	301.13	182.24	16.317					
56.00	59.72	306.44	185.42	16.413					
57.00	60.77	311.74	188.59	16.507					
58.00	61.82	317.05	191.77	16.599					
59.00	62.87	322.34	194.94	16.690					
60.00	63.92	327.64	198.11	16.779					

20.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	147.82	751.92	452.36	21.259	221.00	230.08	1168.39	702.12	23.598
142.00	148.85	757.13	455.49	21.295	222.00	231.11	1173.59	705.24	23.622
143.00	149.88	762.35	458.61	21.332	223.00	232.14	1178.79	708.36	23.645
144.00	150.91	767.56	461.74	21.368	224.00	233.16	1183.99	711.47	23.668
145.00	151.94	772.77	464.86	21.404	225.00	234.19	1189.19	714.59	23.692
146.00	152.97	777.98	467.99	21.440	226.00	235.22	1194.39	717.71	23.715
147.00	154.00	783.19	471.11	21.476	227.00	236.24	1199.60	720.83	23.738
148.00	155.03	788.41	474.24	21.511	228.00	237.27	1204.80	723.95	23.760
149.00	156.06	793.62	477.36	21.546	229.00	238.30	1210.00	727.07	23.783
150.00	157.08	798.83	480.49	21.581	230.00	239.33	1215.20	730.19	23.806
151.00	158.11	804.04	483.61	21.616	231.00	240.35	1220.40	733.31	23.828
152.00	159.14	809.25	486.74	21.650	232.00	241.38	1225.60	736.42	23.851
153.00	160.17	814.46	489.86	21.684	233.00	242.41	1230.80	739.55	23.873
154.00	161.20	819.67	492.98	21.718	234.00	243.43	1236.00	742.67	23.896
155.00	162.23	824.88	496.11	21.752	235.00	244.46	1241.20	745.79	23.918
156.00	163.26	830.09	499.23	21.785	236.00	245.49	1246.40	748.90	23.940
157.00	164.29	835.30	502.36	21.819	237.00	246.51	1251.60	752.02	23.962
158.00	165.32	840.51	505.48	21.852	238.00	247.54	1256.80	755.14	23.984
159.00	166.35	845.72	508.60	21.885	239.00	248.57	1262.00	758.26	24.006
160.00	167.38	850.92	511.73	21.917	240.00	249.60	1267.20	761.38	24.027
161.00	168.41	856.13	514.85	21.950	241.00	250.62	1272.40	764.50	24.049
162.00	169.43	861.34	517.97	21.982	242.00	251.65	1277.60	767.62	24.070
163.00	170.46	866.55	521.10	22.014	243.00	252.68	1282.80	770.74	24.092
164.00	171.49	871.76	524.22	22.046	244.00	253.70	1288.00	773.86	24.113
165.00	172.52	876.97	527.34	22.078	245.00	254.73	1293.20	776.97	24.134
166.00	173.55	882.17	530.46	22.109	246.00	255.76	1298.40	780.09	24.156
167.00	174.58	887.38	533.59	22.140	247.00	256.78	1303.60	783.21	24.177
168.00	175.61	892.59	536.71	22.171	248.00	257.81	1308.80	786.33	24.198
169.00	176.64	897.80	539.83	22.202	249.00	258.84	1314.00	789.45	24.219
170.00	177.66	903.00	542.95	22.233	250.00	259.86	1319.20	792.57	24.239
171.00	178.69	908.21	546.08	22.264	251.00	260.89	1324.39	795.69	24.260
172.00	179.72	913.42	549.20	22.294	252.00	261.92	1329.59	798.81	24.281
173.00	180.75	918.62	552.32	22.324	253.00	262.94	1334.79	801.92	24.302
174.00	181.78	923.83	555.44	22.354	254.00	263.97	1339.99	805.04	24.322
175.00	182.81	929.03	558.57	22.384	255.00	265.00	1345.19	808.16	24.342
176.00	183.84	934.24	561.69	22.414	256.00	266.02	1350.39	811.28	24.363
177.00	184.86	939.45	564.81	22.443	257.00	267.05	1355.59	814.40	24.383
178.00	185.89	944.65	567.93	22.472	258.00	268.08	1360.79	817.52	24.403
179.00	186.92	949.86	571.05	22.502	259.00	269.10	1365.99	820.63	24.423
180.00	187.95	955.06	574.18	22.531	260.00	270.13	1371.19	823.75	24.443
181.00	188.98	960.27	577.30	22.559	261.00	271.16	1376.38	826.87	24.463
182.00	190.01	965.47	580.42	22.588	262.00	272.18	1381.58	829.99	24.483
183.00	191.03	970.68	583.54	22.617	263.00	273.21	1386.78	833.11	24.503
184.00	192.06	975.88	586.66	22.645	264.00	274.24	1391.98	836.23	24.523
185.00	193.09	981.09	589.78	22.673	265.00	275.26	1397.18	839.34	24.542
186.00	194.12	986.29	592.90	22.701	266.00	276.29	1402.38	842.46	24.562
187.00	195.15	991.50	596.03	22.729	267.00	277.32	1407.58	845.58	24.582
188.00	196.17	996.70	599.15	22.757	268.00	278.34	1412.77	848.70	24.601
189.00	197.20	1001.91	602.27	22.785	269.00	279.37	1417.97	851.82	24.620
190.00	198.23	1007.11	605.39	22.812	270.00	280.40	1423.17	854.93	24.640
191.00	199.26	1012.32	608.51	22.839	271.00	281.42	1428.37	858.05	24.659
192.00	200.28	1017.52	611.63	22.867	272.00	282.45	1433.57	861.17	24.678
193.00	201.31	1022.72	614.75	22.894	273.00	283.47	1438.77	864.29	24.697
194.00	202.34	1027.93	617.87	22.920	274.00	284.50	1443.96	867.41	24.716
195.00	203.37	1033.13	620.99	22.947	275.00	285.53	1449.16	870.52	24.735
196.00	204.40	1038.33	624.11	22.974	276.00	286.55	1454.36	873.64	24.754
197.00	205.42	1043.54	627.23	23.000	277.00	287.58	1459.56	876.76	24.773
198.00	206.45	1048.74	630.36	23.027	278.00	288.61	1464.76	879.88	24.791
199.00	207.48	1053.94	633.48	23.053	279.00	289.63	1469.95	883.00	24.810
200.00	208.51	1059.15	636.60	23.079	280.00	290.66	1475.15	886.11	24.829
201.00	209.53	1064.35	639.72	23.105	281.00	291.69	1480.35	889.23	24.847
202.00	210.56	1069.55	642.84	23.131	282.00	292.71	1485.55	892.35	24.866
203.00	211.59	1074.76	645.96	23.156	283.00	293.74	1490.75	895.47	24.884
204.00	212.62	1079.96	649.08	23.182	284.00	294.77	1495.94	898.59	24.902
205.00	213.64	1085.16	652.20	23.207	285.00	295.79	1501.14	901.70	24.921
206.00	214.67	1090.36	655.32	23.233	286.00	296.82	1506.34	904.82	24.939
207.00	215.70	1095.57	658.44	23.258	287.00	297.84	1511.54	907.94	24.957
208.00	216.73	1100.77	661.56	23.283	288.00	298.87	1516.73	911.06	24.975
209.00	217.75	1105.97	664.68	23.308	289.00	299.90	1521.93	914.18	24.993
210.00	218.78	1111.17	667.80	23.333	290.00	300.92	1527.13	917.29	25.011
211.00	219.81	1116.37	670.92	23.357	291.00	301.95	1532.33	920.41	25.029
212.00	220.84	1121.58	674.04	23.382	292.00	302.98	1537.53	923.53	25.047
213.00	221.86	1126.78	677.16	23.407	293.00	304.00	1542.72	926.65	25.065
214.00	222.89	1131.98	680.28	23.431	294.00	305.03	1547.92	929.76	25.082
215.00	223.92	1137.18	683.40	23.455	295.00	306.05	1553.12	932.88	25.100
216.00	224.95	1142.38	686.52	23.479	296.00	307.08	1558.31	936.00	25.117
217.00	225.97	1147.58	689.64	23.503	297.00	308.11	1563.51	939.12	25.135
218.00	227.00	1152.79	692.76	23.527	298.00	309.13	1568.71	942.23	25.152
219.00	228.03	1157.99	695.88	23.551	299.00	310.16	1573.91	945.35	25.170
220.00	229.06	1163.19	699.00	23.575	300.00	311.19	1579.10	948.47	25.187

21.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J.GM)	ENTROPY (J/GM-K)
					61.00	62.00	333.04	201.12	16.762
					62.00	62.99	338.33	204.29	16.848
					63.00	63.99	343.62	207.46	16.933
					64.00	64.99	348.91	210.62	17.016
					65.00	65.98	354.20	213.79	17.098
					66.00	66.98	359.48	216.95	17.179
					67.00	67.98	364.76	220.11	17.258
					68.00	68.97	370.03	223.27	17.337
					69.00	69.97	375.31	226.43	17.414
					70.00	70.96	380.58	229.59	17.489
					71.00	71.95	385.85	232.75	17.564
					72.00	72.95	391.12	235.90	17.638
					73.00	73.94	396.39	239.06	17.711
					74.00	74.93	401.65	242.21	17.782
					75.00	75.92	406.92	245.36	17.853
					76.00	76.91	412.18	248.51	17.923
					77.00	77.91	417.44	251.66	17.991
					78.00	78.90	422.70	254.81	18.059
					79.00	79.89	427.95	257.96	18.126
					80.00	80.88	433.21	261.11	18.192
					81.00	81.87	438.46	264.26	18.257
					82.00	82.86	443.72	267.40	18.322
					83.00	83.85	448.97	270.55	18.386
					84.00	84.84	454.22	273.70	18.448
					85.00	85.82	459.46	276.84	18.511
					86.00	86.81	464.71	279.98	18.572
					87.00	87.80	469.96	283.13	18.633
					88.00	88.79	475.20	286.27	18.693
					89.00	89.78	480.45	289.41	18.752
					90.00	90.77	485.69	292.55	18.810
3.00	5.86	17.15	4.67	1.868	91.00	91.75	490.93	295.69	18.868
4.00	6.02	19.19	6.37	2.474	92.00	92.74	496.17	298.83	18.926
5.00	6.24	21.81	8.54	3.079	93.00	93.73	501.41	301.97	18.982
6.00	6.53	25.06	11.16	3.667	94.00	94.71	506.65	305.11	19.038
7.00	6.92	28.80	14.06	4.246	95.00	95.70	511.89	308.25	19.094
8.00	7.43	33.35	17.53	4.852	96.00	96.69	517.13	311.39	19.149
9.00	8.09	38.83	21.63	5.497	97.00	97.67	522.36	314.53	19.203
10.00	8.89	44.97	26.07	6.144	98.00	98.66	527.60	317.67	19.256
					99.00	99.64	532.83	320.80	19.310
					100.00	100.63	538.07	323.94	19.362
11.00	9.82	51.51	30.62	6.767	101.00	101.62	543.30	327.08	19.414
12.00	10.85	58.21	35.13	7.350	102.00	102.60	548.53	330.21	19.466
13.00	11.94	64.92	39.52	7.887	103.00	103.59	553.77	333.35	19.517
14.00	13.05	71.54	43.76	8.377	104.00	104.57	559.00	336.48	19.567
15.00	14.19	78.04	47.85	8.826	105.00	105.56	564.23	339.62	19.617
16.00	15.32	84.42	51.82	9.238	106.00	106.54	569.46	342.75	19.667
17.00	16.45	90.69	55.69	9.618	107.00	107.53	574.69	345.89	19.716
18.00	17.57	96.85	59.46	9.970	108.00	108.51	579.91	349.02	19.765
19.00	18.68	102.92	63.17	10.298	109.00	109.49	585.14	352.15	19.813
20.00	19.79	108.92	66.81	10.606	110.00	110.48	590.37	355.29	19.861
21.00	20.89	114.84	70.39	10.895	111.00	111.46	595.60	358.42	19.908
22.00	21.98	120.70	73.93	11.168	112.00	112.45	600.82	361.55	19.955
23.00	23.06	126.52	77.44	11.426	113.00	113.43	606.05	364.68	20.001
24.00	24.14	132.28	80.90	11.671	114.00	114.41	611.27	367.81	20.047
25.00	25.22	138.00	84.34	11.905	115.00	115.40	616.50	370.95	20.093
26.00	26.28	143.69	87.76	12.128	116.00	116.38	621.72	374.08	20.138
27.00	27.34	149.34	91.15	12.341	117.00	117.36	626.94	377.21	20.183
28.00	28.40	154.96	94.52	12.545	118.00	118.35	632.17	380.34	20.228
29.00	29.45	160.55	97.88	12.742	119.00	119.33	637.39	383.47	20.272
30.00	30.50	166.12	101.21	12.931	120.00	120.31	642.61	386.60	20.315
31.00	31.55	171.67	104.54	13.113	121.00	121.30	647.83	389.73	20.359
32.00	32.59	177.20	107.85	13.288	122.00	122.28	653.05	392.86	20.402
33.00	33.63	182.71	111.15	13.458	123.00	123.26	658.28	395.99	20.444
34.00	34.67	188.20	114.44	13.622	124.00	124.24	663.50	399.12	20.486
35.00	35.70	193.68	117.72	13.780	125.00	125.23	668.72	402.25	20.528
36.00	36.73	199.14	120.99	13.934	126.00	126.21	673.93	405.38	20.570
37.00	37.76	204.59	124.25	14.084	127.00	127.19	679.15	408.51	20.611
38.00	38.78	210.03	127.50	14.229	128.00	128.17	684.37	411.63	20.652
39.00	39.81	215.46	130.75	14.370	129.00	129.16	689.59	414.76	20.693
40.00	40.83	220.87	133.99	14.507	130.00	130.14	694.81	417.89	20.733
41.00	41.85	226.28	137.22	14.640	131.00	131.12	700.03	421.02	20.773
42.00	42.87	231.68	140.45	14.770	132.00	132.10	705.24	424.15	20.813
43.00	43.89	237.06	143.68	14.897	133.00	133.08	710.46	427.27	20.852
44.00	44.90	242.44	146.90	15.021	134.00	134.07	715.68	430.40	20.891
45.00	45.92	247.82	150.11	15.141	135.00	135.05	720.89	433.53	20.930
46.00	46.93	253.18	153.32	15.259	136.00	136.03	726.11	436.66	20.968
47.00	47.94	258.54	156.53	15.375	137.00	137.01	731.32	439.78	21.007
48.00	48.95	263.89	159.73	15.487	138.00	137.99	736.54	442.91	21.045
49.00	49.96	269.24	162.93	15.598	139.00	138.97	741.75	446.04	21.082
50.00	50.97	274.58	166.13	15.706	140.00	139.95	746.97	449.16	21.120
51.00	51.97	279.92	169.32	15.811					
52.00	52.98	285.25	172.51	15.915					
53.00	53.98	290.57	175.70	16.016					
54.00	54.99	295.90	178.89	16.116					
55.00	55.99	301.21	182.07	16.213					
56.00	56.99	306.53	185.25	16.309					
57.00	58.00	311.84	188.43	16.403					
58.00	59.00	317.14	191.60	16.495					
59.00	60.00	322.45	194.78	16.586					
60.00	61.00	327.74	197.95	16.675					

21.00 ATMOSPHERE 1508AR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	140.94	752.18	452.29	21.157	221.00	219.30	1168.70	702.07	23.497
142.00	141.92	757.40	455.41	21.194	222.00	220.27	1173.90	705.19	23.520
143.00	142.90	762.61	458.54	21.230	223.00	221.25	1179.10	708.31	23.544
144.00	143.88	767.82	461.67	21.266	224.00	222.23	1184.31	711.43	23.567
145.00	144.86	773.04	464.79	21.303	225.00	223.21	1189.51	714.55	23.590
146.00	145.84	778.25	467.92	21.338	226.00	224.19	1194.71	717.67	23.613
147.00	146.82	783.46	471.04	21.374	227.00	225.17	1199.91	720.79	23.636
148.00	147.80	788.67	474.17	21.409	228.00	226.14	1205.11	723.90	23.659
149.00	148.78	793.89	477.29	21.444	229.00	227.12	1210.31	727.02	23.682
150.00	149.76	799.10	480.42	21.479	230.00	228.10	1215.51	730.14	23.704
151.00	150.74	804.31	483.54	21.514	231.00	229.08	1220.71	733.26	23.727
152.00	151.73	809.52	486.67	21.548	232.00	230.06	1225.91	736.38	23.749
153.00	152.71	814.73	489.79	21.582	233.00	231.03	1231.12	739.50	23.772
154.00	153.69	819.94	492.92	21.616	234.00	232.01	1236.32	742.62	23.794
155.00	154.67	825.15	496.04	21.650	235.00	232.99	1241.52	745.74	23.816
156.00	155.65	830.36	499.16	21.684	236.00	233.97	1246.72	748.86	23.838
157.00	156.63	835.57	502.29	21.717	237.00	234.95	1251.92	751.98	23.860
158.00	157.61	840.78	505.41	21.750	238.00	235.92	1257.12	755.10	23.882
159.00	158.59	845.99	508.54	21.783	239.00	236.90	1262.32	758.22	23.904
160.00	159.57	851.20	511.66	21.816	240.00	237.88	1267.52	761.34	23.926
161.00	160.55	856.41	514.78	21.848	241.00	238.86	1272.72	764.45	23.947
162.00	161.53	861.62	517.91	21.880	242.00	239.84	1277.92	767.57	23.969
163.00	162.51	866.83	521.03	21.912	243.00	240.82	1283.12	770.69	23.990
164.00	163.49	872.04	524.15	21.944	244.00	241.79	1288.32	773.81	24.012
165.00	164.47	877.25	527.28	21.976	245.00	242.77	1293.52	776.93	24.033
166.00	165.45	882.46	530.40	22.007	246.00	243.75	1298.72	780.05	24.054
167.00	166.43	887.66	533.52	22.039	247.00	244.73	1303.92	783.17	24.075
168.00	167.41	892.87	536.65	22.070	248.00	245.71	1309.12	786.29	24.096
169.00	168.39	898.08	539.77	22.101	249.00	246.68	1314.32	789.41	24.117
170.00	169.37	903.29	542.89	22.131	250.00	247.66	1319.52	792.52	24.138
171.00	170.35	908.49	546.02	22.162	251.00	248.64	1324.72	795.64	24.159
172.00	171.33	913.70	549.14	22.192	252.00	249.62	1329.92	798.76	24.179
173.00	172.31	918.91	552.26	22.222	253.00	250.59	1335.12	801.88	24.200
174.00	173.29	924.12	555.38	22.252	254.00	251.57	1340.32	805.00	24.221
175.00	174.27	929.32	558.51	22.282	255.00	252.55	1345.52	808.12	24.241
176.00	175.25	934.53	561.63	22.312	256.00	253.53	1350.71	811.24	24.261
177.00	176.22	939.74	564.75	22.341	257.00	254.51	1355.91	814.36	24.282
178.00	177.20	944.94	567.87	22.371	258.00	255.48	1361.11	817.47	24.302
179.00	178.18	950.15	570.99	22.400	259.00	256.46	1366.31	820.59	24.322
180.00	179.16	955.35	574.12	22.429	260.00	257.44	1371.51	823.71	24.342
181.00	180.14	960.56	577.24	22.458	261.00	258.42	1376.71	826.83	24.362
182.00	181.12	965.77	580.36	22.486	262.00	259.39	1381.91	829.95	24.382
183.00	182.10	970.97	583.48	22.515	263.00	260.37	1387.11	833.07	24.402
184.00	183.08	976.18	586.60	22.543	264.00	261.35	1392.31	836.18	24.421
185.00	184.06	981.38	589.73	22.572	265.00	262.33	1397.51	839.30	24.441
186.00	185.04	986.59	592.85	22.600	266.00	263.31	1402.71	842.42	24.461
187.00	186.02	991.79	595.97	22.628	267.00	264.28	1407.90	845.54	24.480
188.00	187.00	997.00	599.09	22.655	268.00	265.26	1413.10	848.66	24.499
189.00	187.98	1002.20	602.21	22.683	269.00	266.24	1418.30	851.78	24.519
190.00	188.96	1007.41	605.33	22.710	270.00	267.22	1423.50	854.89	24.538
191.00	189.93	1012.61	608.45	22.738	271.00	268.19	1428.70	858.01	24.557
192.00	190.91	1017.82	611.58	22.765	272.00	269.17	1433.90	861.13	24.576
193.00	191.89	1023.02	614.70	22.792	273.00	270.15	1439.10	864.25	24.596
194.00	192.87	1028.23	617.82	22.819	274.00	271.13	1444.29	867.37	24.615
195.00	193.85	1033.43	620.94	22.846	275.00	272.10	1449.49	870.49	24.633
196.00	194.83	1038.63	624.06	22.872	276.00	273.08	1454.69	873.60	24.652
197.00	195.81	1043.84	627.18	22.899	277.00	274.06	1459.89	876.72	24.671
198.00	196.79	1049.04	630.30	22.925	278.00	275.04	1465.09	879.84	24.690
199.00	197.77	1054.25	633.42	22.951	279.00	276.02	1470.29	882.96	24.709
200.00	198.75	1059.45	636.54	22.977	280.00	276.99	1475.48	886.08	24.727
201.00	199.72	1064.65	639.66	23.003	281.00	277.97	1480.68	889.19	24.746
202.00	200.70	1069.86	642.78	23.029	282.00	278.95	1485.88	892.31	24.764
203.00	201.68	1075.06	645.91	23.055	283.00	279.93	1491.08	895.43	24.783
204.00	202.66	1080.26	649.03	23.080	284.00	280.90	1496.28	898.55	24.801
205.00	203.64	1085.47	652.15	23.106	285.00	281.88	1501.47	901.67	24.819
206.00	204.62	1090.67	655.27	23.131	286.00	282.86	1506.67	904.78	24.837
207.00	205.60	1095.87	658.39	23.156	287.00	283.84	1511.87	907.90	24.856
208.00	206.57	1101.07	661.51	23.181	288.00	284.81	1517.07	911.02	24.874
209.00	207.55	1106.28	664.63	23.206	289.00	285.79	1522.27	914.14	24.892
210.00	208.53	1111.48	667.75	23.231	290.00	286.77	1527.46	917.26	24.910
211.00	209.51	1116.68	670.87	23.256	291.00	287.75	1532.66	920.37	24.927
212.00	210.49	1121.88	673.99	23.280	292.00	288.72	1537.86	923.49	24.945
213.00	211.47	1127.09	677.11	23.305	293.00	289.70	1543.06	926.61	24.963
214.00	212.45	1132.29	680.23	23.329	294.00	290.68	1548.26	929.73	24.981
215.00	213.42	1137.49	683.35	23.354	295.00	291.66	1553.45	932.84	24.998
216.00	214.40	1142.69	686.47	23.378	296.00	292.63	1558.65	935.96	25.016
217.00	215.38	1147.89	689.59	23.402	297.00	293.61	1563.85	939.08	25.034
218.00	216.36	1153.10	692.71	23.426	298.00	294.59	1569.05	942.20	25.051
219.00	217.34	1158.30	695.83	23.449	299.00	295.57	1574.24	945.32	25.068
220.00	218.32	1163.50	698.95	23.473	300.00	296.54	1579.44	948.43	25.086

22.00 ATMOSPHERE 1508AR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	59.30	333.15	200.97	16.664
					62.00	60.25	338.45	204.14	16.750
					63.00	61.20	343.74	207.31	16.834
					64.00	62.16	349.03	210.48	16.918
					65.00	63.11	354.32	213.64	17.000
					66.00	64.06	359.61	216.81	17.080
					67.00	65.01	364.89	219.97	17.160
					68.00	65.96	370.17	223.13	17.238
					69.00	66.91	375.45	226.29	17.315
					70.00	67.86	380.72	229.45	17.391
					71.00	68.81	386.00	232.61	17.466
					72.00	69.76	391.27	235.77	17.540
					73.00	70.71	396.54	238.92	17.612
					74.00	71.65	401.81	242.08	17.684
					75.00	72.60	407.07	245.23	17.755
					76.00	73.55	412.34	248.39	17.824
					77.00	74.49	417.60	251.54	17.893
					78.00	75.44	422.86	254.69	17.961
					79.00	76.39	428.12	257.84	18.028
					80.00	77.33	433.38	260.99	18.094
					81.00	78.28	438.63	264.14	18.159
					82.00	79.22	443.89	267.28	18.224
					83.00	80.17	449.14	270.43	18.288
					84.00	81.11	454.40	273.58	18.351
					85.00	82.06	459.65	276.72	18.413
					86.00	83.00	464.90	279.87	18.474
					87.00	83.94	470.14	283.01	18.535
					88.00	84.89	475.39	286.16	18.595
					89.00	85.83	480.64	289.30	18.654
					90.00	86.78	485.88	292.44	18.713
					91.00	87.72	491.13	295.59	18.771
					92.00	88.66	496.37	298.73	18.828
					93.00	89.60	501.61	301.87	18.884
					94.00	90.55	506.85	305.01	18.941
					95.00	91.49	512.09	308.15	18.996
					96.00	92.43	517.33	311.29	19.051
					97.00	93.37	522.57	314.43	19.105
					98.00	94.31	527.81	317.56	19.159
					99.00	95.25	533.04	320.70	19.212
					100.00	96.20	538.28	323.84	19.265
					101.00	97.14	543.51	326.98	19.317
					102.00	98.08	548.75	330.11	19.368
					103.00	99.02	553.98	333.25	19.419
					104.00	99.96	559.21	336.39	19.470
					105.00	100.90	564.45	339.52	19.520
					106.00	101.84	569.68	342.66	19.570
					107.00	102.78	574.91	345.79	19.619
					108.00	103.72	580.14	348.93	19.667
					109.00	104.66	585.37	352.06	19.716
					110.00	105.60	590.60	355.19	19.763
					111.00	106.54	595.82	358.33	19.811
					112.00	107.48	601.05	361.46	19.857
					113.00	108.42	606.28	364.59	19.904
					114.00	109.36	611.50	367.73	19.950
					115.00	110.30	616.73	370.86	19.996
					116.00	111.23	621.96	373.99	20.041
					117.00	112.17	627.18	377.12	20.086
					118.00	113.11	632.40	380.25	20.130
					119.00	114.05	637.63	383.38	20.174
					120.00	114.99	642.85	386.51	20.218
					121.00	115.93	648.07	389.65	20.261
					122.00	116.87	653.30	392.78	20.304
					123.00	117.81	658.52	395.91	20.347
					124.00	118.74	663.74	399.04	20.389
					125.00	119.68	668.96	402.17	20.431
					126.00	120.62	674.18	405.30	20.473
					127.00	121.56	679.40	408.42	20.514
					128.00	122.50	684.62	411.55	20.555
					129.00	123.43	689.84	414.68	20.596
					130.00	124.37	695.06	417.81	20.636
					131.00	125.31	700.28	420.94	20.676
					132.00	126.25	705.50	424.07	20.716
					133.00	127.18	710.71	427.20	20.755
					134.00	128.12	715.93	430.32	20.794
					135.00	129.06	721.15	433.45	20.833
					136.00	129.99	726.36	436.58	20.871
					137.00	130.93	731.58	439.71	20.909
					138.00	131.87	736.80	442.83	20.947
					139.00	132.81	742.01	445.96	20.985
					140.00	133.74	747.23	449.09	21.022
3.00	5.83	17.71	4.70	1.855					
4.00	5.99	19.72	6.38	2.456					
5.00	6.19	22.32	8.51	3.054					
6.00	6.47	25.51	11.08	3.633					
7.00	6.85	29.19	13.93	4.202					
8.00	7.32	33.64	17.31	4.795					
9.00	7.93	39.01	21.33	5.427					
10.00	8.67	45.02	25.69	6.059					
11.00	9.53	51.43	30.19	6.671					
12.00	10.49	58.04	34.66	7.246					
13.00	11.51	64.69	39.04	7.778					
14.00	12.56	71.28	43.28	8.266					
15.00	13.63	77.77	47.39	8.714					
16.00	14.71	84.15	51.37	9.126					
17.00	15.78	90.43	55.25	9.506					
18.00	16.85	96.60	59.04	9.859					
19.00	17.91	102.69	62.76	10.188					
20.00	18.97	108.70	66.42	10.497					
21.00	20.02	114.64	70.02	10.786					
22.00	21.06	120.51	73.57	11.060					
23.00	22.09	126.34	77.09	11.319					
24.00	23.12	132.12	80.57	11.565					
25.00	24.15	137.85	84.02	11.799					
26.00	25.17	143.55	87.44	12.022					
27.00	26.18	149.21	90.84	12.236					
28.00	27.19	154.85	94.23	12.441					
29.00	28.20	160.45	97.59	12.638					
30.00	29.20	166.04	100.93	12.827					
31.00	30.20	171.59	104.26	13.009					
32.00	31.20	177.13	107.58	13.185					
33.00	32.19	182.65	110.89	13.355					
34.00	33.18	188.15	114.18	13.519					
35.00	34.17	193.64	117.47	13.678					
36.00	35.16	199.11	120.74	13.832					
37.00	36.14	204.57	124.01	13.982					
38.00	37.12	210.02	127.27	14.127					
39.00	38.10	215.45	130.52	14.268					
40.00	39.07	220.87	133.77	14.406					
41.00	40.05	226.29	137.01	14.539					
42.00	41.02	231.69	140.24	14.669					
43.00	42.00	237.09	143.47	14.796					
44.00	42.97	242.47	146.69	14.920					
45.00	43.93	247.85	149.91	15.041					
46.00	44.90	253.22	153.13	15.159					
47.00	45.87	258.59	156.34	15.275					
48.00	46.83	263.95	159.54	15.387					
49.00	47.80	269.30	162.75	15.498					
50.00	48.76	274.64	165.95	15.606					
51.00	49.72	279.99	169.14	15.712					
52.00	50.68	285.32	172.34	15.815					
53.00	51.64	290.65	175.53	15.917					
54.00	52.60	295.98	178.71	16.016					
55.00	53.56	301.30	181.90	16.114					
56.00	54.52	306.62	185.08	16.210					
57.00	55.48	311.93	188.26	16.304					
58.00	56.43	317.24	191.44	16.396					
59.00	57.39	322.55	194.62	16.487					
60.00	58.34	327.85	197.79	16.576					

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	134.68	752.44	452.21	21.060	221.00	209.49	1169.01	702.02	23.400
142.00	135.62	757.66	455.34	21.096	222.00	210.42	1174.22	705.14	23.423
143.00	136.55	762.87	458.47	21.133	223.00	211.36	1179.42	708.26	23.447
144.00	137.49	768.09	461.59	21.169	224.00	212.29	1184.62	711.38	23.470
145.00	138.43	773.30	464.72	21.205	225.00	213.22	1189.82	714.50	23.493
146.00	139.36	778.51	467.85	21.241	226.00	214.16	1195.02	717.62	23.516
147.00	140.30	783.73	470.97	21.277	227.00	215.09	1200.22	720.74	23.539
148.00	141.24	788.94	474.10	21.312	228.00	216.03	1205.43	723.86	23.562
149.00	142.17	794.15	477.22	21.347	229.00	216.96	1210.63	726.98	23.585
150.00	143.11	799.37	480.35	21.382	230.00	217.89	1215.83	730.10	23.608
151.00	144.05	804.58	483.47	21.417	231.00	218.83	1221.03	733.22	23.630
152.00	144.98	809.79	486.60	21.451	232.00	219.76	1226.23	736.34	23.653
153.00	145.92	815.00	489.72	21.485	233.00	220.70	1231.43	739.46	23.675
154.00	146.85	820.21	492.85	21.519	234.00	221.63	1236.63	742.57	23.697
155.00	147.79	825.43	495.97	21.553	235.00	222.56	1241.83	745.69	23.719
156.00	148.73	830.64	499.10	21.587	236.00	223.50	1247.03	748.81	23.741
157.00	149.66	835.85	502.22	21.620	237.00	224.43	1252.24	751.93	23.763
158.00	150.60	841.06	505.35	21.653	238.00	225.36	1257.44	755.05	23.785
159.00	151.53	846.27	508.47	21.686	239.00	226.30	1262.64	758.17	23.807
160.00	152.47	851.48	511.59	21.719	240.00	227.23	1267.84	761.29	23.829
161.00	153.40	856.69	514.72	21.751	241.00	228.17	1273.04	764.41	23.851
162.00	154.34	861.90	517.84	21.783	242.00	229.10	1278.24	767.53	23.872
163.00	155.28	867.11	520.97	21.815	243.00	230.03	1283.44	770.65	23.893
164.00	156.21	872.32	524.09	21.847	244.00	230.97	1288.64	773.77	23.915
165.00	157.15	877.53	527.21	21.879	245.00	231.90	1293.84	776.89	23.936
166.00	158.08	882.74	530.34	21.910	246.00	232.83	1299.04	780.01	23.957
167.00	159.02	887.95	533.46	21.942	247.00	233.77	1304.24	783.12	23.978
168.00	159.95	893.16	536.58	21.973	248.00	234.70	1309.44	786.24	23.999
169.00	160.89	898.36	539.71	22.004	249.00	235.63	1314.64	789.36	24.020
170.00	161.82	903.57	542.83	22.034	250.00	236.57	1319.84	792.48	24.041
171.00	162.76	908.78	545.95	22.065	251.00	237.50	1325.04	795.60	24.062
172.00	163.70	913.99	549.08	22.095	252.00	238.43	1330.24	798.72	24.083
173.00	164.63	919.20	552.20	22.125	253.00	239.37	1335.44	801.84	24.103
174.00	165.57	924.40	555.32	22.155	254.00	240.30	1340.64	804.96	24.124
175.00	166.50	929.61	558.45	22.185	255.00	241.24	1345.84	808.08	24.144
176.00	167.44	934.82	561.57	22.215	256.00	242.17	1351.04	811.19	24.164
177.00	168.37	940.03	564.69	22.244	257.00	243.10	1356.24	814.31	24.185
178.00	169.31	945.23	567.81	22.274	258.00	244.04	1361.44	817.43	24.205
179.00	170.24	950.44	570.94	22.303	259.00	244.97	1366.64	820.55	24.225
180.00	171.18	955.65	574.06	22.332	260.00	245.90	1371.84	823.67	24.245
181.00	172.11	960.85	577.18	22.361	261.00	246.84	1377.04	826.79	24.265
182.00	173.05	966.06	580.30	22.390	262.00	247.77	1382.24	829.91	24.285
183.00	173.98	971.27	583.42	22.418	263.00	248.70	1387.44	833.03	24.305
184.00	174.92	976.47	586.55	22.446	264.00	249.64	1392.63	836.14	24.324
185.00	175.85	981.68	589.67	22.475	265.00	250.57	1397.83	839.26	24.344
186.00	176.79	986.88	592.79	22.503	266.00	251.50	1403.03	842.38	24.364
187.00	177.72	992.09	595.91	22.531	267.00	252.44	1408.23	845.50	24.383
188.00	178.66	997.29	599.03	22.558	268.00	253.37	1413.43	848.62	24.403
189.00	179.59	1002.50	602.16	22.586	269.00	254.30	1418.63	851.74	24.422
190.00	180.52	1007.71	605.28	22.613	270.00	255.24	1423.83	854.85	24.441
191.00	181.46	1012.91	608.40	22.641	271.00	256.17	1429.03	857.97	24.461
192.00	182.39	1018.12	611.52	22.668	272.00	257.10	1434.23	861.09	24.480
193.00	183.33	1023.32	614.64	22.695	273.00	258.04	1439.43	864.21	24.499
194.00	184.26	1028.53	617.76	22.722	274.00	258.97	1444.62	867.33	24.518
195.00	185.20	1033.73	620.88	22.749	275.00	259.90	1449.82	870.45	24.537
196.00	186.13	1038.93	624.01	22.775	276.00	260.84	1455.02	873.56	24.556
197.00	187.07	1044.14	627.13	22.802	277.00	261.77	1460.22	876.68	24.574
198.00	188.00	1049.34	630.25	22.828	278.00	262.70	1465.42	879.80	24.593
199.00	188.94	1054.55	633.37	22.854	279.00	263.64	1470.62	882.92	24.612
200.00	189.87	1059.75	636.49	22.880	280.00	264.57	1475.82	886.04	24.630
201.00	190.81	1064.96	639.61	22.906	281.00	265.50	1481.01	889.16	24.649
202.00	191.74	1070.16	642.73	22.932	282.00	266.43	1486.21	892.27	24.667
203.00	192.67	1075.36	645.85	22.958	283.00	267.37	1491.41	895.39	24.686
204.00	193.61	1080.57	648.97	22.983	284.00	268.30	1496.61	898.51	24.704
205.00	194.54	1085.77	652.09	23.009	285.00	269.23	1501.81	901.63	24.722
206.00	195.48	1090.97	655.21	23.034	286.00	270.17	1507.01	904.75	24.741
207.00	196.41	1096.18	658.34	23.059	287.00	271.10	1512.20	907.86	24.759
208.00	197.35	1101.38	661.46	23.084	288.00	272.03	1517.40	910.98	24.777
209.00	198.28	1106.58	664.58	23.109	289.00	272.97	1522.60	914.10	24.795
210.00	199.21	1111.79	667.70	23.134	290.00	273.90	1527.80	917.22	24.813
211.00	200.15	1116.99	670.82	23.159	291.00	274.83	1533.00	920.34	24.831
212.00	201.08	1122.19	673.94	23.184	292.00	275.77	1538.19	923.45	24.849
213.00	202.02	1127.39	677.06	23.208	293.00	276.70	1543.39	926.57	24.866
214.00	202.95	1132.60	680.18	23.232	294.00	277.63	1548.59	929.69	24.884
215.00	203.88	1137.80	683.30	23.257	295.00	278.57	1553.79	932.81	24.902
216.00	204.82	1143.00	686.42	23.281	296.00	279.50	1558.99	935.93	24.919
217.00	205.75	1148.20	689.54	23.305	297.00	280.43	1564.18	939.04	24.937
218.00	206.69	1153.41	692.66	23.329	298.00	281.36	1569.38	942.16	24.954
219.00	207.62	1158.61	695.78	23.353	299.00	282.30	1574.58	945.28	24.972
220.00	208.55	1163.81	698.90	23.376	300.00	283.23	1579.78	948.40	24.989

23.00 ATMOSPHERE ISO8AR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	56.83	333.27	200.81	16.569
					62.00	57.75	338.57	203.99	16.655
					63.00	58.66	343.86	207.16	16.740
					64.00	59.57	349.16	210.33	16.823
					65.00	60.48	354.45	213.50	16.905
					66.00	61.39	359.74	216.66	16.986
					67.00	62.30	365.02	219.83	17.066
					68.00	63.21	370.31	222.99	17.144
					69.00	64.12	375.59	226.15	17.221
					70.00	65.03	380.87	229.32	17.297
					71.00	65.94	386.15	232.48	17.372
					72.00	66.85	391.42	235.63	17.446
					73.00	67.75	396.69	238.79	17.518
					74.00	68.66	401.96	241.95	17.590
					75.00	69.57	407.23	245.10	17.661
					76.00	70.47	412.50	248.26	17.730
					77.00	71.38	417.76	251.41	17.799
					78.00	72.29	423.03	254.56	17.867
					79.00	73.19	428.29	257.72	17.934
					80.00	74.10	433.55	260.87	18.000
					81.00	75.00	438.81	264.02	18.066
					82.00	75.91	444.07	267.17	18.130
3.00	5.80	18.25	4.73	1.842	83.00	76.81	449.32	270.31	18.194
4.00	5.95	20.25	6.38	2.438	84.00	77.71	454.58	273.46	18.257
5.00	6.15	22.82	8.48	3.030	85.00	78.62	459.83	276.61	18.319
6.00	6.42	25.98	11.01	3.601	86.00	79.52	465.08	279.76	18.380
7.00	6.77	29.58	13.80	4.161	87.00	80.42	470.33	282.90	18.441
8.00	7.22	33.95	17.12	4.742	88.00	81.33	475.58	286.05	18.501
9.00	7.79	39.21	21.06	5.361	89.00	82.23	480.83	289.19	18.560
10.00	8.48	45.10	25.35	5.981	90.00	83.13	486.08	292.33	18.619
					91.00	84.03	491.32	295.48	18.677
11.00	9.28	51.40	29.78	6.581	92.00	84.94	496.57	298.62	18.734
12.00	10.17	57.92	34.22	7.148	93.00	85.84	501.81	301.76	18.791
13.00	11.12	64.51	38.58	7.676	94.00	86.74	507.05	304.90	18.847
14.00	12.12	71.06	42.82	8.161	95.00	87.64	512.30	308.04	18.903
15.00	13.13	77.54	46.94	8.608	96.00	88.54	517.54	311.18	18.958
16.00	14.15	83.92	50.93	9.020	97.00	89.44	522.78	314.32	19.012
17.00	15.17	90.19	54.83	9.400	98.00	90.35	528.02	317.46	19.066
18.00	16.19	96.38	58.64	9.754	99.00	91.25	533.25	320.60	19.119
19.00	17.21	102.47	62.37	10.084	100.00	92.15	538.49	323.74	19.171
20.00	18.22	108.49	66.04	10.392					
					101.00	93.05	543.73	326.88	19.223
21.00	19.22	114.45	69.65	10.683	102.00	93.95	548.96	330.02	19.275
22.00	20.22	120.34	73.22	10.957	103.00	94.85	554.20	333.15	19.326
23.00	21.21	126.18	76.74	11.216	104.00	95.75	559.43	336.29	19.377
24.00	22.20	131.97	80.24	11.463	105.00	96.65	564.67	339.43	19.427
25.00	23.18	137.72	83.70	11.698	106.00	97.55	569.90	342.56	19.476
26.00	24.15	143.43	87.13	11.921	107.00	98.45	575.13	345.70	19.526
27.00	25.13	149.10	90.54	12.136	108.00	99.35	580.36	348.83	19.574
28.00	26.09	154.75	93.93	12.341	109.00	100.25	585.59	351.97	19.622
29.00	27.06	160.36	97.30	12.538	110.00	101.14	590.82	355.10	19.670
30.00	28.02	165.96	100.66	12.728					
					111.00	102.04	596.05	358.24	19.717
31.00	28.98	171.52	103.99	12.910	112.00	102.94	601.28	361.37	19.764
32.00	29.93	177.07	107.32	13.086	113.00	103.84	606.51	364.50	19.811
33.00	30.88	182.60	110.63	13.257	114.00	104.74	611.74	367.64	19.857
34.00	31.83	188.11	113.93	13.421	115.00	105.64	616.96	370.77	19.903
35.00	32.78	193.61	117.22	13.580	116.00	106.54	622.19	373.90	19.948
36.00	33.72	199.09	120.50	13.735	117.00	107.44	627.42	377.03	19.993
37.00	34.66	204.55	123.78	13.885	118.00	108.33	632.64	380.17	20.037
38.00	35.60	210.01	127.04	14.030	119.00	109.23	637.87	383.30	20.081
39.00	36.54	215.45	130.30	14.171	120.00	110.13	643.09	386.43	20.125
40.00	37.47	220.88	133.55	14.309					
					121.00	111.03	648.32	389.56	20.168
41.00	38.41	226.30	136.79	14.443	122.00	111.93	653.54	392.69	20.211
42.00	39.34	231.71	140.03	14.573	123.00	112.82	658.76	395.82	20.254
43.00	40.27	237.11	143.26	14.700	124.00	113.72	663.98	398.95	20.296
44.00	41.20	242.50	146.49	14.824	125.00	114.62	669.21	402.08	20.338
45.00	42.13	247.89	149.71	14.945	126.00	115.52	674.43	405.21	20.380
46.00	43.05	253.27	152.93	15.063	127.00	116.41	679.65	408.34	20.421
47.00	43.98	258.64	156.14	15.179	128.00	117.31	684.87	411.47	20.462
48.00	44.90	264.00	159.35	15.292	129.00	118.21	690.09	414.60	20.503
49.00	45.83	269.36	162.56	15.402	130.00	119.10	695.31	417.73	20.543
50.00	46.75	274.71	165.76	15.510					
					131.00	120.00	700.53	420.86	20.583
51.00	47.67	280.06	168.96	15.616	132.00	120.90	705.75	423.99	20.623
52.00	48.59	285.40	172.16	15.720	133.00	121.80	710.97	427.12	20.662
53.00	49.51	290.73	175.35	15.822	134.00	122.69	716.19	430.25	20.701
54.00	50.43	296.06	178.54	15.921	135.00	123.59	721.40	433.38	20.740
55.00	51.34	301.39	181.73	16.019	136.00	124.49	726.62	436.50	20.778
56.00	52.26	306.71	184.92	16.115	137.00	125.38	731.84	439.63	20.817
57.00	53.18	312.03	188.10	16.209	138.00	126.28	737.06	442.76	20.855
58.00	54.09	317.35	191.28	16.301	139.00	127.18	742.27	445.89	20.892
59.00	55.01	322.66	194.46	16.392	140.00	128.07	747.49	449.01	20.930
60.00	55.92	327.96	197.64	16.481					

23.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	128.97	752.71	452.14	20.967	221.00	200.54	1169.33	701.97	23.307
142.00	129.86	757.92	455.27	21.004	222.00	201.43	1174.53	705.09	23.331
143.00	130.76	763.14	458.39	21.040	223.00	202.32	1179.73	708.21	23.354
144.00	131.66	768.35	461.52	21.077	224.00	203.22	1184.93	711.33	23.377
145.00	132.55	773.57	464.65	21.113	225.00	204.11	1190.13	714.45	23.401
146.00	133.45	778.78	467.77	21.148	226.00	205.00	1195.34	717.57	23.424
147.00	134.34	784.00	470.90	21.184	227.00	205.90	1200.54	720.69	23.447
148.00	135.24	789.21	474.03	21.219	228.00	206.79	1205.74	723.81	23.470
149.00	136.14	794.42	477.15	21.255	229.00	207.68	1210.94	726.93	23.492
150.00	137.03	799.64	480.28	21.289	230.00	208.58	1216.14	730.05	23.515
151.00	137.93	804.85	483.40	21.324	231.00	209.47	1221.35	733.17	23.538
152.00	138.82	810.06	486.53	21.358	232.00	210.36	1226.55	736.29	23.560
153.00	139.72	815.28	489.65	21.393	233.00	211.26	1231.75	739.41	23.582
154.00	140.61	820.49	492.78	21.427	234.00	212.15	1236.95	742.53	23.605
155.00	141.51	825.70	495.91	21.460	235.00	213.04	1242.15	745.65	23.627
156.00	142.41	830.91	499.03	21.494	236.00	213.94	1247.35	748.77	23.649
157.00	143.30	836.12	502.16	21.527	237.00	214.83	1252.55	751.89	23.671
158.00	144.20	841.34	505.28	21.560	238.00	215.72	1257.75	755.01	23.693
159.00	145.09	846.55	508.40	21.593	239.00	216.61	1262.96	758.13	23.715
160.00	145.99	851.76	511.53	21.626	240.00	217.51	1268.16	761.25	23.736
161.00	146.88	856.97	514.65	21.658	241.00	218.40	1273.36	764.37	23.758
162.00	147.78	862.18	517.78	21.691	242.00	219.29	1278.56	767.48	23.780
163.00	148.67	867.39	520.90	21.723	243.00	220.19	1283.76	770.60	23.801
164.00	149.57	872.60	524.03	21.754	244.00	221.08	1288.96	773.72	23.822
165.00	150.46	877.81	527.15	21.786	245.00	221.97	1294.16	776.84	23.844
166.00	151.36	883.02	530.27	21.818	246.00	222.87	1299.36	779.96	23.865
167.00	152.25	888.23	533.40	21.849	247.00	223.76	1304.56	783.08	23.886
168.00	153.15	893.44	536.52	21.880	248.00	224.65	1309.76	786.20	23.907
169.00	154.04	898.65	539.65	21.911	249.00	225.55	1314.96	789.32	23.928
170.00	154.94	903.86	542.77	21.942	250.00	226.44	1320.16	792.44	23.949
171.00	155.83	909.07	545.89	21.972	251.00	227.33	1325.36	795.56	23.969
172.00	156.73	914.27	549.02	22.003	252.00	228.22	1330.56	798.68	23.990
173.00	157.62	919.48	552.14	22.033	253.00	229.12	1335.76	801.80	24.011
174.00	158.52	924.69	555.26	22.063	254.00	230.01	1340.96	804.91	24.031
175.00	159.41	929.90	558.39	22.093	255.00	230.90	1346.16	808.03	24.052
176.00	160.31	935.11	561.51	22.122	256.00	231.80	1351.36	811.15	24.072
177.00	161.20	940.32	564.63	22.152	257.00	232.69	1356.56	814.27	24.092
178.00	162.10	945.52	567.75	22.181	258.00	233.58	1361.76	817.39	24.112
179.00	162.99	950.73	570.88	22.210	259.00	234.48	1366.96	820.51	24.133
180.00	163.88	955.94	574.00	22.239	260.00	235.37	1372.16	823.63	24.153
181.00	164.78	961.14	577.12	22.268	261.00	236.26	1377.36	826.75	24.173
182.00	165.67	966.35	580.24	22.297	262.00	237.15	1382.56	829.87	24.192
183.00	166.57	971.56	583.37	22.325	263.00	238.05	1387.76	832.98	24.212
184.00	167.46	976.77	586.49	22.354	264.00	238.94	1392.96	836.10	24.232
185.00	168.36	981.97	589.61	22.382	265.00	239.83	1398.16	839.22	24.252
186.00	169.25	987.18	592.73	22.410	266.00	240.73	1403.36	842.34	24.271
187.00	170.14	992.38	595.86	22.438	267.00	241.62	1408.56	845.46	24.291
188.00	171.04	997.59	598.98	22.466	268.00	242.51	1413.76	848.58	24.310
189.00	171.93	1002.80	602.10	22.493	269.00	243.40	1418.96	851.70	24.330
190.00	172.83	1008.00	605.22	22.521	270.00	244.30	1424.16	854.81	24.349
191.00	173.72	1013.21	608.34	22.548	271.00	245.19	1429.36	857.93	24.368
192.00	174.62	1018.41	611.47	22.575	272.00	246.08	1434.56	861.05	24.387
193.00	175.51	1023.62	614.59	22.602	273.00	246.98	1439.75	864.17	24.406
194.00	176.40	1028.82	617.71	22.629	274.00	247.87	1444.95	867.29	24.425
195.00	177.30	1034.03	620.83	22.656	275.00	248.76	1450.15	870.41	24.444
196.00	178.19	1039.23	623.95	22.683	276.00	249.65	1455.35	873.53	24.463
197.00	179.09	1044.44	627.07	22.709	277.00	250.55	1460.55	876.64	24.482
198.00	179.98	1049.64	630.19	22.735	278.00	251.44	1465.75	879.76	24.501
199.00	180.87	1054.85	633.32	22.762	279.00	252.33	1470.95	882.88	24.519
200.00	181.77	1060.05	636.44	22.788	280.00	253.22	1476.15	886.00	24.538
201.00	182.66	1065.26	639.56	22.814	281.00	254.12	1481.35	889.12	24.556
202.00	183.56	1070.46	642.68	22.840	282.00	255.01	1486.54	892.24	24.575
203.00	184.45	1075.67	645.80	22.865	283.00	255.90	1491.74	895.35	24.593
204.00	185.34	1080.87	648.92	22.891	284.00	256.79	1496.94	898.47	24.612
205.00	186.24	1086.07	652.04	22.916	285.00	257.69	1502.14	901.59	24.630
206.00	187.13	1091.28	655.16	22.942	286.00	258.58	1507.34	904.71	24.648
207.00	188.02	1096.48	658.28	22.967	287.00	259.47	1512.54	907.83	24.666
208.00	188.92	1101.69	661.40	22.992	288.00	260.37	1517.74	910.94	24.684
209.00	189.81	1106.89	664.53	23.017	289.00	261.26	1522.93	914.06	24.702
210.00	190.71	1112.09	667.65	23.042	290.00	262.15	1528.13	917.18	24.720
211.00	191.60	1117.30	670.77	23.066	291.00	263.04	1533.33	920.30	24.738
212.00	192.49	1122.50	673.89	23.091	292.00	263.94	1538.53	923.42	24.756
213.00	193.39	1127.70	677.01	23.116	293.00	264.83	1543.73	926.53	24.774
214.00	194.28	1132.91	680.13	23.140	294.00	265.72	1548.93	929.65	24.792
215.00	195.17	1138.11	683.25	23.164	295.00	266.61	1554.12	932.77	24.809
216.00	196.07	1143.31	686.37	23.188	296.00	267.51	1559.32	935.89	24.827
217.00	196.96	1148.52	689.49	23.212	297.00	268.40	1564.52	939.01	24.844
218.00	197.85	1153.72	692.61	23.236	298.00	269.29	1569.72	942.12	24.862
219.00	198.75	1158.92	695.73	23.260	299.00	270.18	1574.92	945.24	24.879
220.00	199.64	1164.12	698.85	23.284	300.00	271.08	1580.11	948.36	24.897

24.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	54.58	333.38	200.66	16.478
					62.00	55.45	338.69	203.84	16.565
					63.00	56.33	343.99	207.01	16.649
					64.00	57.20	349.29	210.18	16.733
					65.00	58.07	354.58	213.35	16.815
					66.00	58.95	359.87	216.52	16.896
					67.00	59.82	365.16	219.69	16.975
					68.00	60.69	370.45	222.85	17.054
					69.00	61.56	375.73	226.02	17.131
					70.00	62.44	381.01	229.18	17.207
					71.00	63.31	386.29	232.34	17.282
					72.00	64.18	391.57	235.50	17.356
					73.00	65.05	396.85	238.66	17.428
					74.00	65.92	402.12	241.82	17.500
					75.00	66.79	407.39	244.98	17.571
					76.00	67.66	412.66	248.13	17.641
					77.00	68.52	417.93	251.29	17.709
					78.00	69.39	423.20	254.44	17.777
					79.00	70.26	428.46	257.59	17.844
					80.00	71.13	433.72	260.75	17.911
					81.00	72.00	438.98	263.90	17.976
					82.00	72.86	444.24	267.05	18.041
					83.00	73.73	449.50	270.20	18.104
					84.00	74.60	454.76	273.35	18.167
					85.00	75.46	460.01	276.49	18.229
					86.00	76.33	465.27	279.64	18.291
					87.00	77.20	470.52	282.79	18.352
					88.00	78.06	475.77	285.93	18.412
					89.00	78.93	481.02	289.08	18.471
					90.00	79.79	486.27	292.22	18.530
					91.00	80.66	491.52	295.37	18.588
					92.00	81.52	496.77	298.51	18.645
					93.00	82.39	502.01	301.65	18.702
					94.00	83.25	507.26	304.80	18.758
					95.00	84.12	512.50	307.94	18.813
					96.00	84.98	517.74	311.08	18.868
					97.00	85.84	522.98	314.22	18.922
					98.00	86.71	528.22	317.36	18.976
					99.00	87.57	533.46	320.50	19.029
					100.00	88.44	538.70	323.64	19.082
					101.00	89.30	543.94	326.78	19.134
					102.00	90.16	549.18	329.92	19.186
					103.00	91.02	554.42	333.06	19.237
					104.00	91.89	559.65	336.19	19.287
					105.00	92.75	564.89	339.33	19.338
					106.00	93.61	570.12	342.47	19.387
					107.00	94.48	575.35	345.60	19.436
					108.00	95.34	580.59	348.74	19.485
					109.00	96.20	585.82	351.88	19.533
					110.00	97.06	591.05	355.01	19.581
					111.00	97.92	596.28	358.15	19.628
					112.00	98.79	601.51	361.28	19.675
					113.00	99.65	606.74	364.41	19.722
					114.00	100.51	611.97	367.55	19.768
					115.00	101.37	617.20	370.68	19.813
					116.00	102.23	622.43	373.82	19.859
					117.00	103.09	627.65	376.95	19.904
					118.00	103.95	632.88	380.08	19.948
					119.00	104.81	638.11	383.21	19.992
					120.00	105.67	643.33	386.35	20.036
					121.00	106.54	648.56	389.48	20.079
					122.00	107.40	653.78	392.61	20.122
					123.00	108.26	659.01	395.74	20.165
					124.00	109.12	664.23	398.87	20.207
					125.00	109.98	669.45	402.00	20.249
					126.00	110.84	674.68	405.13	20.291
					127.00	111.70	679.90	408.26	20.332
					128.00	112.56	685.12	411.39	20.373
					129.00	113.42	690.34	414.52	20.414
					130.00	114.28	695.56	417.65	20.454
					131.00	115.14	700.78	420.78	20.494
					132.00	116.00	706.00	423.91	20.534
					133.00	116.86	711.22	427.04	20.573
					134.00	117.72	716.44	430.17	20.612
					135.00	118.58	721.66	433.30	20.651
					136.00	119.44	726.88	436.43	20.689
					137.00	120.30	732.10	439.56	20.728
					138.00	121.16	737.32	442.68	20.766
					139.00	122.01	742.53	445.81	20.803
					140.00	122.87	747.75	448.94	20.841
3.00	5.78	18.81	4.76	1.830					
4.00	5.92	20.79	6.39	2.421					
5.00	6.11	23.33	8.46	3.007					
6.00	6.37	26.44	10.95	3.571					
7.00	6.70	29.99	13.69	4.121					
8.00	7.13	34.28	16.94	4.693					
9.00	7.66	39.44	20.81	5.300					
10.00	8.30	45.22	25.03	5.908					
11.00	9.05	51.41	29.41	6.498					
12.00	9.88	57.84	33.81	7.057					
13.00	10.78	64.37	38.15	7.579					
14.00	11.72	70.88	42.38	8.062					
15.00	12.68	77.34	46.50	8.508					
16.00	13.65	83.71	50.51	8.919					
17.00	14.63	89.98	54.42	9.299					
18.00	15.60	96.17	58.24	9.653					
19.00	16.57	102.28	61.98	9.983					
20.00	17.54	108.31	65.67	10.293					
21.00	18.50	114.27	69.29	10.584					
22.00	19.45	120.18	72.87	10.858					
23.00	20.40	126.03	76.41	11.118					
24.00	21.35	131.83	79.91	11.365					
25.00	22.29	137.59	83.38	11.600					
26.00	23.23	143.31	86.83	11.825					
27.00	24.16	149.00	90.25	12.039					
28.00	25.09	154.65	93.64	12.245					
29.00	26.01	160.28	97.02	12.443					
30.00	26.93	165.88	100.38	12.633					
31.00	27.85	171.46	103.73	12.815					
32.00	28.77	177.02	107.06	12.992					
33.00	29.68	182.56	110.38	13.162					
34.00	30.59	188.08	113.69	13.327					
35.00	31.50	193.58	116.98	13.487					
36.00	32.40	199.07	120.27	13.641					
37.00	33.31	204.54	123.55	13.791					
38.00	34.21	210.00	126.82	13.937					
39.00	35.11	215.45	130.08	14.078					
40.00	36.00	220.89	133.33	14.216					
41.00	36.90	226.32	136.58	14.350					
42.00	37.80	231.73	139.82	14.481					
43.00	38.69	237.14	143.06	14.608					
44.00	39.58	242.54	146.29	14.732					
45.00	40.47	247.93	149.52	14.853					
46.00	41.36	253.32	152.74	14.971					
47.00	42.25	258.69	155.96	15.087					
48.00	43.13	264.06	159.17	15.200					
49.00	44.02	269.42	162.38	15.311					
50.00	44.90	274.78	165.58	15.419					
51.00	45.79	280.13	168.79	15.525					
52.00	46.67	285.48	171.99	15.629					
53.00	47.55	290.82	175.18	15.730					
54.00	48.43	296.15	178.38	15.830					
55.00	49.31	301.48	181.57	15.928					
56.00	50.19	306.81	184.75	16.024					
57.00	51.07	312.13	187.94	16.118					
58.00	51.95	317.45	191.12	16.211					
59.00	52.82	322.76	194.30	16.301					
60.00	53.70	328.08	197.48	16.391					

24.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	123.73	752.97	452.07	20.878	221.00	192.33	1169.64	701.92	23.219
142.00	124.59	758.19	455.20	20.915	222.00	193.18	1174.84	705.04	23.242
143.00	125.45	763.40	458.32	20.951	223.00	194.04	1180.04	708.16	23.266
144.00	126.31	768.62	461.45	20.988	224.00	194.90	1185.25	711.28	23.289
145.00	127.17	773.83	464.58	21.024	225.00	195.75	1190.45	714.40	23.312
146.00	128.03	779.05	467.70	21.060	226.00	196.61	1195.65	717.52	23.335
147.00	128.89	784.26	470.83	21.095	227.00	197.47	1200.85	720.64	23.358
148.00	129.75	789.48	473.96	21.131	228.00	198.32	1206.06	723.76	23.381
149.00	130.60	794.69	477.08	21.166	229.00	199.18	1211.26	726.88	23.404
150.00	131.46	799.91	480.21	21.201	230.00	200.03	1216.46	730.00	23.426
151.00	132.32	805.12	483.34	21.235	231.00	200.89	1221.66	733.12	23.449
152.00	133.18	810.34	486.46	21.270	232.00	201.75	1226.86	736.24	23.471
153.00	134.04	815.55	489.59	21.304	233.00	202.60	1232.07	739.36	23.494
154.00	134.90	820.76	492.71	21.338	234.00	203.46	1237.27	742.48	23.516
155.00	135.75	825.98	495.84	21.371	235.00	204.31	1242.47	745.60	23.538
156.00	136.61	831.19	498.96	21.405	236.00	205.17	1247.67	748.72	23.560
157.00	137.47	836.40	502.09	21.438	237.00	206.03	1252.87	751.84	23.582
158.00	138.33	841.61	505.21	21.471	238.00	206.88	1258.07	754.96	23.604
159.00	139.19	846.82	508.34	21.504	239.00	207.74	1263.27	758.08	23.626
160.00	140.05	852.04	511.46	21.537	240.00	208.59	1268.48	761.20	23.648
161.00	140.90	857.25	514.59	21.569	241.00	209.45	1273.68	764.32	23.669
162.00	141.76	862.46	517.71	21.602	242.00	210.31	1278.88	767.44	23.691
163.00	142.62	867.67	520.84	21.634	243.00	211.16	1284.08	770.56	23.712
164.00	143.48	872.88	523.96	21.666	244.00	212.02	1289.28	773.68	23.734
165.00	144.34	878.09	527.09	21.697	245.00	212.87	1294.48	776.80	23.755
166.00	145.19	883.30	530.21	21.729	246.00	213.73	1299.68	779.92	23.776
167.00	146.05	888.51	533.34	21.760	247.00	214.59	1304.88	783.04	23.797
168.00	146.91	893.72	536.46	21.791	248.00	215.44	1310.08	786.16	23.818
169.00	147.77	898.93	539.58	21.822	249.00	216.30	1315.28	789.28	23.839
170.00	148.62	904.14	542.71	21.853	250.00	217.15	1320.49	792.40	23.860
171.00	149.48	909.35	545.83	21.883	251.00	218.01	1325.69	795.51	23.881
172.00	150.34	914.56	548.96	21.914	252.00	218.87	1330.89	798.63	23.902
173.00	151.20	919.77	552.08	21.944	253.00	219.72	1336.09	801.75	23.922
174.00	152.06	924.98	555.20	21.974	254.00	220.58	1341.29	804.87	23.943
175.00	152.91	930.19	558.33	22.004	255.00	221.43	1346.49	807.99	23.963
176.00	153.77	935.40	561.45	22.034	256.00	222.29	1351.69	811.11	23.983
177.00	154.63	940.61	564.57	22.063	257.00	223.15	1356.89	814.23	24.004
178.00	155.48	945.81	567.70	22.092	258.00	224.00	1362.09	817.35	24.024
179.00	156.34	951.02	570.82	22.122	259.00	224.86	1367.29	820.47	24.044
180.00	157.20	956.23	573.94	22.151	260.00	225.71	1372.49	823.59	24.064
181.00	158.06	961.44	577.06	22.179	261.00	226.57	1377.69	826.71	24.084
182.00	158.91	966.64	580.19	22.208	262.00	227.42	1382.89	829.82	24.104
183.00	159.77	971.85	583.31	22.237	263.00	228.28	1388.09	832.94	24.124
184.00	160.63	977.06	586.44	22.265	264.00	229.14	1393.29	836.06	24.143
185.00	161.49	982.27	589.55	22.293	265.00	229.99	1398.49	839.18	24.163
186.00	162.34	987.47	592.68	22.321	266.00	230.85	1403.69	842.30	24.183
187.00	163.20	992.68	595.80	22.349	267.00	231.70	1408.89	845.42	24.202
188.00	164.06	997.89	598.92	22.377	268.00	232.56	1414.09	848.54	24.222
189.00	164.91	1003.09	602.04	22.405	269.00	233.41	1419.29	851.66	24.241
190.00	165.77	1008.30	605.17	22.432	270.00	234.27	1424.49	854.77	24.260
191.00	166.63	1013.51	608.29	22.459	271.00	235.13	1429.69	857.89	24.279
192.00	167.49	1018.71	611.41	22.487	272.00	235.98	1434.89	861.01	24.299
193.00	168.34	1023.92	614.53	22.514	273.00	236.84	1440.08	864.13	24.318
194.00	169.20	1029.12	617.65	22.541	274.00	237.69	1445.28	867.25	24.337
195.00	170.06	1034.33	620.78	22.567	275.00	238.55	1450.48	870.37	24.356
196.00	170.91	1039.54	623.90	22.594	276.00	239.40	1455.68	873.49	24.375
197.00	171.77	1044.74	627.02	22.620	277.00	240.26	1460.88	876.60	24.393
198.00	172.63	1049.95	630.14	22.647	278.00	241.11	1466.08	879.72	24.412
199.00	173.48	1055.15	633.26	22.673	279.00	241.97	1471.28	882.84	24.431
200.00	174.34	1060.36	636.38	22.699	280.00	242.83	1476.48	885.96	24.449
201.00	175.20	1065.56	639.51	22.725	281.00	243.68	1481.68	889.08	24.468
202.00	176.05	1070.77	642.63	22.751	282.00	244.54	1486.88	892.20	24.486
203.00	176.91	1075.97	645.75	22.777	283.00	245.39	1492.08	895.32	24.505
204.00	177.77	1081.18	648.87	22.802	284.00	246.25	1497.27	898.43	24.523
205.00	178.62	1086.38	651.99	22.828	285.00	247.10	1502.47	901.55	24.541
206.00	179.48	1091.58	655.11	22.853	286.00	247.96	1507.67	904.67	24.560
207.00	180.34	1096.79	658.23	22.878	287.00	248.81	1512.87	907.79	24.578
208.00	181.19	1101.99	661.35	22.903	288.00	249.67	1518.07	910.91	24.596
209.00	182.05	1107.20	664.47	22.928	289.00	250.52	1523.27	914.02	24.614
210.00	182.91	1112.40	667.60	22.953	290.00	251.38	1528.47	917.14	24.632
211.00	183.76	1117.60	670.72	22.978	291.00	252.24	1533.66	920.26	24.650
212.00	184.62	1122.81	673.84	23.002	292.00	253.09	1538.86	923.38	24.668
213.00	185.48	1128.01	676.96	23.027	293.00	253.95	1544.06	926.50	24.685
214.00	186.33	1133.22	680.08	23.051	294.00	254.80	1549.26	929.62	24.703
215.00	187.19	1138.42	683.20	23.076	295.00	255.66	1554.46	932.73	24.721
216.00	188.05	1143.62	686.32	23.100	296.00	256.51	1559.66	935.85	24.738
217.00	188.90	1148.83	689.44	23.124	297.00	257.37	1564.86	938.97	24.756
218.00	189.76	1154.03	692.56	23.148	298.00	258.22	1570.05	942.09	24.773
219.00	190.61	1159.23	695.68	23.171	299.00	259.08	1575.25	945.21	24.791
220.00	191.47	1164.43	698.80	23.195	300.00	259.93	1580.45	948.32	24.808

25.00 ATMOSPHERE ISO8AR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	52.50	333.50	200.51	16.391
					62.00	53.34	338.81	203.69	16.478
					63.00	54.18	344.11	206.86	16.563
					64.00	55.02	349.41	210.04	16.646
					65.00	55.86	354.71	213.21	16.728
					66.00	56.70	360.01	216.38	16.809
					67.00	57.54	365.30	219.55	16.889
					68.00	58.38	370.59	222.71	16.967
					69.00	59.21	375.88	225.88	17.044
					70.00	60.05	381.16	229.05	17.120
					71.00	60.89	386.45	232.21	17.195
					72.00	61.72	391.73	235.37	17.269
					73.00	62.56	397.00	238.53	17.342
					74.00	63.39	402.28	241.69	17.414
					75.00	64.23	407.55	244.85	17.484
					76.00	65.06	412.83	248.01	17.554
					77.00	65.90	418.10	251.16	17.623
					78.00	66.73	423.37	254.32	17.691
					79.00	67.57	428.63	257.47	17.758
					80.00	68.40	433.90	260.63	17.824
					81.00	69.23	439.16	263.78	17.890
					82.00	70.07	444.42	266.93	17.954
					83.00	70.90	449.68	270.08	18.018
					84.00	71.73	454.94	273.23	18.081
					85.00	72.56	460.20	276.38	18.143
					86.00	73.40	465.45	279.53	18.205
					87.00	74.23	470.71	282.68	18.266
					88.00	75.06	475.96	285.82	18.326
					89.00	75.89	481.22	288.97	18.385
					90.00	76.72	486.47	292.12	18.444
					91.00	77.55	491.72	295.26	18.502
					92.00	78.38	496.96	298.41	18.559
					93.00	79.21	502.21	301.55	18.616
					94.00	80.04	507.46	304.69	18.672
					95.00	80.87	512.70	307.84	18.727
					96.00	81.70	517.95	310.98	18.782
					97.00	82.53	523.19	314.12	18.837
					98.00	83.36	528.43	317.26	18.890
					99.00	84.19	533.68	320.40	18.944
					100.00	85.02	538.92	323.54	18.996
					101.00	85.85	544.16	326.68	19.048
					102.00	86.68	549.40	329.82	19.100
					103.00	87.51	554.63	332.96	19.151
					104.00	88.34	559.87	336.10	19.202
					105.00	89.16	565.11	339.24	19.252
					106.00	89.99	570.34	342.37	19.302
					107.00	90.82	575.58	345.51	19.351
					108.00	91.65	580.81	348.65	19.399
					109.00	92.48	586.05	351.78	19.448
					110.00	93.31	591.28	354.92	19.495
					111.00	94.13	596.51	358.06	19.543
					112.00	94.96	601.74	361.19	19.590
					113.00	95.79	606.97	364.33	19.636
					114.00	96.61	612.20	367.46	19.682
					115.00	97.44	617.43	370.59	19.728
					116.00	98.27	622.66	373.73	19.773
					117.00	99.10	627.89	376.86	19.818
					118.00	99.92	633.12	380.00	19.863
					119.00	100.75	638.35	383.13	19.907
					120.00	101.58	643.57	386.26	19.950
					121.00	102.40	648.80	389.39	19.994
					122.00	103.23	654.03	392.53	20.037
					123.00	104.06	659.25	395.66	20.079
					124.00	104.88	664.48	398.79	20.122
					125.00	105.71	669.70	401.92	20.164
					126.00	106.53	674.92	405.05	20.205
					127.00	107.36	680.15	408.18	20.247
					128.00	108.19	685.37	411.31	20.288
					129.00	109.01	690.59	414.45	20.328
					130.00	109.84	695.82	417.58	20.369
					131.00	110.66	701.04	420.71	20.409
					132.00	111.49	706.26	423.84	20.448
					133.00	112.31	711.48	426.96	20.488
					134.00	113.14	716.70	430.09	20.527
					135.00	113.97	721.92	433.22	20.566
					136.00	114.79	727.14	436.35	20.604
					137.00	115.62	732.36	439.48	20.642
					138.00	116.44	737.58	442.61	20.680
					139.00	117.27	742.80	445.74	20.718
					140.00	118.09	748.01	448.87	20.755
3.00	5.75	19.35	4.79	1.817					
4.00	5.89	21.32	6.41	2.405					
5.00	6.08	23.84	8.45	2.985					
6.00	6.32	26.91	10.90	3.542					
7.00	6.64	30.41	13.58	4.084					
8.00	7.05	34.63	16.78	4.646					
9.00	7.55	39.70	20.58	5.242					
10.00	8.15	45.37	24.74	5.840					
11.00	8.84	51.46	29.06	6.420					
12.00	9.63	57.81	33.42	6.972					
13.00	10.47	64.26	37.74	7.489					
14.00	11.36	70.74	41.97	7.968					
15.00	12.27	77.17	46.09	8.412					
16.00	13.19	83.52	50.10	8.822					
17.00	14.12	89.80	54.02	9.203					
18.00	15.06	95.99	57.85	9.557					
19.00	15.99	102.10	61.61	9.887					
20.00	16.91	108.14	65.30	10.197					
21.00	17.83	114.12	68.94	10.488					
22.00	18.75	120.03	72.53	10.764					
23.00	19.66	125.89	76.08	11.024					
24.00	20.57	131.71	79.59	11.272					
25.00	21.48	137.48	83.07	11.507					
26.00	22.38	143.21	86.53	11.732					
27.00	23.27	148.91	89.95	11.947					
28.00	24.16	154.57	93.36	12.153					
29.00	25.05	160.21	96.75	12.351					
30.00	25.94	165.82	100.11	12.541					
31.00	26.82	171.41	103.47	12.724					
32.00	27.70	176.98	106.80	12.901					
33.00	28.58	182.52	110.13	13.072					
34.00	29.45	188.05	113.44	13.237					
35.00	30.32	193.56	116.74	13.397					
36.00	31.19	199.06	120.04	13.551					
37.00	32.06	204.54	123.32	13.702					
38.00	32.93	210.01	126.59	13.847					
39.00	33.79	215.46	129.86	13.989					
40.00	34.66	220.91	133.12	14.127					
41.00	35.52	226.34	136.37	14.261					
42.00	36.38	231.76	139.62	14.392					
43.00	37.23	237.18	142.86	14.519					
44.00	38.09	242.58	146.09	14.643					
45.00	38.95	247.98	149.32	14.765					
46.00	39.80	253.37	152.55	14.883					
47.00	40.65	258.75	155.77	14.999					
48.00	41.50	264.12	158.98	15.112					
49.00	42.36	269.49	162.20	15.223					
50.00	43.21	274.85	165.41	15.331					
51.00	44.05	280.21	168.61	15.437					
52.00	44.90	285.56	171.81	15.541					
53.00	45.75	290.90	175.01	15.643					
54.00	46.60	296.24	178.21	15.743					
55.00	47.44	301.58	181.40	15.841					
56.00	48.29	306.91	184.59	15.937					
57.00	49.13	312.24	187.78	16.031					
58.00	49.97	317.56	190.97	16.123					
59.00	50.82	322.88	194.15	16.214					
60.00	51.66	328.19	197.33	16.304					

25.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	118.92	753.23	452.00	20.793	221.00	184.78	1169.95	701.87	23.134
142.00	119.74	758.45	455.12	20.829	222.00	185.60	1175.15	705.00	23.157
143.00	120.57	763.67	458.25	20.866	223.00	186.42	1180.36	708.12	23.181
144.00	121.39	768.88	461.38	20.902	224.00	187.24	1185.56	711.24	23.204
145.00	122.22	774.10	464.51	20.938	225.00	188.07	1190.76	714.36	23.227
146.00	123.04	779.32	467.63	20.974	226.00	188.89	1195.96	717.48	23.250
147.00	123.86	784.53	470.76	21.010	227.00	189.71	1201.17	720.60	23.273
148.00	124.69	789.75	473.89	21.045	228.00	190.53	1206.37	723.72	23.296
149.00	125.51	794.96	477.01	21.080	229.00	191.35	1211.57	726.84	23.319
150.00	126.34	800.18	480.14	21.115	230.00	192.18	1216.77	729.96	23.341
151.00	127.16	805.39	483.27	21.150	231.00	193.00	1221.98	733.08	23.364
152.00	127.99	810.61	486.39	21.184	232.00	193.82	1227.18	736.20	23.386
153.00	128.81	815.82	489.52	21.219	233.00	194.64	1232.38	739.32	23.409
154.00	129.64	821.04	492.65	21.253	234.00	195.46	1237.58	742.44	23.431
155.00	130.46	826.25	495.77	21.286	235.00	196.29	1242.79	745.56	23.453
156.00	131.28	831.46	498.90	21.320	236.00	197.11	1247.99	748.68	23.475
157.00	132.11	836.68	502.02	21.353	237.00	197.93	1253.19	751.80	23.497
158.00	132.93	841.89	505.15	21.386	238.00	198.75	1258.39	754.92	23.519
159.00	133.76	847.10	508.27	21.419	239.00	199.57	1263.59	758.04	23.541
160.00	134.58	852.32	511.40	21.452	240.00	200.39	1268.80	761.16	23.563
161.00	135.40	857.53	514.52	21.484	241.00	201.22	1274.00	764.28	23.584
162.00	136.23	862.74	517.65	21.517	242.00	202.04	1279.20	767.40	23.606
163.00	137.05	867.95	520.77	21.549	243.00	202.86	1284.40	770.52	23.627
164.00	137.87	873.16	523.90	21.580	244.00	203.68	1289.60	773.64	23.649
165.00	138.70	878.37	527.02	21.612	245.00	204.50	1294.80	776.76	23.670
166.00	139.52	883.59	530.15	21.644	246.00	205.33	1300.00	779.87	23.691
167.00	140.35	888.80	533.27	21.675	247.00	206.15	1305.21	782.99	23.712
168.00	141.17	894.01	536.40	21.706	248.00	206.97	1310.41	786.11	23.733
169.00	141.99	899.22	539.52	21.737	249.00	207.79	1315.61	789.23	23.754
170.00	142.82	904.43	542.65	21.768	250.00	208.61	1320.81	792.35	23.775
171.00	143.64	909.64	545.77	21.798	251.00	209.43	1326.01	795.47	23.796
172.00	144.46	914.85	548.89	21.829	252.00	210.26	1331.21	798.59	23.817
173.00	145.29	920.06	552.02	21.859	253.00	211.08	1336.41	801.71	23.837
174.00	146.11	925.27	555.14	21.889	254.00	211.90	1341.61	804.83	23.858
175.00	146.93	930.48	558.27	21.919	255.00	212.72	1346.81	807.95	23.878
176.00	147.76	935.69	561.39	21.948	256.00	213.54	1352.01	811.07	23.898
177.00	148.58	940.90	564.51	21.978	257.00	214.36	1357.21	814.19	23.919
178.00	149.40	946.10	567.64	22.007	258.00	215.19	1362.41	817.31	23.939
179.00	150.23	951.31	570.76	22.036	259.00	216.01	1367.61	820.43	23.959
180.00	151.05	956.52	573.88	22.065	260.00	216.83	1372.81	823.55	23.979
181.00	151.87	961.73	577.01	22.094	261.00	217.65	1378.01	826.66	23.999
182.00	152.70	966.94	580.13	22.123	262.00	218.47	1383.22	829.78	24.019
183.00	153.52	972.15	583.25	22.152	263.00	219.29	1388.42	832.90	24.039
184.00	154.34	977.35	586.38	22.180	264.00	220.12	1393.62	836.02	24.058
185.00	155.17	982.56	589.50	22.208	265.00	220.94	1398.82	839.14	24.078
186.00	155.99	987.77	592.62	22.236	266.00	221.76	1404.02	842.26	24.098
187.00	156.81	992.98	595.74	22.264	267.00	222.58	1409.22	845.38	24.117
188.00	157.63	998.18	598.87	22.292	268.00	223.40	1414.42	848.50	24.137
189.00	158.46	1003.39	602.00	22.320	269.00	224.22	1419.62	851.62	24.156
190.00	159.28	1008.60	605.11	22.347	270.00	225.04	1424.81	854.73	24.175
191.00	160.10	1013.80	608.23	22.374	271.00	225.87	1430.01	857.85	24.195
192.00	160.93	1019.01	611.36	22.402	272.00	226.69	1435.21	860.97	24.214
193.00	161.75	1024.22	614.48	22.429	273.00	227.51	1440.41	864.09	24.233
194.00	162.57	1029.42	617.60	22.456	274.00	228.33	1445.61	867.21	24.252
195.00	163.39	1034.63	620.72	22.482	275.00	229.15	1450.81	870.33	24.271
196.00	164.22	1039.84	623.84	22.509	276.00	229.97	1456.01	873.45	24.290
197.00	165.04	1045.04	626.97	22.535	277.00	230.79	1461.21	876.57	24.308
198.00	165.86	1050.25	630.09	22.562	278.00	231.62	1466.41	879.68	24.327
199.00	166.68	1055.45	633.21	22.588	279.00	232.44	1471.61	882.80	24.346
200.00	167.51	1060.66	636.33	22.614	280.00	233.26	1476.81	885.92	24.364
201.00	168.33	1065.86	639.45	22.640	281.00	234.08	1482.01	889.04	24.383
202.00	169.15	1071.07	642.57	22.666	282.00	234.90	1487.21	892.16	24.401
203.00	169.97	1076.27	645.70	22.692	283.00	235.72	1492.41	895.28	24.420
204.00	170.80	1081.48	648.82	22.717	284.00	236.54	1497.61	898.40	24.438
205.00	171.62	1086.68	651.94	22.743	285.00	237.37	1502.81	901.51	24.456
206.00	172.44	1091.89	655.06	22.768	286.00	238.19	1508.01	904.63	24.475
207.00	173.26	1097.09	658.18	22.793	287.00	239.01	1513.20	907.75	24.493
208.00	174.09	1102.30	661.30	22.818	288.00	239.83	1518.40	910.87	24.511
209.00	174.91	1107.50	664.42	22.843	289.00	240.65	1523.60	913.99	24.529
210.00	175.73	1112.71	667.55	22.868	290.00	241.47	1528.80	917.11	24.547
211.00	176.55	1117.91	670.67	22.893	291.00	242.29	1534.00	920.22	24.565
212.00	177.38	1123.12	673.79	22.917	292.00	243.11	1539.20	923.34	24.583
213.00	178.20	1128.32	676.91	22.942	293.00	243.94	1544.40	926.46	24.600
214.00	179.02	1133.52	680.03	22.966	294.00	244.76	1549.60	929.58	24.618
215.00	179.84	1138.73	683.15	22.990	295.00	245.58	1554.79	932.70	24.636
216.00	180.67	1143.93	686.27	23.015	296.00	246.40	1559.99	935.82	24.653
217.00	181.49	1149.14	689.39	23.039	297.00	247.22	1565.19	938.93	24.671
218.00	182.31	1154.34	692.51	23.063	298.00	248.04	1570.39	942.05	24.688
219.00	183.13	1159.54	695.63	23.086	299.00	248.86	1575.59	945.17	24.706
220.00	183.95	1164.75	698.75	23.110	300.00	249.68	1580.79	948.29	24.723

26.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	50.58	333.62	200.36	16.308
					62.00	51.39	338.93	203.54	16.394
					63.00	52.20	344.24	206.72	16.479
					64.00	53.01	349.55	209.89	16.563
					65.00	53.82	354.85	213.07	16.645
					66.00	54.62	360.15	216.24	16.726
					67.00	55.43	365.44	219.41	16.805
					68.00	56.24	370.73	222.58	16.884
					69.00	57.04	376.03	225.75	16.961
					70.00	57.85	381.31	228.91	17.037
					71.00	58.65	386.60	232.08	17.112
					72.00	59.46	391.88	235.24	17.186
					73.00	60.26	397.16	238.40	17.259
					74.00	61.07	402.44	241.56	17.331
					75.00	61.87	407.72	244.72	17.401
					76.00	62.67	412.99	247.88	17.471
					77.00	63.47	418.27	251.04	17.540
					78.00	64.28	423.54	254.20	17.608
					79.00	65.08	428.81	257.35	17.675
					80.00	65.88	434.07	260.51	17.742
					81.00	66.68	439.34	263.66	17.807
					82.00	67.48	444.60	266.81	17.872
					83.00	68.29	449.86	269.97	17.935
					84.00	69.09	455.13	273.12	17.998
					85.00	69.89	460.39	276.27	18.061
					86.00	70.69	465.64	279.42	18.122
					87.00	71.49	470.90	282.57	18.183
					88.00	72.29	476.16	285.71	18.243
					89.00	73.09	481.41	288.86	18.302
					90.00	73.89	486.66	292.01	18.361
3.00	5.72	19.90	4.82	1.805	91.00	74.69	491.91	295.15	18.419
4.00	5.86	21.85	6.42	2.389	92.00	75.48	497.17	298.30	18.477
5.00	6.04	24.34	8.43	2.964	93.00	76.28	502.41	301.44	18.533
6.00	6.28	27.38	10.85	3.514	94.00	77.08	507.66	304.59	18.589
7.00	6.58	30.83	13.49	4.048	95.00	77.88	512.91	307.73	18.645
8.00	6.97	34.98	16.63	4.601	96.00	78.68	518.16	310.88	18.700
9.00	7.44	39.97	20.37	5.188	97.00	79.48	523.40	314.02	18.754
10.00	8.00	45.55	24.47	5.776	98.00	80.27	528.65	317.16	18.808
					99.00	81.07	533.89	320.30	18.861
					100.00	81.87	539.13	323.44	18.914
11.00	8.66	51.55	28.74	6.347	101.00	82.67	544.37	326.58	18.966
12.00	9.39	57.81	33.06	6.892	102.00	83.46	549.61	329.72	19.018
13.00	10.19	64.20	37.36	7.403	103.00	84.26	554.85	332.86	19.069
14.00	11.03	70.63	41.57	7.879	104.00	85.06	560.09	336.00	19.119
15.00	11.89	77.03	45.69	8.321	105.00	85.86	565.33	339.14	19.170
16.00	12.78	83.37	49.71	8.730	106.00	86.65	570.57	342.28	19.219
17.00	13.67	89.64	53.63	9.110	107.00	87.45	575.80	345.42	19.268
18.00	14.56	95.83	57.48	9.464	108.00	88.25	581.04	348.56	19.317
19.00	15.45	101.94	61.24	9.795	109.00	89.04	586.27	351.69	19.365
20.00	16.34	107.99	64.95	10.105	110.00	89.84	591.51	354.83	19.413
21.00	17.22	113.97	68.60	10.397	111.00	90.63	596.74	357.97	19.460
22.00	18.11	119.90	72.20	10.673	112.00	91.43	601.97	361.10	19.507
23.00	18.98	125.77	75.76	10.934	113.00	92.23	607.21	364.24	19.554
24.00	19.86	131.59	79.28	11.182	114.00	93.02	612.44	367.37	19.600
25.00	20.73	137.37	82.77	11.418	115.00	93.82	617.67	370.51	19.646
26.00	21.59	143.12	86.23	11.643	116.00	94.61	622.90	373.64	19.691
27.00	22.45	148.82	89.67	11.858	117.00	95.41	628.13	376.78	19.736
28.00	23.31	154.50	93.08	12.065	118.00	96.20	633.36	379.91	19.780
29.00	24.17	160.15	96.47	12.263	119.00	97.00	638.59	383.04	19.825
30.00	25.02	165.77	99.85	12.453	120.00	97.79	643.82	386.18	19.868
31.00	25.87	171.36	103.21	12.637	121.00	98.59	649.04	389.31	19.912
32.00	26.72	176.94	106.55	12.814	122.00	99.38	654.27	392.44	19.955
33.00	27.56	182.49	109.88	12.985	123.00	100.18	659.50	395.58	19.997
34.00	28.40	188.03	113.20	13.150	124.00	100.97	664.72	398.71	20.040
35.00	29.24	193.55	116.51	13.310	125.00	101.77	669.95	401.84	20.082
36.00	30.08	199.05	119.81	13.465	126.00	102.56	675.17	404.97	20.123
37.00	30.92	204.54	123.09	13.615	127.00	103.36	680.40	408.10	20.165
38.00	31.75	210.02	126.37	13.761	128.00	104.15	685.62	411.24	20.206
39.00	32.58	215.48	129.64	13.903	129.00	104.94	690.85	414.37	20.246
40.00	33.41	220.93	132.91	14.041	130.00	105.74	696.07	417.50	20.287
41.00	34.24	226.37	136.16	14.176	131.00	106.53	701.29	420.63	20.327
42.00	35.07	231.80	139.41	14.306	132.00	107.33	706.51	423.76	20.366
43.00	35.89	237.22	142.66	14.434	133.00	108.12	711.74	426.89	20.406
44.00	36.72	242.63	145.90	14.558	134.00	108.91	716.96	430.02	20.445
45.00	37.54	248.03	149.13	14.680	135.00	109.71	722.18	433.15	20.484
46.00	38.36	253.42	152.36	14.798	136.00	110.50	727.40	436.28	20.522
47.00	39.18	258.81	155.58	14.914	137.00	111.30	732.62	439.41	20.560
48.00	40.00	264.19	158.80	15.027	138.00	112.09	737.84	442.54	20.598
49.00	40.82	269.56	162.02	15.138	139.00	112.88	743.06	445.67	20.636
50.00	41.64	274.93	165.23	15.247	140.00	113.68	748.28	448.79	20.673
51.00	42.46	280.29	168.44	15.353					
52.00	43.27	285.64	171.64	15.457					
53.00	44.09	290.99	174.84	15.559					
54.00	44.90	296.34	178.04	15.659					
55.00	45.72	301.68	181.24	15.757					
56.00	46.53	307.01	184.43	15.853					
57.00	47.34	312.34	187.62	15.947					
58.00	48.15	317.67	190.81	16.040					
59.00	48.96	322.99	193.99	16.131					
60.00	49.77	328.31	197.18	16.220					

26.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	114.47	753.50	451.92	20.711	221.00	177.81	1170.26	701.83	23.052
142.00	115.26	758.71	455.05	20.747	222.00	178.60	1175.47	704.95	23.076
143.00	116.06	763.93	458.18	20.784	223.00	179.39	1180.67	708.07	23.099
144.00	116.85	769.15	461.31	20.820	224.00	180.18	1185.87	711.19	23.122
145.00	117.64	774.37	464.44	20.857	225.00	180.97	1191.08	714.31	23.145
146.00	118.44	779.58	467.56	20.892	226.00	181.76	1196.28	717.43	23.168
147.00	119.23	784.80	470.69	20.928	227.00	182.55	1201.48	720.55	23.191
148.00	120.02	790.02	473.82	20.963	228.00	183.34	1206.68	723.67	23.214
149.00	120.81	795.23	476.95	20.998	229.00	184.13	1211.89	726.79	23.237
150.00	121.61	800.45	480.07	21.033	230.00	184.92	1217.09	729.91	23.260
151.00	122.40	805.67	483.20	21.068	231.00	185.71	1222.29	733.03	23.282
152.00	123.19	810.88	486.33	21.102	232.00	186.50	1227.50	736.15	23.305
153.00	123.99	816.10	489.45	21.137	233.00	187.29	1232.70	739.27	23.327
154.00	124.78	821.31	492.58	21.171	234.00	188.08	1237.90	742.39	23.349
155.00	125.57	826.53	495.71	21.204	235.00	188.87	1243.10	745.51	23.372
156.00	126.36	831.74	498.83	21.238	236.00	189.66	1248.31	748.63	23.394
157.00	127.16	836.95	501.96	21.271	237.00	190.45	1253.51	751.75	23.416
158.00	127.95	842.17	505.08	21.304	238.00	191.24	1258.71	754.87	23.438
159.00	128.74	847.38	508.21	21.337	239.00	192.03	1263.91	757.99	23.459
160.00	129.53	852.59	511.34	21.370	240.00	192.83	1269.11	761.11	23.481
161.00	130.33	857.81	514.46	21.402	241.00	193.62	1274.32	764.23	23.503
162.00	131.12	863.02	517.59	21.435	242.00	194.41	1279.52	767.35	23.524
163.00	131.91	868.23	520.71	21.467	243.00	195.20	1284.72	770.47	23.546
164.00	132.70	873.45	523.84	21.499	244.00	195.99	1289.92	773.59	23.567
165.00	133.50	878.66	526.96	21.530	245.00	196.78	1295.12	776.71	23.588
166.00	134.29	883.87	530.09	21.562	246.00	197.57	1300.33	779.83	23.610
167.00	135.08	889.08	533.21	21.593	247.00	198.36	1305.53	782.95	23.631
168.00	135.87	894.29	536.34	21.624	248.00	199.15	1310.73	786.07	23.652
169.00	136.66	899.50	539.46	21.655	249.00	199.94	1315.93	789.19	23.673
170.00	137.46	904.71	542.59	21.686	250.00	200.73	1321.13	792.31	23.693
171.00	138.25	909.92	545.71	21.716	251.00	201.52	1326.33	795.43	23.714
172.00	139.04	915.14	548.83	21.747	252.00	202.31	1331.53	798.55	23.735
173.00	139.83	920.35	551.96	21.777	253.00	203.10	1336.73	801.67	23.756
174.00	140.62	925.56	555.08	21.807	254.00	203.89	1341.94	804.79	23.776
175.00	141.41	930.77	558.21	21.837	255.00	204.68	1347.14	807.91	23.796
176.00	142.21	935.98	561.33	21.867	256.00	205.47	1352.34	811.03	23.817
177.00	143.00	941.19	564.45	21.896	257.00	206.26	1357.54	814.15	23.837
178.00	143.79	946.39	567.58	21.925	258.00	207.05	1362.74	817.27	23.857
179.00	144.58	951.60	570.70	21.955	259.00	207.84	1367.94	820.38	23.877
180.00	145.37	956.81	573.82	21.984	260.00	208.63	1373.14	823.50	23.897
181.00	146.16	962.02	576.95	22.013	261.00	209.42	1378.34	826.62	23.917
182.00	146.96	967.23	580.07	22.041	262.00	210.21	1383.54	829.74	23.937
183.00	147.75	972.44	583.20	22.070	263.00	211.00	1388.74	832.86	23.957
184.00	148.54	977.65	586.32	22.098	264.00	211.79	1393.94	835.98	23.977
185.00	149.33	982.86	589.44	22.126	265.00	212.58	1399.14	839.10	23.997
186.00	150.12	988.06	592.56	22.154	266.00	213.37	1404.34	842.22	24.016
187.00	150.91	993.27	595.69	22.182	267.00	214.16	1409.54	845.34	24.036
188.00	151.70	998.48	598.81	22.210	268.00	214.95	1414.74	848.46	24.055
189.00	152.50	1003.69	601.93	22.238	269.00	215.74	1419.94	851.58	24.074
190.00	153.29	1008.90	605.06	22.265	270.00	216.53	1425.14	854.69	24.094
191.00	154.08	1014.10	608.18	22.293	271.00	217.32	1430.34	857.81	24.113
192.00	154.87	1019.31	611.30	22.320	272.00	218.11	1435.54	860.93	24.132
193.00	155.66	1024.52	614.42	22.347	273.00	218.90	1440.74	864.05	24.151
194.00	156.45	1029.72	617.55	22.374	274.00	219.69	1445.94	867.17	24.170
195.00	157.24	1034.93	620.67	22.401	275.00	220.48	1451.14	870.29	24.189
196.00	158.03	1040.14	623.79	22.427	276.00	221.27	1456.34	873.41	24.208
197.00	158.83	1045.34	626.91	22.454	277.00	222.06	1461.54	876.53	24.227
198.00	159.62	1050.55	630.03	22.480	278.00	222.85	1466.74	879.65	24.246
199.00	160.41	1055.76	633.16	22.506	279.00	223.64	1471.94	882.76	24.264
200.00	161.20	1060.96	636.28	22.532	280.00	224.43	1477.14	885.88	24.283
201.00	161.99	1066.17	639.40	22.558	281.00	225.22	1482.34	889.00	24.301
202.00	162.78	1071.37	642.52	22.584	282.00	226.01	1487.54	892.12	24.320
203.00	163.57	1076.58	645.64	22.610	283.00	226.80	1492.74	895.24	24.338
204.00	164.36	1081.78	648.77	22.635	284.00	227.59	1497.94	898.36	24.357
205.00	165.15	1086.99	651.89	22.661	285.00	228.38	1503.14	901.48	24.375
206.00	165.95	1092.20	655.01	22.686	286.00	229.17	1508.34	904.59	24.393
207.00	166.74	1097.40	658.13	22.711	287.00	229.96	1513.54	907.71	24.411
208.00	167.53	1102.61	661.25	22.737	288.00	230.75	1518.74	910.83	24.429
209.00	168.32	1107.81	664.37	22.761	289.00	231.54	1523.94	913.95	24.447
210.00	169.11	1113.02	667.50	22.786	290.00	232.33	1529.13	917.07	24.465
211.00	169.90	1118.22	670.62	22.811	291.00	233.12	1534.33	920.19	24.483
212.00	170.69	1123.42	673.74	22.836	292.00	233.90	1539.53	923.31	24.501
213.00	171.48	1128.63	676.86	22.860	293.00	234.69	1544.73	926.42	24.519
214.00	172.27	1133.83	679.98	22.885	294.00	235.48	1549.93	929.54	24.536
215.00	173.06	1139.04	683.10	22.909	295.00	236.27	1555.13	932.66	24.554
216.00	173.85	1144.24	686.22	22.933	296.00	237.06	1560.33	935.78	24.572
217.00	174.64	1149.45	689.34	22.957	297.00	237.85	1565.53	938.90	24.589
218.00	175.43	1154.65	692.46	22.981	298.00	238.64	1570.73	942.02	24.607
219.00	176.23	1159.85	695.58	23.005	299.00	239.43	1575.92	945.13	24.624
220.00	177.02	1165.06	698.71	23.028	300.00	240.22	1581.12	948.25	24.642

27.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	48.81	333.75	200.21	16.227
					62.00	49.59	339.06	203.39	16.314
					63.00	50.37	344.37	206.57	16.399
					64.00	51.15	349.68	209.75	16.482
					65.00	51.93	354.98	212.92	16.565
					66.00	52.70	360.29	216.10	16.646
					67.00	53.48	365.58	219.27	16.725
					68.00	54.26	370.88	222.44	16.804
					69.00	55.03	376.17	225.61	16.881
					70.00	55.81	381.46	228.78	16.957
					71.00	56.58	386.75	231.95	17.032
					72.00	57.36	392.04	235.11	17.106
					73.00	58.13	397.32	238.27	17.179
					74.00	58.91	402.60	241.44	17.251
					75.00	59.68	407.88	244.60	17.322
					76.00	60.46	413.16	247.76	17.391
					77.00	61.23	418.44	250.92	17.460
					78.00	62.00	423.71	254.08	17.528
					79.00	62.78	428.98	257.23	17.596
					80.00	63.55	434.25	260.39	17.662
					81.00	64.32	439.52	263.54	17.727
					82.00	65.09	444.78	266.70	17.792
					83.00	65.87	450.05	269.85	17.856
					84.00	66.64	455.31	273.00	17.919
					85.00	67.41	460.57	276.15	17.981
					86.00	68.18	465.83	279.31	18.043
					87.00	68.95	471.09	282.46	18.103
					88.00	69.72	476.35	285.60	18.164
					89.00	70.49	481.61	288.75	18.223
					90.00	71.26	486.86	291.90	18.282
3.00	5.70	20.44	4.85	1.794					
4.00	5.83	22.38	6.43	2.373					
5.00	6.00	24.85	8.42	2.943					
6.00	6.23	27.86	10.80	3.487					
7.00	6.53	31.25	13.40	4.014					
8.00	6.89	35.34	16.49	4.559					
9.00	7.34	40.26	20.18	5.137					
10.00	7.87	45.75	24.22	5.716					
11.00	8.49	51.66	28.44	6.279	91.00	72.03	492.11	295.05	18.340
12.00	9.18	57.84	32.72	6.816	92.00	72.80	497.37	298.19	18.397
13.00	9.93	64.17	36.99	7.322	93.00	73.57	502.62	301.34	18.454
14.00	10.73	70.54	41.19	7.795	94.00	74.34	507.87	304.49	18.510
15.00	11.55	76.91	45.31	8.234	95.00	75.11	513.12	307.63	18.566
16.00	12.39	83.24	49.33	8.643	96.00	75.88	518.36	310.77	18.620
17.00	13.25	89.50	53.26	9.022	97.00	76.65	523.61	313.92	18.675
18.00	14.10	95.69	57.11	9.376	98.00	77.42	528.86	317.06	18.729
19.00	14.96	101.80	60.89	9.707	99.00	78.18	534.10	320.20	18.782
20.00	15.81	107.86	64.60	10.017	100.00	78.95	539.35	323.35	18.835
21.00	16.66	113.85	68.26	10.309	101.00	79.72	544.59	326.49	18.887
22.00	17.51	119.78	71.87	10.585	102.00	80.49	549.83	329.63	18.938
23.00	18.35	125.66	75.44	10.847	103.00	81.26	555.07	332.77	18.990
24.00	19.20	131.49	78.97	11.095	104.00	82.02	560.31	335.91	19.040
25.00	20.03	137.28	82.47	11.331	105.00	82.79	565.55	339.05	19.090
26.00	20.87	143.03	85.94	11.557	106.00	83.56	570.79	342.19	19.140
27.00	21.70	148.75	89.38	11.773	107.00	84.33	576.03	345.33	19.189
28.00	22.53	154.43	92.81	11.979	108.00	85.09	581.27	348.46	19.238
29.00	23.35	160.09	96.21	12.178	109.00	85.86	586.50	351.60	19.286
30.00	24.17	165.72	99.59	12.369	110.00	86.63	591.74	354.74	19.334
31.00	24.99	171.32	102.95	12.552	111.00	87.39	596.97	357.88	19.381
32.00	25.81	176.91	106.30	12.730	112.00	88.16	602.21	361.01	19.428
33.00	26.62	182.47	109.64	12.901	113.00	88.93	607.44	364.15	19.475
34.00	27.43	188.01	112.96	13.066	114.00	89.69	612.67	367.29	19.521
35.00	28.24	193.54	116.28	13.227	115.00	90.46	617.91	370.42	19.567
36.00	29.05	199.05	119.58	13.382	116.00	91.23	623.14	373.56	19.612
37.00	29.85	204.55	122.87	13.532	117.00	91.99	628.37	376.69	19.657
38.00	30.66	210.03	126.15	13.679	118.00	92.76	633.60	379.83	19.701
39.00	31.46	215.50	129.43	13.821	119.00	93.52	638.83	382.96	19.745
40.00	32.26	220.95	132.70	13.959	120.00	94.29	644.06	386.09	19.789
41.00	33.06	226.40	135.96	14.093	121.00	95.06	649.29	389.23	19.833
42.00	33.86	231.84	139.21	14.224	122.00	95.82	654.52	392.36	19.876
43.00	34.65	237.26	142.46	14.352	123.00	96.59	659.74	395.49	19.918
44.00	35.45	242.68	145.70	14.476	124.00	97.35	664.97	398.63	19.961
45.00	36.24	248.09	148.94	14.598	125.00	98.12	670.20	401.76	20.003
46.00	37.03	253.48	152.17	14.717	126.00	98.88	675.42	404.89	20.044
47.00	37.82	258.88	155.40	14.833	127.00	99.65	680.65	408.03	20.086
48.00	38.61	264.26	158.62	14.946	128.00	100.41	685.87	411.16	20.127
49.00	39.40	269.64	161.84	15.057	129.00	101.18	691.10	414.29	20.167
50.00	40.19	275.01	165.05	15.165	130.00	101.94	696.32	417.42	20.208
51.00	40.98	280.37	168.26	15.272	131.00	102.71	701.55	420.55	20.248
52.00	41.76	285.73	171.47	15.376	132.00	103.47	706.77	423.68	20.287
53.00	42.55	291.09	174.68	15.478	133.00	104.24	711.99	426.81	20.327
54.00	43.34	296.44	177.88	15.578	134.00	105.00	717.21	429.94	20.366
55.00	44.12	301.78	181.08	15.676	135.00	105.77	722.44	433.07	20.405
56.00	44.90	307.12	184.27	15.772	136.00	106.53	727.66	436.20	20.443
57.00	45.69	312.45	187.46	15.866	137.00	107.30	732.88	439.33	20.481
58.00	46.47	317.78	190.65	15.959	138.00	108.06	738.10	442.46	20.519
59.00	47.25	323.11	193.84	16.050	139.00	108.82	743.32	445.59	20.557
60.00	48.03	328.43	197.03	16.139	140.00	109.59	748.54	448.72	20.595

27.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	110.35	753.76	451.85	20.632	221.00	171.35	1170.57	701.78	22.973
142.00	111.12	758.98	454.98	20.669	222.00	172.11	1175.78	704.90	22.997
143.00	111.88	764.20	458.11	20.705	223.00	172.88	1180.98	708.02	23.020
144.00	112.65	769.42	461.24	20.742	224.00	173.64	1186.19	711.14	23.044
145.00	113.41	774.64	464.36	20.778	225.00	174.40	1191.39	714.26	23.067
146.00	114.17	779.85	467.49	20.814	226.00	175.16	1196.59	717.38	23.090
147.00	114.94	785.07	470.62	20.849	227.00	175.92	1201.80	720.50	23.113
148.00	115.70	790.29	473.75	20.885	228.00	176.68	1207.00	723.62	23.136
149.00	116.46	795.51	476.88	20.920	229.00	177.44	1212.20	726.74	23.158
150.00	117.23	800.72	480.00	20.955	230.00	178.20	1217.41	729.87	23.181
151.00	117.99	805.94	483.13	20.989	231.00	178.97	1222.61	732.99	23.204
152.00	118.76	811.15	486.26	21.024	232.00	179.73	1227.81	736.11	23.226
153.00	119.52	816.37	489.39	21.058	233.00	180.49	1233.02	739.23	23.249
154.00	120.28	821.59	492.51	21.092	234.00	181.25	1238.22	742.35	23.271
155.00	121.05	826.80	495.64	21.126	235.00	182.01	1243.42	745.47	23.293
156.00	121.81	832.02	498.77	21.159	236.00	182.77	1248.62	748.59	23.315
157.00	122.57	837.23	501.89	21.192	237.00	183.53	1253.83	751.71	23.337
158.00	123.34	842.45	505.02	21.226	238.00	184.29	1259.03	754.83	23.359
159.00	124.10	847.66	508.14	21.258	239.00	185.06	1264.23	757.95	23.381
160.00	124.86	852.87	511.27	21.291	240.00	185.82	1269.43	761.07	23.403
161.00	125.63	858.09	514.40	21.324	241.00	186.58	1274.64	764.19	23.424
162.00	126.39	863.30	517.52	21.356	242.00	187.34	1279.84	767.31	23.446
163.00	127.15	868.51	520.65	21.388	243.00	188.10	1285.04	770.43	23.467
164.00	127.91	873.73	523.77	21.420	244.00	188.86	1290.24	773.55	23.489
165.00	128.68	878.94	526.90	21.452	245.00	189.62	1295.44	776.67	23.510
166.00	129.44	884.15	530.02	21.483	246.00	190.38	1300.65	779.79	23.531
167.00	130.20	889.36	533.15	21.514	247.00	191.14	1305.85	782.91	23.552
168.00	130.97	894.58	536.27	21.545	248.00	191.90	1311.05	786.03	23.573
169.00	131.73	899.79	539.40	21.576	249.00	192.67	1316.25	789.15	23.594
170.00	132.49	905.00	542.52	21.607	250.00	193.43	1321.45	792.27	23.615
171.00	133.25	910.21	545.65	21.638	251.00	194.19	1326.66	795.39	23.636
172.00	134.02	915.42	548.77	21.668	252.00	194.95	1331.86	798.51	23.656
173.00	134.78	920.63	551.90	21.698	253.00	195.71	1337.06	801.63	23.677
174.00	135.54	925.84	555.02	21.728	254.00	196.47	1342.26	804.75	23.697
175.00	136.30	931.06	558.15	21.758	255.00	197.23	1347.46	807.87	23.718
176.00	137.07	936.27	561.27	21.788	256.00	197.99	1352.66	810.99	23.738
177.00	137.83	941.48	564.40	21.817	257.00	198.75	1357.86	814.10	23.759
178.00	138.59	946.69	567.52	21.847	258.00	199.51	1363.06	817.22	23.779
179.00	139.35	951.90	570.64	21.876	259.00	200.27	1368.27	820.34	23.799
180.00	140.12	957.11	573.77	21.905	260.00	201.04	1373.47	823.46	23.819
181.00	140.88	962.32	576.89	21.934	261.00	201.80	1378.67	826.58	23.839
182.00	141.64	967.52	580.01	21.963	262.00	202.56	1383.87	829.70	23.859
183.00	142.40	972.73	583.14	21.991	263.00	203.32	1389.07	832.82	23.879
184.00	143.17	977.94	586.26	22.019	264.00	204.08	1394.27	835.94	23.898
185.00	143.93	983.15	589.39	22.048	265.00	204.84	1399.47	839.06	23.918
186.00	144.69	988.36	592.51	22.076	266.00	205.60	1404.67	842.18	23.938
187.00	145.45	993.57	595.63	22.104	267.00	206.36	1409.87	845.30	23.957
188.00	146.22	998.78	598.75	22.131	268.00	207.12	1415.07	848.42	23.977
189.00	146.98	1003.98	601.88	22.159	269.00	207.88	1420.27	851.54	23.996
190.00	147.74	1009.19	605.00	22.187	270.00	208.64	1425.47	854.66	24.015
191.00	148.50	1014.40	608.12	22.214	271.00	209.40	1430.67	857.77	24.034
192.00	149.26	1019.61	611.25	22.241	272.00	210.17	1435.87	860.89	24.054
193.00	150.03	1024.82	614.37	22.268	273.00	210.93	1441.07	864.01	24.073
194.00	150.79	1030.02	617.49	22.295	274.00	211.69	1446.27	867.13	24.092
195.00	151.55	1035.23	620.61	22.322	275.00	212.45	1451.47	870.25	24.111
196.00	152.31	1040.44	623.74	22.348	276.00	213.21	1456.67	873.37	24.129
197.00	153.07	1045.64	626.86	22.375	277.00	213.97	1461.87	876.49	24.148
198.00	153.84	1050.85	629.98	22.401	278.00	214.73	1467.07	879.61	24.167
199.00	154.60	1056.06	633.10	22.428	279.00	215.49	1472.27	882.73	24.186
200.00	155.36	1061.26	636.23	22.454	280.00	216.25	1477.47	885.84	24.204
201.00	156.12	1066.47	639.35	22.480	281.00	217.01	1482.67	888.96	24.223
202.00	156.88	1071.68	642.47	22.505	282.00	217.77	1487.87	892.08	24.241
203.00	157.64	1076.88	645.59	22.531	283.00	218.53	1493.07	895.20	24.260
204.00	158.41	1082.09	648.71	22.557	284.00	219.29	1498.27	898.32	24.278
205.00	159.17	1087.30	651.84	22.582	285.00	220.05	1503.47	901.44	24.296
206.00	159.93	1092.50	654.96	22.608	286.00	220.81	1508.67	904.56	24.315
207.00	160.69	1097.71	658.08	22.633	287.00	221.57	1513.87	907.68	24.333
208.00	161.45	1102.91	661.20	22.658	288.00	222.34	1519.07	910.79	24.351
209.00	162.21	1108.12	664.32	22.683	289.00	223.10	1524.27	913.91	24.369
210.00	162.98	1113.32	667.44	22.708	290.00	223.86	1529.47	917.03	24.387
211.00	163.74	1118.53	670.57	22.732	291.00	224.62	1534.67	920.15	24.405
212.00	164.50	1123.73	673.69	22.757	292.00	225.38	1539.87	923.27	24.422
213.00	165.26	1128.94	676.81	22.782	293.00	226.14	1545.07	926.39	24.440
214.00	166.02	1134.14	679.93	22.806	294.00	226.90	1550.27	929.51	24.458
215.00	166.78	1139.35	683.05	22.830	295.00	227.66	1555.46	932.62	24.476
216.00	167.55	1144.55	686.17	22.854	296.00	228.42	1560.66	935.74	24.493
217.00	168.31	1149.76	689.29	22.878	297.00	229.18	1565.86	938.86	24.511
218.00	169.07	1154.96	692.42	22.902	298.00	229.94	1571.06	941.98	24.528
219.00	169.83	1160.17	695.54	22.926	299.00	230.70	1576.26	945.10	24.546
220.00	170.59	1165.37	698.66	22.950	300.00	231.46	1581.46	948.22	24.563

28.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	47.16	333.87	200.06	16.150
					62.00	47.92	339.19	203.25	16.236
					63.00	48.67	344.51	206.43	16.321
					64.00	49.42	349.82	209.61	16.405
					65.00	50.17	355.12	212.78	16.487
					66.00	50.92	360.43	215.96	16.568
					67.00	51.67	365.73	219.13	16.648
					68.00	52.42	371.03	222.31	16.726
					69.00	53.17	376.32	225.48	16.804
					70.00	53.92	381.62	228.65	16.880
					71.00	54.67	386.91	231.81	16.955
					72.00	55.41	392.20	234.98	17.029
					73.00	56.16	397.48	238.15	17.102
					74.00	56.91	402.77	241.31	17.174
					75.00	57.65	408.05	244.47	17.245
					76.00	58.40	413.33	247.64	17.314
					77.00	59.15	418.61	250.80	17.383
					78.00	59.89	423.88	253.95	17.452
					79.00	60.64	429.16	257.11	17.519
					80.00	61.38	434.43	260.27	17.585
					81.00	62.13	439.70	263.43	17.651
					82.00	62.87	444.97	266.58	17.715
					83.00	63.62	450.23	269.74	17.779
					84.00	64.36	455.50	272.89	17.842
					85.00	65.11	460.76	276.04	17.904
					86.00	65.85	466.02	279.19	17.966
					87.00	66.59	471.29	282.35	18.027
					88.00	67.34	476.54	285.50	18.087
					89.00	68.08	481.80	288.65	18.146
					90.00	68.82	487.06	291.79	18.205
3.00	5.67	20.98	4.89	1.782	91.00	69.57	492.32	294.94	18.263
4.00	5.80	22.91	6.45	2.358	92.00	70.31	497.57	298.09	18.320
5.00	5.97	25.36	8.42	2.924	93.00	71.05	502.82	301.24	18.377
6.00	6.19	28.33	10.77	3.462	94.00	71.79	508.07	304.38	18.433
7.00	6.47	31.68	13.32	3.982	95.00	72.54	513.32	307.53	18.489
8.00	6.82	35.72	16.36	4.519	96.00	73.28	518.57	310.67	18.544
9.00	7.25	40.56	20.00	5.089	97.00	74.02	523.82	313.82	18.598
10.00	7.75	45.98	23.99	5.659	98.00	74.76	529.07	316.96	18.652
					99.00	75.50	534.32	320.11	18.705
					100.00	76.24	539.56	323.25	18.758
11.00	8.33	51.80	28.16	6.214	101.00	76.98	544.81	326.39	18.810
12.00	8.99	57.90	32.41	6.745	102.00	77.72	550.05	329.53	18.862
13.00	9.70	64.16	36.65	7.246	103.00	78.47	555.29	332.67	18.913
14.00	10.45	70.49	40.83	7.715	104.00	79.21	560.54	335.81	18.964
15.00	11.24	76.83	44.94	8.152	105.00	79.95	565.78	338.95	19.014
16.00	12.04	83.13	48.96	8.559	106.00	80.69	571.02	342.09	19.064
17.00	12.86	89.38	52.90	8.937	107.00	81.43	576.26	345.23	19.113
18.00	13.68	95.56	56.76	9.291	108.00	82.17	581.49	348.37	19.162
19.00	14.50	101.68	60.54	9.622	109.00	82.91	586.73	351.51	19.210
20.00	15.32	107.74	64.27	9.932	110.00	83.65	591.97	354.65	19.258
21.00	16.14	113.73	67.93	10.225	111.00	84.39	597.21	357.79	19.305
22.00	16.96	119.67	71.55	10.501	112.00	85.13	602.44	360.93	19.352
23.00	17.77	125.56	75.13	10.763	113.00	85.86	607.68	364.06	19.399
24.00	18.58	131.40	78.67	11.011	114.00	86.60	612.91	367.20	19.445
25.00	19.39	137.20	82.18	11.248	115.00	87.34	618.14	370.34	19.490
26.00	20.20	142.96	85.66	11.474	116.00	88.08	623.38	373.47	19.536
27.00	21.00	148.68	89.11	11.690	117.00	88.82	628.61	376.61	19.581
28.00	21.80	154.38	92.53	11.897	118.00	89.56	633.84	379.74	19.625
29.00	22.59	160.04	95.94	12.096	119.00	90.30	639.07	382.88	19.669
30.00	23.39	165.68	99.33	12.287	120.00	91.04	644.30	386.01	19.713
31.00	24.18	171.29	102.70	12.471	121.00	91.78	649.53	389.15	19.756
32.00	24.96	176.88	106.06	12.649	122.00	92.51	654.76	392.28	19.799
33.00	25.75	182.45	109.40	12.820	123.00	93.25	659.99	395.41	19.842
34.00	26.53	188.00	112.73	12.986	124.00	93.99	665.22	398.55	19.884
35.00	27.31	193.54	116.05	13.146	125.00	94.73	670.45	401.68	19.926
36.00	28.09	199.06	119.35	13.302	126.00	95.47	675.67	404.81	19.968
37.00	28.87	204.56	122.65	13.452	127.00	96.21	680.90	407.95	20.009
38.00	29.65	210.05	125.94	13.599	128.00	96.94	686.13	411.08	20.050
39.00	30.42	215.52	129.22	13.741	129.00	97.68	691.35	414.21	20.091
40.00	31.19	220.99	132.49	13.879	130.00	98.42	696.58	417.34	20.131
41.00	31.96	226.44	135.75	14.014	131.00	99.16	701.80	420.47	20.171
42.00	32.73	231.88	139.01	14.145	132.00	99.89	707.02	423.61	20.211
43.00	33.50	237.31	142.26	14.273	133.00	100.63	712.25	426.74	20.251
44.00	34.27	242.73	145.51	14.397	134.00	101.37	717.47	429.87	20.290
45.00	35.03	248.14	148.75	14.519	135.00	102.11	722.70	433.00	20.329
46.00	35.80	253.55	151.98	14.638	136.00	102.84	727.92	436.13	20.367
47.00	36.56	258.95	155.21	14.754	137.00	103.58	733.14	439.26	20.405
48.00	37.32	264.33	158.44	14.867	138.00	104.32	738.36	442.39	20.443
49.00	38.09	269.72	161.66	14.978	139.00	105.06	743.58	445.52	20.481
50.00	38.85	275.09	164.88	15.087	140.00	105.79	748.80	448.65	20.518
51.00	39.61	280.46	168.09	15.193					
52.00	40.36	285.83	171.30	15.297					
53.00	41.12	291.18	174.51	15.399					
54.00	41.88	296.54	177.71	15.500					
55.00	42.64	301.88	180.91	15.598					
56.00	43.39	307.23	184.11	15.694					
57.00	44.15	312.56	187.31	15.788					
58.00	44.90	317.90	190.50	15.881					
59.00	45.66	323.23	193.69	15.972					
60.00	46.41	328.55	196.88	16.062					

28.00 ATMOSPHERE ISCBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	106.53	754.02	451.78	20.556	221.00	165.36	1170.89	701.73	22.898
142.00	107.27	759.24	454.91	20.593	222.00	166.09	1176.09	704.85	22.921
143.00	108.00	764.46	458.04	20.629	223.00	166.83	1181.30	707.97	22.945
144.00	108.74	769.68	461.17	20.666	224.00	167.56	1186.50	711.09	22.968
145.00	109.48	774.90	464.29	20.702	225.00	168.30	1191.70	714.22	22.991
146.00	110.21	780.12	467.42	20.738	226.00	169.03	1196.91	717.34	23.014
147.00	110.95	785.34	470.55	20.773	227.00	169.77	1202.11	720.46	23.037
148.00	111.69	790.56	473.68	20.809	228.00	170.50	1207.32	723.58	23.060
149.00	112.42	795.78	476.81	20.844	229.00	171.23	1212.52	726.70	23.083
150.00	113.16	800.99	479.94	20.879	230.00	171.97	1217.72	729.82	23.105
151.00	113.90	806.21	483.06	20.913	231.00	172.70	1222.93	732.94	23.128
152.00	114.63	811.43	486.19	20.948	232.00	173.44	1228.13	736.06	23.150
153.00	115.37	816.65	489.32	20.982	233.00	174.17	1233.33	739.18	23.173
154.00	116.11	821.86	492.45	21.016	234.00	174.90	1238.54	742.30	23.195
155.00	116.84	827.08	495.57	21.050	235.00	175.64	1243.74	745.42	23.217
156.00	117.58	832.29	498.70	21.083	236.00	176.37	1248.94	748.54	23.239
157.00	118.32	837.51	501.83	21.116	237.00	177.11	1254.15	751.66	23.261
158.00	119.05	842.72	504.95	21.150	238.00	177.84	1259.35	754.78	23.283
159.00	119.79	847.94	508.08	21.182	239.00	178.57	1264.55	757.90	23.305
160.00	120.52	853.15	511.21	21.215	240.00	179.31	1269.75	761.02	23.327
161.00	121.26	858.37	514.33	21.248	241.00	180.04	1274.96	764.14	23.348
162.00	122.00	863.58	517.46	21.280	242.00	180.78	1280.16	767.26	23.370
163.00	122.73	868.80	520.59	21.312	243.00	181.51	1285.36	770.38	23.391
164.00	123.47	874.01	523.71	21.344	244.00	182.24	1290.56	773.51	23.413
165.00	124.20	879.22	526.84	21.376	245.00	182.98	1295.77	776.63	23.434
166.00	124.94	884.44	529.96	21.407	246.00	183.71	1300.97	779.75	23.455
167.00	125.67	889.65	533.09	21.438	247.00	184.45	1306.17	782.87	23.476
168.00	126.41	894.86	536.21	21.470	248.00	185.18	1311.37	785.99	23.497
169.00	127.15	900.07	539.34	21.500	249.00	185.91	1316.57	789.11	23.518
170.00	127.88	905.29	542.46	21.531	250.00	186.65	1321.78	792.23	23.539
171.00	128.62	910.50	545.59	21.562	251.00	187.38	1326.98	795.34	23.560
172.00	129.35	915.71	548.71	21.592	252.00	188.12	1332.18	798.46	23.581
173.00	130.09	920.92	551.84	21.622	253.00	188.85	1337.38	801.58	23.601
174.00	130.82	926.13	554.96	21.652	254.00	189.58	1342.58	804.70	23.622
175.00	131.56	931.35	558.09	21.682	255.00	190.32	1347.79	807.82	23.642
176.00	132.29	936.56	561.21	21.712	256.00	191.05	1352.99	810.94	23.663
177.00	133.03	941.77	564.34	21.742	257.00	191.78	1358.19	814.06	23.683
178.00	133.77	946.98	567.46	21.771	258.00	192.52	1363.39	817.18	23.703
179.00	134.50	952.19	570.59	21.800	259.00	193.25	1368.59	820.30	23.723
180.00	135.24	957.40	573.71	21.829	260.00	193.99	1373.79	823.42	23.743
181.00	135.97	962.61	576.83	21.858	261.00	194.72	1378.99	826.54	23.763
182.00	136.71	967.82	579.96	21.887	262.00	195.45	1384.19	829.66	23.783
183.00	137.44	973.03	583.08	21.915	263.00	196.19	1389.40	832.78	23.803
184.00	138.18	978.24	586.21	21.944	264.00	196.92	1394.60	835.90	23.823
185.00	138.91	983.45	589.33	21.972	265.00	197.65	1399.80	839.02	23.842
186.00	139.65	988.66	592.45	22.000	266.00	198.39	1405.00	842.14	23.862
187.00	140.38	993.86	595.58	22.028	267.00	199.12	1410.20	845.26	23.881
188.00	141.12	999.07	598.70	22.056	268.00	199.85	1415.40	848.38	23.901
189.00	141.85	1004.28	601.82	22.083	269.00	200.59	1420.60	851.50	23.920
190.00	142.59	1009.49	604.95	22.111	270.00	201.32	1425.80	854.62	23.939
191.00	143.32	1014.70	608.07	22.138	271.00	202.06	1431.00	857.74	23.959
192.00	144.06	1019.91	611.19	22.165	272.00	202.79	1436.20	860.85	23.978
193.00	144.79	1025.12	614.32	22.192	273.00	203.52	1441.40	863.97	23.997
194.00	145.53	1030.33	617.44	22.219	274.00	204.26	1446.60	867.09	24.016
195.00	146.26	1035.53	620.56	22.246	275.00	204.99	1451.80	870.21	24.035
196.00	147.00	1040.74	623.68	22.273	276.00	205.72	1457.00	873.33	24.054
197.00	147.73	1045.95	626.81	22.299	277.00	206.46	1462.20	876.45	24.073
198.00	148.47	1051.15	629.93	22.326	278.00	207.19	1467.40	879.57	24.091
199.00	149.20	1056.36	633.05	22.352	279.00	207.92	1472.60	882.69	24.110
200.00	149.94	1061.57	636.17	22.378	280.00	208.66	1477.80	885.81	24.129
201.00	150.67	1066.77	639.30	22.404	281.00	209.39	1483.00	888.93	24.147
202.00	151.41	1071.98	642.42	22.430	282.00	210.12	1488.20	892.04	24.166
203.00	152.14	1077.19	645.54	22.455	283.00	210.86	1493.40	895.16	24.184
204.00	152.87	1082.39	648.66	22.481	284.00	211.59	1498.60	898.28	24.202
205.00	153.61	1087.60	651.79	22.506	285.00	212.33	1503.80	901.40	24.221
206.00	154.34	1092.81	654.91	22.532	286.00	213.06	1509.00	904.52	24.239
207.00	155.08	1098.01	658.03	22.557	287.00	213.79	1514.20	907.64	24.257
208.00	155.81	1103.22	661.15	22.582	288.00	214.53	1519.40	910.76	24.275
209.00	156.55	1108.43	664.27	22.607	289.00	215.26	1524.60	913.88	24.293
210.00	157.28	1113.63	667.40	22.632	290.00	215.99	1529.80	916.99	24.311
211.00	158.02	1118.84	670.52	22.657	291.00	216.73	1535.00	920.11	24.329
212.00	158.75	1124.04	673.64	22.681	292.00	217.46	1540.20	923.23	24.347
213.00	159.49	1129.25	676.76	22.706	293.00	218.19	1545.40	926.35	24.365
214.00	160.22	1134.45	679.88	22.730	294.00	218.93	1550.60	929.47	24.382
215.00	160.95	1139.66	683.00	22.754	295.00	219.66	1555.80	932.59	24.400
216.00	161.69	1144.86	686.12	22.779	296.00	220.39	1561.00	935.71	24.418
217.00	162.42	1150.07	689.25	22.803	297.00	221.13	1566.20	938.83	24.435
218.00	163.16	1155.27	692.37	22.827	298.00	221.86	1571.40	941.94	24.453
219.00	163.89	1160.48	695.49	22.850	299.00	222.59	1576.60	945.06	24.470
220.00	164.63	1165.68	698.61	22.874	300.00	223.33	1581.80	948.18	24.487

29.00 ATMOSPHERE 1508AR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	45.63	334.00	199.92	16.075
					62.00	46.36	339.32	203.10	16.161
					63.00	47.08	344.64	206.29	16.246
					64.00	47.81	349.95	209.47	16.330
					65.00	48.53	355.26	212.65	16.412
					66.00	49.26	360.57	215.82	16.493
					67.00	49.98	365.88	219.00	16.573
					68.00	50.71	371.18	222.17	16.652
					69.00	51.43	376.48	225.35	16.729
					70.00	52.15	381.77	228.52	16.805
					71.00	52.88	387.07	231.69	16.880
					72.00	53.60	392.36	234.85	16.954
					73.00	54.32	397.65	238.02	17.027
					74.00	55.04	402.93	241.19	17.099
					75.00	55.77	408.22	244.35	17.170
					76.00	56.49	413.50	247.51	17.240
					77.00	57.21	418.78	250.67	17.309
					78.00	57.93	424.06	253.84	17.377
					79.00	58.65	429.33	256.99	17.444
					80.00	59.37	434.61	260.15	17.511
					81.00	60.09	439.88	263.31	17.576
					82.00	60.81	445.15	266.47	17.641
					83.00	61.53	450.42	269.62	17.705
					84.00	62.25	455.69	272.78	17.768
					85.00	62.96	460.95	275.93	17.830
					86.00	63.68	466.22	279.08	17.892
					87.00	64.40	471.48	282.24	17.953
					88.00	65.12	476.74	285.39	18.013
					89.00	65.84	482.00	288.54	18.072
					90.00	66.55	487.26	291.69	18.131
3.00	5.65	21.52	4.92	1.771	91.00	67.27	492.52	294.84	18.189
4.00	5.77	23.44	6.47	2.343	92.00	67.99	497.77	297.99	18.247
5.00	5.94	25.87	8.41	2.904	93.00	68.71	503.03	301.13	18.303
6.00	6.15	28.81	10.73	3.437	94.00	69.42	508.28	304.28	18.360
7.00	6.42	32.12	13.25	3.951	95.00	70.14	513.53	307.43	18.415
8.00	6.76	36.10	16.25	4.481	96.00	70.86	518.78	310.57	18.470
9.00	7.16	40.88	19.84	5.043	97.00	71.57	524.04	313.72	18.525
10.00	7.64	46.22	23.77	5.605	98.00	72.29	529.28	316.86	18.578
					99.00	73.00	534.53	320.01	18.632
					100.00	73.72	539.78	323.15	18.684
11.00	8.19	51.97	27.90	6.153	101.00	74.44	545.03	326.29	18.737
12.00	8.81	57.99	32.11	6.677	102.00	75.15	550.27	329.44	18.788
13.00	9.48	64.19	36.32	7.173	103.00	75.87	555.51	332.58	18.839
14.00	10.20	70.47	40.49	7.638	104.00	76.58	560.76	335.72	18.890
15.00	10.95	76.77	44.59	8.073	105.00	77.30	566.00	338.86	18.940
16.00	11.72	83.05	48.61	8.478	106.00	78.01	571.24	342.00	18.990
17.00	12.50	89.28	52.55	8.856	107.00	78.73	576.48	345.14	19.039
18.00	13.29	95.46	56.41	9.209	108.00	79.44	581.72	348.28	19.088
19.00	14.08	101.58	60.21	9.540	109.00	80.16	586.96	351.42	19.136
20.00	14.87	107.63	63.94	9.851	110.00	80.87	592.20	354.56	19.184
21.00	15.66	113.63	67.61	10.143	111.00	81.59	597.44	357.70	19.231
22.00	16.45	119.58	71.24	10.420	112.00	82.30	602.67	360.84	19.278
23.00	17.23	125.47	74.83	10.682	113.00	83.01	607.91	363.98	19.325
24.00	18.02	131.32	78.37	10.931	114.00	83.73	613.15	367.11	19.371
25.00	18.80	137.13	81.89	11.168	115.00	84.44	618.38	370.25	19.417
26.00	19.57	142.89	85.37	11.394	116.00	85.16	623.62	373.39	19.462
27.00	20.35	148.63	88.83	11.610	117.00	85.87	628.85	376.52	19.507
28.00	21.12	154.33	92.27	11.818	118.00	86.58	634.08	379.66	19.552
29.00	21.89	160.00	95.68	12.017	119.00	87.30	639.31	382.79	19.596
30.00	22.65	165.65	99.08	12.208	120.00	88.01	644.55	385.93	19.639
31.00	23.42	171.27	102.45	12.392	121.00	88.72	649.78	389.06	19.683
32.00	24.18	176.87	105.82	12.570	122.00	89.44	655.01	392.20	19.726
33.00	24.94	182.44	109.16	12.742	123.00	90.15	660.24	395.33	19.769
34.00	25.69	188.00	112.50	12.908	124.00	90.86	665.47	398.47	19.811
35.00	26.45	193.54	115.82	13.068	125.00	91.57	670.69	401.60	19.853
36.00	27.20	199.07	119.13	13.224	126.00	92.29	675.92	404.73	19.895
37.00	27.95	204.58	122.43	13.375	127.00	93.00	681.15	407.87	19.936
38.00	28.70	210.07	125.73	13.522	128.00	93.71	686.38	411.00	19.977
39.00	29.45	215.55	129.01	13.664	129.00	94.43	691.60	414.13	20.018
40.00	30.20	221.02	132.29	13.802	130.00	95.14	696.83	417.27	20.058
41.00	30.94	226.48	135.55	13.937	131.00	95.85	702.06	420.40	20.098
42.00	31.69	231.92	138.82	14.068	132.00	96.56	707.28	423.53	20.138
43.00	32.43	237.36	142.07	14.196	133.00	97.27	712.51	426.66	20.177
44.00	33.17	242.79	145.32	14.321	134.00	97.99	717.73	429.79	20.216
45.00	33.91	248.21	148.56	14.443	135.00	98.70	722.95	432.92	20.255
46.00	34.65	253.62	151.80	14.562	136.00	99.41	728.18	436.06	20.294
47.00	35.39	259.02	155.03	14.678	137.00	100.12	733.40	439.19	20.332
48.00	36.12	264.41	158.26	14.791	138.00	100.84	738.62	442.32	20.370
49.00	36.86	269.80	161.49	14.903	139.00	101.55	743.85	445.45	20.408
50.00	37.59	275.18	164.71	15.011	140.00	102.26	749.07	448.58	20.445
51.00	38.33	280.55	167.92	15.118					
52.00	39.06	285.92	171.14	15.222					
53.00	39.79	291.28	174.35	15.324					
54.00	40.53	296.64	177.55	15.424					
55.00	41.26	301.99	180.76	15.522					
56.00	41.99	307.34	183.96	15.619					
57.00	42.72	312.68	187.15	15.713					
58.00	43.45	318.01	190.35	15.806					
59.00	44.17	323.35	193.54	15.897					
60.00	44.90	328.68	196.73	15.987					

29.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	102.97	754.29	451.71	20.482	221.00	159.78	1171.20	701.68	22.825
142.00	103.68	759.51	454.84	20.519	222.00	160.49	1176.40	704.80	22.848
143.00	104.39	764.73	457.97	20.556	223.00	161.20	1181.61	707.93	22.871
144.00	105.11	769.95	461.10	20.592	224.00	161.91	1186.81	711.05	22.895
145.00	105.82	775.17	464.23	20.628	225.00	162.62	1192.02	714.17	22.918
146.00	106.53	780.39	467.35	20.664	226.00	163.33	1197.22	717.29	22.941
147.00	107.24	785.61	470.48	20.700	227.00	164.03	1202.43	720.41	22.964
148.00	107.95	790.83	473.61	20.735	228.00	164.74	1207.63	723.53	22.987
149.00	108.66	796.05	476.74	20.770	229.00	165.45	1212.83	726.65	23.010
150.00	109.37	801.27	479.87	20.805	230.00	166.16	1218.04	729.77	23.032
151.00	110.09	806.48	483.00	20.840	231.00	166.87	1223.24	732.89	23.055
152.00	110.80	811.70	486.12	20.874	232.00	167.58	1228.45	736.02	23.077
153.00	111.51	816.92	489.25	20.909	233.00	168.29	1233.65	739.14	23.100
154.00	112.22	822.14	492.38	20.943	234.00	169.00	1238.85	742.26	23.122
155.00	112.93	827.35	495.51	20.976	235.00	169.71	1244.06	745.38	23.144
156.00	113.64	832.57	498.63	21.010	236.00	170.41	1249.26	748.50	23.166
157.00	114.35	837.79	501.76	21.043	237.00	171.12	1254.46	751.62	23.188
158.00	115.06	843.00	504.89	21.076	238.00	171.83	1259.67	754.74	23.210
159.00	115.77	848.22	508.02	21.109	239.00	172.54	1264.87	757.86	23.232
160.00	116.48	853.43	511.14	21.142	240.00	173.25	1270.07	760.98	23.254
161.00	117.20	858.65	514.27	21.174	241.00	173.96	1275.28	764.10	23.275
162.00	117.91	863.86	517.40	21.207	242.00	174.67	1280.48	767.22	23.297
163.00	118.62	869.08	520.52	21.239	243.00	175.38	1285.68	770.34	23.318
164.00	119.33	874.29	523.65	21.271	244.00	176.08	1290.88	773.46	23.340
165.00	120.04	879.51	526.77	21.302	245.00	176.79	1296.09	776.58	23.361
166.00	120.75	884.72	529.90	21.334	246.00	177.50	1301.29	779.70	23.382
167.00	121.46	889.93	533.03	21.365	247.00	178.21	1306.49	782.82	23.403
168.00	122.17	895.15	536.15	21.396	248.00	178.92	1311.69	785.94	23.424
169.00	122.88	900.36	539.28	21.427	249.00	179.63	1316.90	789.06	23.445
170.00	123.59	905.57	542.40	21.458	250.00	180.34	1322.10	792.18	23.466
171.00	124.30	910.79	545.53	21.489	251.00	181.04	1327.30	795.30	23.487
172.00	125.01	916.00	548.65	21.519	252.00	181.75	1332.50	798.42	23.508
173.00	125.72	921.21	551.78	21.549	253.00	182.46	1337.71	801.54	23.528
174.00	126.43	926.42	554.90	21.579	254.00	183.17	1342.91	804.66	23.549
175.00	127.14	931.63	558.03	21.609	255.00	183.88	1348.11	807.78	23.569
176.00	127.85	936.85	561.15	21.639	256.00	184.59	1353.31	810.90	23.589
177.00	128.56	942.06	564.28	21.668	257.00	185.30	1358.51	814.02	23.610
178.00	129.27	947.27	567.40	21.698	258.00	186.00	1363.72	817.14	23.630
179.00	129.98	952.48	570.53	21.727	259.00	186.71	1368.92	820.26	23.650
180.00	130.69	957.69	573.65	21.756	260.00	187.42	1374.12	823.38	23.670
181.00	131.40	962.90	576.78	21.785	261.00	188.13	1379.32	826.50	23.690
182.00	132.11	968.11	579.90	21.813	262.00	188.84	1384.52	829.62	23.710
183.00	132.82	973.32	583.02	21.842	263.00	189.55	1389.72	832.74	23.730
184.00	133.53	978.53	586.15	21.870	264.00	190.25	1394.92	835.86	23.750
185.00	134.24	983.74	589.27	21.899	265.00	190.96	1400.13	838.98	23.769
186.00	134.95	988.95	592.40	21.927	266.00	191.67	1405.33	842.10	23.789
187.00	135.66	994.16	595.52	21.955	267.00	192.38	1410.53	845.22	23.808
188.00	136.37	999.37	598.64	21.982	268.00	193.09	1415.73	848.34	23.828
189.00	137.08	1004.58	601.77	22.010	269.00	193.80	1420.93	851.46	23.847
190.00	137.79	1009.79	604.89	22.038	270.00	194.51	1426.13	854.58	23.866
191.00	138.50	1015.00	608.01	22.065	271.00	195.21	1431.33	857.70	23.886
192.00	139.21	1020.21	611.14	22.092	272.00	195.92	1436.53	860.82	23.905
193.00	139.92	1025.42	614.26	22.119	273.00	196.63	1441.73	863.93	23.924
194.00	140.63	1030.62	617.38	22.146	274.00	197.34	1446.93	867.05	23.943
195.00	141.34	1035.83	620.51	22.173	275.00	198.05	1452.13	870.17	23.962
196.00	142.05	1041.04	623.63	22.200	276.00	198.76	1457.33	873.29	23.981
197.00	142.76	1046.25	626.75	22.226	277.00	199.46	1462.54	876.41	24.000
198.00	143.47	1051.46	629.88	22.252	278.00	200.17	1467.74	879.53	24.018
199.00	144.18	1056.66	633.00	22.279	279.00	200.88	1472.94	882.65	24.037
200.00	144.89	1061.87	636.12	22.305	280.00	201.59	1478.14	885.77	24.056
201.00	145.60	1067.08	639.24	22.331	281.00	202.30	1483.34	888.89	24.074
202.00	146.31	1072.29	642.37	22.357	282.00	203.00	1488.54	892.01	24.093
203.00	147.01	1077.49	645.49	22.382	283.00	203.71	1493.74	895.13	24.111
204.00	147.72	1082.70	648.61	22.408	284.00	204.42	1498.94	898.24	24.129
205.00	148.43	1087.91	651.73	22.433	285.00	205.13	1504.14	901.36	24.148
206.00	149.14	1093.11	654.86	22.459	286.00	205.84	1509.34	904.48	24.166
207.00	149.85	1098.32	657.98	22.484	287.00	206.55	1514.54	907.60	24.184
208.00	150.56	1103.53	661.10	22.509	288.00	207.25	1519.74	910.72	24.202
209.00	151.27	1108.73	664.22	22.534	289.00	207.96	1524.94	913.84	24.220
210.00	151.98	1113.94	667.35	22.559	290.00	208.67	1530.14	916.96	24.238
211.00	152.69	1119.14	670.47	22.583	291.00	209.38	1535.34	920.08	24.256
212.00	153.40	1124.35	673.59	22.608	292.00	210.09	1540.54	923.20	24.274
213.00	154.11	1129.56	676.71	22.633	293.00	210.80	1545.74	926.31	24.292
214.00	154.82	1134.76	679.83	22.657	294.00	211.50	1550.94	929.43	24.309
215.00	155.53	1139.97	682.95	22.681	295.00	212.21	1556.14	932.55	24.327
216.00	156.24	1145.17	686.08	22.705	296.00	212.92	1561.33	935.67	24.345
217.00	156.94	1150.38	689.20	22.729	297.00	213.63	1566.53	938.79	24.362
218.00	157.65	1155.58	692.32	22.753	298.00	214.34	1571.73	941.91	24.380
219.00	158.36	1160.79	695.44	22.777	299.00	215.04	1576.93	945.03	24.397
220.00	159.07	1165.99	698.56	22.801	300.00	215.75	1582.13	948.14	24.414

30.00 ATMOSPHERE 1S08AR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	44.20	334.13	199.77	16.002
					62.00	44.90	339.46	202.96	16.089
					63.00	45.61	344.78	206.14	16.174
					64.00	46.31	350.09	209.33	16.258
					65.00	47.01	355.41	212.51	16.340
					66.00	47.71	360.72	215.69	16.421
					67.00	48.41	366.03	218.86	16.501
					68.00	49.11	371.33	222.04	16.580
					69.00	49.81	376.63	225.21	16.657
					70.00	50.51	381.93	228.39	16.733
					71.00	51.21	387.23	231.56	16.808
					72.00	51.91	392.52	234.73	16.882
					73.00	52.61	397.81	237.90	16.955
					74.00	53.31	403.10	241.06	17.027
					75.00	54.00	408.39	244.23	17.098
					76.00	54.70	413.67	247.39	17.168
					77.00	55.40	418.95	250.55	17.237
					78.00	56.09	424.23	253.72	17.306
					79.00	56.79	429.51	256.88	17.373
					80.00	57.49	434.79	260.04	17.439
					81.00	58.18	440.06	263.20	17.505
					82.00	58.88	445.34	266.35	17.569
					83.00	59.57	450.61	269.51	17.633
					84.00	60.27	455.88	272.67	17.696
					85.00	60.96	461.14	275.82	17.759
					86.00	61.66	466.41	278.98	17.820
					87.00	62.35	471.68	282.13	17.881
					88.00	63.05	476.94	285.28	17.941
					89.00	63.74	482.20	288.43	18.001
					90.00	64.44	487.46	291.58	18.060
					91.00	65.13	492.72	294.73	18.118
					92.00	65.82	497.98	297.88	18.175
					93.00	66.52	503.23	301.03	18.232
					94.00	67.21	508.49	304.18	18.288
					95.00	67.90	513.74	307.33	18.344
					96.00	68.60	519.00	310.47	18.399
					97.00	69.29	524.25	313.62	18.453
					98.00	69.98	529.50	316.77	18.507
					99.00	70.67	534.75	319.91	18.560
					100.00	71.37	540.00	323.06	18.613
					101.00	72.06	545.24	326.20	18.665
					102.00	72.75	550.49	329.34	18.717
					103.00	73.44	555.74	332.49	18.768
					104.00	74.13	560.98	335.63	18.819
					105.00	74.83	566.23	338.77	18.869
					106.00	75.52	571.47	341.91	18.919
					107.00	76.21	576.71	345.05	18.968
					108.00	76.90	581.95	348.19	19.017
					109.00	77.59	587.19	351.33	19.065
					110.00	78.28	592.43	354.47	19.113
					111.00	78.97	597.67	357.61	19.160
					112.00	79.66	602.91	360.75	19.207
					113.00	80.35	608.15	363.89	19.254
					114.00	81.04	613.38	367.03	19.300
					115.00	81.73	618.62	370.16	19.346
					116.00	82.42	623.85	373.30	19.391
					117.00	83.11	629.09	376.44	19.436
					118.00	83.80	634.32	379.58	19.480
					119.00	84.49	639.56	382.71	19.525
					120.00	85.18	644.79	385.85	19.568
					121.00	85.87	650.02	388.98	19.612
					122.00	86.56	655.25	392.12	19.655
					123.00	87.25	660.48	395.25	19.698
					124.00	87.94	665.71	398.39	19.740
					125.00	88.63	670.94	401.52	19.782
					126.00	89.32	676.17	404.66	19.824
					127.00	90.01	681.40	407.79	19.865
					128.00	90.70	686.63	410.92	19.906
					129.00	91.39	691.86	414.06	19.947
					130.00	92.08	697.09	417.19	19.987
					131.00	92.77	702.31	420.32	20.027
					132.00	93.45	707.54	423.45	20.067
					133.00	94.14	712.76	426.59	20.106
					134.00	94.83	717.99	429.72	20.145
					135.00	95.52	723.21	432.85	20.184
					136.00	96.21	728.44	435.98	20.223
					137.00	96.90	733.66	439.11	20.261
					138.00	97.59	738.89	442.24	20.299
					139.00	98.27	744.11	445.38	20.337
					140.00	98.96	749.33	448.51	20.374
3.00	5.63	22.06	4.96	1.760	83.00	59.57	450.61	269.51	17.633
4.00	5.75	23.97	6.49	2.329	84.00	60.27	455.88	272.67	17.696
5.00	5.91	26.37	8.41	2.886	85.00	60.96	461.14	275.82	17.759
6.00	6.11	29.28	10.70	3.413	86.00	61.66	466.41	278.98	17.820
7.00	6.37	32.56	13.18	3.921	87.00	62.35	471.68	282.13	17.881
8.00	6.69	36.49	16.14	4.444	88.00	63.05	476.94	285.28	17.941
9.00	7.08	41.21	19.68	4.999	89.00	63.74	482.20	288.43	18.001
10.00	7.54	46.48	23.57	5.554	90.00	64.44	487.46	291.58	18.060
11.00	8.06	52.16	27.66	6.095	91.00	65.13	492.72	294.73	18.118
12.00	8.65	58.11	31.83	6.613	92.00	65.82	497.98	297.88	18.175
13.00	9.29	64.24	36.01	7.104	93.00	66.52	503.23	301.03	18.232
14.00	9.97	70.47	40.16	7.566	94.00	67.21	508.49	304.18	18.288
15.00	10.67	76.74	44.25	7.998	95.00	67.90	513.74	307.33	18.344
16.00	11.42	82.99	48.27	8.401	96.00	68.60	519.00	310.47	18.399
17.00	12.17	89.21	52.21	8.778	97.00	69.29	524.25	313.62	18.453
18.00	12.93	95.38	56.08	9.131	98.00	69.98	529.50	316.77	18.507
19.00	13.69	101.49	59.88	9.461	99.00	70.67	534.75	319.91	18.560
20.00	14.45	107.55	63.62	9.772	100.00	71.37	540.00	323.06	18.613
21.00	15.21	113.55	67.30	10.065	101.00	72.06	545.24	326.20	18.665
22.00	15.97	119.50	70.94	10.341	102.00	72.75	550.49	329.34	18.717
23.00	16.73	125.39	74.53	10.604	103.00	73.44	555.74	332.49	18.768
24.00	17.49	131.25	78.08	10.853	104.00	74.13	560.98	335.63	18.819
25.00	18.24	137.06	81.61	11.090	105.00	74.83	566.23	338.77	18.869
26.00	18.99	142.84	85.10	11.317	106.00	75.52	571.47	341.91	18.919
27.00	19.74	148.58	88.56	11.533	107.00	76.21	576.71	345.05	18.968
28.00	20.49	154.29	92.01	11.741	108.00	76.90	581.95	348.19	19.017
29.00	21.23	159.97	95.43	11.940	109.00	77.59	587.19	351.33	19.065
30.00	21.97	165.62	98.83	12.132	110.00	78.28	592.43	354.47	19.113
31.00	22.71	171.25	102.21	12.317	111.00	78.97	597.67	357.61	19.160
32.00	23.45	176.85	105.58	12.494	112.00	79.66	602.91	360.75	19.207
33.00	24.18	182.44	108.93	12.666	113.00	80.35	608.15	363.89	19.254
34.00	24.91	188.00	112.27	12.832	114.00	81.04	613.38	367.03	19.300
35.00	25.64	193.55	115.60	12.993	115.00	81.73	618.62	370.16	19.346
36.00	26.37	199.08	118.91	13.149	116.00	82.42	623.85	373.30	19.391
37.00	27.10	204.60	122.22	13.300	117.00	83.11	629.09	376.44	19.436
38.00	27.82	210.10	125.52	13.447	118.00	83.80	634.32	379.58	19.480
39.00	28.55	215.59	128.80	13.589	119.00	84.49	639.56	382.71	19.525
40.00	29.27	221.06	132.08	13.728	120.00	85.18	644.79	385.85	19.568
41.00	29.99	226.52	135.35	13.863	121.00	85.87	650.02	388.98	19.612
42.00	30.71	231.98	138.62	13.994	122.00	86.56	655.25	392.12	19.655
43.00	31.43	237.42	141.88	14.122	123.00	87.25	660.48	395.25	19.698
44.00	32.15	242.85	145.13	14.247	124.00	87.94	665.71	398.39	19.740
45.00	32.86	248.27	148.38	14.369	125.00	88.63	670.94	401.52	19.782
46.00	33.58	253.69	151.62	14.488	126.00	89.32	676.17	404.66	19.824
47.00	34.29	259.09	154.86	14.604	127.00	90.01	681.40	407.79	19.865
48.00	35.00	264.49	158.09	14.718	128.00	90.70	686.63	410.92	19.906
49.00	35.72	269.88	161.31	14.829	129.00	91.39	691.86	414.06	19.947
50.00	36.43	275.27	164.54	14.938	130.00	92.08	697.09	417.19	19.987
51.00	37.14	280.65	167.76	15.045	131.00	92.77	702.31	420.32	20.027
52.00	37.85	286.02	170.97	15.149	132.00	93.45	707.54	423.45	20.067
53.00	38.55	291.38	174.18	15.251	133.00	94.14	712.76	426.59	20.106
54.00	39.26	296.74	177.39	15.351	134.00	94.83	717.99	429.72	20.145
55.00	39.97	302.10	180.60	15.449	135.00	95.52	723.21	432.85	20.184
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30.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	99.65	754.55	451.64	20.411	221.00	154.57	1171.51	701.64	22.754
142.00	100.34	759.78	454.77	20.448	222.00	155.26	1176.72	704.76	22.777
143.00	101.03	765.00	457.90	20.485	223.00	155.94	1181.92	707.88	22.801
144.00	101.71	770.22	461.03	20.521	224.00	156.63	1187.13	711.00	22.824
145.00	102.40	775.44	464.16	20.557	225.00	157.31	1192.33	714.12	22.847
146.00	103.09	780.66	467.29	20.593	226.00	158.00	1197.54	717.24	22.870
147.00	103.78	785.88	470.41	20.629	227.00	158.69	1202.74	720.36	22.893
148.00	104.47	791.10	473.54	20.664	228.00	159.37	1207.95	723.49	22.916
149.00	105.15	796.32	476.67	20.699	229.00	160.06	1213.15	726.61	22.939
150.00	105.84	801.54	479.80	20.734	230.00	160.74	1218.35	729.73	22.962
151.00	106.53	806.76	482.93	20.769	231.00	161.43	1223.56	732.85	22.984
152.00	107.22	811.98	486.06	20.803	232.00	162.11	1228.76	735.97	23.007
153.00	107.90	817.19	489.19	20.838	233.00	162.80	1233.97	739.09	23.029
154.00	108.59	822.41	492.31	20.872	234.00	163.48	1239.17	742.21	23.051
155.00	109.28	827.63	495.44	20.905	235.00	164.17	1244.37	745.33	23.074
156.00	109.97	832.85	498.57	20.939	236.00	164.85	1249.58	748.45	23.096
157.00	110.65	838.06	501.70	20.972	237.00	165.54	1254.78	751.57	23.118
158.00	111.34	843.28	504.82	21.005	238.00	166.22	1259.99	754.70	23.140
159.00	112.03	848.50	507.95	21.038	239.00	166.91	1265.19	757.82	23.161
160.00	112.71	853.71	511.08	21.071	240.00	167.59	1270.39	760.94	23.183
161.00	113.40	858.93	514.21	21.104	241.00	168.28	1275.60	764.06	23.205
162.00	114.09	864.15	517.33	21.136	242.00	168.96	1280.80	767.18	23.226
163.00	114.78	869.36	520.46	21.168	243.00	169.65	1286.00	770.30	23.248
164.00	115.46	874.58	523.59	21.200	244.00	170.33	1291.21	773.42	23.269
165.00	116.15	879.79	526.71	21.232	245.00	171.02	1296.41	776.54	23.290
166.00	116.84	885.00	529.84	21.263	246.00	171.70	1301.61	779.66	23.312
167.00	117.52	890.22	532.97	21.294	247.00	172.39	1306.81	782.78	23.333
168.00	118.21	895.43	536.09	21.326	248.00	173.07	1312.02	785.90	23.354
169.00	118.90	900.65	539.22	21.356	249.00	173.76	1317.22	789.02	23.375
170.00	119.58	905.86	542.34	21.387	250.00	174.44	1322.42	792.14	23.396
171.00	120.27	911.07	545.47	21.418	251.00	175.13	1327.62	795.26	23.416
172.00	120.96	916.29	548.59	21.448	252.00	175.81	1332.83	798.38	23.437
173.00	121.64	921.50	551.72	21.478	253.00	176.50	1338.03	801.50	23.458
174.00	122.33	926.71	554.85	21.508	254.00	177.18	1343.23	804.62	23.478
175.00	123.02	931.92	557.97	21.538	255.00	177.87	1348.43	807.74	23.499
176.00	123.70	937.14	561.10	21.568	256.00	178.55	1353.64	810.86	23.519
177.00	124.39	942.35	564.22	21.598	257.00	179.24	1358.84	813.98	23.539
178.00	125.08	947.56	567.35	21.627	258.00	179.92	1364.04	817.10	23.559
179.00	125.76	952.77	570.47	21.656	259.00	180.61	1369.24	820.22	23.580
180.00	126.45	957.98	573.60	21.685	260.00	181.29	1374.44	823.34	23.600
181.00	127.14	963.20	576.72	21.714	261.00	181.98	1379.65	826.46	23.620
182.00	127.82	968.41	579.84	21.743	262.00	182.66	1384.85	829.58	23.639
183.00	128.51	973.62	582.97	21.771	263.00	183.35	1390.05	832.70	23.659
184.00	129.20	978.83	586.09	21.800	264.00	184.03	1395.25	835.82	23.679
185.00	129.88	984.04	589.22	21.828	265.00	184.72	1400.45	838.94	23.699
186.00	130.57	989.25	592.34	21.856	266.00	185.40	1405.65	842.06	23.718
187.00	131.26	994.46	595.47	21.884	267.00	186.09	1410.86	845.18	23.738
188.00	131.94	999.67	598.59	21.912	268.00	186.77	1416.06	848.30	23.757
189.00	132.63	1004.88	601.71	21.939	269.00	187.46	1421.26	851.42	23.777
190.00	133.31	1010.09	604.84	21.967	270.00	188.14	1426.46	854.54	23.796
191.00	134.00	1015.30	607.96	21.994	271.00	188.83	1431.66	857.66	23.815
192.00	134.69	1020.51	611.08	22.021	272.00	189.51	1436.86	860.78	23.834
193.00	135.37	1025.72	614.21	22.048	273.00	190.20	1442.06	863.90	23.853
194.00	136.06	1030.92	617.33	22.075	274.00	190.88	1447.26	867.01	23.872
195.00	136.74	1036.13	620.45	22.102	275.00	191.57	1452.46	870.13	23.891
196.00	137.43	1041.34	623.58	22.129	276.00	192.25	1457.67	873.25	23.910
197.00	138.12	1046.55	626.70	22.155	277.00	192.94	1462.87	876.37	23.929
198.00	138.80	1051.76	629.82	22.182	278.00	193.62	1468.07	879.49	23.948
199.00	139.49	1056.97	632.95	22.208	279.00	194.31	1473.27	882.61	23.966
200.00	140.17	1062.17	636.07	22.234	280.00	194.99	1478.47	885.73	23.985
201.00	140.86	1067.38	639.19	22.260	281.00	195.68	1483.67	888.85	24.004
202.00	141.55	1072.59	642.32	22.286	282.00	196.36	1488.87	891.97	24.022
203.00	142.23	1077.80	645.44	22.312	283.00	197.04	1494.07	895.09	24.040
204.00	142.92	1083.01	648.56	22.337	284.00	197.73	1499.27	898.21	24.059
205.00	143.60	1088.21	651.68	22.363	285.00	198.41	1504.47	901.33	24.077
206.00	144.29	1093.42	654.81	22.388	286.00	199.10	1509.67	904.45	24.095
207.00	144.97	1098.63	657.93	22.413	287.00	199.78	1514.87	907.56	24.113
208.00	145.66	1103.83	661.05	22.438	288.00	200.47	1520.07	910.68	24.132
209.00	146.35	1109.04	664.17	22.463	289.00	201.15	1525.27	913.80	24.150
210.00	147.03	1114.25	667.30	22.488	290.00	201.84	1530.47	916.92	24.167
211.00	147.72	1119.45	670.42	22.513	291.00	202.52	1535.67	920.04	24.185
212.00	148.40	1124.66	673.54	22.537	292.00	203.21	1540.87	923.16	24.203
213.00	149.09	1129.87	676.66	22.562	293.00	203.89	1546.07	926.28	24.221
214.00	149.77	1135.07	679.78	22.586	294.00	204.58	1551.27	929.40	24.239
215.00	150.46	1140.28	682.91	22.611	295.00	205.26	1556.47	932.52	24.256
216.00	151.15	1145.48	686.03	22.635	296.00	205.94	1561.67	935.63	24.274
217.00	151.83	1150.69	689.15	22.659	297.00	206.63	1566.87	938.75	24.292
218.00	152.52	1155.90	692.27	22.683	298.00	207.31	1572.07	941.87	24.309
219.00	153.20	1161.10	695.39	22.707	299.00	208.00	1577.27	944.99	24.326
220.00	153.89	1166.31	698.51	22.730	300.00	208.68	1582.47	948.11	24.344

35.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	38.28	334.81	199.06	15.672
					62.00	38.88	340.15	202.26	15.759
					63.00	39.49	345.49	205.45	15.844
					64.00	40.09	350.82	208.64	15.928
					65.00	40.69	356.15	211.83	16.011
					66.00	41.30	361.47	215.02	16.092
					67.00	41.90	366.80	218.21	16.172
					68.00	42.50	372.11	221.39	16.251
					69.00	43.10	377.43	224.57	16.329
					70.00	43.70	382.74	227.75	16.405
					71.00	44.30	388.05	230.93	16.480
					72.00	44.90	393.35	234.11	16.555
					73.00	45.50	398.66	237.28	16.628
					74.00	46.10	403.96	240.45	16.700
					75.00	46.70	409.26	243.63	16.771
					76.00	47.30	414.55	246.80	16.841
					77.00	47.90	419.85	249.97	16.910
					78.00	48.50	425.14	253.13	16.979
					79.00	49.10	430.43	256.30	17.046
					80.00	49.70	435.71	259.47	17.113
					81.00	50.29	441.00	262.63	17.178
					82.00	50.89	446.28	265.80	17.243
					83.00	51.49	451.56	268.96	17.307
					84.00	52.09	456.84	272.12	17.370
					85.00	52.68	462.12	275.28	17.433
					86.00	53.28	467.39	278.44	17.494
					87.00	53.88	472.67	281.60	17.555
					88.00	54.47	477.94	284.75	17.616
					89.00	55.07	483.21	287.91	17.675
					90.00	55.67	488.48	291.07	17.734
3.00	5.52	24.73	5.17	1.709	91.00	56.26	493.75	294.22	17.792
4.00	5.63	26.58	6.63	2.263	92.00	56.86	499.02	297.38	17.850
5.00	5.77	28.90	8.45	2.800	93.00	57.45	504.28	300.53	17.907
6.00	5.94	31.69	10.61	3.304	94.00	58.05	509.54	303.68	17.963
7.00	6.16	34.79	12.93	3.786	95.00	58.64	514.81	306.83	18.019
8.00	6.43	38.51	15.71	4.282	96.00	59.24	520.07	309.98	18.074
9.00	6.75	42.98	19.06	4.808	97.00	59.83	525.33	313.14	18.128
10.00	7.11	47.97	22.75	5.333	98.00	60.43	530.59	316.28	18.182
					99.00	61.02	535.84	319.43	18.236
					100.00	61.62	541.10	322.58	18.288
11.00	7.53	53.34	26.65	5.845	101.00	62.21	546.35	325.73	18.341
12.00	7.99	58.99	30.65	6.336	102.00	62.80	551.61	328.88	18.393
13.00	8.50	64.84	34.70	6.804	103.00	63.40	556.86	332.02	18.444
14.00	9.04	70.83	38.75	7.248	104.00	63.99	562.11	335.17	18.495
15.00	9.62	76.90	42.78	7.666	105.00	64.58	567.36	338.32	18.545
16.00	10.22	83.00	46.76	8.060	106.00	65.18	572.61	341.46	18.595
17.00	10.84	89.11	50.68	8.431	107.00	65.77	577.86	344.61	18.644
18.00	11.46	95.21	54.55	8.780	108.00	66.36	583.11	347.75	18.693
19.00	12.10	101.28	58.37	9.108	109.00	66.96	588.36	350.89	18.741
20.00	12.74	107.32	62.13	9.417	110.00	67.55	593.60	354.04	18.789
21.00	13.39	113.31	65.84	9.710	111.00	68.14	598.85	357.18	18.836
22.00	14.03	119.27	69.50	9.987	112.00	68.74	604.09	360.32	18.883
23.00	14.68	125.18	73.13	10.250	113.00	69.33	609.34	363.46	18.930
24.00	15.32	131.05	76.71	10.500	114.00	69.92	614.58	366.60	18.976
25.00	15.97	136.89	80.27	10.738	115.00	70.51	619.82	369.74	19.022
26.00	16.61	142.69	83.79	10.965	116.00	71.11	625.06	372.88	19.067
27.00	17.25	148.46	87.28	11.183	117.00	71.70	630.30	376.02	19.112
28.00	17.89	154.20	90.75	11.392	118.00	72.29	635.54	379.16	19.157
29.00	18.53	159.91	94.20	11.592	119.00	72.88	640.78	382.30	19.201
30.00	19.16	165.59	97.63	11.785	120.00	73.48	646.02	385.44	19.245
31.00	19.80	171.25	101.04	11.971	121.00	74.07	651.26	388.58	19.288
32.00	20.43	176.89	104.43	12.149	122.00	74.66	656.49	391.72	19.332
33.00	21.06	182.50	107.81	12.322	123.00	75.25	661.73	394.86	19.374
34.00	21.69	188.10	111.17	12.489	124.00	75.84	666.97	397.99	19.417
35.00	22.32	193.67	114.52	12.651	125.00	76.43	672.20	401.13	19.459
36.00	22.95	199.23	117.86	12.808	126.00	77.03	677.44	404.27	19.500
37.00	23.57	204.78	121.18	12.959	127.00	77.62	682.67	407.40	19.542
38.00	24.19	210.31	124.50	13.107	128.00	78.21	687.90	410.54	19.583
39.00	24.82	215.82	127.81	13.250	129.00	78.80	693.14	413.68	19.624
40.00	25.44	221.32	131.10	13.389	130.00	79.39	698.37	416.81	19.664
41.00	26.06	226.81	134.39	13.525	131.00	79.98	703.60	419.95	19.704
42.00	26.68	232.29	137.68	13.657	132.00	80.57	708.83	423.08	19.744
43.00	27.30	237.75	140.95	13.785	133.00	81.16	714.06	426.22	19.783
44.00	27.91	243.21	144.22	13.911	134.00	81.75	719.29	429.35	19.823
45.00	28.53	248.65	147.48	14.033	135.00	82.35	724.52	432.49	19.861
46.00	29.14	254.09	150.74	14.153	136.00	82.94	729.75	435.62	19.900
47.00	29.76	259.52	153.99	14.270	137.00	83.53	734.98	438.75	19.938
48.00	30.37	264.94	157.23	14.384	138.00	84.12	740.21	441.89	19.976
49.00	30.98	270.35	160.47	14.495	139.00	84.71	745.43	445.02	20.014
50.00	31.59	275.76	163.71	14.604	140.00	85.30	750.66	448.15	20.052
51.00	32.20	281.15	166.94	14.711					
52.00	32.81	286.55	170.17	14.816					
53.00	33.42	291.93	173.39	14.919					
54.00	34.03	297.31	176.61	15.019					
55.00	34.64	302.68	179.83	15.118					
56.00	35.25	308.05	183.04	15.214					
57.00	35.86	313.41	186.25	15.309					
58.00	36.46	318.77	189.46	15.403					
59.00	37.07	324.12	192.66	15.494					
60.00	37.67	329.47	195.86	15.584					

35.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	85.89	755.89	451.28	20.089	221.00	133.00	1173.08	701.40	22.433
142.00	86.48	761.11	454.42	20.126	222.00	133.59	1178.28	704.52	22.456
143.00	87.07	766.34	457.55	20.162	223.00	134.17	1183.49	707.65	22.480
144.00	87.66	771.56	460.68	20.199	224.00	134.76	1188.70	710.77	22.503
145.00	88.25	776.79	463.81	20.235	225.00	135.35	1193.90	713.89	22.526
146.00	88.84	782.01	466.94	20.271	226.00	135.94	1199.11	717.01	22.549
147.00	89.43	787.24	470.08	20.306	227.00	136.52	1204.32	720.14	22.572
148.00	90.02	792.46	473.21	20.342	228.00	137.11	1209.52	723.26	22.595
149.00	90.61	797.69	476.34	20.377	229.00	137.70	1214.73	726.38	22.618
150.00	91.20	802.91	479.47	20.412	230.00	138.29	1219.94	729.50	22.640
151.00	91.79	808.13	482.60	20.447	231.00	138.88	1225.14	732.62	22.663
152.00	92.38	813.35	485.73	20.481	232.00	139.46	1230.35	735.75	22.686
153.00	92.97	818.57	488.86	20.515	233.00	140.05	1235.55	738.87	22.708
154.00	93.56	823.80	491.99	20.549	234.00	140.64	1240.76	741.99	22.730
155.00	94.15	829.02	495.12	20.583	235.00	141.23	1245.97	745.11	22.752
156.00	94.74	834.24	498.25	20.617	236.00	141.81	1251.17	748.23	22.775
157.00	95.33	839.46	501.38	20.650	237.00	142.40	1256.38	751.35	22.797
158.00	95.92	844.68	504.51	20.683	238.00	142.99	1261.58	754.48	22.818
159.00	96.51	849.90	507.64	20.716	239.00	143.58	1266.79	757.60	22.840
160.00	97.10	855.12	510.76	20.749	240.00	144.16	1271.99	760.72	22.862
161.00	97.69	860.34	513.89	20.781	241.00	144.75	1277.20	763.84	22.884
162.00	98.28	865.56	517.02	20.814	242.00	145.34	1282.40	766.96	22.905
163.00	98.87	870.78	520.15	20.846	243.00	145.93	1287.61	770.08	22.927
164.00	99.46	875.99	523.28	20.878	244.00	146.51	1292.81	773.20	22.948
165.00	100.04	881.21	526.41	20.910	245.00	147.10	1298.02	776.33	22.969
166.00	100.63	886.43	529.53	20.941	246.00	147.69	1303.22	779.45	22.991
167.00	101.22	891.65	532.66	20.972	247.00	148.28	1308.43	782.57	23.012
168.00	101.81	896.86	535.79	21.004	248.00	148.86	1313.63	785.69	23.033
169.00	102.40	902.08	538.92	21.035	249.00	149.45	1318.83	788.81	23.054
170.00	102.99	907.30	542.05	21.065	250.00	150.04	1324.04	791.93	23.074
171.00	103.58	912.51	545.17	21.096	251.00	150.63	1329.24	795.05	23.095
172.00	104.17	917.73	548.30	21.126	252.00	151.21	1334.45	798.17	23.116
173.00	104.76	922.95	551.43	21.157	253.00	151.80	1339.65	801.29	23.137
174.00	105.35	928.16	554.55	21.187	254.00	152.39	1344.85	804.41	23.157
175.00	105.94	933.38	557.68	21.216	255.00	152.98	1350.06	807.53	23.178
176.00	106.52	938.59	560.81	21.246	256.00	153.56	1355.26	810.66	23.198
177.00	107.11	943.81	563.93	21.276	257.00	154.15	1360.46	813.78	23.218
178.00	107.70	949.02	567.06	21.305	258.00	154.74	1365.67	816.90	23.238
179.00	108.29	954.24	570.19	21.334	259.00	155.32	1370.87	820.02	23.259
180.00	108.88	959.45	573.31	21.363	260.00	155.91	1376.08	823.14	23.279
181.00	109.47	964.67	576.44	21.392	261.00	156.50	1381.28	826.26	23.299
182.00	110.06	969.88	579.56	21.421	262.00	157.09	1386.48	829.38	23.318
183.00	110.65	975.09	582.69	21.450	263.00	157.67	1391.68	832.50	23.338
184.00	111.23	980.31	585.82	21.478	264.00	158.26	1396.89	835.62	23.358
185.00	111.82	985.52	588.94	21.506	265.00	158.85	1402.09	838.74	23.378
186.00	112.41	990.73	592.07	21.534	266.00	159.44	1407.29	841.86	23.397
187.00	113.00	995.94	595.19	21.562	267.00	160.02	1412.50	844.98	23.417
188.00	113.59	1001.16	598.32	21.590	268.00	160.61	1417.70	848.10	23.436
189.00	114.18	1006.37	601.44	21.618	269.00	161.20	1422.90	851.22	23.456
190.00	114.77	1011.58	604.57	21.645	270.00	161.78	1428.10	854.34	23.475
191.00	115.35	1016.79	607.69	21.673	271.00	162.37	1433.31	857.46	23.494
192.00	115.94	1022.01	610.82	21.700	272.00	162.96	1438.51	860.58	23.513
193.00	116.53	1027.22	613.94	21.727	273.00	163.55	1443.71	863.70	23.532
194.00	117.12	1032.43	617.07	21.754	274.00	164.13	1448.91	866.82	23.551
195.00	117.71	1037.64	620.19	21.781	275.00	164.72	1454.12	869.94	23.570
196.00	118.30	1042.85	623.32	21.807	276.00	165.31	1459.32	873.06	23.589
197.00	118.88	1048.06	626.44	21.834	277.00	165.89	1464.52	876.18	23.608
198.00	119.47	1053.27	629.56	21.860	278.00	166.48	1469.72	879.30	23.627
199.00	120.06	1058.48	632.69	21.886	279.00	167.07	1474.92	882.42	23.645
200.00	120.65	1063.69	635.81	21.913	280.00	167.66	1480.13	885.54	23.664
201.00	121.24	1068.90	638.94	21.939	281.00	168.24	1485.33	888.66	23.683
202.00	121.83	1074.11	642.06	21.964	282.00	168.83	1490.53	891.78	23.701
203.00	122.41	1079.32	645.18	21.990	283.00	169.42	1495.73	894.90	23.720
204.00	123.00	1084.53	648.31	22.016	284.00	170.00	1500.93	898.02	23.738
205.00	123.59	1089.74	651.43	22.041	285.00	170.59	1506.14	901.14	23.756
206.00	124.18	1094.95	654.56	22.067	286.00	171.18	1511.34	904.26	23.774
207.00	124.77	1100.16	657.68	22.092	287.00	171.76	1516.54	907.38	23.793
208.00	125.36	1105.37	660.80	22.117	288.00	172.35	1521.74	910.50	23.811
209.00	125.94	1110.58	663.93	22.142	289.00	172.94	1526.94	913.62	23.829
210.00	126.53	1115.79	667.05	22.167	290.00	173.53	1532.14	916.74	23.847
211.00	127.12	1121.00	670.17	22.191	291.00	174.11	1537.34	919.86	23.865
212.00	127.71	1126.21	673.30	22.216	292.00	174.70	1542.54	922.98	23.882
213.00	128.30	1131.41	676.42	22.241	293.00	175.29	1547.75	926.10	23.900
214.00	128.88	1136.62	679.54	22.265	294.00	175.87	1552.95	929.22	23.918
215.00	129.47	1141.83	682.66	22.289	295.00	176.46	1558.15	932.34	23.936
216.00	130.06	1147.04	685.79	22.313	296.00	177.05	1563.35	935.45	23.953
217.00	130.65	1152.25	688.91	22.338	297.00	177.63	1568.55	938.57	23.971
218.00	131.23	1157.45	692.03	22.361	298.00	178.22	1573.75	941.69	23.988
219.00	131.82	1162.66	695.16	22.385	299.00	178.81	1578.95	944.81	24.006
220.00	132.41	1167.87	698.28	22.409	300.00	179.40	1584.15	947.93	24.023

40.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	33.84	335.55	198.38	15.386
					62.00	34.37	340.90	201.59	15.473
					63.00	34.90	346.25	204.79	15.558
					64.00	35.43	351.59	207.99	15.642
					65.00	35.96	356.93	211.18	15.725
					66.00	36.49	362.27	214.38	15.807
					67.00	37.02	367.61	217.57	15.887
					68.00	37.54	372.94	220.76	15.966
					69.00	38.07	378.26	223.95	16.044
					70.00	38.60	383.59	227.14	16.120
					71.00	39.13	388.91	230.32	16.196
					72.00	39.65	394.22	233.51	16.270
					73.00	40.18	399.54	236.69	16.343
					74.00	40.71	404.85	239.87	16.416
					75.00	41.23	410.16	243.05	16.487
					76.00	41.76	415.47	246.22	16.557
					77.00	42.28	420.77	249.40	16.627
					78.00	42.81	426.07	252.57	16.695
					79.00	43.33	431.37	255.74	16.762
					80.00	43.86	436.67	258.92	16.829
					81.00	44.38	441.96	262.09	16.895
					82.00	44.90	447.26	265.25	16.960
3.00	5.42	27.36	5.39	1.662	83.00	45.43	452.55	268.42	17.024
4.00	5.52	29.17	6.79	2.204	84.00	45.95	457.83	271.59	17.087
5.00	5.65	31.42	8.54	2.725	85.00	46.47	463.12	274.75	17.150
6.00	5.80	34.10	10.59	3.211	86.00	47.00	468.40	277.92	17.212
7.00	5.99	37.07	12.78	3.672	87.00	47.52	473.69	281.08	17.273
8.00	6.22	40.63	15.42	4.146	88.00	48.04	478.97	284.24	17.333
9.00	6.49	44.91	18.62	4.650	89.00	48.57	484.25	287.40	17.393
10.00	6.79	49.69	22.16	5.153	90.00	49.09	489.53	290.56	17.452
					91.00	49.61	494.80	293.72	17.510
11.00	7.14	54.83	25.90	5.642	92.00	50.13	500.08	296.88	17.568
12.00	7.52	60.24	29.76	6.113	93.00	50.65	505.35	300.04	17.625
13.00	7.94	65.85	33.69	6.562	94.00	51.18	510.62	303.20	17.681
14.00	8.38	71.62	37.64	6.990	95.00	51.70	515.89	306.35	17.737
15.00	8.86	77.50	41.59	7.395	96.00	52.22	521.16	309.51	17.792
16.00	9.36	83.44	45.51	7.779	97.00	52.74	526.43	312.66	17.846
17.00	9.87	89.43	49.40	8.141	98.00	53.26	531.69	315.82	17.901
18.00	10.41	95.43	53.25	8.484	99.00	53.78	536.96	318.97	17.954
19.00	10.95	101.43	57.06	8.809	100.00	54.30	542.22	322.12	18.007
20.00	11.49	107.41	60.82	9.116					
21.00	12.05	113.37	64.54	9.407	101.00	54.82	547.48	325.27	18.059
22.00	12.60	119.31	68.22	9.683	102.00	55.34	552.74	328.42	18.111
23.00	13.16	125.21	71.87	9.945	103.00	55.86	558.00	331.57	18.162
24.00	13.72	131.09	75.47	10.195	104.00	56.39	563.26	334.72	18.213
25.00	14.28	136.93	79.05	10.434	105.00	56.91	568.52	337.87	18.263
26.00	14.84	142.75	82.59	10.662	106.00	57.43	573.77	341.02	18.313
27.00	15.40	148.53	86.11	10.880	107.00	57.95	579.03	344.17	18.363
28.00	15.96	154.29	89.60	11.090	108.00	58.47	584.28	347.32	18.412
29.00	16.52	160.02	93.07	11.291	109.00	58.98	589.54	350.46	18.460
30.00	17.07	165.72	96.52	11.484	110.00	59.50	594.79	353.61	18.508
31.00	17.63	171.40	99.95	11.670	111.00	60.02	600.04	356.76	18.555
32.00	18.18	177.06	103.36	11.850	112.00	60.54	605.29	359.90	18.603
33.00	18.74	182.70	106.76	12.024	113.00	61.06	610.54	363.05	18.649
34.00	19.29	188.32	110.14	12.191	114.00	61.58	615.79	366.19	18.695
35.00	19.84	193.92	113.51	12.354	115.00	62.10	621.04	369.33	18.741
36.00	20.39	199.50	116.87	12.511	116.00	62.62	626.28	372.48	18.787
37.00	20.94	205.07	120.21	12.663	117.00	63.14	631.53	375.62	18.832
38.00	21.48	210.62	123.54	12.811	118.00	63.66	636.77	378.76	18.876
39.00	22.03	216.15	126.87	12.955	119.00	64.18	642.02	381.91	18.921
40.00	22.57	221.68	130.18	13.095	120.00	64.69	647.26	385.05	18.964
41.00	23.12	227.19	133.48	13.231	121.00	65.21	652.51	388.19	19.008
42.00	23.66	232.69	136.78	13.364	122.00	65.73	657.75	391.33	19.051
43.00	24.20	238.17	140.07	13.493	123.00	66.25	662.99	394.47	19.094
44.00	24.75	243.65	143.35	13.619	124.00	66.77	668.23	397.61	19.136
45.00	25.29	249.12	146.63	13.741	125.00	67.29	673.47	400.75	19.178
46.00	25.83	254.57	149.90	13.861	126.00	67.80	678.71	403.89	19.220
47.00	26.36	260.02	153.16	13.979	127.00	68.32	683.95	407.03	19.262
48.00	26.90	265.46	156.42	14.093	128.00	68.84	689.19	410.17	19.303
49.00	27.44	270.89	159.67	14.205	129.00	69.36	694.42	413.30	19.343
50.00	27.98	276.31	162.92	14.315	130.00	69.88	699.66	416.44	19.384
51.00	28.51	281.73	166.16	14.422	131.00	70.39	704.90	419.58	19.424
52.00	29.05	287.14	169.40	14.527	132.00	70.91	710.13	422.72	19.464
53.00	29.58	292.54	172.64	14.630	133.00	71.43	715.37	425.85	19.503
54.00	30.12	297.93	175.87	14.731	134.00	71.95	720.60	428.99	19.543
55.00	30.65	303.32	179.09	14.829	135.00	72.46	725.84	432.13	19.581
56.00	31.18	308.71	182.31	14.926	136.00	72.98	731.07	435.26	19.620
57.00	31.72	314.08	185.53	15.022	137.00	73.50	736.30	438.40	19.658
58.00	32.25	319.46	188.75	15.115	138.00	74.02	741.53	441.53	19.696
59.00	32.78	324.82	191.96	15.207	139.00	74.53	746.77	444.67	19.734
60.00	33.31	330.19	195.17	15.297	140.00	75.05	752.00	447.81	19.772

40.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	75.57	757.23	450.94	19.809	221.00	116.82	1174.64	701.17	22.154
142.00	76.09	762.46	454.07	19.846	222.00	117.33	1179.85	704.29	22.178
143.00	76.60	767.69	457.21	19.883	223.00	117.85	1185.06	707.42	22.201
144.00	77.12	772.92	460.34	19.919	224.00	118.36	1190.27	710.54	22.224
145.00	77.64	778.15	463.48	19.955	225.00	118.88	1195.48	713.66	22.248
146.00	78.15	783.37	466.61	19.991	226.00	119.39	1200.69	716.79	22.271
147.00	78.67	788.60	469.74	20.027	227.00	119.90	1205.89	719.91	22.294
148.00	79.19	793.83	472.88	20.062	228.00	120.42	1211.10	723.03	22.317
149.00	79.70	799.06	476.01	20.098	229.00	120.93	1216.31	726.16	22.339
150.00	80.22	804.28	479.14	20.133	230.00	121.45	1221.52	729.28	22.362
151.00	80.74	809.51	482.27	20.167	231.00	121.96	1226.73	732.40	22.385
152.00	81.25	814.74	485.41	20.202	232.00	122.48	1231.93	735.52	22.407
153.00	81.77	819.96	488.54	20.236	233.00	122.99	1237.14	738.65	22.430
154.00	82.29	825.19	491.67	20.270	234.00	123.51	1242.35	741.77	22.452
155.00	82.80	830.41	494.80	20.304	235.00	124.02	1247.56	744.89	22.474
156.00	83.32	835.64	497.93	20.337	236.00	124.53	1252.76	748.01	22.496
157.00	83.84	840.86	501.06	20.371	237.00	125.05	1257.97	751.14	22.518
158.00	84.35	846.08	504.19	20.404	238.00	125.56	1263.18	754.26	22.540
159.00	84.87	851.31	507.33	20.437	239.00	126.08	1268.39	757.38	22.562
160.00	85.38	856.53	510.46	20.470	240.00	126.59	1273.59	760.50	22.584
161.00	85.90	861.75	513.59	20.502	241.00	127.11	1278.80	763.63	22.605
162.00	86.42	866.97	516.72	20.535	242.00	127.62	1284.01	766.75	22.627
163.00	86.93	872.20	519.85	20.567	243.00	128.13	1289.21	769.87	22.648
164.00	87.45	877.42	522.98	20.599	244.00	128.65	1294.42	772.99	22.670
165.00	87.97	882.64	526.11	20.630	245.00	129.16	1299.62	776.11	22.691
166.00	88.48	887.86	529.24	20.662	246.00	129.68	1304.83	779.24	22.712
167.00	89.00	893.08	532.37	20.693	247.00	130.19	1310.04	782.36	22.733
168.00	89.51	898.30	535.49	20.724	248.00	130.71	1315.24	785.48	22.754
169.00	90.03	903.52	538.62	20.755	249.00	131.22	1320.45	788.60	22.775
170.00	90.55	908.74	541.75	20.786	250.00	131.73	1325.65	791.72	22.796
171.00	91.06	913.96	544.88	20.817	251.00	132.25	1330.86	794.85	22.817
172.00	91.58	919.18	548.01	20.847	252.00	132.76	1336.07	797.97	22.838
173.00	92.09	924.40	551.14	20.878	253.00	133.28	1341.27	801.09	22.858
174.00	92.61	929.62	554.27	20.908	254.00	133.79	1346.48	804.21	22.879
175.00	93.12	934.84	557.39	20.938	255.00	134.30	1351.68	807.33	22.899
176.00	93.64	940.05	560.52	20.967	256.00	134.82	1356.89	810.45	22.920
177.00	94.16	945.27	563.65	20.997	257.00	135.33	1362.09	813.57	22.940
178.00	94.67	950.49	566.78	21.026	258.00	135.85	1367.30	816.70	22.960
179.00	95.19	955.71	569.91	21.055	259.00	136.36	1372.50	819.82	22.980
180.00	95.70	960.92	573.03	21.084	260.00	136.87	1377.71	822.94	23.000
181.00	96.22	966.14	576.16	21.113	261.00	137.39	1382.91	826.06	23.020
182.00	96.73	971.36	579.29	21.142	262.00	137.90	1388.12	829.18	23.040
183.00	97.25	976.57	582.42	21.171	263.00	138.42	1393.32	832.30	23.060
184.00	97.76	981.79	585.54	21.199	264.00	138.93	1398.53	835.42	23.080
185.00	98.28	987.00	588.67	21.227	265.00	139.44	1403.73	838.54	23.100
186.00	98.79	992.22	591.80	21.255	266.00	139.96	1408.93	841.66	23.119
187.00	99.31	997.44	594.92	21.283	267.00	140.47	1414.14	844.79	23.139
188.00	99.82	1002.65	598.05	21.311	268.00	140.99	1419.34	847.91	23.158
189.00	100.34	1007.87	601.18	21.339	269.00	141.50	1424.55	851.03	23.177
190.00	100.86	1013.08	604.30	21.366	270.00	142.01	1429.75	854.15	23.197
191.00	101.37	1018.29	607.43	21.394	271.00	142.53	1434.95	857.27	23.216
192.00	101.89	1023.51	610.55	21.421	272.00	143.04	1440.16	860.39	23.235
193.00	102.40	1028.72	613.68	21.448	273.00	143.56	1445.36	863.51	23.254
194.00	102.92	1033.94	616.81	21.475	274.00	144.07	1450.57	866.63	23.273
195.00	103.43	1039.15	619.93	21.502	275.00	144.58	1455.77	869.75	23.292
196.00	103.95	1044.36	623.06	21.529	276.00	145.10	1460.97	872.87	23.311
197.00	104.46	1049.57	626.18	21.555	277.00	145.61	1466.18	875.99	23.330
198.00	104.98	1054.79	629.31	21.582	278.00	146.13	1471.38	879.11	23.349
199.00	105.49	1060.00	632.43	21.608	279.00	146.64	1476.58	882.23	23.367
200.00	106.01	1065.22	635.56	21.634	280.00	147.15	1481.79	885.35	23.386
201.00	106.52	1070.43	638.68	21.660	281.00	147.67	1486.99	888.48	23.405
202.00	107.04	1075.64	641.81	21.686	282.00	148.18	1492.19	891.60	23.423
203.00	107.55	1080.85	644.93	21.712	283.00	148.70	1497.39	894.72	23.441
204.00	108.07	1086.06	648.06	21.737	284.00	149.21	1502.60	897.84	23.460
205.00	108.58	1091.28	651.18	21.763	285.00	149.72	1507.80	900.96	23.478
206.00	109.10	1096.49	654.31	21.788	286.00	150.24	1513.00	904.08	23.496
207.00	109.61	1101.70	657.43	21.813	287.00	150.75	1518.21	907.20	23.515
208.00	110.13	1106.91	660.56	21.838	288.00	151.26	1523.41	910.32	23.533
209.00	110.64	1112.12	663.68	21.863	289.00	151.78	1528.61	913.44	23.551
210.00	111.16	1117.33	666.81	21.888	290.00	152.29	1533.81	916.56	23.569
211.00	111.67	1122.54	669.93	21.913	291.00	152.81	1539.02	919.68	23.587
212.00	112.19	1127.75	673.06	21.938	292.00	153.32	1544.22	922.80	23.604
213.00	112.70	1132.96	676.18	21.962	293.00	153.83	1549.42	925.92	23.622
214.00	113.21	1138.17	679.30	21.986	294.00	154.35	1554.62	929.04	23.640
215.00	113.73	1143.38	682.43	22.011	295.00	154.86	1559.82	932.16	23.658
216.00	114.24	1148.59	685.55	22.035	296.00	155.37	1565.03	935.28	23.675
217.00	114.76	1153.80	688.68	22.059	297.00	155.89	1570.23	938.40	23.693
218.00	115.27	1159.01	691.80	22.083	298.00	156.40	1575.43	941.52	23.710
219.00	115.79	1164.22	694.92	22.107	299.00	156.92	1580.63	944.64	23.728
220.00	116.30	1169.43	698.05	22.131	300.00	157.43	1585.83	947.76	23.745

45.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	30.40	336.32	197.73	15.132
					62.00	30.87	341.69	200.94	15.219
					63.00	31.34	347.05	204.15	15.305
					64.00	31.81	352.41	207.35	15.389
					65.00	32.28	357.76	210.56	15.472
					66.00	32.75	363.11	213.76	15.554
					67.00	33.22	368.45	216.96	15.635
					68.00	33.69	373.79	220.16	15.714
					69.00	34.16	379.13	223.35	15.792
					70.00	34.63	384.47	226.55	15.868
					71.00	35.10	389.80	229.74	15.944
					72.00	35.57	395.13	232.93	16.018
					73.00	36.04	400.45	236.11	16.092
					74.00	36.51	405.77	239.30	16.164
					75.00	36.98	411.09	242.48	16.236
					76.00	37.45	416.41	245.67	16.306
					77.00	37.91	421.72	248.85	16.376
					78.00	38.38	427.03	252.03	16.444
					79.00	38.85	432.34	255.20	16.512
					80.00	39.32	437.65	258.38	16.579
					81.00	39.78	442.95	261.56	16.644
					82.00	40.25	448.25	264.73	16.709
					83.00	40.72	453.55	267.90	16.774
					84.00	41.18	458.85	271.07	16.837
					85.00	41.65	464.15	274.24	16.900
					86.00	42.11	469.44	277.41	16.962
					87.00	42.58	474.73	280.58	17.023
					88.00	43.04	480.02	283.75	17.083
					89.00	43.51	485.31	286.91	17.143
					90.00	43.97	490.59	290.08	17.202
					91.00	44.44	495.87	293.24	17.261
					92.00	44.90	501.16	296.40	17.318
					93.00	45.37	506.44	299.56	17.375
					94.00	45.83	511.72	302.73	17.432
					95.00	46.30	516.99	305.89	17.488
					96.00	46.76	522.27	309.04	17.543
					97.00	47.23	527.54	312.20	17.598
					98.00	47.69	532.81	315.36	17.652
					99.00	48.15	538.09	318.52	17.705
					100.00	48.62	543.36	321.67	17.758
					101.00	49.08	548.62	324.83	17.810
					102.00	49.54	553.89	327.98	17.862
					103.00	50.01	559.16	331.14	17.914
					104.00	50.47	564.42	334.29	17.965
					105.00	50.93	569.69	337.44	18.015
					106.00	51.40	574.95	340.59	18.065
					107.00	51.86	580.21	343.75	18.114
					108.00	52.32	585.47	346.90	18.163
					109.00	52.78	590.73	350.05	18.212
					110.00	53.25	595.99	353.20	18.260
					111.00	53.71	601.25	356.34	18.307
					112.00	54.17	606.50	359.49	18.354
					113.00	54.63	611.76	362.64	18.401
					114.00	55.10	617.01	365.79	18.447
					115.00	55.56	622.26	368.93	18.493
					116.00	56.02	627.52	372.08	18.539
					117.00	56.48	632.77	375.23	18.584
					118.00	56.94	638.02	378.37	18.629
					119.00	57.40	643.27	381.52	18.673
					120.00	57.87	648.52	384.66	18.717
					121.00	58.33	653.76	387.80	18.760
					122.00	58.79	659.01	390.95	18.804
					123.00	59.25	664.26	394.09	18.846
					124.00	59.71	669.50	397.23	18.889
					125.00	60.17	674.75	400.38	18.931
					126.00	60.63	679.99	403.52	18.973
					127.00	61.10	685.24	406.66	19.014
					128.00	61.56	690.48	409.80	19.055
					129.00	62.02	695.72	412.94	19.096
					130.00	62.48	700.96	416.08	19.137
					131.00	62.94	706.20	419.22	19.177
					132.00	63.40	711.44	422.36	19.217
					133.00	63.86	716.68	425.50	19.256
					134.00	64.32	721.92	428.64	19.295
					135.00	64.78	727.16	431.78	19.334
					136.00	65.24	732.40	434.92	19.373
					137.00	65.70	737.63	438.05	19.411
					138.00	66.16	742.87	441.19	19.449
					139.00	66.62	748.11	444.33	19.487
					140.00	67.08	753.34	447.47	19.525
3.00	5.33	29.95	5.63	1.617					
4.00	5.43	31.73	6.98	2.150					
5.00	5.54	33.92	8.66	2.659					
6.00	5.68	36.51	10.62	3.128					
7.00	5.85	39.37	12.71	3.573					
8.00	6.05	42.80	15.23	4.030					
9.00	6.28	46.93	18.31	4.515					
10.00	6.54	51.54	21.72	5.001					
11.00	6.83	56.50	25.34	5.473					
12.00	7.16	61.72	29.08	5.927					
13.00	7.51	67.14	32.90	6.361					
14.00	7.89	72.72	36.76	6.774					
15.00	8.29	78.42	40.62	7.168					
16.00	8.71	84.21	44.49	7.541					
17.00	9.15	90.07	48.33	7.896					
18.00	9.61	95.96	52.15	8.233					
19.00	10.07	101.87	55.93	8.552					
20.00	10.55	107.78	59.68	8.856					
21.00	11.03	113.69	63.40	9.144					
22.00	11.52	119.59	67.08	9.419					
23.00	12.01	125.47	70.73	9.680					
24.00	12.50	131.33	74.35	9.929					
25.00	12.99	137.17	77.94	10.168					
26.00	13.48	142.98	81.49	10.396					
27.00	13.98	148.77	85.03	10.614					
28.00	14.47	154.53	88.54	10.824					
29.00	14.97	160.27	92.02	11.025					
30.00	15.46	165.99	95.49	11.219					
31.00	15.95	171.69	98.94	11.406					
32.00	16.45	177.36	102.36	11.586					
33.00	16.94	183.02	105.78	11.760					
34.00	17.43	188.65	109.18	11.928					
35.00	17.92	194.27	112.56	12.091					
36.00	18.41	199.87	115.93	12.249					
37.00	18.90	205.45	119.29	12.402					
38.00	19.38	211.02	122.64	12.550					
39.00	19.87	216.58	125.98	12.694					
40.00	20.36	222.12	129.30	12.835					
41.00	20.84	227.65	132.62	12.971					
42.00	21.32	233.17	135.93	13.104					
43.00	21.81	238.67	139.24	13.234					
44.00	22.29	244.16	142.53	13.360					
45.00	22.77	249.65	145.82	13.483					
46.00	23.25	255.12	149.10	13.604					
47.00	23.73	260.59	152.37	13.721					
48.00	24.21	266.04	155.64	13.836					
49.00	24.69	271.49	158.91	13.948					
50.00	25.17	276.93	162.16	14.058					
51.00	25.65	282.36	165.42	14.166					
52.00	26.12	287.78	168.67	14.271					
53.00	26.60	293.20	171.91	14.374					
54.00	27.08	298.61	175.15	14.475					
55.00	27.55	304.01	178.39	14.575					
56.00	28.03	309.41	181.62	14.672					
57.00	28.50	314.80	184.85	14.767					
58.00	28.98	320.19	188.07	14.861					
59.00	29.45	325.57	191.29	14.953					
60.00	29.92	330.95	194.51	15.043					

45.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	67.54	758.58	450.60	19.562	221.00	104.23	1176.21	700.94	21.908
142.00	68.00	763.81	453.74	19.599	222.00	104.69	1181.42	704.07	21.932
143.00	68.46	769.04	456.87	19.636	223.00	105.15	1186.63	707.19	21.955
144.00	68.92	774.28	460.01	19.672	224.00	105.60	1191.84	710.31	21.979
145.00	69.38	779.51	463.15	19.708	225.00	106.06	1197.05	713.44	22.002
146.00	69.84	784.74	466.28	19.744	226.00	106.52	1202.26	716.56	22.025
147.00	70.30	789.97	469.42	19.780	227.00	106.98	1207.47	719.69	22.048
148.00	70.76	795.21	472.55	19.816	228.00	107.43	1212.68	722.81	22.071
149.00	71.22	800.44	475.69	19.851	229.00	107.89	1217.89	725.93	22.094
150.00	71.68	805.67	478.82	19.886	230.00	108.35	1223.10	729.06	22.116
151.00	72.14	810.90	481.95	19.921	231.00	108.81	1228.31	732.18	22.139
152.00	72.60	816.13	485.09	19.955	232.00	109.26	1233.52	735.30	22.162
153.00	73.06	821.36	488.22	19.989	233.00	109.72	1238.73	738.43	22.184
154.00	73.52	826.58	491.36	20.023	234.00	110.18	1243.94	741.55	22.206
155.00	73.98	831.81	494.49	20.057	235.00	110.64	1249.15	744.68	22.228
156.00	74.44	837.04	497.62	20.091	236.00	111.09	1254.36	747.80	22.251
157.00	74.90	842.27	500.76	20.124	237.00	111.55	1259.57	750.92	22.273
158.00	75.36	847.49	503.89	20.157	238.00	112.01	1264.78	754.04	22.295
159.00	75.82	852.72	507.02	20.190	239.00	112.47	1269.99	757.17	22.316
160.00	76.27	857.95	510.15	20.223	240.00	112.92	1275.19	760.29	22.338
161.00	76.73	863.17	513.28	20.256	241.00	113.38	1280.40	763.41	22.360
162.00	77.19	868.40	516.42	20.288	242.00	113.84	1285.61	766.54	22.381
163.00	77.65	873.62	519.55	20.320	243.00	114.30	1290.82	769.66	22.403
164.00	78.11	878.85	522.68	20.352	244.00	114.75	1296.03	772.78	22.424
165.00	78.57	884.07	525.81	20.384	245.00	115.21	1301.23	775.91	22.446
166.00	79.03	889.30	528.94	20.416	246.00	115.67	1306.44	779.03	22.467
167.00	79.49	894.52	532.07	20.447	247.00	116.12	1311.65	782.15	22.488
168.00	79.95	899.74	535.20	20.478	248.00	116.58	1316.86	785.27	22.509
169.00	80.41	904.97	538.33	20.509	249.00	117.04	1322.06	788.40	22.530
170.00	80.87	910.19	541.46	20.540	250.00	117.50	1327.27	791.52	22.551
171.00	81.32	915.41	544.59	20.571	251.00	117.95	1332.48	794.64	22.572
172.00	81.78	920.63	547.72	20.601	252.00	118.41	1337.69	797.76	22.592
173.00	82.24	925.86	550.85	20.631	253.00	118.87	1342.89	800.89	22.613
174.00	82.70	931.08	553.98	20.661	254.00	119.33	1348.10	804.01	22.633
175.00	83.16	936.30	557.11	20.691	255.00	119.78	1353.31	807.13	22.654
176.00	83.62	941.52	560.24	20.721	256.00	120.24	1358.51	810.25	22.674
177.00	84.08	946.74	563.37	20.751	257.00	120.70	1363.72	813.37	22.695
178.00	84.53	951.96	566.50	20.780	258.00	121.15	1368.93	816.50	22.715
179.00	84.99	957.18	569.63	20.809	259.00	121.61	1374.13	819.62	22.735
180.00	85.45	962.40	572.76	20.838	260.00	122.07	1379.34	822.74	22.755
181.00	85.91	967.62	575.89	20.867	261.00	122.52	1384.54	825.86	22.775
182.00	86.37	972.84	579.02	20.896	262.00	122.98	1389.75	828.98	22.795
183.00	86.83	978.06	582.15	20.925	263.00	123.44	1394.96	832.11	22.815
184.00	87.29	983.27	585.27	20.953	264.00	123.90	1400.16	835.23	22.834
185.00	87.74	988.49	588.40	20.981	265.00	124.35	1405.37	838.35	22.854
186.00	88.20	993.71	591.53	21.009	266.00	124.81	1410.57	841.47	22.874
187.00	88.66	998.93	594.66	21.037	267.00	125.27	1415.78	844.59	22.893
188.00	89.12	1004.15	597.79	21.065	268.00	125.72	1420.99	847.71	22.913
189.00	89.58	1009.36	600.91	21.093	269.00	126.18	1426.19	850.84	22.932
190.00	90.04	1014.58	604.04	21.120	270.00	126.64	1431.40	853.96	22.951
191.00	90.49	1019.80	607.17	21.148	271.00	127.10	1436.60	857.08	22.971
192.00	90.95	1025.01	610.30	21.175	272.00	127.55	1441.81	860.20	22.990
193.00	91.41	1030.23	613.42	21.202	273.00	128.01	1447.01	863.32	23.009
194.00	91.87	1035.45	616.55	21.229	274.00	128.47	1452.22	866.44	23.028
195.00	92.33	1040.66	619.68	21.256	275.00	128.92	1457.42	869.56	23.047
196.00	92.79	1045.88	622.80	21.283	276.00	129.38	1462.63	872.69	23.066
197.00	93.24	1051.09	625.93	21.309	277.00	129.84	1467.83	875.81	23.085
198.00	93.70	1056.31	629.06	21.336	278.00	130.29	1473.04	878.93	23.103
199.00	94.16	1061.53	632.18	21.362	279.00	130.75	1478.24	882.05	23.122
200.00	94.62	1066.74	635.31	21.388	280.00	131.21	1483.44	885.17	23.141
201.00	95.08	1071.95	638.44	21.414	281.00	131.66	1488.65	888.29	23.159
202.00	95.53	1077.17	641.56	21.440	282.00	132.12	1493.85	891.41	23.178
203.00	95.99	1082.38	644.69	21.466	283.00	132.58	1499.06	894.53	23.196
204.00	96.45	1087.60	647.81	21.491	284.00	133.04	1504.26	897.65	23.215
205.00	96.91	1092.81	650.94	21.517	285.00	133.49	1509.47	900.77	23.233
206.00	97.37	1098.03	654.07	21.542	286.00	133.95	1514.67	903.90	23.251
207.00	97.82	1103.24	657.19	21.567	287.00	134.41	1519.87	907.02	23.269
208.00	98.28	1108.45	660.32	21.592	288.00	134.86	1525.08	910.14	23.287
209.00	98.74	1113.67	663.44	21.617	289.00	135.32	1530.28	913.26	23.305
210.00	99.20	1118.88	666.57	21.642	290.00	135.78	1535.48	916.38	23.323
211.00	99.65	1124.09	669.69	21.667	291.00	136.23	1540.69	919.50	23.341
212.00	100.11	1129.30	672.82	21.692	292.00	136.69	1545.89	922.62	23.359
213.00	100.57	1134.52	675.94	21.716	293.00	137.15	1551.09	925.74	23.377
214.00	101.03	1139.73	679.07	21.741	294.00	137.60	1556.30	928.86	23.395
215.00	101.49	1144.94	682.19	21.765	295.00	138.06	1561.50	931.98	23.412
216.00	101.94	1150.15	685.32	21.789	296.00	138.52	1566.70	935.10	23.430
217.00	102.40	1155.36	688.44	21.813	297.00	138.97	1571.91	938.22	23.447
218.00	102.86	1160.58	691.57	21.837	298.00	139.43	1577.11	941.34	23.465
219.00	103.32	1165.79	694.69	21.861	299.00	139.89	1582.31	944.46	23.482
220.00	103.77	1171.00	697.82	21.885	300.00	140.34	1587.52	947.58	23.500

50.00 ATMOSPHERE ISO8AR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	27.64	337.13	197.09	14.905
					62.00	28.07	342.51	200.31	14.992
					63.00	28.49	347.88	203.53	15.078
					64.00	28.92	353.25	206.74	15.163
					65.00	29.34	358.62	209.95	15.246
					66.00	29.77	363.98	213.16	15.328
					67.00	30.19	369.33	216.37	15.408
					68.00	30.62	374.69	219.57	15.488
					69.00	31.04	380.03	222.77	15.566
					70.00	31.46	385.38	225.97	15.643
					71.00	31.89	390.72	229.17	15.718
					72.00	32.31	396.06	232.37	15.793
					73.00	32.73	401.39	235.56	15.867
					74.00	33.15	406.72	238.75	15.939
					75.00	33.58	412.05	241.94	16.011
					76.00	34.00	417.38	245.13	16.081
					77.00	34.42	422.70	248.31	16.151
					78.00	34.84	428.02	251.50	16.219
					79.00	35.26	433.34	254.68	16.287
					80.00	35.68	438.65	257.86	16.354
					81.00	36.11	443.97	261.04	16.420
					82.00	36.53	449.28	264.22	16.485
					83.00	36.95	454.58	267.40	16.549
					84.00	37.37	459.89	270.57	16.613
					85.00	37.79	465.19	273.75	16.676
					86.00	38.21	470.49	276.92	16.738
					87.00	38.63	475.79	280.09	16.799
					88.00	39.05	481.09	283.26	16.860
					89.00	39.47	486.38	286.43	16.919
					90.00	39.89	491.68	289.60	16.979
3.00	5.26	32.51	5.88	1.576	91.00	40.30	496.97	292.77	17.037
4.00	5.34	34.25	7.19	2.100	92.00	40.72	502.26	295.94	17.095
5.00	5.45	36.40	8.81	2.598	93.00	41.14	507.54	299.10	17.152
6.00	5.57	38.92	10.69	3.054	94.00	41.56	512.83	302.27	17.209
7.00	5.72	41.69	12.69	3.485	95.00	41.98	518.11	305.43	17.264
8.00	5.90	45.01	15.11	3.927	96.00	42.40	523.40	308.59	17.320
9.00	6.10	49.01	18.09	4.398	97.00	42.82	528.68	311.76	17.374
10.00	6.33	53.49	21.39	4.869	98.00	43.23	533.96	314.92	17.429
					99.00	43.65	539.23	318.08	17.482
					100.00	44.07	544.51	321.24	17.535
11.00	6.59	58.30	24.91	5.327	101.00	44.49	549.78	324.39	17.588
12.00	6.87	63.36	28.55	5.768	102.00	44.90	555.06	327.55	17.640
13.00	7.17	68.62	32.28	6.189	103.00	45.32	560.33	330.71	17.691
14.00	7.50	74.05	36.05	6.591	104.00	45.74	565.60	333.87	17.742
15.00	7.85	79.59	39.84	6.973	105.00	46.16	570.87	337.02	17.792
16.00	8.21	85.24	43.64	7.338	106.00	46.57	576.14	340.18	17.842
17.00	8.59	90.96	47.43	7.685	107.00	46.99	581.41	343.33	17.892
18.00	8.99	96.74	51.21	8.015	108.00	47.41	586.67	346.48	17.941
19.00	9.39	102.56	54.96	8.329	109.00	47.83	591.94	349.64	17.989
20.00	9.81	108.39	58.69	8.629	110.00	48.24	597.20	352.79	18.037
21.00	10.23	114.24	62.40	8.914	111.00	48.66	602.46	355.94	18.085
22.00	10.66	120.09	66.07	9.186	112.00	49.07	607.73	359.09	18.132
23.00	11.10	125.93	69.72	9.446	113.00	49.49	612.99	362.24	18.179
24.00	11.53	131.76	73.34	9.694	114.00	49.91	618.25	365.39	18.225
25.00	11.97	137.58	76.93	9.931	115.00	50.32	623.50	368.54	18.271
26.00	12.41	143.38	80.49	10.159	116.00	50.74	628.76	371.69	18.317
27.00	12.85	149.16	84.04	10.377	117.00	51.16	634.02	374.84	18.362
28.00	13.30	154.92	87.56	10.587	118.00	51.57	639.27	377.99	18.407
29.00	13.74	160.66	91.05	10.788	119.00	51.99	644.53	381.14	18.451
30.00	14.18	166.39	94.53	10.982	120.00	52.40	649.78	384.28	18.495
31.00	14.63	172.09	97.99	11.169	121.00	52.82	655.03	387.43	18.539
32.00	15.07	177.77	101.43	11.350	122.00	53.24	660.29	390.57	18.582
33.00	15.51	183.44	104.86	11.524	123.00	53.65	665.54	393.72	18.625
34.00	15.95	189.09	108.27	11.692	124.00	54.07	670.79	396.86	18.667
35.00	16.39	194.72	111.67	11.856	125.00	54.48	676.04	400.01	18.709
36.00	16.83	200.33	115.05	12.014	126.00	54.90	681.29	403.15	18.751
37.00	17.27	205.93	118.43	12.167	127.00	55.31	686.53	406.30	18.793
38.00	17.71	211.51	121.79	12.316	128.00	55.73	691.78	409.44	18.834
39.00	18.15	217.08	125.14	12.461	129.00	56.14	697.03	412.58	18.875
40.00	18.59	222.64	128.48	12.602	130.00	56.56	702.27	415.73	18.915
41.00	19.02	228.18	131.81	12.738	131.00	56.97	707.52	418.87	18.955
42.00	19.46	233.72	135.13	12.872	132.00	57.39	712.76	422.01	18.995
43.00	19.89	239.24	138.44	13.002	133.00	57.80	718.01	425.15	19.035
44.00	20.33	244.75	141.75	13.128	134.00	58.22	723.25	428.29	19.074
45.00	20.76	250.24	145.05	13.252	135.00	58.63	728.49	431.43	19.113
46.00	21.20	255.73	148.34	13.373	136.00	59.05	733.73	434.57	19.152
47.00	21.63	261.21	151.62	13.490	137.00	59.46	738.97	437.71	19.190
48.00	22.06	266.68	154.90	13.606	138.00	59.88	744.22	440.85	19.228
49.00	22.50	272.14	158.17	13.718	139.00	60.29	749.45	443.99	19.266
50.00	22.93	277.60	161.44	13.828	140.00	60.71	754.69	447.13	19.304
51.00	23.36	283.04	164.71	13.936					
52.00	23.79	288.48	167.96	14.042					
53.00	24.22	293.91	171.22	14.145					
54.00	24.65	299.33	174.46	14.247					
55.00	25.08	304.75	177.71	14.346					
56.00	25.50	310.16	180.95	14.443					
57.00	25.93	315.57	184.18	14.539					
58.00	26.36	320.97	187.42	14.633					
59.00	26.79	326.36	190.65	14.725					
60.00	27.21	331.75	193.87	14.816					

50.00 ATMOSPHERE 150BAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	61.12	759.93	450.27	19.341	221.00	94.16	1177.78	700.72	21.689
142.00	61.54	765.17	453.41	19.378	222.00	94.57	1182.99	703.84	21.712
143.00	61.95	770.41	456.55	19.415	223.00	94.99	1188.20	706.97	21.736
144.00	62.36	775.65	459.68	19.451	224.00	95.40	1193.42	710.09	21.759
145.00	62.78	780.88	462.82	19.487	225.00	95.81	1198.63	713.22	21.782
146.00	63.19	786.12	465.96	19.523	226.00	96.22	1203.84	716.34	21.805
147.00	63.61	791.35	469.10	19.559	227.00	96.63	1209.05	719.47	21.828
148.00	64.02	796.59	472.23	19.595	228.00	97.05	1214.27	722.59	21.851
149.00	64.43	801.82	475.37	19.630	229.00	97.46	1219.48	725.71	21.874
150.00	64.85	807.06	478.51	19.665	230.00	97.87	1224.69	728.84	21.897
151.00	65.26	812.29	481.64	19.700	231.00	98.28	1229.90	731.96	21.919
152.00	65.68	817.52	484.78	19.734	232.00	98.69	1235.11	735.09	21.942
153.00	66.09	822.75	487.91	19.768	233.00	99.11	1240.32	738.21	21.964
154.00	66.50	827.99	491.05	19.803	234.00	99.52	1245.53	741.34	21.986
155.00	66.92	833.22	494.18	19.836	235.00	99.93	1250.74	744.46	22.009
156.00	67.33	838.45	497.32	19.870	236.00	100.34	1255.95	747.59	22.031
157.00	67.75	843.68	500.45	19.903	237.00	100.75	1261.17	750.71	22.053
158.00	68.16	848.91	503.59	19.937	238.00	101.17	1266.38	753.83	22.075
159.00	68.57	854.14	506.72	19.970	239.00	101.58	1271.59	756.96	22.097
160.00	68.99	859.37	509.85	20.002	240.00	101.99	1276.80	760.08	22.118
161.00	69.40	864.60	512.99	20.035	241.00	102.40	1282.01	763.21	22.140
162.00	69.81	869.83	516.12	20.067	242.00	102.81	1287.22	766.33	22.162
163.00	70.23	875.05	519.25	20.100	243.00	103.22	1292.43	769.45	22.183
164.00	70.64	880.28	522.39	20.132	244.00	103.64	1297.64	772.58	22.204
165.00	71.05	885.51	525.52	20.163	245.00	104.05	1302.84	775.70	22.226
166.00	71.47	890.74	528.65	20.195	246.00	104.46	1308.05	778.82	22.247
167.00	71.88	895.96	531.79	20.226	247.00	104.87	1313.26	781.95	22.268
168.00	72.29	901.19	534.92	20.258	248.00	105.28	1318.47	785.07	22.289
169.00	72.71	906.42	538.05	20.289	249.00	105.69	1323.68	788.19	22.310
170.00	73.12	911.64	541.18	20.319	250.00	106.11	1328.89	791.32	22.331
171.00	73.53	916.87	544.31	20.350	251.00	106.52	1334.10	794.44	22.352
172.00	73.95	922.09	547.44	20.380	252.00	106.93	1339.31	797.56	22.373
173.00	74.36	927.32	550.58	20.411	253.00	107.34	1344.52	800.69	22.393
174.00	74.77	932.54	553.71	20.441	254.00	107.75	1349.72	803.81	22.414
175.00	75.19	937.76	556.84	20.471	255.00	108.16	1354.93	806.93	22.434
176.00	75.60	942.99	559.97	20.501	256.00	108.58	1360.14	810.05	22.455
177.00	76.01	948.21	563.10	20.530	257.00	108.99	1365.35	813.18	22.475
178.00	76.43	953.43	566.23	20.560	258.00	109.40	1370.56	816.30	22.495
179.00	76.84	958.66	569.36	20.589	259.00	109.81	1375.76	819.42	22.515
180.00	77.25	963.88	572.49	20.618	260.00	110.22	1380.97	822.55	22.535
181.00	77.66	969.10	575.62	20.647	261.00	110.63	1386.18	825.67	22.555
182.00	78.08	974.32	578.75	20.676	262.00	111.04	1391.39	828.79	22.575
183.00	78.49	979.54	581.88	20.704	263.00	111.46	1396.59	831.91	22.595
184.00	78.90	984.76	585.01	20.733	264.00	111.87	1401.80	835.04	22.615
185.00	79.32	989.99	588.14	20.761	265.00	112.28	1407.01	838.16	22.635
186.00	79.73	995.21	591.27	20.789	266.00	112.69	1412.22	841.28	22.654
187.00	80.14	1000.43	594.40	20.817	267.00	113.10	1417.42	844.40	22.674
188.00	80.55	1005.65	597.53	20.845	268.00	113.51	1422.63	847.52	22.693
189.00	80.97	1010.87	600.65	20.873	269.00	113.93	1427.84	850.65	22.713
190.00	81.38	1016.09	603.78	20.900	270.00	114.34	1433.04	853.77	22.732
191.00	81.79	1021.30	606.91	20.928	271.00	114.75	1438.25	856.89	22.751
192.00	82.21	1026.52	610.04	20.955	272.00	115.16	1443.46	860.01	22.770
193.00	82.62	1031.74	613.17	20.982	273.00	115.57	1448.66	863.13	22.789
194.00	83.03	1036.96	616.30	21.009	274.00	115.98	1453.87	866.26	22.808
195.00	83.44	1042.18	619.42	21.036	275.00	116.39	1459.07	869.38	22.827
196.00	83.86	1047.40	622.55	21.062	276.00	116.81	1464.28	872.50	22.846
197.00	84.27	1052.62	625.68	21.089	277.00	117.22	1469.49	875.62	22.865
198.00	84.68	1057.83	628.81	21.115	278.00	117.63	1474.69	878.74	22.884
199.00	85.09	1063.05	631.94	21.142	279.00	118.04	1479.90	881.87	22.903
200.00	85.51	1068.27	635.06	21.168	280.00	118.45	1485.10	884.99	22.921
201.00	85.92	1073.48	638.19	21.194	281.00	118.86	1490.31	888.11	22.940
202.00	86.33	1078.70	641.32	21.220	282.00	119.27	1495.51	891.23	22.958
203.00	86.74	1083.92	644.44	21.246	283.00	119.68	1500.72	894.35	22.977
204.00	87.16	1089.13	647.57	21.271	284.00	120.10	1505.93	897.47	22.995
205.00	87.57	1094.35	650.70	21.297	285.00	120.51	1511.13	900.59	23.013
206.00	87.98	1099.57	653.83	21.322	286.00	120.92	1516.34	903.72	23.032
207.00	88.39	1104.78	656.95	21.347	287.00	121.33	1521.54	906.84	23.050
208.00	88.80	1110.00	660.08	21.372	288.00	121.74	1526.75	909.96	23.068
209.00	89.22	1115.21	663.21	21.397	289.00	122.15	1531.95	913.08	23.086
210.00	89.63	1120.43	666.33	21.422	290.00	122.56	1537.16	916.20	23.104
211.00	90.04	1125.64	669.46	21.447	291.00	122.97	1542.36	919.32	23.122
212.00	90.45	1130.86	672.58	21.472	292.00	123.39	1547.56	922.44	23.140
213.00	90.87	1136.07	675.71	21.496	293.00	123.80	1552.77	925.56	23.157
214.00	91.28	1141.28	678.84	21.521	294.00	124.21	1557.97	928.69	23.175
215.00	91.69	1146.50	681.96	21.545	295.00	124.62	1563.18	931.81	23.193
216.00	92.10	1151.71	685.09	21.569	296.00	125.03	1568.38	934.93	23.210
217.00	92.51	1156.93	688.21	21.593	297.00	125.44	1573.59	938.05	23.228
218.00	92.93	1162.14	691.34	21.617	298.00	125.85	1578.79	941.17	23.245
219.00	93.34	1167.35	694.46	21.641	299.00	126.26	1584.00	944.29	23.263
220.00	93.75	1172.57	697.59	21.665	300.00	126.68	1589.20	947.41	23.280

60.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	23.51	338.86	195.90	14.510
					62.00	23.87	344.26	199.13	14.598
					63.00	24.23	349.65	202.36	14.684
					64.00	24.58	355.04	205.59	14.769
					65.00	24.94	360.42	208.81	14.853
					66.00	25.29	365.80	212.03	14.935
					67.00	25.65	371.18	215.25	15.016
					68.00	26.00	376.55	218.46	15.095
					69.00	26.36	381.92	221.67	15.174
					70.00	26.71	387.28	224.88	15.251
					71.00	27.07	392.64	228.09	15.327
					72.00	27.42	398.00	231.30	15.402
					73.00	27.77	403.35	234.50	15.476
					74.00	28.13	408.70	237.70	15.548
					75.00	28.48	414.04	240.90	15.620
					76.00	28.83	419.39	244.10	15.691
					77.00	29.18	424.73	247.29	15.761
					78.00	29.54	430.06	250.49	15.830
					79.00	29.89	435.40	253.68	15.897
					80.00	30.24	440.73	256.87	15.965
					81.00	30.59	446.05	260.06	16.031
					82.00	30.94	451.38	263.25	16.096
3.00	5.12	37.53	6.41	1.499	83.00	31.30	456.70	266.43	16.161
4.00	5.20	39.24	7.65	2.012	84.00	31.65	462.02	269.62	16.224
5.00	5.28	41.30	9.17	2.492	85.00	32.00	467.34	272.80	16.287
6.00	5.39	43.70	10.93	2.926	86.00	32.35	472.66	275.98	16.349
7.00	5.52	46.32	12.78	3.333	87.00	32.70	477.97	279.16	16.411
8.00	5.66	49.46	15.04	3.752	88.00	33.05	483.28	282.34	16.471
9.00	5.83	53.28	17.85	4.201	89.00	33.40	488.59	285.52	16.531
10.00	6.01	57.54	20.99	4.650	90.00	33.75	493.90	288.69	16.591
					91.00	34.10	499.20	291.87	16.649
12.00	6.44	66.95	27.82	5.506	92.00	34.45	504.50	295.04	16.707
13.00	6.67	71.96	31.39	5.907	93.00	34.80	509.80	298.21	16.765
14.00	6.93	77.13	35.02	6.290	94.00	35.15	515.10	301.39	16.821
15.00	7.20	82.43	38.67	6.656	95.00	35.50	520.40	304.56	16.877
16.00	7.48	87.83	42.35	7.004	96.00	35.85	525.69	307.73	16.933
17.00	7.78	93.33	46.04	7.337	97.00	36.20	530.99	310.89	16.988
18.00	8.09	98.89	49.72	7.655	98.00	36.55	536.28	314.06	17.042
19.00	8.41	104.51	53.41	7.959	99.00	36.90	541.57	317.23	17.096
20.00	8.73	110.18	57.08	8.250	100.00	37.25	546.86	320.39	17.149
					101.00	37.60	552.14	323.56	17.201
22.00	9.41	121.61	64.38	8.795	102.00	37.95	557.43	326.72	17.253
23.00	9.76	127.35	68.00	9.050	103.00	38.30	562.71	329.89	17.305
24.00	10.12	133.10	71.60	9.295	104.00	38.64	568.00	333.05	17.356
25.00	10.47	138.85	75.19	9.530	105.00	38.99	573.28	336.21	17.407
26.00	10.83	144.60	78.75	9.755	106.00	39.34	578.56	339.37	17.457
27.00	11.19	150.35	82.30	9.972	107.00	39.69	583.83	342.53	17.506
28.00	11.56	156.08	85.83	10.180	108.00	40.04	589.11	345.69	17.555
29.00	11.92	161.80	89.33	10.381	109.00	40.39	594.39	348.85	17.604
30.00	12.29	167.51	92.83	10.575	110.00	40.73	599.66	352.01	17.652
					111.00	41.08	604.93	355.16	17.700
32.00	13.02	178.90	99.76	10.942	112.00	41.43	610.21	358.32	17.747
33.00	13.38	184.57	103.20	11.117	113.00	41.78	615.48	361.48	17.794
34.00	13.75	190.23	106.63	11.286	114.00	42.13	620.75	364.63	17.840
35.00	14.12	195.87	110.05	11.449	115.00	42.47	626.01	367.79	17.886
36.00	14.48	201.50	113.45	11.608	116.00	42.82	631.28	370.94	17.932
37.00	14.85	207.12	116.84	11.762	117.00	43.17	636.55	374.09	17.977
38.00	15.21	212.72	120.22	11.911	118.00	43.52	641.81	377.25	18.022
39.00	15.58	218.31	123.59	12.056	119.00	43.86	647.08	380.40	18.066
40.00	15.94	223.89	126.95	12.197	120.00	44.21	652.34	383.55	18.110
					121.00	44.56	657.60	386.70	18.154
42.00	16.67	235.01	133.64	12.469	122.00	44.91	662.86	389.85	18.197
43.00	17.04	240.55	136.97	12.599	123.00	45.25	668.12	393.00	18.240
44.00	17.40	246.08	140.29	12.726	124.00	45.60	673.38	396.15	18.283
45.00	17.76	251.60	143.61	12.850	125.00	45.95	678.64	399.30	18.325
46.00	18.13	257.12	146.92	12.972	126.00	46.29	683.90	402.45	18.367
47.00	18.49	262.62	150.22	13.090	127.00	46.64	689.15	405.60	18.409
48.00	18.85	268.11	153.52	13.206	128.00	46.99	694.41	408.75	18.450
49.00	19.21	273.60	156.81	13.319	129.00	47.33	699.67	411.89	18.491
50.00	19.57	279.08	160.09	13.429	130.00	47.68	704.92	415.04	18.531
					131.00	48.03	710.17	418.19	18.572
52.00	20.29	290.01	166.64	13.644	132.00	48.37	715.42	421.33	18.612
53.00	20.65	295.46	169.91	13.748	133.00	48.72	720.68	424.48	18.651
54.00	21.01	300.91	173.17	13.849	134.00	49.07	725.93	427.62	18.690
55.00	21.37	306.35	176.43	13.949	135.00	49.41	731.18	430.77	18.730
56.00	21.73	311.78	179.69	14.047	136.00	49.76	736.43	433.91	18.768
57.00	22.09	317.21	182.94	14.143	137.00	50.10	741.68	437.05	18.807
58.00	22.44	322.63	186.18	14.237	138.00	50.45	746.92	440.20	18.845
59.00	22.80	328.04	189.43	14.330	139.00	50.80	752.17	443.34	18.883
60.00	23.16	333.45	192.66	14.421	140.00	51.14	757.42	446.48	18.920

60.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	51.49	762.66	449.63	18.958	221.00	79.06	1180.92	700.27	21.308
142.00	51.84	767.91	452.77	18.995	222.00	79.40	1186.14	703.40	21.331
143.00	52.18	773.15	455.91	19.032	223.00	79.75	1191.35	706.53	21.355
144.00	52.53	778.40	459.05	19.068	224.00	80.09	1196.57	709.65	21.378
145.00	52.87	783.64	462.19	19.104	225.00	80.43	1201.79	712.78	21.401
146.00	53.22	788.88	465.33	19.140	226.00	80.78	1207.00	715.91	21.424
147.00	53.56	794.13	468.47	19.176	227.00	81.12	1212.22	719.03	21.448
148.00	53.91	799.37	471.61	19.212	228.00	81.46	1217.43	722.16	21.470
149.00	54.26	804.61	474.75	19.247	229.00	81.81	1222.65	725.29	21.493
150.00	54.60	809.85	477.89	19.282	230.00	82.15	1227.86	728.41	21.516
151.00	54.95	815.09	481.03	19.317	231.00	82.49	1233.08	731.54	21.539
152.00	55.29	820.33	484.17	19.352	232.00	82.84	1238.29	734.66	21.561
153.00	55.64	825.57	487.31	19.386	233.00	83.18	1243.51	737.79	21.584
154.00	55.98	830.81	490.45	19.420	234.00	83.53	1248.72	740.92	21.606
155.00	56.33	836.04	493.59	19.454	235.00	83.87	1253.94	744.04	21.628
156.00	56.67	841.28	496.73	19.488	236.00	84.21	1259.15	747.17	21.650
157.00	57.02	846.52	499.86	19.521	237.00	84.56	1264.36	750.29	21.672
158.00	57.36	851.76	503.00	19.554	238.00	84.90	1269.58	753.42	21.694
159.00	57.71	856.99	506.14	19.587	239.00	85.24	1274.79	756.54	21.716
160.00	58.05	862.23	509.27	19.620	240.00	85.59	1280.00	759.67	21.738
161.00	58.40	867.46	512.41	19.653	241.00	85.93	1285.22	762.79	21.760
162.00	58.74	872.70	515.55	19.685	242.00	86.27	1290.43	765.92	21.781
163.00	59.09	877.93	518.68	19.717	243.00	86.62	1295.64	769.05	21.803
164.00	59.44	883.16	521.82	19.749	244.00	86.96	1300.85	772.17	21.824
165.00	59.78	888.40	524.95	19.781	245.00	87.30	1306.07	775.30	21.845
166.00	60.13	893.63	528.09	19.813	246.00	87.65	1311.28	778.42	21.867
167.00	60.47	898.86	531.22	19.844	247.00	87.99	1316.49	781.54	21.888
168.00	60.81	904.09	534.36	19.875	248.00	88.33	1321.70	784.67	21.909
169.00	61.16	909.33	537.49	19.907	249.00	88.68	1326.92	787.79	21.930
170.00	61.50	914.56	540.63	19.937	250.00	89.02	1332.13	790.92	21.951
171.00	61.85	919.79	543.76	19.968	251.00	89.36	1337.34	794.04	21.971
172.00	62.19	925.02	546.90	19.999	252.00	89.71	1342.55	797.17	21.992
173.00	62.54	930.25	550.03	20.029	253.00	90.05	1347.76	800.29	22.013
174.00	62.88	935.48	553.17	20.059	254.00	90.39	1352.97	803.42	22.033
175.00	63.23	940.71	556.30	20.089	255.00	90.74	1358.18	806.54	22.054
176.00	63.57	945.93	559.43	20.119	256.00	91.08	1363.39	809.67	22.074
177.00	63.92	951.16	562.57	20.148	257.00	91.42	1368.61	812.79	22.095
178.00	64.26	956.39	565.70	20.178	258.00	91.77	1373.82	815.91	22.115
179.00	64.61	961.62	568.83	20.207	259.00	92.11	1379.03	819.04	22.135
180.00	64.95	966.85	571.96	20.236	260.00	92.45	1384.24	822.16	22.155
181.00	65.30	972.07	575.10	20.265	261.00	92.80	1389.45	825.29	22.175
182.00	65.64	977.30	578.23	20.294	262.00	93.14	1394.66	828.41	22.195
183.00	65.98	982.53	581.36	20.323	263.00	93.48	1399.87	831.53	22.215
184.00	66.33	987.75	584.49	20.351	264.00	93.82	1405.08	834.66	22.235
185.00	66.67	992.98	587.62	20.379	265.00	94.17	1410.29	837.78	22.254
186.00	67.02	998.20	590.76	20.408	266.00	94.51	1415.50	840.90	22.274
187.00	67.36	1003.43	593.89	20.436	267.00	94.85	1420.71	844.03	22.293
188.00	67.71	1008.65	597.02	20.464	268.00	95.20	1425.92	847.15	22.313
189.00	68.05	1013.88	600.15	20.491	269.00	95.54	1431.13	850.27	22.332
190.00	68.40	1019.10	603.28	20.519	270.00	95.88	1436.33	853.40	22.352
191.00	68.74	1024.33	606.41	20.546	271.00	96.23	1441.54	856.52	22.371
192.00	69.08	1029.55	609.54	20.574	272.00	96.57	1446.75	859.64	22.390
193.00	69.43	1034.77	612.67	20.601	273.00	96.91	1451.96	862.77	22.409
194.00	69.77	1040.00	615.80	20.628	274.00	97.26	1457.17	865.89	22.428
195.00	70.12	1045.22	618.93	20.654	275.00	97.60	1462.38	869.01	22.447
196.00	70.46	1050.44	622.06	20.681	276.00	97.94	1467.59	872.14	22.466
197.00	70.80	1055.66	625.19	20.708	277.00	98.28	1472.80	875.26	22.485
198.00	71.15	1060.88	628.32	20.734	278.00	98.63	1478.00	878.38	22.504
199.00	71.49	1066.11	631.45	20.761	279.00	98.97	1483.21	881.50	22.522
200.00	71.84	1071.33	634.58	20.787	280.00	99.31	1488.42	884.63	22.541
201.00	72.18	1076.55	637.71	20.813	281.00	99.66	1493.63	887.75	22.560
202.00	72.53	1081.77	640.84	20.839	282.00	100.00	1498.84	890.87	22.578
203.00	72.87	1086.99	643.97	20.864	283.00	100.34	1504.04	894.00	22.597
204.00	73.21	1092.21	647.10	20.890	284.00	100.69	1509.25	897.12	22.615
205.00	73.56	1097.43	650.23	20.916	285.00	101.03	1514.46	900.24	22.633
206.00	73.90	1102.65	653.36	20.941	286.00	101.37	1519.67	903.36	22.652
207.00	74.25	1107.87	656.48	20.966	287.00	101.71	1524.88	906.49	22.670
208.00	74.59	1113.09	659.61	20.991	288.00	102.06	1530.08	909.61	22.688
209.00	74.93	1118.31	662.74	21.016	289.00	102.40	1535.29	912.73	22.706
210.00	75.28	1123.53	665.87	21.041	290.00	102.74	1540.50	915.85	22.724
211.00	75.62	1128.75	669.00	21.066	291.00	103.09	1545.70	918.98	22.742
212.00	75.96	1133.97	672.13	21.091	292.00	103.43	1550.91	922.10	22.760
213.00	76.31	1139.18	675.25	21.115	293.00	103.77	1556.12	925.22	22.777
214.00	76.65	1144.40	678.38	21.140	294.00	104.11	1561.32	928.34	22.795
215.00	77.00	1149.62	681.51	21.164	295.00	104.46	1566.53	931.46	22.813
216.00	77.34	1154.84	684.64	21.188	296.00	104.80	1571.74	934.59	22.830
217.00	77.68	1160.05	687.76	21.212	297.00	105.14	1576.94	937.71	22.848
218.00	78.03	1165.27	690.89	21.236	298.00	105.49	1582.15	940.83	22.866
219.00	78.37	1170.49	694.02	21.260	299.00	105.83	1587.36	943.95	22.883
220.00	78.71	1175.71	697.15	21.284	300.00	106.17	1592.56	947.07	22.900

70.00 ATMOSPHERE 1S08AR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	20.57	340.70	194.79	14.176
					62.00	20.88	346.12	198.03	14.264
					63.00	21.18	351.53	201.27	14.350
					64.00	21.49	356.93	204.51	14.435
					65.00	21.80	362.34	207.74	14.519
					66.00	22.10	367.73	210.97	14.602
					67.00	22.41	373.12	214.20	14.683
					68.00	22.71	378.51	217.42	14.762
					69.00	23.02	383.90	220.65	14.841
					70.00	23.32	389.28	223.86	14.918
					71.00	23.62	394.65	227.08	14.995
					72.00	23.93	400.02	230.30	15.070
					73.00	24.23	405.39	233.51	15.144
					74.00	24.54	410.76	236.72	15.217
					75.00	24.84	416.12	239.93	15.289
					76.00	25.14	421.47	243.13	15.360
					77.00	25.45	426.83	246.34	15.430
					78.00	25.75	432.18	249.54	15.499
					79.00	26.05	437.53	252.74	15.567
					80.00	26.36	442.87	255.94	15.634
					81.00	26.66	448.21	259.13	15.701
					82.00	26.96	453.55	262.33	15.766
3.00	5.00	42.45	6.97	1.429	83.00	27.26	458.89	265.52	15.831
4.00	5.07	44.12	8.15	1.933	84.00	27.56	464.22	268.71	15.895
5.00	5.15	46.12	9.60	2.401	85.00	27.87	469.55	271.90	15.958
6.00	5.24	48.43	11.26	2.818	86.00	28.17	474.88	275.09	16.020
7.00	5.35	50.93	12.99	3.206	87.00	28.47	480.21	278.28	16.082
8.00	5.47	53.94	15.12	3.607	88.00	28.77	485.53	281.46	16.142
9.00	5.61	57.61	17.80	4.038	89.00	29.07	490.85	284.65	16.203
10.00	5.77	61.71	20.81	4.470	90.00	29.37	496.17	287.83	16.262
					91.00	29.67	501.49	291.01	16.321
11.00	5.94	66.13	24.03	4.891	92.00	29.98	506.81	294.19	16.379
12.00	6.12	70.78	27.38	5.296	93.00	30.28	512.12	297.37	16.436
13.00	6.31	75.61	30.83	5.682	94.00	30.58	517.43	300.55	16.493
14.00	6.52	80.59	34.34	6.051	95.00	30.88	522.74	303.72	16.549
15.00	6.74	85.69	37.89	6.403	96.00	31.18	528.04	306.90	16.605
16.00	6.97	90.90	41.46	6.739	97.00	31.48	533.35	310.08	16.660
17.00	7.21	96.20	45.05	7.061	98.00	31.78	538.65	313.25	16.714
18.00	7.46	101.58	48.65	7.368	99.00	32.08	543.95	316.42	16.768
19.00	7.72	107.03	52.25	7.663	100.00	32.38	549.25	319.59	16.821
20.00	7.99	112.54	55.86	7.946					
					101.00	32.68	554.55	322.76	16.874
21.00	8.27	118.10	59.46	8.217	102.00	32.98	559.85	325.93	16.926
22.00	8.55	123.69	63.05	8.477	103.00	33.28	565.14	329.10	16.978
23.00	8.84	129.32	66.63	8.727	104.00	33.58	570.43	332.27	17.029
24.00	9.13	134.97	70.21	8.967	105.00	33.88	575.72	335.44	17.080
25.00	9.43	140.63	73.77	9.198	106.00	34.18	581.01	338.60	17.130
26.00	9.73	146.31	77.32	9.421	107.00	34.48	586.30	341.77	17.179
27.00	10.03	151.99	80.85	9.636	108.00	34.78	591.59	344.93	17.229
28.00	10.33	157.67	84.37	9.842	109.00	35.07	596.87	348.10	17.277
29.00	10.64	163.35	87.87	10.042	110.00	35.37	602.16	351.26	17.326
30.00	10.95	169.03	91.36	10.234					
					111.00	35.67	607.44	354.42	17.373
31.00	11.26	174.71	94.84	10.420	112.00	35.97	612.72	357.58	17.421
32.00	11.57	180.38	98.30	10.600	113.00	36.27	618.00	360.74	17.468
33.00	11.88	186.04	101.75	10.774	114.00	36.57	623.28	363.90	17.514
34.00	12.19	191.69	105.19	10.943	115.00	36.87	628.56	367.06	17.560
35.00	12.51	197.33	108.62	11.107	116.00	37.17	633.84	370.22	17.606
36.00	12.82	202.96	112.03	11.265	117.00	37.46	639.11	373.38	17.651
37.00	13.13	208.58	115.43	11.419	118.00	37.76	644.39	376.54	17.696
38.00	13.44	214.18	118.82	11.569	119.00	38.06	649.66	379.69	17.741
39.00	13.76	219.78	122.20	11.714	120.00	38.36	654.93	382.85	17.785
40.00	14.07	225.37	125.58	11.856					
					121.00	38.66	660.20	386.00	17.828
41.00	14.38	230.95	128.94	11.993	122.00	38.96	665.47	389.16	17.872
42.00	14.69	236.52	132.29	12.128	123.00	39.25	670.74	392.31	17.915
43.00	15.01	242.07	135.64	12.258	124.00	39.55	676.01	395.47	17.957
44.00	15.32	247.62	138.97	12.386	125.00	39.85	681.27	398.62	18.000
45.00	15.63	253.16	142.30	12.510	126.00	40.15	686.54	401.77	18.042
46.00	15.94	258.69	145.63	12.632	127.00	40.45	691.80	404.93	18.083
47.00	16.25	264.21	148.94	12.751	128.00	40.74	697.07	408.08	18.125
48.00	16.56	269.72	152.25	12.867	129.00	41.04	702.33	411.23	18.166
49.00	16.87	275.22	155.55	12.980	130.00	41.34	707.59	414.38	18.206
50.00	17.18	280.72	158.85	13.091					
					131.00	41.64	712.85	417.53	18.247
51.00	17.49	286.21	162.14	13.200	132.00	41.93	718.11	420.68	18.287
52.00	17.80	291.69	165.43	13.306	133.00	42.23	723.37	423.83	18.326
53.00	18.11	297.16	168.71	13.410	134.00	42.53	728.63	426.98	18.366
54.00	18.42	302.62	171.98	13.513	135.00	42.83	733.89	430.13	18.405
55.00	18.73	308.08	175.25	13.613	136.00	43.12	739.14	433.27	18.443
56.00	19.03	313.53	178.52	13.711	137.00	43.42	744.40	436.42	18.482
57.00	19.34	318.98	181.78	13.807	138.00	43.72	749.66	439.57	18.520
58.00	19.65	324.42	185.04	13.902	139.00	44.01	754.91	442.71	18.558
59.00	19.96	329.85	188.29	13.995	140.00	44.31	760.16	445.86	18.596
60.00	20.26	335.28	191.54	14.086					

70.00 ATMOSPHERE ISOBAR

TEMPERATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPERATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	44.61	765.42	449.01	18.633	221.00	68.27	1184.07	699.84	20.986
142.00	44.91	770.67	452.15	18.670	222.00	68.56	1189.29	702.97	21.009
143.00	45.20	775.92	455.30	18.707	223.00	68.86	1194.51	706.10	21.033
144.00	45.50	781.17	458.44	18.744	224.00	69.15	1199.73	709.23	21.056
145.00	45.80	786.42	461.59	18.780	225.00	69.45	1204.95	712.36	21.079
146.00	46.09	791.67	464.73	18.816	226.00	69.74	1210.17	715.48	21.102
147.00	46.39	796.92	467.87	18.852	227.00	70.04	1215.38	718.61	21.125
148.00	46.69	802.17	471.02	18.888	228.00	70.33	1220.60	721.74	21.148
149.00	46.98	807.42	474.16	18.923	229.00	70.63	1225.82	724.87	21.171
150.00	47.28	812.66	477.30	18.958	230.00	70.92	1231.04	728.00	21.194
151.00	47.58	817.91	480.45	18.993	231.00	71.22	1236.26	731.12	21.217
152.00	47.87	823.15	483.59	19.028	232.00	71.51	1241.48	734.25	21.239
153.00	48.17	828.40	486.73	19.062	233.00	71.81	1246.69	737.38	21.261
154.00	48.47	833.64	489.87	19.096	234.00	72.10	1251.91	740.51	21.284
155.00	48.76	838.89	493.01	19.130	235.00	72.40	1257.13	743.63	21.306
156.00	49.06	844.13	496.15	19.164	236.00	72.69	1262.35	746.76	21.328
157.00	49.36	849.37	499.29	19.197	237.00	72.98	1267.56	749.89	21.350
158.00	49.65	854.62	502.43	19.231	238.00	73.28	1272.78	753.01	21.372
159.00	49.95	859.86	505.57	19.264	239.00	73.57	1278.00	756.14	21.394
160.00	50.25	865.10	508.71	19.296	240.00	73.87	1283.21	759.27	21.416
161.00	50.54	870.34	511.85	19.329	241.00	74.16	1288.43	762.39	21.438
162.00	50.84	875.58	514.99	19.362	242.00	74.46	1293.64	765.52	21.459
163.00	51.13	880.82	518.13	19.394	243.00	74.75	1298.86	768.65	21.481
164.00	51.43	886.06	521.27	19.426	244.00	75.05	1304.08	771.77	21.502
165.00	51.73	891.30	524.41	19.458	245.00	75.34	1309.29	774.90	21.523
166.00	52.02	896.54	527.54	19.489	246.00	75.64	1314.51	778.03	21.545
167.00	52.32	901.77	530.68	19.521	247.00	75.93	1319.72	781.15	21.566
168.00	52.61	907.01	533.82	19.552	248.00	76.22	1324.94	784.28	21.587
169.00	52.91	912.25	536.96	19.583	249.00	76.52	1330.15	787.40	21.608
170.00	53.21	917.48	540.09	19.614	250.00	76.81	1335.37	790.53	21.629
171.00	53.50	922.72	543.23	19.645	251.00	77.11	1340.58	793.66	21.650
172.00	53.80	927.96	546.37	19.675	252.00	77.40	1345.79	796.78	21.670
173.00	54.09	933.19	549.50	19.706	253.00	77.70	1351.01	799.91	21.691
174.00	54.39	938.42	552.64	19.736	254.00	77.99	1356.22	803.03	21.712
175.00	54.69	943.66	555.78	19.766	255.00	78.29	1361.44	806.16	21.732
176.00	54.98	948.89	558.91	19.796	256.00	78.58	1366.65	809.28	21.752
177.00	55.28	954.13	562.05	19.825	257.00	78.87	1371.86	812.41	21.773
178.00	55.57	959.36	565.18	19.855	258.00	79.17	1377.08	815.54	21.793
179.00	55.87	964.59	568.32	19.884	259.00	79.46	1382.29	818.66	21.813
180.00	56.16	969.82	571.45	19.913	260.00	79.76	1387.50	821.79	21.833
181.00	56.46	975.06	574.59	19.942	261.00	80.05	1392.72	824.91	21.853
182.00	56.76	980.29	577.72	19.971	262.00	80.35	1397.93	828.04	21.873
183.00	57.05	985.52	580.86	20.000	263.00	80.64	1403.14	831.16	21.893
184.00	57.35	990.75	583.99	20.028	264.00	80.94	1408.35	834.29	21.913
185.00	57.64	995.98	587.12	20.057	265.00	81.23	1413.57	837.41	21.933
186.00	57.94	1001.21	590.26	20.085	266.00	81.52	1418.78	840.54	21.952
187.00	58.23	1006.44	593.39	20.113	267.00	81.82	1423.99	843.66	21.972
188.00	58.53	1011.67	596.53	20.141	268.00	82.11	1429.20	846.79	21.991
189.00	58.82	1016.90	599.66	20.168	269.00	82.41	1434.42	849.91	22.011
190.00	59.12	1022.13	602.79	20.196	270.00	82.70	1439.63	853.03	22.030
191.00	59.42	1027.35	605.92	20.223	271.00	83.00	1444.84	856.16	22.049
192.00	59.71	1032.58	609.06	20.251	272.00	83.29	1450.05	859.28	22.068
193.00	60.01	1037.81	612.19	20.278	273.00	83.58	1455.26	862.41	22.088
194.00	60.30	1043.04	615.32	20.305	274.00	83.88	1460.47	865.53	22.107
195.00	60.60	1048.26	618.45	20.332	275.00	84.17	1465.68	868.66	22.126
196.00	60.89	1053.49	621.59	20.359	276.00	84.47	1470.89	871.78	22.145
197.00	61.19	1058.72	624.72	20.385	277.00	84.76	1476.11	874.90	22.163
198.00	61.48	1063.94	627.85	20.412	278.00	85.05	1481.32	878.03	22.182
199.00	61.78	1069.17	630.98	20.438	279.00	85.35	1486.53	881.15	22.201
200.00	62.07	1074.39	634.11	20.464	280.00	85.64	1491.74	884.28	22.220
201.00	62.37	1079.62	637.24	20.490	281.00	85.94	1496.95	887.40	22.238
202.00	62.66	1084.84	640.38	20.516	282.00	86.23	1502.16	890.52	22.257
203.00	62.96	1090.07	643.51	20.542	283.00	86.53	1507.37	893.65	22.275
204.00	63.25	1095.29	646.64	20.568	284.00	86.82	1512.58	896.77	22.293
205.00	63.55	1100.52	649.77	20.593	285.00	87.11	1517.79	899.89	22.312
206.00	63.84	1105.74	652.90	20.619	286.00	87.41	1523.00	903.02	22.330
207.00	64.14	1110.97	656.03	20.644	287.00	87.70	1528.21	906.14	22.348
208.00	64.43	1116.19	659.16	20.669	288.00	88.00	1533.42	909.26	22.366
209.00	64.73	1121.41	662.29	20.694	289.00	88.29	1538.63	912.39	22.384
210.00	65.02	1126.63	665.42	20.719	290.00	88.58	1543.84	915.51	22.402
211.00	65.32	1131.86	668.55	20.744	291.00	88.88	1549.05	918.63	22.420
212.00	65.61	1137.08	671.68	20.768	292.00	89.17	1554.26	921.76	22.438
213.00	65.91	1142.30	674.81	20.793	293.00	89.47	1559.46	924.88	22.456
214.00	66.20	1147.52	677.94	20.818	294.00	89.76	1564.67	928.00	22.474
215.00	66.50	1152.74	681.07	20.842	295.00	90.06	1569.88	931.13	22.491
216.00	66.79	1157.97	684.20	20.866	296.00	90.35	1575.09	934.25	22.509
217.00	67.09	1163.19	687.33	20.890	297.00	90.64	1580.30	937.37	22.527
218.00	67.38	1168.41	690.46	20.914	298.00	90.94	1585.51	940.50	22.544
219.00	67.68	1173.63	693.58	20.938	299.00	91.23	1590.72	943.62	22.562
220.00	67.97	1178.85	696.71	20.962	300.00	91.53	1595.92	946.74	22.579

80.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	18.37	342.64	193.76	13.885
					62.00	18.64	348.07	197.01	13.973
					63.00	18.90	353.50	200.26	14.060
					64.00	19.17	358.92	203.50	14.145
					65.00	19.44	364.34	206.74	14.229
					66.00	19.71	369.75	209.98	14.312
					67.00	19.98	375.15	213.22	14.393
					68.00	20.24	380.56	216.45	14.473
					69.00	20.51	385.95	219.68	14.552
					70.00	20.78	391.35	222.91	14.630
					71.00	21.05	396.74	226.13	14.706
					72.00	21.31	402.12	229.35	14.781
					73.00	21.58	407.50	232.57	14.856
					74.00	21.85	412.88	235.79	14.929
					75.00	22.11	418.26	239.01	15.001
					76.00	22.38	423.63	242.22	15.072
					77.00	22.64	429.00	245.43	15.142
					78.00	22.91	434.36	248.64	15.212
					79.00	23.18	439.72	251.85	15.280
					80.00	23.44	445.08	255.05	15.347
					81.00	23.71	450.43	258.25	15.414
					82.00	23.97	455.78	261.46	15.479
					83.00	24.24	461.13	264.66	15.546
					84.00	24.50	466.48	267.85	15.608
					85.00	24.77	471.82	271.05	15.671
					86.00	25.03	477.16	274.24	15.734
					87.00	25.30	482.50	277.44	15.796
					88.00	25.56	487.84	280.63	15.857
					89.00	25.83	493.17	283.82	15.917
					90.00	26.09	498.50	287.01	15.976
					91.00	26.35	503.83	290.20	16.035
					92.00	26.62	509.15	293.38	16.094
					93.00	26.88	514.48	296.57	16.151
					94.00	27.15	519.80	299.75	16.208
					95.00	27.41	525.12	302.93	16.264
					96.00	27.67	530.44	306.12	16.320
					97.00	27.94	535.75	309.30	16.375
					98.00	28.20	541.07	312.47	16.430
					99.00	28.46	546.38	315.65	16.483
					100.00	28.73	551.69	318.83	16.537
					101.00	28.99	556.99	322.00	16.590
					102.00	29.25	562.30	325.18	16.642
					103.00	29.51	567.60	328.35	16.694
					104.00	29.78	572.91	331.53	16.745
					105.00	30.04	578.21	334.70	16.796
					106.00	30.30	583.51	337.87	16.846
					107.00	30.57	588.81	341.04	16.896
					108.00	30.83	594.10	344.21	16.945
					109.00	31.09	599.40	347.38	16.994
					110.00	31.35	604.69	350.54	17.042
					111.00	31.61	609.98	353.71	17.090
					112.00	31.88	615.27	356.88	17.137
					113.00	32.14	620.56	360.04	17.184
					114.00	32.40	625.85	363.21	17.231
					115.00	32.66	631.13	366.37	17.277
					116.00	32.92	636.42	369.53	17.323
					117.00	33.19	641.70	372.69	17.368
					118.00	33.45	646.98	375.86	17.413
					119.00	33.71	652.27	379.02	17.458
					120.00	33.97	657.55	382.18	17.502
					121.00	34.23	662.82	385.34	17.546
					122.00	34.49	668.10	388.49	17.589
					123.00	34.75	673.38	391.65	17.632
					124.00	35.02	678.65	394.81	17.675
					125.00	35.28	683.93	397.97	17.717
					126.00	35.54	689.20	401.12	17.759
					127.00	35.80	694.47	404.28	17.801
					128.00	36.06	699.75	407.44	17.842
					129.00	36.32	705.02	410.59	17.883
					130.00	36.58	710.28	413.74	17.924
					131.00	36.84	715.55	416.90	17.964
					132.00	37.10	720.82	420.05	18.005
					133.00	37.36	726.09	423.20	18.044
					134.00	37.62	731.35	426.36	18.084
					135.00	37.89	736.62	429.51	18.123
					136.00	38.15	741.88	432.66	18.162
					137.00	38.41	747.14	435.81	18.200
					138.00	38.67	752.41	438.96	18.239
					139.00	38.93	757.67	442.11	18.277
					140.00	39.19	762.93	445.26	18.314
4.00	4.96	48.92	8.69	1.863	84.00	24.50	466.48	267.85	15.608
5.00	5.03	50.88	10.08	2.320	85.00	24.77	471.82	271.05	15.671
6.00	5.11	53.11	11.65	2.723	86.00	25.03	477.16	274.24	15.734
7.00	5.21	55.51	13.28	3.097	87.00	25.30	482.50	277.44	15.796
8.00	5.32	58.41	15.31	3.483	88.00	25.56	487.84	280.63	15.857
9.00	5.44	61.96	17.88	3.900	89.00	25.83	493.17	283.82	15.917
10.00	5.57	65.94	20.78	4.319	90.00	26.09	498.50	287.01	15.976
11.00	5.71	70.22	23.89	4.727	91.00	26.35	503.83	290.20	16.035
12.00	5.87	74.73	27.15	5.119	92.00	26.62	509.15	293.38	16.094
13.00	6.04	79.42	30.49	5.495	93.00	26.88	514.48	296.57	16.151
14.00	6.21	84.25	33.90	5.853	94.00	27.15	519.80	299.75	16.208
15.00	6.40	89.20	37.36	6.194	95.00	27.41	525.12	302.93	16.264
16.00	6.59	94.26	40.84	6.520	96.00	27.67	530.44	306.12	16.320
17.00	6.79	99.41	44.35	6.832	97.00	27.94	535.75	309.30	16.375
18.00	7.00	104.63	47.87	7.131	98.00	28.20	541.07	312.47	16.430
19.00	7.22	109.93	51.40	7.418	99.00	28.46	546.38	315.65	16.483
20.00	7.45	115.30	54.94	7.693	100.00	28.73	551.69	318.83	16.537
21.00	7.68	120.72	58.48	7.957	101.00	28.99	556.99	322.00	16.590
22.00	7.92	126.18	62.02	8.212	102.00	29.25	562.30	325.18	16.642
23.00	8.16	131.69	65.55	8.456	103.00	29.51	567.60	328.35	16.694
24.00	8.41	137.23	69.09	8.692	104.00	29.78	572.91	331.53	16.745
25.00	8.66	142.80	72.61	8.920	105.00	30.04	578.21	334.70	16.796
26.00	8.91	148.39	76.13	9.139	106.00	30.30	583.51	337.87	16.846
27.00	9.17	154.00	79.64	9.351	107.00	30.57	588.81	341.04	16.896
28.00	9.43	159.62	83.15	9.555	108.00	30.83	594.10	344.21	16.945
29.00	9.70	165.25	86.64	9.753	109.00	31.09	599.40	347.38	16.994
30.00	9.96	170.88	90.12	9.943	110.00	31.35	604.69	350.54	17.042
31.00	10.23	176.52	93.59	10.128	111.00	31.61	609.98	353.71	17.090
32.00	10.50	182.16	97.05	10.307	112.00	31.88	615.27	356.88	17.137
33.00	10.77	187.79	100.49	10.481	113.00	32.14	620.56	360.04	17.184
34.00	11.04	193.42	103.93	10.649	114.00	32.40	625.85	363.21	17.231
35.00	11.31	199.04	107.36	10.812	115.00	32.66	631.13	366.37	17.277
36.00	11.58	204.66	110.78	10.970	116.00	32.92	636.42	369.53	17.323
37.00	11.85	210.27	114.18	11.124	117.00	33.19	641.70	372.69	17.368
38.00	12.13	215.88	117.58	11.273	118.00	33.45	646.98	375.86	17.413
39.00	12.40	221.48	120.97	11.419	119.00	33.71	652.27	379.02	17.458
40.00	12.67	227.06	124.35	11.560	120.00	33.97	657.55	382.18	17.502
41.00	12.94	232.64	127.72	11.698	121.00	34.23	662.82	385.34	17.546
42.00	13.22	238.22	131.08	11.832	122.00	34.49	668.10	388.49	17.589
43.00	13.49	243.78	134.43	11.963	123.00	34.75	673.38	391.65	17.632
44.00	13.76	249.34	137.78	12.091	124.00	35.02	678.65	394.81	17.675
45.00	14.03	254.88	141.12	12.215	125.00	35.28	683.93	397.97	17.717
46.00	14.31	260.42	144.45	12.337	126.00	35.54	689.20	401.12	17.759
47.00	14.58	265.95	147.77	12.456	127.00	35.80	694.47	404.28	17.801
48.00	14.85	271.48	151.09	12.572	128.00	36.06	699.75	407.44	17.842
49.00	15.12	276.99	154.40	12.686	129.00	36.32	705.02	410.59	17.883
50.00	15.39	282.50	157.71	12.797	130.00	36.58	710.28	413.74	17.924
51.00	15.67	288.00	161.01	12.906	131.00	36.84	715.55	416.90	17.964
52.00	15.94	293.50	164.31	13.013	132.00	37.10	720.82	420.05	18.005
53.00	16.21	298.98	167.60	13.118	133.00	37.36	726.09	423.20	18.044
54.00	16.48	304.46	170.88	13.220	134.00	37.62	731.35	426.36	18.084
55.00	16.75	309.93	174.16	13.320	135.00	37.89	736.62	429.51	18.123
56.00	17.02	315.40	177.44	13.419	136.00	38.15	741.88	432.66	18.162
57.00	17.29	320.							

80.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	39.45	768.19	448.41	18.352	221.00	60.18	1187.22	699.42	20.706
142.00	39.71	773.45	451.56	18.389	222.00	60.43	1192.44	702.55	20.730
143.00	39.97	778.70	454.71	18.426	223.00	60.69	1197.66	705.68	20.753
144.00	40.23	783.96	457.85	18.462	224.00	60.95	1202.89	708.81	20.777
145.00	40.49	789.22	461.00	18.499	225.00	61.21	1208.11	711.94	20.800
146.00	40.75	794.47	464.15	18.535	226.00	61.47	1213.33	715.07	20.823
147.00	41.01	799.73	467.29	18.571	227.00	61.72	1218.55	718.20	20.846
148.00	41.27	804.98	470.44	18.606	228.00	61.98	1223.78	721.33	20.869
149.00	41.53	810.24	473.59	18.642	229.00	62.24	1229.00	724.46	20.892
150.00	41.79	815.49	476.73	18.677	230.00	62.50	1234.22	727.59	20.915
151.00	42.05	820.74	479.88	18.712	231.00	62.76	1239.44	730.72	20.937
152.00	42.31	825.99	483.02	18.746	232.00	63.02	1244.66	733.85	20.960
153.00	42.57	831.24	486.17	18.781	233.00	63.27	1249.88	736.98	20.982
154.00	42.83	836.49	489.31	18.815	234.00	63.53	1255.10	740.10	21.005
155.00	43.09	841.74	492.46	18.849	235.00	63.79	1260.32	743.23	21.027
156.00	43.35	846.99	495.60	18.883	236.00	64.05	1265.54	746.36	21.049
157.00	43.61	852.24	498.74	18.916	237.00	64.31	1270.76	749.49	21.071
158.00	43.87	857.49	501.88	18.950	238.00	64.56	1275.98	752.62	21.093
159.00	44.13	862.74	505.03	18.983	239.00	64.82	1281.20	755.75	21.115
160.00	44.39	867.98	508.17	19.016	240.00	65.08	1286.42	758.88	21.137
161.00	44.65	873.23	511.31	19.048	241.00	65.34	1291.64	762.00	21.158
162.00	44.91	878.48	514.45	19.081	242.00	65.60	1296.86	765.13	21.180
163.00	45.17	883.72	517.59	19.113	243.00	65.85	1302.08	768.26	21.202
164.00	45.43	888.96	520.74	19.145	244.00	66.11	1307.30	771.39	21.223
165.00	45.69	894.21	523.88	19.177	245.00	66.37	1312.51	774.51	21.244
166.00	45.94	899.45	527.02	19.209	246.00	66.63	1317.73	777.64	21.266
167.00	46.20	904.70	530.16	19.240	247.00	66.88	1322.95	780.77	21.287
168.00	46.46	909.94	533.30	19.272	248.00	67.14	1328.17	783.90	21.308
169.00	46.72	915.18	536.44	19.303	249.00	67.40	1333.39	787.02	21.329
170.00	46.98	920.42	539.58	19.334	250.00	67.66	1338.60	790.15	21.350
171.00	47.24	925.66	542.72	19.364	251.00	67.92	1343.82	793.28	21.371
172.00	47.50	930.90	545.85	19.395	252.00	68.17	1349.04	796.41	21.391
173.00	47.76	936.14	548.99	19.425	253.00	68.43	1354.26	799.53	21.412
174.00	48.02	941.38	552.13	19.455	254.00	68.69	1359.47	802.66	21.433
175.00	48.28	946.62	555.27	19.485	255.00	68.95	1364.69	805.79	21.453
176.00	48.54	951.86	558.41	19.515	256.00	69.21	1369.90	808.91	21.474
177.00	48.80	957.10	561.55	19.545	257.00	69.46	1375.12	812.04	21.494
178.00	49.06	962.34	564.68	19.574	258.00	69.72	1380.34	815.17	21.514
179.00	49.31	967.57	567.82	19.604	259.00	69.98	1385.55	818.29	21.534
180.00	49.57	972.81	570.96	19.633	260.00	70.24	1390.77	821.42	21.554
181.00	49.83	978.05	574.09	19.662	261.00	70.49	1395.98	824.55	21.574
182.00	50.09	983.28	577.23	19.691	262.00	70.75	1401.20	827.67	21.594
183.00	50.35	988.52	580.37	19.720	263.00	71.01	1406.42	830.80	21.614
184.00	50.61	993.75	583.50	19.748	264.00	71.27	1411.63	833.92	21.634
185.00	50.87	998.99	586.64	19.776	265.00	71.52	1416.85	837.05	21.654
186.00	51.13	1004.22	589.78	19.805	266.00	71.78	1422.06	840.18	21.673
187.00	51.39	1009.46	592.91	19.833	267.00	72.04	1427.27	843.30	21.693
188.00	51.64	1014.69	596.05	19.861	268.00	72.30	1432.49	846.43	21.712
189.00	51.90	1019.92	599.18	19.888	269.00	72.56	1437.70	849.55	21.732
190.00	52.16	1025.16	602.32	19.916	270.00	72.81	1442.92	852.68	21.751
191.00	52.42	1030.39	605.45	19.943	271.00	73.07	1448.13	855.80	21.770
192.00	52.68	1035.62	608.59	19.971	272.00	73.33	1453.35	858.93	21.790
193.00	52.94	1040.85	611.72	19.998	273.00	73.59	1458.56	862.06	21.809
194.00	53.20	1046.08	614.86	20.025	274.00	73.84	1463.77	865.18	21.828
195.00	53.46	1051.32	617.99	20.052	275.00	74.10	1468.99	868.31	21.847
196.00	53.71	1056.55	621.12	20.079	276.00	74.36	1474.20	871.43	21.866
197.00	53.97	1061.78	624.26	20.105	277.00	74.62	1479.41	874.56	21.885
198.00	54.23	1067.01	627.39	20.132	278.00	74.87	1484.63	877.68	21.903
199.00	54.49	1072.24	630.52	20.158	279.00	75.13	1489.84	880.81	21.922
200.00	54.75	1077.47	633.66	20.184	280.00	75.39	1495.05	883.93	21.941
201.00	55.01	1082.70	636.79	20.210	281.00	75.65	1500.27	887.06	21.959
202.00	55.27	1087.92	639.92	20.236	282.00	75.90	1505.48	890.18	21.978
203.00	55.52	1093.15	643.06	20.262	283.00	76.16	1510.69	893.31	21.996
204.00	55.78	1098.38	646.19	20.288	284.00	76.42	1515.90	896.43	22.015
205.00	56.04	1103.61	649.32	20.313	285.00	76.68	1521.12	899.55	22.033
206.00	56.30	1108.84	652.45	20.339	286.00	76.93	1526.33	902.68	22.051
207.00	56.56	1114.06	655.59	20.364	287.00	77.19	1531.54	905.80	22.070
208.00	56.82	1119.29	658.72	20.389	288.00	77.45	1536.75	908.93	22.088
209.00	57.08	1124.52	661.85	20.414	289.00	77.71	1541.96	912.05	22.106
210.00	57.33	1129.74	664.98	20.439	290.00	77.96	1547.17	915.18	22.124
211.00	57.59	1134.97	668.11	20.464	291.00	78.22	1552.39	918.30	22.142
212.00	57.85	1140.20	671.25	20.489	292.00	78.48	1557.60	921.43	22.160
213.00	58.11	1145.42	674.38	20.514	293.00	78.74	1562.81	924.55	22.177
214.00	58.37	1150.65	677.51	20.538	294.00	78.99	1568.02	927.67	22.195
215.00	58.63	1155.87	680.64	20.562	295.00	79.25	1573.23	930.80	22.213
216.00	58.88	1161.10	683.77	20.587	296.00	79.51	1578.44	933.92	22.230
217.00	59.14	1166.32	686.90	20.611	297.00	79.77	1583.65	937.05	22.248
218.00	59.40	1171.55	690.03	20.635	298.00	80.02	1588.86	940.17	22.266
219.00	59.66	1176.77	693.16	20.659	299.00	80.28	1594.07	943.29	22.283
220.00	59.92	1181.99	696.29	20.682	300.00	80.54	1599.28	946.42	22.300

90.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	16.65	344.67	192.79	13.628
					62.00	16.89	350.11	196.05	13.716
					63.00	17.13	355.55	199.31	13.803
					64.00	17.37	360.98	202.56	13.889
					65.00	17.61	366.41	205.81	13.973
					66.00	17.85	371.83	209.05	14.056
					67.00	18.09	377.25	212.29	14.137
					68.00	18.33	382.67	215.53	14.218
					69.00	18.57	388.08	218.77	14.296
					70.00	18.80	393.48	222.01	14.374
					71.00	19.04	398.89	225.24	14.451
					72.00	19.28	404.28	228.47	14.526
					73.00	19.52	409.68	231.69	14.601
					74.00	19.75	415.07	234.92	14.674
					75.00	19.99	420.45	238.14	14.746
					76.00	20.23	425.84	241.36	14.818
					77.00	20.47	431.22	244.58	14.888
					78.00	20.70	436.59	247.79	14.957
					79.00	20.94	441.97	251.00	15.026
					80.00	21.18	447.33	254.22	15.093
					81.00	21.41	452.70	257.42	15.160
					82.00	21.65	458.06	260.63	15.226
					83.00	21.89	463.42	263.84	15.291
					84.00	22.12	468.78	267.04	15.355
					85.00	22.36	474.14	270.24	15.418
					86.00	22.59	479.49	273.44	15.481
					87.00	22.83	484.84	276.64	15.543
					88.00	23.07	490.18	279.84	15.604
					89.00	23.30	495.53	283.04	15.664
					90.00	23.54	500.87	286.23	15.724
4.00	4.87	53.64	9.25	1.798	91.00	23.77	506.21	289.42	15.783
5.00	4.93	55.56	10.59	2.247	92.00	24.01	511.54	292.61	15.841
6.00	5.01	57.74	12.09	2.639	93.00	24.24	516.88	295.80	15.899
7.00	5.09	60.05	13.64	3.001	94.00	24.48	522.21	298.99	15.956
8.00	5.19	62.86	15.58	3.374	95.00	24.71	527.54	302.18	16.012
9.00	5.29	66.31	18.05	3.780	96.00	24.95	532.86	305.37	16.068
10.00	5.41	70.18	20.86	4.187	97.00	25.18	538.19	308.55	16.123
11.00	5.53	74.36	23.88	4.585	98.00	25.42	543.51	311.74	16.178
12.00	5.67	78.76	27.05	4.968	99.00	25.65	548.83	314.92	16.232
13.00	5.81	83.33	30.31	5.334	100.00	25.88	554.15	318.10	16.285
14.00	5.97	88.04	33.64	5.683	101.00	26.12	559.47	321.28	16.338
15.00	6.12	92.87	37.01	6.016	102.00	26.35	564.79	324.46	16.391
16.00	6.29	97.80	40.42	6.334	103.00	26.59	570.10	327.64	16.443
17.00	6.47	102.82	43.86	6.639	104.00	26.82	575.41	330.81	16.494
18.00	6.65	107.92	47.31	6.930	105.00	27.06	580.72	333.99	16.545
19.00	6.83	113.09	50.77	7.210	106.00	27.29	586.03	337.17	16.595
20.00	7.03	118.33	54.25	7.478	107.00	27.52	591.34	340.34	16.645
21.00	7.23	123.63	57.73	7.737	108.00	27.76	596.64	343.51	16.694
22.00	7.43	128.98	61.21	7.986	109.00	27.99	601.94	346.69	16.743
23.00	7.64	134.38	64.70	8.226	110.00	28.22	607.25	349.86	16.791
24.00	7.83	139.82	68.19	8.457	111.00	28.46	612.55	353.03	16.839
25.00	8.07	145.29	71.68	8.681	112.00	28.69	617.85	356.20	16.887
26.00	8.29	150.79	75.17	8.896	113.00	28.92	623.14	359.37	16.934
27.00	8.52	156.32	78.65	9.105	114.00	29.16	628.44	362.54	16.981
28.00	8.74	161.87	82.12	9.307	115.00	29.39	633.73	365.70	17.027
29.00	8.97	167.43	85.59	9.502	116.00	29.62	639.03	368.87	17.073
30.00	9.21	173.01	89.06	9.691	117.00	29.86	644.32	372.04	17.118
31.00	9.44	178.60	92.51	9.874	118.00	30.09	649.61	375.20	17.163
32.00	9.68	184.19	95.96	10.052	119.00	30.32	654.90	378.37	17.208
33.00	9.91	189.79	99.40	10.224	120.00	30.56	660.18	381.53	17.252
34.00	10.15	195.39	102.83	10.391	121.00	30.79	665.47	384.69	17.296
35.00	10.39	200.99	106.25	10.554	122.00	31.02	670.76	387.86	17.339
36.00	10.63	206.58	109.67	10.711	123.00	31.25	676.04	391.02	17.383
37.00	10.87	212.18	113.07	10.865	124.00	31.49	681.32	394.18	17.425
38.00	11.11	217.77	116.47	11.014	125.00	31.72	686.60	397.34	17.468
39.00	11.35	223.36	119.86	11.159	126.00	31.95	691.88	400.50	17.510
40.00	11.59	228.94	123.24	11.300	127.00	32.18	697.16	403.66	17.552
41.00	11.83	234.52	126.62	11.438	128.00	32.42	702.44	406.82	17.593
42.00	12.07	240.09	129.98	11.572	129.00	32.65	707.72	409.98	17.634
43.00	12.32	245.65	133.34	11.703	130.00	32.88	713.00	413.13	17.675
44.00	12.56	251.21	136.69	11.831	131.00	33.11	718.27	416.29	17.715
45.00	12.80	256.76	140.04	11.955	132.00	33.35	723.55	419.45	17.755
46.00	13.04	262.30	143.37	12.077	133.00	33.58	728.82	422.60	17.795
47.00	13.28	267.84	146.71	12.196	134.00	33.81	734.09	425.76	17.835
48.00	13.52	273.37	150.03	12.313	135.00	34.04	739.36	428.91	17.874
49.00	13.77	278.89	153.35	12.427	136.00	34.27	744.63	432.07	17.913
50.00	14.01	284.41	156.66	12.538	137.00	34.51	749.90	435.22	17.951
51.00	14.25	289.91	159.97	12.647	138.00	34.74	755.17	438.38	17.990
52.00	14.49	295.42	163.27	12.754	139.00	34.97	760.44	441.53	18.028
53.00	14.73	300.91	166.57	12.859	140.00	35.20	765.70	444.68	18.065
54.00	14.97	306.40	169.87	12.961					
55.00	15.21	311.89	173.15	13.062					
56.00	15.45	317.37	176.44	13.161					
57.00	15.69	322.84	179.72	13.258					
58.00	15.93	328.30	182.99	13.353					
59.00	16.17	333.76	186.26	13.446					
60.00	16.41	339.22	189.53	13.538					

90.00 ATMOSPHERE ISQAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	35.43	770.97	447.83	18.103	221.00	53.88	1190.37	699.01	20.460
142.00	35.67	776.24	450.98	18.140	222.00	54.11	1195.59	702.14	20.483
143.00	35.90	781.50	454.14	18.177	223.00	54.34	1200.82	705.28	20.507
144.00	36.13	786.76	457.29	18.214	224.00	54.57	1206.05	708.41	20.530
145.00	36.36	792.03	460.44	18.250	225.00	54.80	1211.27	711.54	20.553
146.00	36.59	797.29	463.59	18.286	226.00	55.03	1216.50	714.67	20.576
147.00	36.82	802.55	466.74	18.322	227.00	55.26	1221.72	717.80	20.599
148.00	37.06	807.81	469.88	18.358	228.00	55.49	1226.95	720.93	20.622
149.00	37.29	813.07	473.03	18.393	229.00	55.72	1232.17	724.06	20.645
150.00	37.52	818.33	476.18	18.428	230.00	55.95	1237.40	727.19	20.668
151.00	37.75	823.59	479.33	18.463	231.00	56.18	1242.62	730.32	20.691
152.00	37.98	828.84	482.48	18.498	232.00	56.41	1247.85	733.45	20.713
153.00	38.21	834.10	485.62	18.533	233.00	56.64	1253.07	736.58	20.736
154.00	38.44	839.36	488.77	18.567	234.00	56.86	1258.29	739.71	20.758
155.00	38.67	844.61	491.92	18.601	235.00	57.09	1263.52	742.84	20.780
156.00	38.91	849.87	495.06	18.635	236.00	57.32	1268.74	745.97	20.803
157.00	39.14	855.12	498.21	18.668	237.00	57.55	1273.96	749.10	20.825
158.00	39.37	860.37	501.35	18.702	238.00	57.78	1279.19	752.23	20.847
159.00	39.60	865.63	504.50	18.735	239.00	58.01	1284.41	755.36	20.869
160.00	39.83	870.88	507.64	18.768	240.00	58.24	1289.63	758.49	20.890
161.00	40.06	876.13	510.79	18.800	241.00	58.47	1294.85	761.62	20.912
162.00	40.29	881.38	513.93	18.833	242.00	58.70	1300.07	764.75	20.934
163.00	40.52	886.63	517.08	18.865	243.00	58.93	1305.30	767.88	20.955
164.00	40.75	891.88	520.22	18.897	244.00	59.16	1310.52	771.01	20.977
165.00	40.99	897.13	523.36	18.929	245.00	59.39	1315.74	774.14	20.998
166.00	41.22	902.38	526.51	18.961	246.00	59.62	1320.96	777.27	21.019
167.00	41.45	907.63	529.65	18.992	247.00	59.85	1326.18	780.40	21.041
168.00	41.68	912.87	532.79	19.024	248.00	60.08	1331.40	783.52	21.062
169.00	41.91	918.12	535.93	19.055	249.00	60.31	1336.62	786.65	21.083
170.00	42.14	923.37	539.07	19.086	250.00	60.54	1341.84	789.78	21.104
171.00	42.37	928.61	542.22	19.117	251.00	60.77	1347.06	792.91	21.124
172.00	42.60	933.86	545.36	19.147	252.00	60.99	1352.28	796.04	21.145
173.00	42.83	939.10	548.50	19.178	253.00	61.22	1357.50	799.17	21.166
174.00	43.06	944.35	551.64	19.208	254.00	61.45	1362.72	802.29	21.186
175.00	43.29	949.59	554.78	19.238	255.00	61.68	1367.94	805.42	21.207
176.00	43.52	954.83	557.92	19.268	256.00	61.91	1373.16	808.55	21.227
177.00	43.75	960.08	561.06	19.297	257.00	62.14	1378.38	811.68	21.248
178.00	43.98	965.32	564.20	19.327	258.00	62.37	1383.60	814.81	21.268
179.00	44.22	970.56	567.34	19.356	259.00	62.60	1388.81	817.93	21.288
180.00	44.45	975.80	570.48	19.386	260.00	62.83	1394.03	821.06	21.308
181.00	44.68	981.04	573.62	19.415	261.00	63.06	1399.25	824.19	21.328
182.00	44.91	986.28	576.75	19.443	262.00	63.29	1404.47	827.31	21.348
183.00	45.14	991.52	579.89	19.472	263.00	63.52	1409.69	830.44	21.368
184.00	45.37	996.76	583.03	19.501	264.00	63.75	1414.90	833.57	21.388
185.00	45.60	1002.00	586.17	19.529	265.00	63.98	1420.12	836.70	21.408
186.00	45.83	1007.24	589.31	19.557	266.00	64.20	1425.34	839.82	21.427
187.00	46.06	1012.48	592.44	19.585	267.00	64.43	1430.56	842.95	21.447
188.00	46.29	1017.72	595.58	19.613	268.00	64.66	1435.77	846.08	21.466
189.00	46.52	1022.95	598.72	19.641	269.00	64.89	1440.99	849.20	21.486
190.00	46.75	1028.19	601.86	19.669	270.00	65.12	1446.21	852.33	21.505
191.00	46.98	1033.43	604.99	19.696	271.00	65.35	1451.42	855.46	21.524
192.00	47.21	1038.66	608.13	19.724	272.00	65.58	1456.64	858.58	21.544
193.00	47.44	1043.90	611.27	19.751	273.00	65.81	1461.86	861.71	21.563
194.00	47.67	1049.14	614.40	19.778	274.00	66.04	1467.07	864.84	21.582
195.00	47.90	1054.37	617.54	19.805	275.00	66.27	1472.29	867.96	21.601
196.00	48.13	1059.61	620.67	19.832	276.00	66.50	1477.50	871.09	21.620
197.00	48.36	1064.84	623.81	19.858	277.00	66.73	1482.72	874.22	21.639
198.00	48.59	1070.07	626.94	19.885	278.00	66.95	1487.93	877.34	21.657
199.00	48.82	1075.31	630.08	19.911	279.00	67.18	1493.15	880.47	21.676
200.00	49.05	1080.54	633.21	19.937	280.00	67.41	1498.37	883.59	21.695
201.00	49.28	1085.77	636.35	19.963	281.00	67.64	1503.58	886.72	21.713
202.00	49.51	1091.01	639.48	19.989	282.00	67.87	1508.80	889.84	21.732
203.00	49.74	1096.24	642.62	20.015	283.00	68.10	1514.01	892.97	21.750
204.00	49.97	1101.47	645.75	20.041	284.00	68.33	1519.22	896.10	21.769
205.00	50.20	1106.70	648.89	20.067	285.00	68.56	1524.44	899.22	21.787
206.00	50.43	1111.93	652.02	20.092	286.00	68.79	1529.65	902.35	21.805
207.00	50.66	1117.16	655.15	20.117	287.00	69.02	1534.87	905.47	21.824
208.00	50.89	1122.40	658.29	20.143	288.00	69.25	1540.08	908.60	21.842
209.00	51.12	1127.63	661.42	20.168	289.00	69.47	1545.30	911.72	21.860
210.00	51.35	1132.86	664.56	20.193	290.00	69.70	1550.51	914.85	21.878
211.00	51.58	1138.09	667.69	20.217	291.00	69.93	1555.72	917.97	21.896
212.00	51.81	1143.31	670.82	20.242	292.00	70.16	1560.94	921.10	21.914
213.00	52.04	1148.54	673.95	20.267	293.00	70.39	1566.15	924.22	21.931
214.00	52.27	1153.77	677.09	20.291	294.00	70.62	1571.36	927.35	21.949
215.00	52.50	1159.00	680.22	20.316	295.00	70.85	1576.58	930.47	21.967
216.00	52.73	1164.23	683.35	20.340	296.00	71.08	1581.79	933.60	21.985
217.00	52.96	1169.46	686.48	20.364	297.00	71.31	1587.00	936.72	22.002
218.00	53.19	1174.69	689.62	20.388	298.00	71.54	1592.21	939.85	22.020
219.00	53.42	1179.91	692.75	20.412	299.00	71.76	1597.43	942.97	22.037
220.00	53.65	1185.14	695.88	20.436	300.00	71.99	1602.64	946.10	22.055

100.00 ATMOSPHERE ISO8AR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
					61.00	15.28	346.76	191.89	13.397
					62.00	15.50	352.22	195.15	13.486
					63.00	15.72	357.67	198.42	13.573
					64.00	15.93	363.11	201.67	13.659
					65.00	16.15	368.55	204.93	13.743
					66.00	16.36	373.98	208.18	13.826
					67.00	16.58	379.41	211.43	13.908
					68.00	16.79	384.84	214.67	13.988
					69.00	17.01	390.26	217.92	14.067
					70.00	17.22	395.68	221.16	14.145
					71.00	17.44	401.09	224.40	14.222
					72.00	17.65	406.50	227.63	14.298
					73.00	17.87	411.90	230.86	14.372
					74.00	18.08	417.30	234.09	14.446
					75.00	18.30	422.70	237.32	14.518
					76.00	18.51	428.10	240.54	14.590
					77.00	18.72	433.49	243.77	14.660
					78.00	18.94	438.87	246.99	14.730
					79.00	19.15	444.26	250.21	14.798
					80.00	19.36	449.64	253.42	14.866
					81.00	19.58	455.01	256.64	14.933
					82.00	19.79	460.39	259.85	14.999
					83.00	20.00	465.76	263.06	15.064
					84.00	20.22	471.12	266.27	15.128
					85.00	20.43	476.49	269.48	15.191
					86.00	20.64	481.85	272.68	15.254
					87.00	20.86	487.21	275.89	15.316
					88.00	21.07	492.56	279.09	15.377
					89.00	21.28	497.92	282.29	15.438
					90.00	21.49	503.27	285.49	15.498
					91.00	21.70	508.62	288.69	15.557
					92.00	21.92	513.96	291.88	15.615
					93.00	22.13	519.31	295.08	15.673
					94.00	22.34	524.65	298.27	15.730
					95.00	22.55	529.99	301.46	15.786
					96.00	22.76	535.32	304.65	15.842
					97.00	22.98	540.66	307.84	15.898
					98.00	23.19	545.99	311.03	15.952
					99.00	23.40	551.32	314.22	16.006
					100.00	23.61	556.65	317.40	16.060
					101.00	23.82	561.97	320.59	16.113
					102.00	24.03	567.30	323.77	16.165
					103.00	24.24	572.62	326.95	16.217
					104.00	24.46	577.94	330.13	16.269
					105.00	24.67	583.26	333.31	16.320
					106.00	24.88	588.58	336.49	16.370
					107.00	25.09	593.89	339.67	16.420
					108.00	25.30	599.20	342.85	16.469
					109.00	25.51	604.51	346.03	16.518
					110.00	25.72	609.82	349.20	16.567
					111.00	25.93	615.13	352.38	16.615
					112.00	26.14	620.44	355.55	16.662
					113.00	26.35	625.74	358.72	16.710
					114.00	26.56	631.05	361.89	16.756
					115.00	26.77	636.35	365.07	16.803
					116.00	26.98	641.65	368.24	16.849
					117.00	27.19	646.95	371.41	16.894
					118.00	27.40	652.25	374.57	16.939
					119.00	27.61	657.54	377.74	16.984
					120.00	27.82	662.84	380.91	17.028
					121.00	28.03	668.13	384.08	17.072
					122.00	28.24	673.43	387.24	17.116
					123.00	28.45	678.72	390.41	17.159
					124.00	28.66	684.01	393.57	17.202
					125.00	28.87	689.30	396.74	17.244
					126.00	29.08	694.58	399.90	17.286
					127.00	29.29	699.87	403.06	17.328
					128.00	29.50	705.15	406.22	17.369
					129.00	29.71	710.44	409.38	17.411
					130.00	29.92	715.72	412.54	17.451
					131.00	30.13	721.00	415.70	17.492
					132.00	30.34	726.28	418.86	17.532
					133.00	30.55	731.56	422.02	17.572
					134.00	30.76	736.84	425.18	17.611
					135.00	30.97	742.12	428.34	17.651
					136.00	31.18	747.40	431.50	17.690
					137.00	31.39	752.67	434.65	17.728
					138.00	31.59	757.95	437.81	17.767
					139.00	31.80	763.22	440.97	17.805
					140.00	32.01	768.49	444.12	17.843
4.00	4.78	58.29	9.83	1.737					
5.00	4.84	60.18	11.12	2.181					
6.00	4.91	62.30	12.56	2.564					
7.00	4.99	64.55	14.04	2.914					
8.00	5.07	67.28	15.90	3.277					
9.00	5.17	70.64	18.29	3.673					
10.00	5.27	74.43	21.02	4.071					
11.00	5.38	78.51	23.97	4.460					
12.00	5.50	82.82	27.06	4.835					
13.00	5.63	87.29	30.25	5.193					
14.00	5.76	91.91	33.51	5.535					
15.00	5.90	96.64	36.81	5.861					
16.00	6.05	101.46	40.15	6.173					
17.00	6.20	106.38	43.52	6.470					
18.00	6.36	111.37	46.91	6.756					
19.00	6.53	116.43	50.31	7.029					
20.00	6.69	121.56	53.73	7.293					
21.00	6.87	126.75	57.16	7.546					
22.00	7.05	132.00	60.60	7.790					
23.00	7.23	137.29	64.04	8.025					
24.00	7.42	142.63	67.48	8.253					
25.00	7.61	148.02	70.93	8.472					
26.00	7.80	153.43	74.38	8.685					
27.00	8.00	158.88	77.83	8.890					
28.00	8.20	164.36	81.28	9.089					
29.00	8.40	169.86	84.72	9.282					
30.00	8.61	175.37	88.16	9.469					
31.00	8.81	180.90	91.60	9.651					
32.00	9.02	186.45	95.03	9.827					
33.00	9.23	192.00	98.45	9.998					
34.00	9.44	197.56	101.87	10.164					
35.00	9.66	203.13	105.29	10.325					
36.00	9.87	208.70	108.69	10.482					
37.00	10.08	214.27	112.09	10.635					
38.00	10.30	219.84	115.49	10.783					
39.00	10.51	225.41	118.87	10.928					
40.00	10.73	230.98	122.25	11.069					
41.00	10.95	236.54	125.63	11.206					
42.00	11.16	242.10	128.99	11.340					
43.00	11.38	247.66	132.35	11.471					
44.00	11.60	253.21	135.71	11.599					
45.00	11.81	258.76	139.05	11.723					
46.00	12.03	264.30	142.39	11.845					
47.00	12.25	269.84	145.73	11.964					
48.00	12.47	275.37	149.06	12.081					
49.00	12.68	280.90	152.38	12.195					
50.00	12.90	286.42	155.70	12.306					
51.00	13.12	291.93	159.01	12.415					
52.00	13.33	297.44	162.32	12.522					
53.00	13.55	302.94	165.62	12.627					
54.00	13.77	308.44	168.92	12.730					
55.00	13.99	313.93	172.22	12.831					
56.00	14.20	319.42	175.51	12.929					
57.00	14.42	324.90	178.79	13.026					
58.00	14.64	330.37	182.07	13.122					
59.00	14.85	335.84	185.35	13.215					
60.00	15.07	341.31	188.62	13.307					

100.00 ATMOSPHERE ISOBAR

TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)	TEMPER- ATURE (K)	SPECIFIC VOLUME (CC/GM)	ENTHALPY (J/GM)	INTERNAL ENERGY (J/GM)	ENTROPY (J/GM-K)
141.00	32.22	773.77	447.28	17.880	221.00	48.84	1193.52	698.61	20.239
142.00	32.43	779.04	450.43	17.917	222.00	49.05	1198.75	701.75	20.262
143.00	32.64	784.31	453.58	17.954	223.00	49.26	1203.98	704.88	20.286
144.00	32.85	789.58	456.74	17.991	224.00	49.46	1209.21	708.01	20.309
145.00	33.06	794.84	459.89	18.027	225.00	49.67	1214.43	711.14	20.332
146.00	33.27	800.11	463.04	18.064	226.00	49.88	1219.66	714.28	20.356
147.00	33.47	805.38	466.19	18.100	227.00	50.08	1224.89	717.41	20.379
148.00	33.68	810.65	469.35	18.135	228.00	50.29	1230.12	720.54	20.402
149.00	33.89	815.91	472.50	18.171	229.00	50.50	1235.35	723.67	20.425
150.00	34.10	821.17	475.65	18.206	230.00	50.70	1240.58	726.81	20.447
151.00	34.31	826.44	478.80	18.241	231.00	50.91	1245.80	729.94	20.470
152.00	34.52	831.70	481.95	18.276	232.00	51.12	1251.03	733.07	20.493
153.00	34.73	836.96	485.10	18.310	233.00	51.32	1256.26	736.20	20.515
154.00	34.93	842.22	488.25	18.344	234.00	51.53	1261.48	739.33	20.538
155.00	35.14	847.49	491.40	18.379	235.00	51.74	1266.71	742.46	20.560
156.00	35.35	852.75	494.54	18.412	236.00	51.94	1271.94	745.59	20.582
157.00	35.56	858.00	497.69	18.446	237.00	52.15	1277.16	748.73	20.604
158.00	35.77	863.26	500.84	18.479	238.00	52.36	1282.39	751.86	20.626
159.00	35.98	868.52	503.99	18.513	239.00	52.56	1287.61	754.99	20.648
160.00	36.18	873.78	507.13	18.545	240.00	52.77	1292.84	758.12	20.670
161.00	36.39	879.03	510.28	18.578	241.00	52.98	1298.06	761.25	20.692
162.00	36.60	884.29	513.43	18.611	242.00	53.18	1303.29	764.38	20.713
163.00	36.81	889.55	516.57	18.643	243.00	53.39	1308.51	767.51	20.735
164.00	37.02	894.80	519.72	18.675	244.00	53.60	1313.74	770.64	20.756
165.00	37.22	900.05	522.86	18.707	245.00	53.80	1318.96	773.77	20.778
166.00	37.43	905.31	526.01	18.739	246.00	54.01	1324.18	776.90	20.799
167.00	37.64	910.56	529.15	18.770	247.00	54.22	1329.41	780.03	20.820
168.00	37.85	915.81	532.30	18.802	248.00	54.42	1334.63	783.16	20.841
169.00	38.06	921.06	535.44	18.833	249.00	54.63	1339.85	786.29	20.862
170.00	38.26	926.32	538.59	18.864	250.00	54.84	1345.08	789.42	20.883
171.00	38.47	931.57	541.73	18.895	251.00	55.04	1350.30	792.55	20.904
172.00	38.68	936.82	544.87	18.925	252.00	55.25	1355.52	795.68	20.925
173.00	38.89	942.07	548.02	18.956	253.00	55.46	1360.74	798.81	20.945
174.00	39.10	947.31	551.16	18.986	254.00	55.66	1365.97	801.94	20.966
175.00	39.30	952.56	554.30	19.016	255.00	55.87	1371.19	805.06	20.986
176.00	39.51	957.81	557.44	19.046	256.00	56.08	1376.41	808.19	21.007
177.00	39.72	963.06	560.59	19.076	257.00	56.28	1381.63	811.32	21.027
178.00	39.93	968.30	563.73	19.105	258.00	56.49	1386.85	814.45	21.048
179.00	40.14	973.55	566.87	19.135	259.00	56.70	1392.07	817.58	21.068
180.00	40.34	978.80	570.01	19.164	260.00	56.90	1397.29	820.71	21.088
181.00	40.55	984.04	573.15	19.193	261.00	57.11	1402.51	823.84	21.108
182.00	40.76	989.29	576.29	19.222	262.00	57.32	1407.74	826.97	21.128
183.00	40.97	994.53	579.43	19.251	263.00	57.52	1412.96	830.09	21.148
184.00	41.17	999.77	582.57	19.279	264.00	57.73	1418.18	833.22	21.168
185.00	41.38	1005.02	585.71	19.308	265.00	57.94	1423.40	836.35	21.187
186.00	41.59	1010.26	588.85	19.336	266.00	58.14	1428.62	839.48	21.207
187.00	41.80	1015.50	591.99	19.364	267.00	58.35	1433.84	842.61	21.227
188.00	42.00	1020.75	595.13	19.392	268.00	58.55	1439.05	845.73	21.246
189.00	42.21	1025.99	598.27	19.420	269.00	58.76	1444.27	848.86	21.266
190.00	42.42	1031.23	601.41	19.447	270.00	58.97	1449.49	851.99	21.285
191.00	42.63	1036.47	604.55	19.475	271.00	59.17	1454.71	855.12	21.304
192.00	42.83	1041.71	607.68	19.502	272.00	59.38	1459.93	858.25	21.323
193.00	43.04	1046.95	610.82	19.530	273.00	59.59	1465.15	861.37	21.343
194.00	43.25	1052.19	613.96	19.557	274.00	59.79	1470.37	864.50	21.362
195.00	43.46	1057.43	617.10	19.584	275.00	60.00	1475.59	867.63	21.381
196.00	43.66	1062.67	620.24	19.610	276.00	60.21	1480.80	870.75	21.400
197.00	43.87	1067.90	623.37	19.637	277.00	60.41	1486.02	873.88	21.418
198.00	44.08	1073.14	626.51	19.664	278.00	60.62	1491.24	877.01	21.437
199.00	44.29	1078.38	629.65	19.690	279.00	60.82	1496.46	880.14	21.456
200.00	44.49	1083.62	632.78	19.716	280.00	61.03	1501.67	883.26	21.475
201.00	44.70	1088.85	635.92	19.742	281.00	61.24	1506.89	886.39	21.493
202.00	44.91	1094.09	639.06	19.768	282.00	61.44	1512.11	889.52	21.512
203.00	45.11	1099.33	642.19	19.794	283.00	61.65	1517.33	892.64	21.530
204.00	45.32	1104.56	645.33	19.820	284.00	61.86	1522.54	895.77	21.549
205.00	45.53	1109.80	648.46	19.845	285.00	62.06	1527.76	898.90	21.567
206.00	45.74	1115.03	651.60	19.871	286.00	62.27	1532.98	902.02	21.585
207.00	45.94	1120.27	654.73	19.896	287.00	62.47	1538.19	905.15	21.603
208.00	46.15	1125.50	657.87	19.921	288.00	62.68	1543.41	908.28	21.622
209.00	46.36	1130.73	661.00	19.947	289.00	62.89	1548.62	911.40	21.640
210.00	46.56	1135.97	664.14	19.972	290.00	63.09	1553.84	914.53	21.658
211.00	46.77	1141.20	667.27	19.996	291.00	63.30	1559.06	917.65	21.676
212.00	46.98	1146.43	670.41	20.021	292.00	63.51	1564.27	920.78	21.694
213.00	47.19	1151.67	673.54	20.046	293.00	63.71	1569.49	923.91	21.711
214.00	47.39	1156.90	676.68	20.070	294.00	63.92	1574.70	927.03	21.729
215.00	47.60	1162.13	679.81	20.095	295.00	64.12	1579.92	930.16	21.747
216.00	47.81	1167.36	682.95	20.119	296.00	64.33	1585.13	933.28	21.765
217.00	48.01	1172.59	686.08	20.143	297.00	64.54	1590.35	936.41	21.782
218.00	48.22	1177.83	689.21	20.167	298.00	64.74	1595.56	939.53	21.800
219.00	48.43	1183.06	692.35	20.191	299.00	64.95	1600.78	942.66	21.817
220.00	48.63	1188.29	695.48	20.215	300.00	65.16	1605.99	945.79	21.835



U. S. DEPARTMENT OF COMMERCE
Luther H. Hodges, *Secretary*

NATIONAL BUREAU OF STANDARDS
A. V. Astin, *Director*



THE NATIONAL BUREAU OF STANDARDS

The scope of activities of the National Bureau of Standards at its major laboratories in Washington, D.C., and Boulder, Colorado, is suggested in the following listing of the divisions and sections engaged in technical work. In general, each section carries out specialized research, development, and engineering in the field indicated by its title. A brief description of the activities, and of the resultant publications, appears on the inside of the front cover.

WASHINGTON, D. C.

Electricity. Resistance and Reactance. Electrochemistry. Electrical Instruments. Magnetic Measurements. Dielectrics. High Voltage.

Metrology. Photometry and Colorimetry. Refractometry. Photographic Research. Length. Engineering Metrology. Mass and Scale. Volumetry and Densimetry.

Heat. Temperature Physics. Heat Measurements. Cryogenic Physics. Equation of State. Statistical Physics. **Radiation Physics.** X-ray. Radioactivity. Radiation Theory. High Energy Radiation. Radiological Equipment. Nucleonic Instrumentation. Neutron Physics.

Analytical and Inorganic Chemistry. Pure Substances. Spectrochemistry. Solution Chemistry. Standard Reference Materials. Applied Analytical Research. Crystal Chemistry.

Mechanics. Sound. Pressure and Vacuum. Fluid Mechanics. Engineering Mechanics. Rheology. Combustion Controls.

Polymers. Macromolecules: Synthesis and Structure. Polymer Chemistry. Polymer Physics. Polymer Characterization. Polymer Evaluation and Testing. Applied Polymer Standards and Research. Dental Research.

Metallurgy. Engineering Metallurgy. Microscopy and Diffraction. Metal Reactions. Metal Physics. Electrolysis and Metal Deposition.

Inorganic Solids. Engineering Ceramics. Glass. Solid State Chemistry. Crystal Growth. Physical Properties. Crystallography.

Building Research. Structural Engineering. Fire Research. Mechanical Systems. Organic Building Materials. Codes and Safety Standards. Heat Transfer. Inorganic Building Materials. Metallic Building Materials.

Applied Mathematics. Numerical Analysis. Computation. Statistical Engineering. Mathematical Physics. Operations Research.

Data Processing Systems. Components and Techniques. Computer Technology. Measurements Automation. Engineering Applications. Systems Analysis.

Atomic Physics. Spectroscopy. Infrared Spectroscopy. Solid State Physics. Electron Physics. Atomic Physics. **Instrumentation.** Engineering Electronics. Electron Devices. Electronic Instrumentation. Mechanical Instruments. Basic Instrumentation.

Physical Chemistry. Thermochemistry. Surface Chemistry. Organic Chemistry. Molecular Spectroscopy. Molecular Kinetics. Mass Spectrometry.

Office of Weights and Measures.

BOULDER, COLO.

Cryogenic Engineering Laboratory. Cryogenic Equipment. Cryogenic Processes. Properties of Materials. Cryogenic Technical Services.

CENTRAL RADIO PROPAGATION LABORATORY

Ionosphere Research and Propagation. Low Frequency and Very Low Frequency Research. Ionosphere Research. Prediction Services. Sun-Earth Relationships. Field Engineering. Radio Warning Services. Vertical Soundings Research.

Radio Propagation Engineering. Data Reduction Instrumentation. Radio Noise. Tropospheric Measurements. Tropospheric Analysis. Propagation-Terrain Effects. Radio-Meteorology. Lower Atmosphere Physics.

Radio Systems. Applied Electromagnetic Theory. High Frequency and Very High Frequency Research. Modulation Research. Antenna Research. Navigation Systems.

Upper Atmosphere and Space Physics. Upper Atmosphere and Plasma Physics. Ionosphere and Exosphere Scatter. Airglow and Aurora. Ionospheric Radio Astronomy.

RADIO STANDARDS LABORATORY

Radio Physics. Radio Broadcast Service. Radio and Microwave Materials. Atomic Frequency and Time-Interval Standards. Millimeter-Wave Research.

Circuit Standards. High Frequency Electrical Standards. Microwave Circuit Standards. Electronic Calibration Center.

