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Liquid Densities of Oxygen, Nitrogen, Argon and Parahydrogen

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Liquid Densities of Oxygen, Nitrogen, Argon and Parahydrogen (Metric Supplement)

H. M. Roder

Cryogenics Division

Institute for Basic Standards

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Boulder, Colorado 80302

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LIQUID DENSITIES OF
OXYGEN, NITROGEN, ARGON, AND PARAHYDROGEN
[Metric Supplement]

H. M. Roder

Tables of pressure, volume, density and temperature for the saturated liquid and for compressed liquid states from the triple point to the critical point, of oxygen, nitrogen, argon, and parahydrogen are presented. The table entries of temperature are in Kelvin and degrees Celsius, table entries in pressure are in bars and kp/cm^2 . Volumes or densities are given in several different units, and density ratios are tabulated for each entry. Estimates of the uncertainty for the tabulated data are given. The tables were prepared in the style and in the units preferred by the users. They are intended as source for both technician and engineer.

Key Words: Argon; compressed liquid; density; density ratios; liquid; nitrogen; oxygen; parahydrogen; pressure; saturated liquid; tables; temperature; uncertainties; volume.

1. INTRODUCTION

In this supplement standard density data for the saturated liquid and for compressed liquid states of four commercially important gases are presented in units commonly used by the European cryogenic industry. The supplement was prepared at the express request of the Industrial Gases Committee (IGC) of the Commission Permanente Internationale de l'Acétylène, de la Soudure Autogène et des Industries qui s'y Rattachent (CPI). The values presented are derived from the identical sources and computer programs which have been used earlier to prepare standard density data for users in the United States. The basic document is National Bureau of Standards (U.S.) Technical Note 361 (Revised), (Roder, et al. 1972), which was prepared to support a Code for Cryogenic Liquid-Measuring Devices. This code was presented at the 57th National Conference on Weights and Measures (U.S.), and has since been adopted by the conference.

The basic document is a logical extension of earlier efforts. The first effort was pamphlet P-6, "Standard Density Data Atmospheric Gases and Hydrogen," by the Compressed Gas Association (CGA, 1965). In this pamphlet, values of pressure, temperature, and density for the Normal Boiling Point (NBP)^{*} and Standard Temperature and Pressure (STP)^{**} were presented.

^{*} NBP: 1 atm (760 torr)

^{**} STP: 1 atm, 0°C

The second effort was NBS Technical Note 361, "Saturated Liquid Densities of Oxygen, Nitrogen, Argon, and Parahydrogen" (Roder, et al. 1968). In addition to the two state points NBP and STP, this document included the definition of the saturated liquid curve. The sources selected were the best available at that time. In particular the compilations of oxygen, argon, and parahydrogen selected, each representing at least two man years of effort, were not available to the CGA in 1965.

The basic document includes all of the data presented previously in tables and graphs. It also provides the extension to the compressed liquid states which was forecast in Technical Note 361. In addition, the source selected for oxygen is based on a large body of new and highly accurate data, only a small portion of which was available in 1968. Numerical values differ from earlier selections by no more than 0.16%. We hope that the values presented here will serve as "agreed-on" values for some time to come.

The supplement follows the basic document in outline and in structure, however, at the request of the sponsor all but two figures were omitted from the supplement. Also omitted is section 5, in which the use of tables and graphs was described. The appendix has been changed to include the additional conversion factors required for the supplement. Finally, the sponsor requested that we emphasize the number of significant digits printed in the tables (see also section 4). We print no more than 5 significant figures because the precision in even the best PVT experiments is no better than 1 part in 10000. The accuracy of the liquid densities is considerably less, on the order of 1 to 4 parts in 1000.

2. DESCRIPTION OF THE TABLES

To understand the properties that are presented in the tables and graphs, it is helpful to recall one of the "standard" phase diagrams. Try to recollect the presentation of isotherms in pressure-volume (P-V) coordinates as given in figure 1. You may recall the rectangular hyperbolas of $PV = \text{constant}$ of the ideal gas, and the critical isotherm first presented in a discussion of the Van der Waals equation of state. This report concerns the compressed liquid region and the equilibrium boundary between the single phase compressed liquid region and the two phase liquid-gas region. The compressed liquid region is shown dotted while the boundary is emphasized in figure 1. The boundary extends from the triple point to the critical point.*

* Strictly speaking, in this phase diagram the NBP and the triple point are lines extending from liquid to vapor side at the pressure indicated.

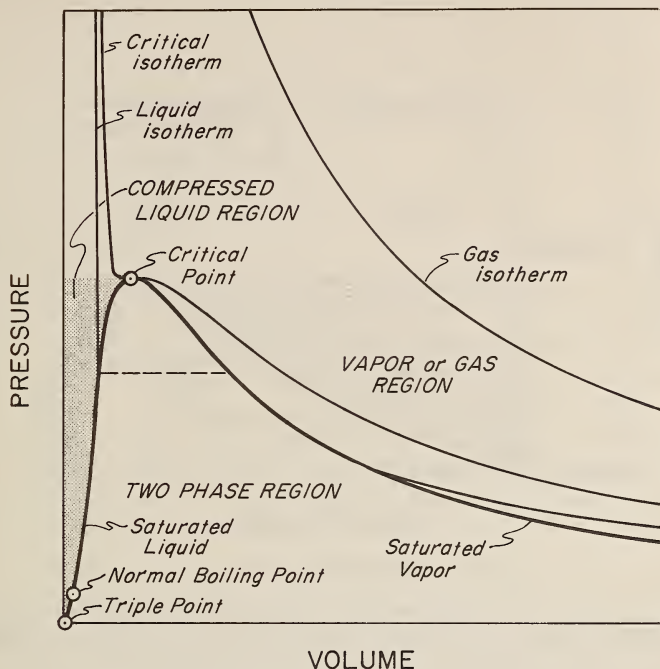


Figure 1. Generalized Phase Diagram; Pressure vs. Volume

A second way to show the region of interest is in a pressure-temperature (P-T) phase diagram. In figure 2 we recognize the vapor pressure curve, the melting line, and we recall that lines of constant volume or density are very nearly straight lines. The compressed liquid region is again shown dotted. The equilibrium boundary of concern coincides with the vapor pressure curve.

For each gas the various properties are presented in a series of tables:

- A table giving the densities near atmospheric pressure and room temperature
- A table giving uncertainties in the data
- A table giving property values for the saturated liquid
- A table giving property values for compressed liquid.

The first table for each fluid presents values of density for pressures of 1 bar (0.98692 atm) and 760 torr (1 atm) at temperatures of 0°C and 15°C. (These are the pressures and temperatures specified by the sponsor as representing the 'standards' used by

its members). Density ratios from boiling pressures of 1 bar and 760 torr to the room temperatures values are included in this table.

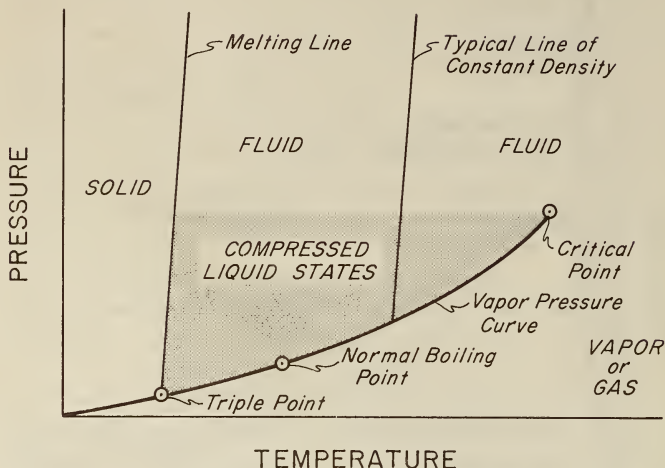


Figure 2. Generalized Phase Diagram; Pressure vs. Temperature

The second table for each fluid presents values for the uncertainties in the data. The uncertainties at low temperatures include both the error in the experimental values and the contribution to the error by using an analytical function to represent the experimental values. Errors for values near room temperature are seen to be much smaller because PVT measurements near room temperature can be made to great accuracy and a better fit to the equation of state can be made.

The third table presents values of increasing pressures and corresponding temperatures along the saturated liquid boundary. These two variables define the vapor pressure curve. The table contains in ascending order even values of pressure in both bar and kp/cm^2 * and even values of temperature in both K and $^{\circ}\text{C}$. Other columns contain entries in density, volume, and density ratios. There are two columns of density ratios. The first column is the ratio of the actual density as compared to the density at a boiling pressure of 1 bar. The second column is also a ratio of densities, namely the ratio of the actual density of the liquid as compared to the density at a boiling pressure of 760 torr. Both ratios are dimensionless. Entries in pressure are closely spaced so that interpolation between values should not be required. For parahydrogen, the increment in pressure is 0.1 bar. For the

* designates kilogram-force per cm^2 , see also appendix

other fluids the increment is 0.2 bar. The tables include entries for the Triple Point, a boiling pressure of 1 kp/cm^2 , a boiling pressure of 1 bar, and the Critical Point. These points are set off by double spacing in the table. In addition a line is included for a boiling pressure of 760 torr. Conversion of units are given in the appendix. Please note that the number of significant figures presented in the tables is not justified on the basis of accuracy, but are given to maintain internal consistency.

The fourth table presents density and density ratios for the compressed liquid states. The horizontal index of this table is pressure given for selected values in even bar. An additional line shows the equivalent pressure in kp/cm^2 . The primary vertical index is temperature given in Kelvin. Auxiliary entries give the Kelvin equivalent in degrees Celsius, and the vapor pressure corresponding to this temperature in bar. Entries in the table proper are:

- a.) a density ratio, the actual density divided by the saturation density at a boiling pressure of 1 bar. The ratio is of course dimensionless; it corresponds to the first column of ratios in the saturation table described earlier.
- b.) a second density ratio, the actual density divided by the saturation density at a boiling pressure of 760 torr. This density ratio is also dimensionless and it corresponds to the second column of ratios given in the saturation tables.
- c.) the density in kg/dm^3 (kg/litre).

3. DISCUSSION

The nature of progress in cryogenics is such that today's "best" value may be superseded tomorrow. In the initial effort, Pamphlet P-6 of the Compressed Gas Association (1965), only values for the NBP and values at NTP were presented. The next report included values for the saturated liquid boundary. The present report includes the PVT values in the compressed fluid states because we know that in many applications the fluid entering pump intakes is subcooled to prevent cavitation.

We have selected the following sources: Weber (1970) for oxygen; Strobridge (1962) for nitrogen; Gosman, et al. (1969) for argon; and Roder, et al. (1965) for parahydrogen. In addition, we use Hilsenrath, et al. (1955) to establish the NTP and STP values for parahydrogen. The sources selected differ only slightly from earlier selections. The oxygen reference in particular has become available only in recent years. The most compelling reason for selecting these compilations as sources is that we require consistent values for the saturated liquid and the compressed liquid states. In our experience the "best" set of values is obtained when in addition to PVT and vapor pressure data other experimental data such as measurements of the liquid specific heats, the heats of vaporization, or the velocity of sound in the liquid are included in the establishment of the basic PVT surface.

One advantage in selecting these sources is that industry and one major user, National Aeronautics and Space Administration (NASA) will now be using consistent data.

The data in the NASA references for oxygen and hydrogen [NBS Tech. Note 384, McCarty and Weber (1971), and NBS Tech. Note 617, McCarty and Weber (1972)] are taken from Weber (1970) and Roder, et al. (1965). One other advantage arises when we select these compilations as sources: except for hydrogen, we can get the values at or near room temperature directly from the equation of state, interpolated to the accuracy of the original data.

The last point requires a bit more discussion because it ties in with the uncertainties in the values presented at or near room temperatures. In the present report we have used a high order interpolation - the equation of state - to get these values. We are justified in using a high order interpolation because the various experimenters went to considerable lengths to get the most accurate PVT values at conditions close to room temperature. According to Cragoe (1941), relative measurements of pressure and volume near room temperature can be made to a few parts per million, and the scatter between PVT values of different observers can to a large extent be explained by the use of different fundamental constants. In tables 2, 6, 10, and 14 we indicate an uncertainty of 0.01% as the uncertainty in molar volume at room temperature. The molar volume at 0°C and 1 atmosphere is the familiar 22.4 liters per mole encountered in elementary texts. The uncertainty is based on a consideration of the ice point temperature, T_0 , rather than on a comparison of different experiments. The fundamental constant T_0 is now defined to be 273.15 K, but the average over a large number of determinations of different investigators for different gases was 273.165 (Beattie, 1941). We have taken the difference between these two numbers as an indication of the true uncertainty in the molar volumes. Even if the values of different authors are compared directly, the differences are not much larger than 0.01%. Take for example hydrogen, the molar volume is 22428.5 cm³/mole according to Woolley, et al. (1948), while it is 22433.6 cm³/mole according to Michels, et al. (1959). The difference is 0.022%. In contrast to this there is no difference between recent measurements on oxygen by Weber (1970) and those of Michels, et al. (1954) if one uses identical values for the gas constant, R , and T_0 .

Another word on the uncertainties in tables 2, 6, 10, and 14: The uncertainties are of course ultimately based upon the accuracy of the various experiments. We take them from the authors' estimates, from the statistics of the coefficients of the equation of state, and from the differences between practical temperature scales and the absolute thermodynamic one. We present uncertainties for all three variables, pressure, volume, and temperature. This allows the user to enter the tables with any combination of variables and obtain the uncertainty in the remaining one. For example, in obtaining entries for the other tables, we have assumed either temperature and density or temperature and pressure to be exact. Thus, only uncertainties in pressure in the first case and density in the second case are of concern in determining the number of digits presented in each table.

From the first effort to the present one, changes in property values have been minimal. The actual changes are best described in terms of density. The room temperature values presented in this report of oxygen and argon at 1 atmosphere differ by about 0.02% from those given by the CGA in 1965, while those for nitrogen and parahydrogen are unchanged. On the other hand, the densities of the saturated liquid at 760 torr have changed from earlier values by 0.16% for oxygen and 0.1% for nitrogen. They are virtually unchanged for argon and parahydrogen.

4. LIMITATIONS

In practice, a number of problems are encountered that introduce errors beyond what we might expect from the uncertainties inherent in the data. A few of the practical problems are indicated below.

Instrumentation. Pressure and temperature measuring devices used in custody transfer situations will rarely be capable of the best state of the art measurements, i.e., those that are possible under controlled laboratory conditions. Thus, in most cases the error in instrumentation will be much larger than the uncertainties given for the property tables.

Equilibrium vs. Non-equilibrium Properties. The informed engineer recognizes that the processes of transfer, transport, pressurizing, siphoning, and stratification in storage tanks are all non-equilibrium events. The properties presented in this report are equilibrium properties.

Subcooling. We have indicated that pump intakes, or, for that matter, flow meter intakes, are usually subcooled to prevent cavitation. It is important to recognize that the degree of subcooling, that is the pressure and temperature parameters, may change during liquid transfer.

Purity. The purity of the product will also play a role. The properties presented here are for the pure product made available under laboratory conditions. They may not be appropriate for certain purity grades of commercially available gases without some adjustment for the known impurities.

Significant Digits. The values presented in this report were obtained from various computer programs. We have in the past made these programs available to any user requesting them. However, different computers will return different results from the same programs; in particular, they will round differently. The user should be aware of the following: The accuracy of the data for liquid conditions is on the order of 0.1 to 0.3%, while the accuracy of the room temperature values is on the order of 0.01 to 0.02%. We have, therefore, printed no more than 5 digits anywhere. Please bear in mind that even the fourth digit is uncertain for most values, that is, the digits printed are only to maintain internal consistency of the tables and to allow you to check out your computer programs. If occasionally pairs of values or reciprocals do not seem to correspond, then the fault can be traced to rounding errors.

5. (OMITTED)

6. OXYGEN

The data for oxygen tabulated here are based on the paper by Weber (1970). Additional, extensive tables of values based on this source were prepared by McCarty and Weber (1971) for NASA. Values for the saturated liquid were obtained by first solving the vapor pressure equation for either pressure or temperature, and then using the resulting P and T as input to Weber's programs to obtain the corresponding liquid density. Densities for the compressed liquid were obtained from Weber's programs directly using appropriate values of P and T as input.

Values near room temperature are given in table 1, uncertainties for the data in table 2, values for the saturated liquid are given in table 3, and values for the compressed liquid are shown in table 4.

Table 1

Density of Oxygen Near Atmospheric Pressure and Room Temperature

Temperature	Pressure	Density		Volume	
		gram-mole/cm ³	kg/dm ³	cm ³ /gram-mole	dm ³ /kg
0° C	1 bar	4.4073x10 ⁻⁵	1.4103x10 ⁻³	22690.	709.08
	760 torr	4.4658x10 ⁻⁵	1.4290x10 ⁻³	22392.	699.79
15° C	1 bar	4.1770x10 ⁻⁵	1.3366x10 ⁻³	23940.	748.17
	760 torr	4.2324x10 ⁻⁵	1.3543x10 ⁻³	23627.	738.37
Density Ratios - Dimensionless					
Liquid Density at a boiling pressure of 1 bar [*] /density at 1 bar and 0° C					809.50
Liquid Density at a boiling pressure of 1 bar/density at 1 bar and 15° C					854.13
Liquid Density at a boiling pressure of 760 torr [†] /density at 760 torr and 0° C					798.47
Liquid Density at a boiling pressure of 760 torr/density at 760 torr and 15° C					842.49

* Liquid density at a boiling pressure of 1 bar 1.1416 kg/dm³

† Liquid density at a boiling pressure of 760 torr 1.1410 kg/dm³

Densities at the boiling point at 760 torr differ by 0.05% from CGA pamphlet P-6, and by 0.03% from the value given in the earlier version of Technical Note 361. The densities for the saturated liquid differ by a maximum of 0.16% from the earlier values at temperatures up to 150 K, that is, the new values are within the uncertainties previously specified. Above 150 K to the critical point the departures rise to several percent because better values for both critical density and critical temperature are now available. The present values are considered to be better because in addition to PVT data, experimental specific heats and dielectric constant measurements near the critical point were used to establish the PVT surface.

Table 2
Uncertainties in the Data for Oxygen

variable	uncertainty	range of temperature
temperature	0.05 K	below 90 K
	0.02%	between 90 and 154 K
	0.1%	near critical
	0.015 K	room temperature
volume	0.1%	between 54.353 and 60 K
	0.2%	between 65 and 150 K
	larger than 0.5%	between 150 K and critical
	0.01%	room temperature
pressure	0.1%	below 90 K
	0.02%	between 90 and 154 K
	0.1%	near critical
	0.01%	room temperature

Routine checks of values in the present tables against those of Technical Note 361 (Revised) revealed a discrepancy in table 4 of the basic document. Entries 2. and 3. of table 4 of the basic document are too small by a factor of 1.0003. An Erratum for the basic document has been prepared.

TABLE 3

SATURATED LIQUID OXYGEN

PRESSURE		TEMPERATURE		DENSITY	VOLUME		DENSITY RATIOS -		DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR
BAR	KP/CM ²	KELVIN	CELSIUS	GRAM-MOLE/ CM ³	KG/ DM ³	CM ³ / GRAM-MOLE	DM ³ / KG	LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 1 BAR	
0.00152	0.00155	54.351	-218.799	0.040832	1.3066	24.490	0.7654	1.1445	1.1451
0.00730	0.00744	60.000	-213.150	0.040054	1.2817	24.967	0.7802	1.1227	1.1233
0.00758	0.00773	60.150	-213.000	0.040033	1.2810	24.980	0.7806	1.1221	1.1227
0.00935	0.00953	61.000	-212.150	0.039915	1.2772	25.053	0.7829	1.1188	1.1194
0.00969	0.00988	61.150	-212.000	0.039894	1.2766	25.066	0.7834	1.1182	1.1188
0.0119	0.0121	62.000	-211.150	0.039776	1.2728	25.141	0.7857	1.1149	1.1155
0.0123	0.0125	62.150	-211.000	0.039755	1.2721	25.154	0.7861	1.1143	1.1149
0.0150	0.0153	63.000	-210.150	0.039636	1.2683	25.230	0.7885	1.1110	1.1116
0.0155	0.0158	63.150	-210.000	0.039615	1.2676	25.243	0.7889	1.1104	1.1110
0.0187	0.0191	64.000	-209.150	0.039496	1.2638	25.319	0.7912	1.1070	1.1076
0.0193	0.0197	64.150	-209.000	0.039475	1.2632	25.332	0.7917	1.1065	1.1071
0.0232	0.0237	65.000	-208.150	0.039356	1.2593	25.409	0.7941	1.1031	1.1037
0.0240	0.0245	65.150	-208.000	0.039335	1.2587	25.423	0.7945	1.1025	1.1031
0.0287	0.0292	66.000	-207.150	0.039215	1.2548	25.500	0.7969	1.0992	1.0998
0.0296	0.0302	66.150	-207.000	0.039194	1.2542	25.514	0.7973	1.0986	1.0992
0.0351	0.0358	67.000	-206.150	0.039074	1.2503	25.592	0.7998	1.0952	1.0958
0.0362	0.0369	67.150	-206.000	0.039053	1.2497	25.606	0.8002	1.0946	1.0952
0.0428	0.0436	68.000	-205.150	0.038933	1.2458	25.685	0.8027	1.0913	1.0918
0.0440	0.0449	68.150	-205.000	0.038912	1.2451	25.699	0.8031	1.0907	1.0913
0.0518	0.0528	69.000	-204.150	0.038791	1.2413	25.779	0.8056	1.0873	1.0879
0.0532	0.0543	69.150	-204.000	0.038770	1.2406	25.793	0.8061	1.0867	1.0873
0.0623	0.0635	70.000	-203.150	0.038649	1.2367	25.874	0.8086	1.0833	1.0839
0.0640	0.0652	70.150	-203.000	0.038627	1.2360	25.888	0.8090	1.0827	1.0833
0.0745	0.0760	71.000	-202.150	0.038506	1.2321	25.970	0.8116	1.0793	1.0799
0.0765	0.0780	71.150	-202.000	0.038484	1.2315	25.984	0.8120	1.0787	1.0793
0.0866	0.0886	72.000	-201.150	0.038363	1.2276	26.067	0.8146	1.0753	1.0759
0.0909	0.0927	72.150	-201.000	0.038341	1.2269	26.082	0.8151	1.0747	1.0753
0.105	0.107	73.000	-200.150	0.038219	1.2230	26.165	0.8177	1.0712	1.0718
0.108	0.110	73.150	-200.000	0.038197	1.2223	26.180	0.8181	1.0706	1.0712
0.124	0.126	74.000	-199.150	0.038075	1.2184	26.264	0.8208	1.0672	1.0678
0.127	0.129	74.150	-199.000	0.038053	1.2177	26.279	0.8212	1.0666	1.0672
0.145	0.148	75.000	-198.150	0.037930	1.2137	26.364	0.8239	1.0631	1.0637
0.148	0.151	75.150	-198.000	0.037908	1.2130	26.379	0.8244	1.0625	1.0631
0.169	0.172	76.000	-197.150	0.037785	1.2091	26.466	0.8271	1.0591	1.0597
0.173	0.176	76.150	-197.000	0.037763	1.2084	26.481	0.8276	1.0585	1.0591
0.195	0.200	77.000	-196.150	0.037639	1.2044	26.568	0.8303	1.0550	1.0556
0.200	0.204	77.150	-196.000	0.037621	1.2038	26.581	0.8307	1.0545	1.0551
0.201	0.205	77.150	-196.000	0.037617	1.2037	26.584	0.8308	1.0544	1.0550
0.227	0.232	78.000	-195.150	0.037493	1.1997	26.672	0.8335	1.0509	1.0515
0.232	0.237	78.150	-195.000	0.037471	1.1990	26.687	0.8340	1.0503	1.0508
0.262	0.267	79.000	-194.150	0.037346	1.1950	26.777	0.8368	1.0467	1.0473
0.267	0.273	79.150	-194.000	0.037324	1.1943	26.792	0.8373	1.0462	1.0467
0.301	0.307	80.000	-193.150	0.037199	1.1903	26.883	0.8401	1.0426	1.0432
0.307	0.313	80.150	-193.000	0.037176	1.1896	26.899	0.8406	1.0420	1.0426

TABLE 3 CONTINUED

SATURATED LIQUID OXYGEN

PRESSURE		TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	VOLUME		DENSITY RATIOS -		LIQUID DENSITY/ PRESS. OF 1 BAR	LIQUID DENSITY/ PRESS. OF 760 TORR
BAR	KP/CM ²	KELVIN	CEL SIUS		CM ³ / GRAM-MOLE	DM ³ / KG	DENSITY AT A BOIL. PRESS. OF 1 BAR	DENSITY AT A BOIL. PRESS. OF 760 TORR		
0.344	0.351	81.000	-192.150	0.037050	1.1856	26.980	0.8435	1.0385	1.0391	
0.351	0.358	81.150	-192.000	0.037028	1.1849	27.007	0.8440	1.0379	1.0384	
0.358	0.365	81.300	-191.850	0.036902	1.1808	27.099	0.8469	1.0343	1.0349	
0.365	0.372	81.450	-191.700	0.036879	1.1801	27.116	0.8474	1.0337	1.0343	
0.372	0.379	81.600	-191.550	0.036879	1.1801	27.116	0.8474	1.0337	1.0343	
0.379	0.386	81.750	-191.400	0.036879	1.1801	27.116	0.8474	1.0337	1.0343	
0.386	0.393	81.900	-191.250	0.036752	1.1760	27.209	0.8503	1.0301	1.0307	
0.393	0.400	82.050	-191.100	0.036730	1.1753	27.226	0.8508	1.0295	1.0301	
0.400	0.407	82.200	-190.950	0.036660	1.1712	27.321	0.8538	1.0259	1.0265	
0.407	0.414	82.350	-190.800	0.036602	1.1712	27.321	0.8538	1.0259	1.0265	
0.414	0.421	82.500	-190.650	0.036580	1.1705	27.338	0.8543	1.0253	1.0259	
0.421	0.428	82.650	-190.500	0.036580	1.1705	27.338	0.8543	1.0253	1.0259	
0.428	0.435	82.800	-190.350	0.036541	1.1664	27.434	0.8573	1.0217	1.0223	
0.435	0.442	82.950	-190.200	0.036429	1.1642	27.451	0.8579	1.0211	1.0216	
0.442	0.449	83.100	-190.050	0.036382	1.1642	27.451	0.8579	1.0211	1.0216	
0.449	0.456	83.250	-189.900	0.036330	1.1615	27.548	0.8609	1.0197	1.0203	
0.456	0.463	83.400	-189.750	0.036302	1.1615	27.548	0.8609	1.0197	1.0203	
0.463	0.470	83.550	-189.600	0.036277	1.1608	27.566	0.8615	1.0174	1.0180	
0.470	0.477	83.700	-189.450	0.036147	1.1567	27.664	0.8645	1.0132	1.0137	
0.477	0.484	83.850	-189.300	0.036125	1.1559	27.682	0.8651	1.0125	1.0131	
0.484	0.491	84.000	-189.150	0.035957	1.1519	27.780	0.8682	1.0095	1.0095	
0.491	0.498	84.150	-189.000	0.035957	1.1519	27.780	0.8682	1.0095	1.0095	
0.498	0.505	84.300	-188.850	0.035971	1.1510	27.800	0.8688	1.0082	1.0088	
0.505	0.512	84.450	-188.700	0.035840	1.1469	27.901	0.8720	1.0046	1.0051	
0.512	0.519	84.600	-188.550	0.035817	1.1461	27.919	0.8725	1.0039	1.0045	
0.519	0.526	84.750	-188.400	0.035706	1.1425	28.006	0.8752	1.0008	1.0014	
0.526	0.533	84.900	-188.250	0.035686	1.1419	28.022	0.8757	1.0002	1.0008	
0.533	0.540	85.050	-188.100	0.035677	1.1416	28.029	0.8759	1.0000	1.0005	
0.540	0.547	85.200	-187.950	0.035662	1.1412	28.041	0.8763	0.9996	1.0001	
0.547	0.554	85.350	-187.800	0.035662	1.1410	28.044	0.8764	0.9995	1.0000	
0.554	0.561	85.500	-187.650	0.035530	1.1369	28.145	0.8796	0.9958	0.9964	
0.561	0.568	85.650	-187.500	0.035507	1.1362	28.164	0.8801	0.9952	0.9958	
0.568	0.575	85.800	-187.350	0.035401	1.1328	28.268	0.8828	0.9922	0.9928	
0.575	0.582	85.950	-187.200	0.035374	1.1319	28.270	0.8835	0.9915	0.9920	
0.582	0.589	86.100	-187.050	0.035350	1.1312	28.270	0.8840	0.9908	0.9914	
0.589	0.596	86.250	-186.900	0.035216	1.1269	28.356	0.8874	0.9871	0.9876	
0.596	0.603	86.400	-186.750	0.035216	1.1261	28.361	0.8880	0.9864	0.9870	
0.603	0.610	86.550	-186.600	0.035155	1.1249	28.445	0.8890	0.9854	0.9860	
0.610	0.617	86.700	-186.450	0.035058	1.1210	28.544	0.8914	0.9826	0.9832	
0.617	0.624	86.850	-186.300	0.035034	1.1210	28.544	0.8914	0.9826	0.9832	
0.624	0.631	87.000	-186.150	0.034933	1.1178	28.626	0.8946	0.9791	0.9797	
0.631	0.638	87.150	-186.000	0.034933	1.1178	28.626	0.8946	0.9791	0.9797	
0.638	0.645	87.300	-185.850	0.034838	1.1159	28.674	0.8961	0.9775	0.9781	
0.645	0.652	87.450	-185.700	0.034838	1.1159	28.674	0.8961	0.9775	0.9781	
0.652	0.659	87.600	-185.550	0.034738	1.1116	28.787	0.8956	0.9737	0.9742	
0.659	0.666	87.750	-185.400	0.034738	1.1116	28.787	0.8956	0.9737	0.9742	
0.666	0.673	87.900	-185.250	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.673	0.680	88.050	-185.100	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.680	0.687	88.200	-184.950	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.687	0.694	88.350	-184.800	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.694	0.701	88.500	-184.650	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.701	0.708	88.650	-184.500	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.708	0.715	88.800	-184.350	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.715	0.722	88.950	-184.200	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.722	0.729	89.100	-184.050	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.729	0.736	89.250	-183.900	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.736	0.743	89.400	-183.750	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.743	0.750	89.550	-183.600	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.750	0.757	89.700	-183.450	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.757	0.764	89.850	-183.300	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.764	0.771	89.950	-183.200	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.771	0.778	90.050	-183.100	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.778	0.785	90.150	-183.000	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.785	0.792	90.250	-182.900	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.792	0.799	90.350	-182.800	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.799	0.806	90.450	-182.700	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.806	0.813	90.550	-182.600	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.813	0.820	90.650	-182.500	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.820	0.827	90.750	-182.400	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.827	0.834	90.850	-182.300	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.834	0.841	90.950	-182.200	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.841	0.848	91.050	-182.100	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.848	0.855	91.150	-182.000	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.855	0.862	91.250	-181.900	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.862	0.869	91.350	-181.800	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.869	0.876	91.450	-181.700	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.876	0.883	91.550	-181.600	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.883	0.890	91.650	-181.500	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.890	0.897	91.750	-181.400	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.897	0.904	91.850	-181.300	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.904	0.911	91.950	-181.200	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.911	0.918	92.050	-181.100	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.918	0.925	92.150	-181.000	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.925	0.932	92.250	-180.900	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.932	0.939	92.350	-180.800	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.939	0.946	92.450	-180.700	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.946	0.953	92.550	-180.600	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.953	0.960	92.650	-180.500	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.960	0.967	92.750	-180.400	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.967	0.974	92.850	-180.300	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.974	0.981	92.950	-180.200	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.981	0.988	93.050	-180.100	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	
0.988	0.995	93.150	-180.000	0.034729	1.1113	28.794	0.8959	0.9734	0.9740	

TABLE 3 CONTINUED

SATURATED LIQUID OXYGEN

PRESSURE		TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	VOLUME		LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR	DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR
BAR	KP/CM ²	KELVIN	CELSIUS		CM ³ / GRAM-MOLE	DM ³ / KG		
1.816	1.851	96.150	-177.000	0.034714	1.1108	28.807	0.9730	0.9735
1.961	1.999	97.000	-176.150	0.034576	1.1064	28.921	0.9691	0.9697
1.961	2.000	97.004	-176.146	0.034576	1.1064	28.922	0.9691	0.9697
1.987	2.026	97.150	-176.000	0.034552	1.1056	28.942	0.9685	0.9690
2.000	2.039	97.223	-175.927	0.034540	1.1052	28.952	0.9681	0.9687
2.112	2.184	98.000	-175.150	0.034414	1.1042	29.058	0.9646	0.9651
2.170	2.213	98.150	-175.000	0.034389	1.1004	29.079	0.9639	0.9644
2.200	2.243	98.306	-174.844	0.034364	1.0996	29.100	0.9632	0.9637
2.336	2.382	99.000	-174.150	0.034225	1.0960	29.197	0.9600	0.9605
2.366	2.413	99.150	-174.000	0.034225	1.0952	29.218	0.9593	0.9598
2.400	2.447	99.317	-173.833	0.034198	1.0943	29.242	0.9585	0.9591
2.502	2.593	100.000	-173.150	0.034085	1.0907	29.338	0.9554	0.9559
2.575	2.625	100.150	-173.000	0.034060	1.0899	29.360	0.9547	0.9552
2.600	2.651	100.267	-172.893	0.034041	1.0893	29.377	0.9541	0.9546
2.733	2.817	101.000	-172.150	0.033919	1.0854	29.482	0.9507	0.9512
2.757	2.852	101.150	-172.000	0.033894	1.0846	29.504	0.9500	0.9505
2.800	2.885	101.164	-171.986	0.033891	1.0845	29.506	0.9499	0.9500
2.902	3.070	101.772	-171.378	0.033785	1.0812	29.595	0.9471	0.9476
2.937	3.086	102.104	-171.050	0.033765	1.0800	29.629	0.9460	0.9465
3.000	3.133	102.150	-171.125	0.033729	1.0799	29.651	0.9459	0.9465
3.053	3.183	102.823	-170.727	0.033643	1.0792	29.651	0.9453	0.9458
3.200	3.309	103.000	-170.000	0.033585	1.0766	29.771	0.9421	0.9426
3.253	3.349	103.150	-170.150	0.033581	1.0748	29.800	0.9413	0.9419
3.400	3.477	104.000	-169.150	0.033442	1.0714	29.899	0.9384	0.9390
3.506	3.578	104.150	-169.000	0.033412	1.0691	29.925	0.9385	0.9390
3.549	3.619	104.130	-169.000	0.033369	1.0683	29.952	0.9380	0.9385
3.600	3.671	104.335	-168.835	0.033355	1.0673	29.981	0.9375	0.9380
3.707	3.852	105.000	-168.150	0.033240	1.0637	30.084	0.9402	0.9407
3.800	3.975	105.144	-168.106	0.033233	1.0634	30.091	0.9404	0.9409
3.830	3.975	105.150	-168.100	0.033214	1.0628	30.107	0.9409	0.9414
3.923	4.000	105.456	-167.684	0.033160	1.0611	30.157	0.9424	0.9429
4.000	4.079	105.727	-167.425	0.033115	1.0596	30.158	0.9437	0.9442
4.082	4.163	106.000	-167.150	0.033067	1.0581	30.242	0.9451	0.9456
4.128	4.209	106.150	-167.000	0.033041	1.0573	30.265	0.9456	0.9461
4.200	4.283	106.384	-166.766	0.033000	1.0560	30.303	0.9470	0.9475
4.394	4.480	107.000	-166.150	0.032892	1.0525	30.402	0.9501	0.9506
4.400	4.487	107.019	-166.131	0.032889	1.0524	30.405	0.9502	0.9507
4.500	4.530	107.150	-166.000	0.032866	1.0517	30.427	0.9509	0.9514
4.600	4.651	107.633	-165.517	0.032781	1.0489	30.506	0.9533	0.9538
4.723	4.816	108.000	-165.150	0.032716	1.0469	30.566	0.9552	0.9557
4.773	4.868	108.150	-165.000	0.032689	1.0460	30.591	0.9560	0.9565
4.800	4.895	108.228	-164.922	0.032675	1.0456	30.604	0.9564	0.9569
4.903	5.000	108.528	-164.622	0.032622	1.0439	30.654	0.9580	0.9585
5.000	5.059	108.805	-164.345	0.032573	1.0423	30.701	0.9594	0.9599

TABLE 3 CONTINUED

SATURATED LIQUID OXYGEN

PRESSURE		TEMPERATURE		DENSITY	VOLUME		DENSITY RATIOS -	
BAR	KP/CM ²	KELVIN	CELSIUS	GRAM-MOLE/ CM ³	DM ³ / KG	CM ³ / GRAM-MOLE	DENSITY AT A BOIL PRESS. OF 1 BAR	LIQUID DENSITY/ DENSITY AT A BOIL PRESS. OF 760 TORR
5.069	5.159	109.000	-164.150	0.032538	1.0412	30.734	0.9605	0.9120
5.123	5.204	109.150	-164.000	0.032511	1.0403	30.759	0.9613	0.9112
5.200	5.303	109.365	-163.785	0.032472	1.0391	30.796	0.9624	0.9102
5.400	5.506	109.909	-163.241	0.032374	1.0359	30.889	0.9653	0.9074
5.434	5.541	110.000	-163.150	0.032358	1.0354	30.905	0.9658	0.9070
5.490	5.599	110.150	-163.000	0.032330	1.0345	30.931	0.9666	0.9062
5.600	5.710	110.439	-162.711	0.032278	1.0329	30.981	0.9682	0.9047
5.818	5.912	111.000	-162.150	0.032184	1.0298	31.071	0.9710	0.9021
5.877	5.963	111.000	-162.150	0.032176	1.0296	31.071	0.9713	0.9026
5.884	5.973	111.150	-162.000	0.032148	1.0287	31.106	0.9721	0.9016
6.000	6.118	111.459	-161.982	0.032145	1.0286	31.109	0.9722	0.9015
6.221	6.342	112.000	-161.600	0.032092	1.0269	31.149	0.9738	0.8995
6.283	6.407	112.000	-161.600	0.032001	1.0240	31.124	0.9766	0.8970
6.400	6.526	112.150	-161.450	0.031992	1.0238	31.128	0.9768	0.8967
6.400	6.526	112.150	-161.450	0.031964	1.0228	31.128	0.9777	0.8959
6.600	6.730	112.899	-160.720	0.031912	1.0212	31.133	0.9793	0.8945
6.644	6.775	113.000	-160.600	0.031825	1.0184	31.142	0.9820	0.8920
6.709	6.841	113.150	-160.450	0.031806	1.0178	31.144	0.9826	0.8915
6.800	6.934	113.357	-159.793	0.031778	1.0169	31.157	0.9846	0.8907
6.865	7.000	113.504	-159.646	0.031739	1.0156	31.157	0.9846	0.8896
7.000	7.138	113.806	-159.344	0.031712	1.0147	31.153	0.9855	0.8888
7.088	7.227	114.000	-159.150	0.031655	1.0129	31.159	0.9873	0.8877
7.156	7.297	114.150	-159.000	0.031618	1.0117	31.162	0.9884	0.8862
7.200	7.342	114.246	-158.904	0.031590	1.0108	31.166	0.9893	0.8854
7.400	7.546	114.677	-158.473	0.031571	1.0102	31.167	0.9899	0.8849
7.552	7.701	115.000	-158.150	0.031489	1.0076	31.175	0.9924	0.8826
7.600	7.750	115.100	-158.050	0.031428	1.0056	31.189	0.9944	0.8809
7.624	7.774	115.150	-158.000	0.031409	1.0050	31.188	0.9950	0.8804
7.800	7.954	115.514	-157.636	0.031399	1.0047	31.184	0.9953	0.8801
7.845	8.000	115.607	-157.543	0.031329	1.0025	31.198	0.9975	0.8781
8.000	8.158	115.921	-157.229	0.031311	1.0019	31.198	0.9981	0.8776
8.039	8.198	116.000	-157.150	0.031250	1.0000	32.000	1.0000	0.8759
8.114	8.274	116.150	-157.000	0.031235	0.9995	32.015	1.0005	0.8755
8.200	8.362	116.321	-156.829	0.031206	0.9986	32.045	1.0014	0.8747
8.400	8.566	116.714	-156.436	0.031173	0.9975	32.079	1.0025	0.8737
8.548	8.717	117.000	-156.150	0.031040	0.9952	32.118	1.0050	0.8716
8.600	8.770	117.000	-156.150	0.031020	0.9932	32.217	1.0068	0.8705
8.626	8.797	117.150	-156.051	0.031010	0.9923	32.237	1.0074	0.8695
8.800	8.974	117.479	-155.671	0.030946	0.9902	32.345	1.0078	0.8682
8.826	9.000	117.528	-155.622	0.030936	0.9899	32.345	1.0099	0.8674
9.000	9.177	117.852	-155.298	0.030872	0.9879	32.392	1.0123	0.8663
9.080	9.259	118.000	-155.150	0.030842	0.9869	32.423	1.0133	0.8653
9.162	9.343	118.150	-155.000	0.030812	0.9860	32.455	1.0142	0.8643
9.200	9.381	118.219	-154.931	0.030798	0.9855	32.469	1.0147	0.8637

TABLE 3 CONTINUED

SATURATED LIQUID OXYGEN

BAR	PRESSURE KP/CM ²	TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	KG/ DM ³	VOLUME		DENSITY RATIOS -	
		CELSIUS	KELVIN			CM ³ / GRAM-MOLE	DM ³ / KG	LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 1 BAR	DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR
9.400	9.565	-154.569	118.581	0.030726	0.9832	32.546	1.0171	0.8612	0.8617
9.600	9.789	-154.213	118.337	0.030654	0.9809	32.622	1.0195	0.8597	0.8597
9.800	9.826	-154.150	118.000	0.030642	0.9805	32.635	1.0199	0.8589	0.8589
9.721	9.813	-154.150	118.000	0.030641	0.9795	32.667	1.0209	0.8585	0.8585
9.800	9.993	-153.888	117.888	0.030584	0.9786	32.697	1.0218	0.8577	0.8577
9.807	10.000	-153.899	117.899	0.030581	0.9786	32.700	1.0219	0.8572	0.8572
10.000	10.197	-153.633	117.633	0.030513	0.9764	32.773	1.0242	0.8553	0.8553
10.200	10.401	-153.374	117.374	0.030444	0.9742	32.847	1.0265	0.8538	0.8538
10.215	10.417	-153.350	117.350	0.030438	0.9740	32.853	1.0267	0.8536	0.8536
10.304	10.508	-153.000	117.000	0.030408	0.9730	32.886	1.0277	0.8528	0.8528
10.400	10.605	-152.400	116.400	0.030375	0.9720	32.922	1.0289	0.8514	0.8514
10.600	10.809	-152.641	116.641	0.030307	0.9698	32.996	1.0312	0.8499	0.8499
10.787	11.000	-152.947	116.947	0.030243	0.9677	33.065	1.0335	0.8481	0.8481
10.800	11.013	-152.968	116.968	0.030239	0.9676	33.070	1.0335	0.8477	0.8477
10.820	11.033	-152.980	116.980	0.030232	0.9674	33.077	1.0337	0.8474	0.8474
10.913	11.128	-152.150	116.150	0.030201	0.9654	33.112	1.0348	0.8465	0.8465
11.000	11.217	-151.800	115.800	0.030172	0.9655	33.144	1.0358	0.8457	0.8457
11.200	11.421	-151.542	115.542	0.030105	0.9633	33.217	1.0381	0.8438	0.8438
11.400	11.625	-151.227	115.227	0.030023	0.9612	33.290	1.0404	0.8420	0.8420
11.450	11.675	-151.150	115.150	0.030023	0.9607	33.308	1.0409	0.8415	0.8415
11.506	11.774	-151.000	115.000	0.029993	0.9597	33.344	1.0426	0.8406	0.8406
11.600	11.829	-150.733	114.733	0.029973	0.9591	33.363	1.0445	0.8386	0.8386
11.768	12.000	-150.600	114.600	0.029919	0.9574	33.424	1.0465	0.8380	0.8380
11.800	12.013	-150.611	114.611	0.029908	0.9570	33.436	1.0469	0.8383	0.8383
12.000	12.237	-150.362	114.362	0.029844	0.9550	33.509	1.0472	0.8365	0.8365
12.006	12.244	-150.350	114.350	0.029810	0.9539	33.546	1.0484	0.8355	0.8355
12.106	12.441	-150.141	114.141	0.029779	0.9523	33.580	1.0494	0.8347	0.8347
12.200	12.441	-150.141	114.141	0.029779	0.9523	33.580	1.0495	0.8346	0.8346
12.206	12.447	-150.130	114.130	0.029776	0.9520	33.582	1.0495	0.8345	0.8345
12.400	12.644	-149.726	113.726	0.029716	0.9508	33.722	1.0517	0.8329	0.8329
12.600	12.848	-149.328	113.328	0.029652	0.9493	33.774	1.0539	0.8314	0.8314
12.749	13.000	-149.343	113.343	0.029603	0.9473	33.790	1.0536	0.8303	0.8303
12.768	13.040	-149.350	113.350	0.029593	0.9469	33.792	1.0536	0.8303	0.8303
12.800	13.052	-149.360	113.360	0.029589	0.9460	33.796	1.0536	0.8303	0.8303
12.893	13.347	-149.000	113.000	0.029520	0.9438	33.869	1.0572	0.8286	0.8286
13.000	13.456	-148.847	112.847	0.029520	0.9438	33.869	1.0572	0.8286	0.8286
13.200	13.660	-148.585	112.585	0.029465	0.9420	33.935	1.0584	0.8274	0.8274
13.400	13.864	-148.266	112.266	0.029403	0.9409	34.010	1.0606	0.8259	0.8259
13.498	13.864	-148.266	112.266	0.029393	0.9399	34.010	1.0606	0.8259	0.8259
13.600	13.875	-148.250	112.250	0.029384	0.9389	34.045	1.0640	0.8233	0.8233
13.700	13.875	-148.250	112.250	0.029339	0.9380	34.082	1.0651	0.8224	0.8224
13.729	14.000	-147.932	111.932	0.029302	0.9366	34.084	1.0652	0.8224	0.8224
13.800	14.072	-147.736	111.736	0.029280	0.9359	34.153	1.0673	0.8207	0.8207
14.000	14.276	-147.465	111.465	0.029220	0.9350	34.224	1.0695	0.8190	0.8190
14.200	14.480	-147.197	111.197	0.029159	0.9331	34.295	1.0717	0.8177	0.8177
14.236	14.516	-147.150	111.150	0.029148	0.9327	34.307	1.0721	0.8170	0.8170

TABLE 3 CONTINUED

SATURATED LIQUID OXYGEN

BAR	PRESSURE MP/CM ²	TEMPERATURE		GRAH-MOLE/ CM ³	DENSITY KG/ DM ³	CH ₃ ² GRAM-MOLE	VOLUME DM ³ / KG	DENSITY RATIOS -	
		KELVIN	CELSIUS					LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 1 BAR	DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR
14.349	14.632	126.150	-147.000	0.023114	0.9316	34.347	1.0734	0.8160	0.8165
14.400	14.684	126.218	-146.932	0.023059	0.9311	34.366	1.0740	0.8156	0.8161
14.600	14.888	126.440	-146.670	0.023039	0.9292	34.436	1.0762	0.8139	0.8144
14.710	15.000	126.624	-146.526	0.023006	0.9282	34.475	1.0774	0.8130	0.8135
14.800	15.092	126.740	-146.410	0.022980	0.9273	34.507	1.0784	0.8123	0.8127
15.000	15.296	126.998	-146.152	0.022920	0.9254	34.578	1.0806	0.8106	0.8111
15.002	15.298	127.000	-146.150	0.022920	0.9254	34.578	1.0806	0.8106	0.8110
15.119	15.417	127.150	-145.900	0.022885	0.9235	34.620	1.0819	0.8096	0.8101
15.200	15.500	127.253	-145.897	0.022861	0.9235	34.649	1.0828	0.8090	0.8094
15.400	15.704	127.505	-145.645	0.022802	0.9218	34.719	1.0850	0.8073	0.8077
15.600	15.908	127.756	-145.394	0.022744	0.9198	34.790	1.0872	0.8057	0.8061
15.691	16.000	127.868	-145.282	0.022718	0.9189	34.822	1.0884	0.8049	0.8054
15.797	16.109	128.000	-145.150	0.022687	0.9179	34.860	1.0894	0.8041	0.8045
15.800	16.112	128.004	-145.146	0.022690	0.9181	34.855	1.0893	0.8042	0.8046
15.919	16.233	128.150	-144.900	0.022656	0.9170	34.897	1.0906	0.8032	0.8036
16.000	16.315	128.249	-144.801	0.022633	0.9162	34.925	1.0915	0.8025	0.8030
16.200	16.519	128.493	-144.657	0.022575	0.9144	34.996	1.0937	0.8009	0.8014
16.400	16.723	128.734	-144.416	0.022518	0.9125	35.066	1.0959	0.7993	0.7998
16.600	16.927	128.973	-144.177	0.022461	0.9107	35.136	1.0981	0.7977	0.7982
16.622	16.950	129.000	-144.150	0.022454	0.9105	35.144	1.0983	0.7975	0.7980
16.671	17.000	129.058	-144.092	0.022440	0.9101	35.161	1.0988	0.7972	0.7976
16.749	17.079	129.150	-144.000	0.022418	0.9093	35.189	1.0997	0.7965	0.7970
16.800	17.131	129.211	-143.939	0.022404	0.9089	35.207	1.0003	0.7961	0.7966
17.000	17.335	129.446	-143.704	0.022347	0.9071	35.277	1.0025	0.7945	0.7950
17.200	17.539	129.679	-143.471	0.022290	0.9053	35.344	1.0047	0.7930	0.7934
17.400	17.743	129.910	-143.240	0.022234	0.9035	35.418	1.0069	0.7914	0.7918
17.478	17.823	130.000	-143.150	0.022212	0.9028	35.446	1.0077	0.7908	0.7912
17.600	17.947	130.140	-143.000	0.022178	0.9017	35.489	1.0091	0.7898	0.7902
17.609	17.956	130.150	-143.000	0.022178	0.9016	35.492	1.0092	0.7897	0.7902
17.652	18.010	130.199	-142.951	0.022163	0.9012	35.507	1.0096	0.7894	0.7898
17.800	18.151	130.367	-142.793	0.022122	0.8999	35.560	1.1113	0.7882	0.7887
18.000	18.355	130.593	-142.557	0.022066	0.8981	35.630	1.1135	0.7867	0.7871
18.000	18.359	130.617	-142.533	0.022010	0.8963	35.701	1.1157	0.7851	0.7855
18.365	18.623	131.000	-142.150	0.021964	0.8945	35.760	1.1175	0.7838	0.7842
18.400	18.763	131.039	-142.111	0.021955	0.8945	35.772	1.1179	0.7835	0.7840
18.501	18.865	131.150	-142.000	0.021927	0.8936	35.808	1.1190	0.7828	0.7832
18.600	18.967	131.259	-141.891	0.021899	0.8927	35.843	1.1201	0.7820	0.7824
18.633	19.000	131.295	-141.855	0.021890	0.8925	35.855	1.1205	0.7822	0.7826
18.800	19.171	131.478	-141.672	0.021844	0.8910	35.914	1.1224	0.7804	0.7809
19.000	19.375	131.695	-141.455	0.021789	0.8892	36.057	1.1246	0.7789	0.7793
19.200	19.579	131.911	-141.239	0.021734	0.8874	36.087	1.1268	0.7774	0.7778
19.283	19.664	132.000	-141.150	0.021711	0.8867	36.129	1.1291	0.7758	0.7762
19.400	19.782	132.144	-140.926	0.021679	0.8857	36.129	1.1291	0.7758	0.7762
19.424	19.807	132.160	-140.900	0.021672	0.8855	36.129	1.1293	0.7756	0.7761
19.600	19.986	132.337	-140.813	0.021624	0.8839	36.200	1.1313	0.7743	0.7747

TABLE 3 CONTINUED

SATURATED LIQUID OXYGEN

BAR	PRESSURE KP/CM ²	TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	KG/ DM ³	VOLUME		LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR	DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR
		KELVIN	CEL SIUS			CM ³ / GRAM-MOLE	DM ³ / KG		
19.613	20.190	132.351	-140.799	0.027620	0.8838	36.285	1.1315	0.7742	0.7746
19.800	20.190	132.547	-140.603	0.027569	0.8832	36.272	1.1335	0.7727	0.7732
20.000	20.394	132.756	-140.394	0.027515	0.8804	36.344	1.1358	0.7712	0.7716
20.200	20.598	132.964	-140.186	0.027460	0.8787	36.416	1.1380	0.7697	0.7701
20.235	20.634	133.000	-140.150	0.027451	0.8784	36.429	1.1384	0.7694	0.7698
20.280	20.782	133.150	-140.000	0.027411	0.8771	36.481	1.1401	0.7687	0.7683
20.400	20.802	133.170	-139.980	0.027406	0.8770	36.488	1.1403	0.7682	0.7686
20.594	21.000	133.369	-139.781	0.027353	0.8752	36.558	1.1425	0.7667	0.7671
20.600	21.006	133.375	-139.775	0.027352	0.8752	36.563	1.1426	0.7667	0.7671
20.800	21.210	133.578	-139.572	0.027308	0.8735	36.633	1.1448	0.7651	0.7655
21.000	21.414	133.780	-139.370	0.027244	0.8718	36.706	1.1471	0.7636	0.7640
21.200	21.618	133.981	-139.169	0.027190	0.8700	36.779	1.1494	0.7621	0.7625
21.219	21.637	134.000	-139.150	0.027184	0.8699	36.786	1.1496	0.7620	0.7624
21.370	21.791	134.150	-139.000	0.027144	0.8686	36.841	1.1513	0.7608	0.7612
21.400	21.822	134.180	-138.970	0.027136	0.8683	36.852	1.1517	0.7606	0.7610
21.575	22.000	134.353	-138.797	0.027089	0.8668	36.916	1.1537	0.7593	0.7597
21.600	22.026	134.375	-138.772	0.027082	0.8666	36.925	1.1540	0.7591	0.7595
21.800	22.230	134.575	-138.575	0.027028	0.8649	36.999	1.1562	0.7576	0.7580
22.000	22.434	134.770	-138.380	0.026974	0.8631	37.072	1.1585	0.7561	0.7565
22.200	22.638	134.964	-138.186	0.026921	0.8614	37.146	1.1609	0.7546	0.7550
22.237	22.678	135.000	-138.150	0.026911	0.8611	37.160	1.1613	0.7545	0.7549
22.393	22.835	135.150	-138.000	0.026869	0.8598	37.218	1.1631	0.7531	0.7535
22.600	23.040	135.357	-137.793	0.026826	0.8582	37.280	1.1650	0.7519	0.7523
22.655	23.082	135.395	-137.757	0.026826	0.8584	37.278	1.1650	0.7519	0.7523
22.800	23.286	135.598	-137.560	0.026770	0.8567	37.344	1.1678	0.7504	0.7508
23.000	23.491	135.801	-137.363	0.026717	0.8553	37.419	1.1702	0.7489	0.7493
23.200	23.697	136.005	-137.167	0.026663	0.8539	37.494	1.1725	0.7474	0.7478
23.291	23.750	136.000	-137.150	0.026659	0.8541	37.500	1.1726	0.7474	0.7478
23.400	23.861	136.102	-137.048	0.026620	0.8532	37.553	1.1756	0.7460	0.7464
23.452	23.894	136.150	-137.000	0.026606	0.8527	37.567	1.1756	0.7456	0.7460
23.536	24.000	136.228	-136.922	0.026594	0.8520	37.605	1.1775	0.7442	0.7446
23.600	24.065	136.268	-136.862	0.026587	0.8519	37.610	1.1772	0.7441	0.7445
23.800	24.269	136.472	-136.678	0.026540	0.8498	37.745	1.1796	0.7426	0.7430
24.000	24.473	136.655	-136.495	0.026494	0.8481	37.821	1.1820	0.7411	0.7415
24.200	24.677	136.838	-136.312	0.026437	0.8463	37.898	1.1843	0.7396	0.7400
24.379	24.800	137.000	-136.150	0.026389	0.8448	37.966	1.1865	0.7381	0.7385
24.400	24.881	137.019	-136.131	0.026384	0.8446	37.974	1.1867	0.7381	0.7385
24.517	25.000	137.124	-136.026	0.026330	0.8427	38.019	1.1881	0.7372	0.7376
24.546	25.085	137.150	-136.000	0.026295	0.8414	38.030	1.1885	0.7370	0.7374
24.600	25.085	137.199	-135.951	0.026280	0.8409	38.051	1.1891	0.7366	0.7370
24.800	25.289	137.378	-135.772	0.026227	0.8392	38.128	1.1916	0.7351	0.7355
25.000	25.493	137.556	-135.594	0.026174	0.8375	38.206	1.1940	0.7336	0.7340
25.200	25.697	137.733	-135.417	0.026121	0.8358	38.284	1.1964	0.7321	0.7325
25.400	25.901	137.909	-135.241	0.026068	0.8341	38.362	1.1988	0.7307	0.7311

TABLE 3 CONTINUED

SATURATED LIQUID OXYGEN

BAR	PRESSURE KP/CM ²	TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	KG/ DM ³	VOLUME		LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 1 BAR	DENSITY RATIOS - LIQUID DENSITY/ LIQUID DENSITY AT A BOIL. PRESS. OF 760 TORR
		KELVIN	CELSIUS			CM ³ / GRAM-MOLE	DM ³ / KG		
31.381	32.000	142.760	-130.390	0.024458	0.7826	40.886	1.2777	0.6655	0.6659
31.400	32.019	142.774	-130.376	0.024453	0.7825	40.894	1.2780	0.6654	0.6658
31.420	32.038	142.788	-130.362	0.024448	0.7824	40.902	1.2783	0.6653	0.6657
31.440	32.057	142.802	-130.348	0.024443	0.7823	40.910	1.2786	0.6652	0.6656
31.460	32.076	142.816	-130.334	0.024438	0.7822	40.918	1.2789	0.6651	0.6655
31.480	32.095	142.830	-130.320	0.024433	0.7821	40.926	1.2792	0.6650	0.6654
31.500	32.114	142.844	-130.306	0.024428	0.7820	40.934	1.2795	0.6649	0.6653
31.520	32.133	142.858	-130.292	0.024423	0.7819	40.942	1.2798	0.6648	0.6652
31.540	32.152	142.872	-130.278	0.024418	0.7818	40.950	1.2801	0.6647	0.6651
31.560	32.171	142.886	-130.264	0.024413	0.7817	40.958	1.2804	0.6646	0.6650
31.580	32.190	142.900	-130.250	0.024408	0.7816	40.966	1.2807	0.6645	0.6649
31.600	32.209	142.914	-130.236	0.024403	0.7815	40.974	1.2810	0.6644	0.6648
31.620	32.228	142.928	-130.222	0.024398	0.7814	40.982	1.2813	0.6643	0.6647
31.640	32.247	142.942	-130.208	0.024393	0.7813	40.990	1.2816	0.6642	0.6646
31.660	32.266	142.956	-130.194	0.024388	0.7812	40.998	1.2819	0.6641	0.6645
31.680	32.285	142.970	-130.180	0.024383	0.7811	41.006	1.2822	0.6640	0.6644
31.700	32.304	142.984	-130.166	0.024378	0.7810	41.014	1.2825	0.6639	0.6643
31.720	32.323	142.998	-130.152	0.024373	0.7809	41.022	1.2828	0.6638	0.6642
31.740	32.342	143.012	-130.138	0.024368	0.7808	41.030	1.2831	0.6637	0.6641
31.760	32.361	143.026	-130.124	0.024363	0.7807	41.038	1.2834	0.6636	0.6640
31.780	32.380	143.040	-130.110	0.024358	0.7806	41.046	1.2837	0.6635	0.6639
31.800	32.399	143.054	-130.096	0.024353	0.7805	41.054	1.2840	0.6634	0.6638
31.820	32.418	143.068	-130.082	0.024348	0.7804	41.062	1.2843	0.6633	0.6637
31.840	32.437	143.082	-130.068	0.024343	0.7803	41.070	1.2846	0.6632	0.6636
31.860	32.456	143.096	-130.054	0.024338	0.7802	41.078	1.2849	0.6631	0.6635
31.880	32.475	143.110	-130.040	0.024333	0.7801	41.086	1.2852	0.6630	0.6634
31.900	32.494	143.124	-130.026	0.024328	0.7800	41.094	1.2855	0.6629	0.6633
31.920	32.513	143.138	-130.012	0.024323	0.7799	41.102	1.2858	0.6628	0.6632
31.940	32.532	143.152	-129.998	0.024318	0.7798	41.110	1.2861	0.6627	0.6631
31.960	32.551	143.166	-129.984	0.024313	0.7797	41.118	1.2864	0.6626	0.6630
31.980	32.570	143.180	-129.970	0.024308	0.7796	41.126	1.2867	0.6625	0.6629
32.000	32.589	143.194	-129.956	0.024303	0.7795	41.134	1.2870	0.6624	0.6628
32.020	32.608	143.208	-129.942	0.024298	0.7794	41.142	1.2873	0.6623	0.6627
32.040	32.627	143.222	-129.928	0.024293	0.7793	41.150	1.2876	0.6622	0.6626
32.060	32.646	143.236	-129.914	0.024288	0.7792	41.158	1.2879	0.6621	0.6625
32.080	32.665	143.250	-129.900	0.024283	0.7791	41.166	1.2882	0.6620	0.6624
32.100	32.684	143.264	-129.886	0.024278	0.7790	41.174	1.2885	0.6619	0.6623
32.120	32.703	143.278	-129.872	0.024273	0.7789	41.182	1.2888	0.6618	0.6622
32.140	32.722	143.292	-129.858	0.024268	0.7788	41.190	1.2891	0.6617	0.6621
32.160	32.741	143.306	-129.844	0.024263	0.7787	41.198	1.2894	0.6616	0.6620
32.180	32.760	143.320	-129.830	0.024258	0.7786	41.206	1.2897	0.6615	0.6619
32.200	32.779	143.334	-129.816	0.024253	0.7785	41.214	1.2900	0.6614	0.6618
32.220	32.798	143.348	-129.802	0.024248	0.7784	41.222	1.2903	0.6613	0.6617
32.240	32.817	143.362	-129.788	0.024243	0.7783	41.230	1.2906	0.6612	0.6616
32.260	32.836	143.376	-129.774	0.024238	0.7782	41.238	1.2909	0.6611	0.6615
32.280	32.855	143.390	-129.760	0.024233	0.7781	41.246	1.2912	0.6610	0.6614
32.300	32.874	143.404	-129.746	0.024228	0.7780	41.254	1.2915	0.6609	0.6613
32.320	32.893	143.418	-129.732	0.024223	0.7779	41.262	1.2918	0.6608	0.6612
32.340	32.912	143.432	-129.718	0.024218	0.7778	41.270	1.2921	0.6607	0.6611
32.360	32.931	143.446	-129.704	0.024213	0.7777	41.278	1.2924	0.6606	0.6610
32.380	32.950	143.460	-129.690	0.024208	0.7776	41.286	1.2927	0.6605	0.6609
32.400	32.969	143.474	-129.676	0.024203	0.7775	41.294	1.2930	0.6604	0.6608
32.420	32.988	143.488	-129.662	0.024198	0.7774	41.302	1.2933	0.6603	0.6607
32.440	33.007	143.502	-129.648	0.024193	0.7773	41.310	1.2936	0.6602	0.6606
32.460	33.026	143.516	-129.634	0.024188	0.7772	41.318	1.2939	0.6601	0.6605
32.480	33.045	143.530	-129.620	0.024183	0.7771	41.326	1.2942	0.6600	0.6604
32.500	33.064	143.544	-129.606	0.024178	0.7770	41.334	1.2945	0.6599	0.6603
32.520	33.083	143.558	-129.592	0.024173	0.7769	41.342	1.2948	0.6598	0.6602
32.540	33.102	143.572	-129.578	0.024168	0.7768	41.350	1.2951	0.6597	0.6601
32.560	33.121	143.586	-129.564	0.024163	0.7767	41.358	1.2954	0.6596	0.6600
32.580	33.140	143.600	-129.550	0.024158	0.7766	41.366	1.2957	0.6595	0.6599
32.600	33.159	143.614	-129.536	0.024153	0.7765	41.374	1.2960	0.6594	0.6598
32.620	33.178	143.628	-129.522	0.024148	0.7764	41.382	1.2963	0.6593	0.6597
32.640	33.197	143.642	-129.508	0.024143	0.7763	41.390	1.2966	0.6592	0.6596
32.660	33.216	143.656	-129.494	0.024138	0.7762	41.398	1.2969	0.6591	0.6595
32.680	33.235	143.670	-129.480	0.024133	0.7761	41.406	1.2972	0.6590	0.6594
32.700	33.254	143.684	-129.466	0.024128	0.7760	41.414	1.2975	0.6589	0.6593
32.720	33.273	143.698	-129.452	0.024123	0.7759	41.422	1.2978	0.6588	0.6592
32.740	33.292	143.712	-129.438	0.024118	0.7758	41.430	1.2981	0.6587	0.6591
32.760	33.311	143.726	-129.424	0.024113	0.7757	41.438	1.2984	0.6586	0.6590
32.780	33.330	143.740	-129.410	0.024108	0.7756	41.446	1.2987	0.6585	0.6589
32.800	33.349	143.754	-129.396	0.024103	0.7755	41.454	1.2990	0.6584	0.6588
32.820	33.368	143.768	-129.382	0.024098	0.7754	41.462	1.2993	0.6583	0.6587
32.840	33.387	143.782	-129.368	0.024093	0.7753	41.470	1.2996	0.6582	0.6586
32.860	33.406	143.796	-129.354	0.024088	0.7752	41.478	1.2999	0.6581	0.6585
32.880	33.425	143.810	-129.340	0.024083	0.7751	41.486	1.3002	0.6580	0.6584
32.900	33.444	143.824	-129.326	0.024078	0.7750	41.494	1.3005	0.6579	0.6583
32.920	33.463	143.838	-129.312	0.024073	0.7749	41.502	1.3008	0.6578	0.6582
32.940	33.482	143.852	-129.298	0.024068	0.7748	41.510	1.3011	0.6577	0.6581
32.960	33.501	143.866	-129.284	0.024063	0.7747	41.518	1.3014	0.6576	0.6580
32.980	33.520	143.880	-129.270	0.024058	0.7746	41.526	1.3017	0.6575	0.6579
33.000	33.539	143.894	-129.256	0.024053	0.7745	41.534	1.3020	0.6574	0.6578
33.020	33.558	143.908	-129.242	0.024048	0.7744	41.542	1.3023	0.6573	0.6577
33.040	33.577	143.922	-129.228	0.024043	0.7743	41.550	1.3026	0.6572	0.6576
33.060	33.596	143.936	-129.214	0.024038	0.7742	41.558	1.3029	0.6571	0.6575
33.080	33.615	143.950	-129.200	0.024033	0.7741	41.566	1.3032	0.6570	0.6574
33.100	33.634	143.964	-129.186	0.024028	0.7740	41.574	1.3035	0.6569	0.6573
33.120	33.653	143.978	-129.172	0.024023	0.7739	41.582	1.3038	0.6568	0.6572
33.140	33.672	143.992	-129.158	0.024018	0.7738	41.590	1.3041	0.6567	0.6571
33.160	33.691	144.006	-129.144	0.024013	0.7737	41.598	1.3044	0.6566	0.6570
33.180	33.710	144.020	-129.130	0.024008	0.7736	41.606	1.3047	0.6565	0.6569
33.200	33.729	144.034	-129.116	0.024003	0.7735	41.614	1.3050	0.6564	0.6568
33.220	33.748	144.048	-129.102	0.024000	0.7734	41.622	1.3053	0.6563	0.6567
33.240	33.767	144.062	-129.088	0.023995	0.7733	41.630	1.3056	0.6562	0.6566
33.260	33.786	144.076	-129.074	0.023990	0.7732	41.638	1.3059	0.6561	0.6565
33.280	33.805	144.090	-129.060	0.023985	0.7731	41.646	1.3062	0.6560	0.6564
33.300	33.824	144.104	-129.046	0.023980	0.7730	41.654	1.3065	0.6559	0.6563
33.320	33.843	144.118	-129.032	0.023975	0.7729	41.662	1.3068	0.6558	0.6562
33.340	33.862	144.132	-129.018	0.023970	0.7728	41.670	1.3071	0.6557	0.6561
33.360	33.881	144.146	-129.004	0.023965	0.7727	41.678	1.3074	0.6556	0.6560
33.380	33.900	144							

TABLE 3 CONTINUED

SATURATED LIQUID OXYGEN

BAR	PRESSURE KP/CM ²	TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	DENSITY KG/ DM ³	VOLUME		DENSITY RATIOS - LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 1 BAR	DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR
		KELVIN	CELSIUS			GRAM-MOLE CM ³ /	DM ³ / KG		
37.400	38.137	146.932	-126.158	0.022718	0.7270	44.017	1.3756	0.6368	0.6371
37.413	38.150	147.000	-126.150	0.022714	0.7268	44.025	1.3758	0.6367	0.6370
37.600	38.361	147.123	-126.027	0.022656	0.7250	44.138	1.3794	0.6350	0.6354
37.641	38.383	147.150	-126.000	0.022644	0.7246	44.162	1.3801	0.6347	0.6350
37.800	38.595	147.254	-125.896	0.022594	0.7230	44.259	1.3831	0.6333	0.6336
38.000	38.793	147.384	-125.736	0.022532	0.7210	44.382	1.3870	0.6315	0.6319
38.200	38.953	147.514	-125.616	0.022469	0.7190	44.507	1.3909	0.6298	0.6301
38.246	39.000	147.544	-125.586	0.022454	0.7185	44.535	1.3918	0.6297	0.6297
38.400	39.157	147.644	-125.486	0.022405	0.7169	44.632	1.3948	0.6280	0.6283
38.600	39.351	147.772	-125.372	0.022341	0.7149	44.760	1.3988	0.6262	0.6266
38.800	39.555	147.901	-125.249	0.022277	0.7128	44.889	1.4028	0.6244	0.6248
38.955	39.723	148.000	-125.150	0.022227	0.7112	44.990	1.4060	0.6230	0.6233
39.000	39.759	148.029	-125.121	0.022213	0.7108	45.020	1.4069	0.6226	0.6229
39.191	39.954	148.156	-125.000	0.022150	0.7088	45.146	1.4109	0.6209	0.6212
39.200	39.973	148.166	-124.994	0.022147	0.7087	45.152	1.4110	0.6208	0.6211
39.227	40.000	148.173	-124.977	0.022139	0.7084	45.170	1.4116	0.6205	0.6209
39.400	40.177	148.283	-124.867	0.022082	0.7066	45.286	1.4152	0.6189	0.6193
39.600	40.381	148.409	-124.741	0.022016	0.7045	45.422	1.4195	0.6174	0.6174
39.800	40.595	148.535	-124.615	0.021949	0.7024	45.560	1.4238	0.6152	0.6156
40.000	40.799	148.660	-124.490	0.021882	0.7002	45.699	1.4282	0.6133	0.6137
40.200	40.953	148.785	-124.365	0.021815	0.6980	45.841	1.4326	0.6114	0.6118
40.400	41.157	148.909	-124.241	0.021746	0.6959	45.984	1.4371	0.6095	0.6099
40.547	41.347	149.000	-124.150	0.021696	0.6942	46.082	1.4404	0.6081	0.6084
40.600	41.400	149.033	-124.117	0.021678	0.6937	46.131	1.4416	0.6076	0.6079
40.790	41.594	149.156	-124.000	0.021612	0.6915	46.272	1.4460	0.6059	0.6061
40.800	41.604	149.166	-123.994	0.021606	0.6914	46.279	1.4460	0.6058	0.6060
41.000	41.808	149.279	-123.871	0.021538	0.6892	46.429	1.4510	0.6039	0.6040
41.188	42.000	149.394	-123.756	0.021472	0.6871	46.573	1.4555	0.6017	0.6022
41.200	42.012	149.401	-123.749	0.021467	0.6869	46.582	1.4557	0.6017	0.6020
41.400	42.216	149.523	-123.627	0.021396	0.6846	46.736	1.4606	0.5997	0.6000
41.600	42.404	149.645	-123.505	0.021324	0.6823	46.896	1.4655	0.5977	0.5980
41.800	42.624	149.765	-123.385	0.021251	0.6800	47.056	1.4706	0.5956	0.5960
42.000	42.828	149.886	-123.264	0.021178	0.6777	47.220	1.4757	0.5936	0.5939
42.169	43.000	149.997	-123.153	0.021115	0.6757	47.380	1.4801	0.5918	0.5922
42.190	43.022	150.000	-123.150	0.021107	0.6754	47.378	1.4806	0.5915	0.5919
42.200	43.032	150.006	-123.144	0.021103	0.6753	47.386	1.4809	0.5915	0.5918
42.400	43.236	150.136	-123.024	0.021028	0.6729	47.556	1.4862	0.5890	0.5897
42.441	43.278	150.166	-123.000	0.021012	0.6729	47.569	1.4873	0.5890	0.5893
42.600	43.464	150.255	-122.905	0.020952	0.6704	47.723	1.4916	0.5873	0.5876
42.800	43.644	150.333	-122.775	0.020875	0.6680	47.902	1.4971	0.5853	0.5854
43.000	43.848	150.442	-122.658	0.020797	0.6655	48.082	1.5027	0.5829	0.5832
43.149	44.000	150.509	-122.551	0.020730	0.6636	48.221	1.5070	0.5813	0.5816
43.200	44.052	150.517	-122.543	0.020719	0.6629	48.268	1.5084	0.5807	0.5810
43.400	44.256	150.717	-122.433	0.020637	0.6604	48.458	1.5143	0.5784	0.5788

TABLE 3 CONTINUED

SATURATED LIQUID OXYGEN

BAR	PRESSURE KP/CM ²	TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	KG/ DM ³	VOLUME		LIQUID DENSITY/ DENSITY AT A BOTL. PRESS. OF 1 BAR	DENSITY RATIOS - LIQUID DENSITY/ LIQUID DENSITY AT PRESS. OF 760 TORR	DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR
		CELSIUS	KELVIN			CM ³ / GRAM-MOLE	DM ³ / KG			
43.600	44.460	150.833	-122.317	0.020556	0.6578	48.647	1.5203		0.5762	0.5765
43.800	44.564	150.950	-122.200	0.020474	0.6551	48.893	1.5284		0.5739	0.5742
43.886	44.751	151.000	-122.150	0.020438	0.6540	48.929	1.5291		0.5732	0.5736
44.000	44.868	151.066	-122.084	0.020390	0.6527	49.043	1.5327		0.5716	0.5716
44.130	45.000	151.141	-122.009	0.020335	0.6505	49.176	1.5368		0.5700	0.5701
44.245	45.016	151.182	-122.000	0.020329	0.6497	49.192	1.5373		0.5698	0.5699
44.400	45.071	151.182	-121.968	0.020305	0.6493	49.248	1.5391		0.5694	0.5694
44.600	45.275	151.297	-121.853	0.020219	0.6470	49.459	1.5456		0.5670	0.5670
44.800	45.479	151.441	-121.739	0.020131	0.6442	49.675	1.5524		0.5646	0.5646
44.800	45.683	151.526	-121.624	0.020042	0.6413	49.896	1.5593		0.5617	0.5621
45.000	45.887	151.640	-121.510	0.019951	0.6384	50.124	1.5664		0.5592	0.5592
45.111	46.000	151.702	-121.448	0.019900	0.6368	50.182	1.5704		0.5578	0.5578
45.200	46.091	151.752	-121.397	0.019858	0.6354	50.198	1.5737		0.5569	0.5569
45.400	46.295	151.866	-121.281	0.019763	0.6324	50.359	1.5813		0.5542	0.5542
45.600	46.499	151.979	-121.171	0.019667	0.6293	50.848	1.5891		0.5512	0.5512
45.800	46.703	152.000	-121.150	0.019568	0.6267	50.896	1.5906		0.5507	0.5510
46.000	46.811	152.091	-121.059	0.019515	0.6244	51.105	1.5971		0.5485	0.5488
46.200	46.907	152.203	-120.947	0.019467	0.6229	51.244	1.6014		0.5470	0.5473
46.400	47.111	152.314	-120.836	0.019420	0.6214	51.494	1.6093		0.5459	0.5459
46.600	47.315	152.425	-120.725	0.019363	0.6196	51.645	1.6140		0.5443	0.5446
46.800	47.519	152.536	-120.614	0.019317	0.6182	51.930	1.6229		0.5430	0.5430
47.000	47.723	152.646	-120.504	0.019247	0.6167	52.226	1.6321		0.5418	0.5427
47.200	47.927	152.755	-120.395	0.019199	0.6154	52.535	1.6418		0.5400	0.5400
47.400	48.131	152.865	-120.285	0.019149	0.6140	52.857	1.6518		0.5387	0.5387
47.600	48.335	152.974	-120.176	0.019099	0.6126	53.193	1.6624		0.5370	0.5370
47.800	48.538	153.000	-120.150	0.018965	0.5976	53.547	1.6734		0.5358	0.5358
47.900	48.666	153.082	-120.068	0.018847	0.5966	53.634	1.6761		0.5338	0.5338
47.925	48.746	153.150	-120.000	0.018643	0.5935	53.918	1.6850		0.5294	0.5294
48.000	48.946	153.191	-119.959	0.018412	0.5908	54.161	1.6926		0.5269	0.5269
48.053	49.000	153.327	-119.852	0.018272	0.5892	54.311	1.6973		0.5178	0.5178
48.200	49.150	153.406	-119.744	0.018234	0.5885	54.728	1.7103		0.5124	0.5124
48.400	49.354	153.513	-119.637	0.018125	0.5800	55.841	1.7139		0.5111	0.5114
48.600	49.558	153.619	-119.531	0.017970	0.5750	55.171	1.7242		0.5080	0.5083
48.800	49.762	153.726	-119.424	0.017806	0.5698	55.647	1.7390		0.5037	0.5040
49.000	49.966	153.832	-119.318	0.017631	0.5641	56.718	1.7551		0.4991	0.4994
49.033	50.070	153.849	-119.301	0.017442	0.5581	57.332	1.7917		0.4942	0.4945
49.200	50.274	153.937	-119.213	0.017237	0.5516	57.440	1.7951		0.4889	0.4892
49.320	50.478	154.042	-119.150	0.017104	0.5473	58.015	1.8130		0.4834	0.4834
49.400	50.578	154.147	-119.108	0.017010	0.5443	58.769	1.8272		0.4794	0.4797
49.600	50.782	154.250	-119.000	0.016754	0.5361	59.617	1.8653		0.4696	0.4699
49.800	50.986	154.353	-118.900	0.016476	0.5339	59.715	1.8662		0.4694	0.4696

TABLE 3 CONTINUED

SATURATED LIQUID OXYGEN

PRESSURE	TEMPERATURE		DENSITY		VOLUME		DENSITY RATIOS -			
	BAR	KP/CM ²	KELVIN	CEL SIUS	GRAM-MOLE/ CM ³	KG/ DM ³	CM ³ / GRAM-MOLE	DM ³ / KG	LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 1 BAR	DENSITY RATIO - LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR
	49.800	50.782	154.251	-118.899	0.016456	0.5266	60.767	1.8590	0.4613	0.4615
	50.000	50.986	154.355	-118.795	0.016091	0.5149	62.146	1.9421	0.4510	0.4513
	50.014	51.000	154.363	-118.787	0.016062	0.5140	62.258	1.9456	0.4502	0.4505
	50.427	51.421	154.576	-118.574	0.013630	0.4361	73.368	2.2528	0.3920	0.3922

TABLE 4

DENSITY OF COMPRESSED LIQUID OXYGEN

TABLE ENTRIES													
1. TEMPERATURE, K				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS									
2. TEMPERATURE, °C				2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS									
3. VAPOR PRESSURE, BAR				3. DENSITY, KG/CM ³									
BAR	0.800	1.000	2.000	4.000	6.000	8.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000
KP/CM ²	0.816	1.020	2.039	4.079	6.118	8.158	10.197	15.298	20.394	25.493	30.591	35.690	40.789
88.0		1.0089	1.0091	1.0095	1.0099	1.0102	1.0106	1.0115	1.0124	1.0133	1.0142	1.0151	1.0160
-185.15		1.0095	1.0097	1.0100	1.0104	1.0108	1.0111	1.0121	1.0130	1.0139	1.0148	1.0157	1.0166
0.632		1.1518	1.1520	1.1525	1.1529	1.1533	1.1537	1.1544	1.1558	1.1568	1.1579	1.1589	1.1599
88.1		1.0085	1.0087	1.0091	1.0094	1.0098	1.0102	1.0111	1.0120	1.0129	1.0138	1.0147	1.0155
-185.05		1.0090	1.0092	1.0096	1.0100	1.0103	1.0107	1.0116	1.0126	1.0135	1.0144	1.0153	1.0161
0.610		1.1513	1.1515	1.1520	1.1524	1.1528	1.1532	1.1543	1.1553	1.1564	1.1574	1.1584	1.1594
88.2		1.0081	1.0082	1.0086	1.0090	1.0094	1.0097	1.0107	1.0116	1.0125	1.0134	1.0143	1.0152
-184.95		1.0086	1.0088	1.0092	1.0095	1.0099	1.0103	1.0112	1.0121	1.0130	1.0139	1.0148	1.0157
0.619		1.1508	1.1510	1.1515	1.1519	1.1523	1.1527	1.1538	1.1548	1.1559	1.1569	1.1579	1.1589
88.3		1.0076	1.0078	1.0082	1.0086	1.0089	1.0093	1.0102	1.0112	1.0121	1.0130	1.0139	1.0148
-184.85		1.0082	1.0084	1.0087	1.0091	1.0095	1.0099	1.0108	1.0117	1.0126	1.0135	1.0144	1.0153
0.628		1.1503	1.1506	1.1510	1.1514	1.1518	1.1523	1.1533	1.1544	1.1554	1.1564	1.1575	1.1585
88.4		1.0072	1.0074	1.0078	1.0081	1.0085	1.0089	1.0098	1.0107	1.0116	1.0125	1.0134	1.0143
-184.75		1.0077	1.0079	1.0083	1.0087	1.0091	1.0094	1.0104	1.0113	1.0122	1.0131	1.0140	1.0149
0.638		1.1498	1.1501	1.1505	1.1509	1.1513	1.1518	1.1528	1.1539	1.1549	1.1560	1.1570	1.1580
88.5		1.0068	1.0073	1.0077	1.0081	1.0085	1.0089	1.0094	1.0103	1.0112	1.0121	1.0130	1.0139
-184.65		1.0073	1.0075	1.0079	1.0083	1.0086	1.0090	1.0095	1.0105	1.0114	1.0123	1.0132	1.0141
0.647		1.1493	1.1496	1.1500	1.1504	1.1509	1.1513	1.1523	1.1534	1.1544	1.1555	1.1565	1.1575
88.6		1.0063	1.0065	1.0069	1.0073	1.0076	1.0080	1.0090	1.0099	1.0108	1.0117	1.0126	1.0135
-184.55		1.0069	1.0071	1.0074	1.0078	1.0082	1.0086	1.0095	1.0104	1.0113	1.0123	1.0132	1.0141
0.656		1.1489	1.1491	1.1495	1.1499	1.1504	1.1508	1.1518	1.1529	1.1540	1.1550	1.1560	1.1571
88.7		1.0059	1.0061	1.0065	1.0068	1.0072	1.0076	1.0085	1.0095	1.0104	1.0113	1.0122	1.0131
-184.45		1.0064	1.0066	1.0070	1.0074	1.0078	1.0081	1.0091	1.0100	1.0109	1.0118	1.0127	1.0136
0.665		1.1484	1.1486	1.1490	1.1494	1.1499	1.1503	1.1514	1.1524	1.1535	1.1545	1.1555	1.1566
88.8		1.0055	1.0057	1.0060	1.0064	1.0068	1.0072	1.0081	1.0090	1.0099	1.0109	1.0118	1.0127
-184.35		1.0060	1.0062	1.0066	1.0070	1.0074	1.0078	1.0087	1.0096	1.0105	1.0114	1.0123	1.0132
0.675		1.1479	1.1481	1.1485	1.1489	1.1494	1.1498	1.1508	1.1519	1.1530	1.1540	1.1551	1.1561
88.9		1.0050	1.0052	1.0056	1.0060	1.0064	1.0067	1.0077	1.0086	1.0095	1.0104	1.0114	1.0123
-184.25		1.0056	1.0058	1.0061	1.0065	1.0069	1.0073	1.0082	1.0092	1.0101	1.0110	1.0119	1.0128
0.684		1.1474	1.1476	1.1480	1.1485	1.1489	1.1493	1.1504	1.1514	1.1525	1.1535	1.1546	1.1556
89.0		1.0046	1.0048	1.0052	1.0055	1.0059	1.0063	1.0072	1.0082	1.0091	1.0100	1.0109	1.0118
-184.15		1.0051	1.0053	1.0057	1.0061	1.0065	1.0069	1.0078	1.0087	1.0097	1.0106	1.0115	1.0124
0.694		1.1469	1.1471	1.1475	1.1480	1.1484	1.1488	1.1499	1.1510	1.1520	1.1531	1.1541	1.1551
89.1		1.0042	1.0044	1.0047	1.0051	1.0055	1.0059	1.0068	1.0077	1.0087	1.0096	1.0105	1.0114
-184.05		1.0047	1.0049	1.0053	1.0057	1.0060	1.0064	1.0074	1.0083	1.0092	1.0101	1.0111	1.0120
0.694		1.1464	1.1466	1.1470	1.1475	1.1479	1.1483	1.1494	1.1505	1.1515	1.1526	1.1536	1.1547
89.2		1.0037	1.0039	1.0043	1.0047	1.0051	1.0054	1.0064	1.0073	1.0083	1.0092	1.0101	1.0110
-183.95		1.0043	1.0045	1.0048	1.0052	1.0056	1.0060	1.0069	1.0079	1.0088	1.0097	1.0106	1.0116
0.913		1.1459	1.1461	1.1465	1.1470	1.1474	1.1478	1.1488	1.1500	1.1511	1.1521	1.1531	1.1542
89.3		1.0033	1.0035	1.0039	1.0042	1.0046	1.0050	1.0060	1.0069	1.0078	1.0088	1.0097	1.0106
-183.85		1.0038	1.0040	1.0044	1.0048	1.0052	1.0056	1.0065	1.0074	1.0084	1.0093	1.0102	1.0111
0.923		1.1454	1.1456	1.1460	1.1465	1.1469	1.1473	1.1484	1.1495	1.1506	1.1516	1.1527	1.1537
89.4		1.0029	1.0030	1.0034	1.0038	1.0042	1.0046	1.0055	1.0065	1.0074	1.0083	1.0093	1.0102
-183.75		1.0034	1.0036	1.0040	1.0044	1.0047	1.0051	1.0060	1.0070	1.0080	1.0089	1.0098	1.0107
0.933		1.1449	1.1451	1.1455	1.1460	1.1464	1.1469	1.1479	1.1490	1.1501	1.1511	1.1522	1.1532
89.5		1.0024	1.0026	1.0030	1.0034	1.0038	1.0041	1.0051	1.0060	1.0070	1.0079	1.0088	1.0097
-183.65		1.0030	1.0032	1.0035	1.0039	1.0043	1.0047	1.0056	1.0066	1.0075	1.0085	1.0094	1.0103
0.943		1.1444	1.1446	1.1451	1.1455	1.1459	1.1464	1.1474	1.1485	1.1496	1.1507	1.1517	1.1528
89.6		1.0020	1.0022	1.0026	1.0029	1.0033	1.0037	1.0047	1.0056	1.0066	1.0075	1.0084	1.0093
-183.55		1.0025	1.0027	1.0031	1.0035	1.0039	1.0043	1.0052	1.0062	1.0071	1.0080	1.0090	1.0099
0.953		1.1439	1.1441	1.1446	1.1450	1.1454	1.1459	1.1470	1.1480	1.1491	1.1502	1.1512	1.1523
89.7		1.0015	1.0017	1.0021	1.0025	1.0029	1.0033	1.0042	1.0052	1.0061	1.0071	1.0080	1.0089
-183.45		1.0021	1.0023	1.0027	1.0031	1.0034	1.0038	1.0048	1.0057	1.0067	1.0076	1.0085	1.0095
0.963		1.1434	1.1436	1.1441	1.1445	1.1449	1.1454	1.1465	1.1476	1.1486	1.1497	1.1507	1.1518
89.8		1.0011	1.0013	1.0017	1.0021	1.0025	1.0029	1.0038	1.0048	1.0057	1.0066	1.0076	1.0085
-183.35		1.0017	1.0019	1.0022	1.0026	1.0030	1.0034	1.0044	1.0053	1.0063	1.0072	1.0081	1.0090
0.974		1.1429	1.1431	1.1436	1.1440	1.1444	1.1449	1.1460	1.1471	1.1481	1.1492	1.1503	1.1513
89.9		1.0007	1.0009	1.0013	1.0016	1.0020	1.0024	1.0034	1.0043	1.0053	1.0062	1.0071	1.0081
-183.25		1.0012	1.0014	1.0018	1.0022	1.0026	1.0030	1.0040	1.0049	1.0058	1.0068	1.0077	1.0086
0.984		1.1424	1.1426	1.1431	1.1435	1.1440	1.1444	1.1455	1.1466	1.1477	1.1487	1.1498	1.1508

TABLE 4 - CONTINUED

DENSITY OF COMPRESSED LIQUID OXYGEN - CONTINUED

		TABLE ENTRIES													
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR		1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/CM ³													
BAR K/CM ²		0.800 0.816	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.197	15.000 15.296	20.000 20.354	25.000 25.493	30.000 30.591	35.000 35.690	40.000 40.789	
90.0 -183.15 0.994		1.0002 1.0008 1.1419	1.0004 1.0010 1.1421	1.0008 1.0014 1.1426	1.0012 1.0018 1.1430	1.0016 1.0022 1.1435	1.0020 1.0026 1.1439	1.0024 1.0030 1.1443	1.0028 1.0034 1.1445	1.0032 1.0038 1.1447	1.0036 1.0042 1.1449	1.0040 1.0046 1.1451	1.0044 1.0050 1.1453	1.0048 1.0054 1.1455	
90.1 -183.05 1.005		1.0000 1.0005 1.1416	1.0004 1.0009 1.1421	1.0008 1.0013 1.1425	1.0012 1.0017 1.1430	1.0016 1.0021 1.1434	1.0020 1.0025 1.1439	1.0024 1.0029 1.1443	1.0028 1.0033 1.1445	1.0032 1.0037 1.1447	1.0036 1.0041 1.1449	1.0040 1.0045 1.1451	1.0044 1.0049 1.1453	1.0048 1.0053 1.1455	
90.2 -182.95 1.015		0.9996 1.0001 1.1411	1.0000 1.0005 1.1416	1.0004 1.0009 1.1420	1.0007 1.0013 1.1425	1.0011 1.0017 1.1429	1.0015 1.0021 1.1434	1.0019 1.0025 1.1439	1.0023 1.0029 1.1443	1.0027 1.0033 1.1445	1.0031 1.0037 1.1447	1.0035 1.0041 1.1449	1.0039 1.0045 1.1451	1.0043 1.0049 1.1453	
90.3 -182.85 1.026		0.9991 0.9997 1.1406	0.9995 1.0001 1.1411	0.9999 1.0005 1.1415	1.0003 1.0008 1.1420	1.0007 1.0012 1.1424	1.0011 1.0016 1.1429	1.0015 1.0021 1.1433	1.0019 1.0024 1.1435	1.0023 1.0029 1.1437	1.0027 1.0033 1.1439	1.0031 1.0037 1.1441	1.0035 1.0041 1.1443	1.0039 1.0045 1.1445	
90.4 -182.75 1.037		0.9987 0.9992 1.1401	0.9991 0.9996 1.1406	0.9995 1.0000 1.1410	0.9999 1.0004 1.1415	1.0003 1.0008 1.1419	1.0007 1.0012 1.1423	1.0011 1.0016 1.1427	1.0015 1.0021 1.1431	1.0019 1.0024 1.1433	1.0023 1.0029 1.1435	1.0027 1.0033 1.1437	1.0031 1.0037 1.1439	1.0035 1.0041 1.1441	
90.5 -182.65 1.046		0.9982 0.9988 1.1396	0.9986 0.9992 1.1401	0.9990 0.9996 1.1405	0.9994 1.0000 1.1410	0.9998 1.0004 1.1414	0.9998 1.0004 1.1418	1.0002 1.0008 1.1422	1.0006 1.0012 1.1426	1.0010 1.0016 1.1428	1.0014 1.0020 1.1430	1.0018 1.0024 1.1432	1.0022 1.0028 1.1434	1.0026 1.0032 1.1436	
90.6 -182.55 1.059		0.9978 0.9984 1.1391	0.9982 0.9988 1.1396	0.9986 0.9991 1.1400	0.9990 0.9995 1.1405	0.9994 0.9999 1.1409	0.9998 1.0003 1.1413	1.0002 1.0007 1.1417	1.0006 1.0011 1.1421	1.0010 1.0015 1.1423	1.0014 1.0019 1.1425	1.0018 1.0023 1.1427	1.0022 1.0027 1.1429	1.0026 1.0031 1.1431	
90.7 -182.45 1.070		0.9974 0.9979 1.1386	0.9978 0.9983 1.1391	0.9982 0.9987 1.1395	0.9986 0.9991 1.1400	0.9990 0.9995 1.1404	0.9994 0.9999 1.1408	0.9998 1.0003 1.1412	1.0002 1.0007 1.1416	1.0006 1.0011 1.1418	1.0010 1.0015 1.1420	1.0014 1.0019 1.1422	1.0018 1.0023 1.1424	1.0022 1.0027 1.1426	
90.8 -182.35 1.081		0.9969 0.9975 1.1381	0.9973 0.9979 1.1386	0.9977 0.9983 1.1390	0.9981 0.9987 1.1395	0.9985 0.9991 1.1399	0.9989 0.9994 1.1403	0.9993 0.9998 1.1407	0.9997 1.0002 1.1411	1.0001 1.0006 1.1413	1.0005 1.0010 1.1415	1.0009 1.0014 1.1417	1.0013 1.0018 1.1419	1.0017 1.0022 1.1421	
90.9 -182.25 1.092		0.9965 0.9970 1.1376	0.9969 0.9974 1.1381	0.9973 0.9978 1.1385	0.9977 0.9982 1.1390	0.9981 0.9986 1.1394	0.9985 0.9990 1.1398	0.9989 0.9994 1.1402	0.9993 0.9998 1.1406	0.9997 1.0002 1.1410	1.0001 1.0006 1.1412	1.0005 1.0010 1.1414	1.0009 1.0014 1.1416	1.0013 1.0018 1.1418	
91.0 -182.15 1.103		0.9961 0.9966 1.1371	0.9965 0.9970 1.1376	0.9969 0.9974 1.1380	0.9973 0.9978 1.1385	0.9977 0.9982 1.1389	0.9981 0.9986 1.1393	0.9985 0.9990 1.1397	0.9989 0.9994 1.1401	0.9993 0.9998 1.1403	0.9997 1.0002 1.1405	1.0001 1.0006 1.1407	1.0005 1.0010 1.1409	1.0009 1.0014 1.1411	
91.1 -182.05 1.115		0.9956 0.9962 1.1366	0.9960 0.9966 1.1371	0.9964 0.9970 1.1375	0.9968 0.9974 1.1380	0.9972 0.9978 1.1384	0.9976 0.9982 1.1388	0.9980 0.9986 1.1392	0.9984 0.9990 1.1396	0.9988 0.9994 1.1400	0.9992 0.9998 1.1404	0.9996 1.0002 1.1408	1.0000 1.0006 1.1412	1.0004 1.0010 1.1416	
91.2 -181.95 1.126		0.9952 0.9957 1.1361	0.9956 0.9961 1.1366	0.9960 0.9965 1.1370	0.9964 0.9969 1.1375	0.9968 0.9973 1.1379	0.9972 0.9977 1.1383	0.9976 0.9981 1.1387	0.9980 0.9985 1.1391	0.9984 0.9989 1.1395	0.9988 0.9993 1.1399	0.9992 0.9997 1.1403	0.9996 1.0001 1.1407	1.0000 1.0005 1.1411	
91.3 -181.85 1.138		0.9947 0.9953 1.1356	0.9951 0.9957 1.1361	0.9955 0.9961 1.1365	0.9959 0.9965 1.1370	0.9963 0.9969 1.1374	0.9967 0.9973 1.1378	0.9971 0.9977 1.1382	0.9975 0.9981 1.1386	0.9979 0.9985 1.1390	0.9983 0.9989 1.1394	0.9987 0.9993 1.1398	0.9991 0.9997 1.1402	0.9995 1.0001 1.1406	
91.4 -181.75 1.149		0.9943 0.9948 1.1351	0.9947 0.9952 1.1356	0.9951 0.9956 1.1360	0.9955 0.9960 1.1365	0.9959 0.9964 1.1369	0.9963 0.9968 1.1373	0.9967 0.9972 1.1377	0.9971 0.9976 1.1381	0.9975 0.9980 1.1385	0.9979 0.9984 1.1389	0.9983 0.9988 1.1393	0.9987 0.9992 1.1397	0.9991 0.9996 1.1401	
91.5 -181.65 1.161		0.9939 0.9944 1.1346	0.9943 0.9948 1.1351	0.9947 0.9952 1.1355	0.9951 0.9956 1.1360	0.9955 0.9960 1.1365	0.9959 0.9964 1.1369	0.9963 0.9968 1.1373	0.9967 0.9972 1.1377	0.9971 0.9976 1.1381	0.9975 0.9980 1.1385	0.9979 0.9984 1.1389	0.9983 0.9988 1.1393	0.9987 0.9992 1.1397	
91.6 -181.55 1.173		0.9934 0.9940 1.1341	0.9938 0.9944 1.1346	0.9942 0.9948 1.1350	0.9946 0.9952 1.1355	0.9950 0.9956 1.1360	0.9954 0.9960 1.1364	0.9958 0.9964 1.1368	0.9962 0.9968 1.1372	0.9966 0.9972 1.1376	0.9970 0.9976 1.1380	0.9974 0.9980 1.1384	0.9978 0.9984 1.1388	0.9982 0.9988 1.1392	
91.7 -181.45 1.185		0.9930 0.9935 1.1336	0.9934 0.9939 1.1341	0.9938 0.9943 1.1346	0.9942 0.9947 1.1350	0.9946 0.9951 1.1355	0.9950 0.9955 1.1360	0.9954 0.9959 1.1364	0.9958 0.9963 1.1368	0.9962 0.9967 1.1372	0.9966 0.9971 1.1376	0.9970 0.9975 1.1380	0.9974 0.9979 1.1384	0.9978 0.9983 1.1388	
91.8 -181.35 1.197		0.9925 0.9931 1.1331	0.9929 0.9935 1.1336	0.9933 0.9939 1.1340	0.9937 0.9943 1.1345	0.9941 0.9947 1.1350	0.9945 0.9951 1.1354	0.9949 0.9955 1.1358	0.9953 0.9959 1.1362	0.9957 0.9963 1.1366	0.9961 0.9967 1.1370	0.9965 0.9971 1.1374	0.9969 0.9975 1.1378	0.9973 0.9979 1.1382	
91.9 -181.25 1.209		0.9921 0.9926 1.1326	0.9925 0.9930 1.1331	0.9929 0.9934 1.1335	0.9933 0.9938 1.1340	0.9937 0.9943 1.1345	0.9941 0.9947 1.1350	0.9945 0.9951 1.1354	0.9949 0.9955 1.1358	0.9953 0.9959 1.1362	0.9957 0.9963 1.1366	0.9961 0.9967 1.1370	0.9965 0.9971 1.1374	0.9969 0.9975 1.1378	

TABLE 4 - CONTINUED

DENSITY OF COMPRESSED LIQUID OXYGEN - CONTINUED

TABLE ENTRIES												
1. TEMPERATURE, K 2. TEMPERATURE, °C 3. VAPOR PRESSURE, BAR			1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 Torr, DIMENSIONLESS 3. DENSITY, KG/CM ³									
BAR	0.000	1.000	2.000	4.000	6.000	8.000	10.000	15.000	20.000	25.000	30.000	40.000
K/CM ²	0.816	1.020	2.039	4.079	6.118	8.158	10.197	15.296	20.394	25.493	30.591	40.689
92.0			0.991E	0.992E	0.992E	0.992E	0.993E	0.994E	0.995E	0.996E	0.997E	0.998E
-181.15			0.992E	0.992E	0.993E	0.993E	0.993E	0.994E	0.995E	0.996E	0.997E	0.998E
1.221			1.132E	1.132E	1.133E	1.133E	1.134E	1.135E	1.136E	1.137E	1.138E	1.140E
92.1			0.991E	0.991E	0.992E	0.992E	0.992E	0.993E	0.994E	0.995E	0.996E	0.998E
-181.05			0.991E	0.992E	0.992E	0.993E	0.993E	0.994E	0.995E	0.996E	0.997E	0.998E
1.233			1.131E	1.132E	1.132E	1.133E	1.133E	1.134E	1.135E	1.136E	1.138E	1.140E
92.2			0.990E	0.991E	0.991E	0.992E	0.992E	0.993E	0.994E	0.995E	0.996E	0.998E
-180.95			0.991E	0.991E	0.992E	0.992E	0.992E	0.993E	0.994E	0.995E	0.996E	0.998E
1.246			1.131E	1.131E	1.132E	1.132E	1.133E	1.134E	1.135E	1.136E	1.137E	1.139E
92.3			0.990E	0.990E	0.991E	0.991E	0.992E	0.993E	0.994E	0.995E	0.996E	0.997E
-180.85			0.990E	0.991E	0.991E	0.992E	0.992E	0.993E	0.994E	0.995E	0.996E	0.997E
1.250			1.130E	1.131E	1.131E	1.132E	1.132E	1.133E	1.134E	1.135E	1.137E	1.139E
92.4			0.989E	0.990E	0.990E	0.991E	0.991E	0.992E	0.993E	0.994E	0.995E	0.997E
-180.75			0.990E	0.990E	0.991E	0.991E	0.992E	0.993E	0.994E	0.995E	0.996E	0.998E
1.271			1.130E	1.130E	1.131E	1.131E	1.132E	1.133E	1.134E	1.135E	1.136E	1.138E
92.5			0.989E	0.989E	0.990E	0.990E	0.991E	0.992E	0.993E	0.994E	0.995E	0.997E
-180.65			0.990E	0.990E	0.990E	0.991E	0.991E	0.992E	0.993E	0.994E	0.995E	0.997E
1.283			1.129E	1.130E	1.130E	1.131E	1.131E	1.132E	1.133E	1.134E	1.136E	1.138E
92.6			0.989E	0.989E	0.989E	0.990E	0.990E	0.991E	0.992E	0.993E	0.994E	0.996E
-180.55			0.989E	0.989E	0.990E	0.990E	0.991E	0.992E	0.993E	0.994E	0.995E	0.997E
1.296			1.129E	1.129E	1.130E	1.130E	1.131E	1.132E	1.133E	1.134E	1.135E	1.137E
92.7			0.988E	0.989E	0.989E	0.990E	0.990E	0.991E	0.992E	0.993E	0.994E	0.996E
-180.45			0.989E	0.989E	0.990E	0.990E	0.991E	0.992E	0.993E	0.994E	0.995E	0.997E
1.309			1.128E	1.129E	1.129E	1.130E	1.130E	1.131E	1.132E	1.133E	1.135E	1.137E
92.8			0.988E	0.988E	0.989E	0.989E	0.990E	0.991E	0.992E	0.993E	0.994E	0.996E
-180.35			0.988E	0.989E	0.989E	0.990E	0.990E	0.991E	0.992E	0.993E	0.994E	0.996E
1.322			1.128E	1.128E	1.129E	1.129E	1.130E	1.131E	1.132E	1.133E	1.134E	1.136E
92.9			0.987E	0.988E	0.988E	0.989E	0.989E	0.990E	0.991E	0.992E	0.993E	0.995E
-180.25			0.988E	0.988E	0.989E	0.989E	0.990E	0.991E	0.992E	0.993E	0.994E	0.996E
1.335			1.127E	1.128E	1.128E	1.129E	1.129E	1.130E	1.131E	1.132E	1.134E	1.136E
93.0			0.987E	0.987E	0.988E	0.988E	0.989E	0.990E	0.991E	0.992E	0.993E	0.995E
-180.15			0.987E	0.988E	0.988E	0.989E	0.989E	0.990E	0.991E	0.992E	0.993E	0.995E
1.346			1.127E	1.127E	1.128E	1.128E	1.129E	1.130E	1.131E	1.132E	1.134E	1.136E
93.1			0.986E	0.987E	0.987E	0.988E	0.988E	0.989E	0.990E	0.991E	0.992E	0.994E
-180.05			0.987E	0.987E	0.988E	0.988E	0.989E	0.990E	0.991E	0.992E	0.993E	0.995E
1.361			1.126E	1.127E	1.127E	1.128E	1.128E	1.129E	1.130E	1.131E	1.132E	1.134E
93.2			0.986E	0.986E	0.987E	0.987E	0.988E	0.989E	0.990E	0.991E	0.992E	0.994E
-179.95			0.986E	0.987E	0.987E	0.988E	0.988E	0.989E	0.990E	0.991E	0.992E	0.994E
1.375			1.126E	1.126E	1.127E	1.127E	1.128E	1.129E	1.130E	1.131E	1.132E	1.134E
93.3			0.985E	0.986E	0.986E	0.987E	0.987E	0.988E	0.989E	0.990E	0.991E	0.993E
-179.85			0.986E	0.986E	0.987E	0.987E	0.988E	0.989E	0.990E	0.991E	0.992E	0.994E
1.388			1.125E	1.126E	1.126E	1.127E	1.127E	1.128E	1.129E	1.130E	1.131E	1.133E
93.4			0.985E	0.985E	0.986E	0.986E	0.987E	0.987E	0.988E	0.989E	0.990E	0.992E
-179.75			0.986E	0.986E	0.986E	0.987E	0.987E	0.988E	0.989E	0.990E	0.991E	0.993E
1.402			1.125E	1.125E	1.126E	1.126E	1.127E	1.128E	1.129E	1.130E	1.131E	1.133E
93.5			0.985E	0.985E	0.986E	0.986E	0.987E	0.987E	0.988E	0.989E	0.990E	0.992E
-179.65			0.985E	0.986E	0.986E	0.987E	0.987E	0.988E	0.989E	0.990E	0.991E	0.993E
1.415			1.124E	1.125E	1.125E	1.126E	1.126E	1.127E	1.128E	1.130E	1.131E	1.133E
93.6			0.984E	0.985E	0.985E	0.986E	0.986E	0.987E	0.988E	0.989E	0.990E	0.992E
-179.55			0.985E	0.985E	0.986E	0.986E	0.987E	0.988E	0.989E	0.990E	0.991E	0.993E
1.429			1.124E	1.124E	1.124E	1.125E	1.125E	1.127E	1.128E	1.129E	1.130E	1.132E
93.7			0.984E	0.984E	0.984E	0.985E	0.985E	0.986E	0.987E	0.988E	0.989E	0.991E
-179.45			0.984E	0.985E	0.985E	0.986E	0.986E	0.987E	0.988E	0.989E	0.990E	0.992E
1.443			1.123E	1.124E	1.124E	1.124E	1.125E	1.126E	1.127E	1.129E	1.130E	1.132E
93.8			0.983E	0.984E	0.984E	0.984E	0.985E	0.986E	0.987E	0.988E	0.989E	0.991E
-179.35			0.984E	0.984E	0.985E	0.985E	0.986E	0.986E	0.987E	0.988E	0.989E	0.991E
1.457			1.123E	1.123E	1.123E	1.124E	1.124E	1.126E	1.127E	1.129E	1.130E	1.131E
93.9			0.983E	0.983E	0.984E	0.984E	0.984E	0.985E	0.986E	0.987E	0.988E	0.991E
-179.25			0.983E	0.984E	0.984E	0.985E	0.985E	0.986E	0.987E	0.988E	0.989E	0.991E
1.471			1.122E	1.122E	1.123E	1.123E	1.124E	1.125E	1.126E	1.128E	1.129E	1.131E

TABLE 4 - CONTINUED

DENSITY OF COMPRESSED LIQUID OXYGEN - CONTINUED

		TABLE ENTRIES															
1. TEMPERATURE, K 2. TEMPERATURE, °C 3. VAPOR PRESSURE, BAR		1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/Dm ³															
K BAR	°C	0.800 0.816	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.197	15.000 15.296	20.000 20.394	25.000 25.493	30.000 30.591	35.000 35.690	40.000 40.789			
94.0 -176.15 1.465				0.9827 0.9833 1.1219	0.9832 0.9837 1.1224	0.9836 0.9841 1.1229	0.9840 0.9846 1.1234	0.9845 0.9851 1.1239	0.9855 0.9861 1.1251	0.9866 0.9871 1.1263	0.9876 0.9881 1.1275	0.9886 0.9892 1.1286	0.9897 0.9902 1.1298	0.9907 0.9912 1.1310			
94.1 -176.05 1.500				0.9823 0.9828 1.1214	0.9827 0.9833 1.1219	0.9832 0.9837 1.1224	0.9836 0.9841 1.1229	0.9840 0.9846 1.1234	0.9851 0.9856 1.1246	0.9861 0.9867 1.1258	0.9872 0.9877 1.1270	0.9882 0.9887 1.1282	0.9892 0.9898 1.1293	0.9902 0.9908 1.1305			
94.2 -176.95 1.514				0.9818 0.9824 1.1209	0.9823 0.9828 1.1214	0.9827 0.9832 1.1219	0.9831 0.9836 1.1224	0.9836 0.9841 1.1229	0.9846 0.9852 1.1241	0.9857 0.9862 1.1253	0.9867 0.9873 1.1265	0.9878 0.9883 1.1277	0.9888 0.9893 1.1288	0.9898 0.9903 1.1300			
94.3 -176.85 1.528				0.9814 0.9819 1.1204	0.9818 0.9824 1.1209	0.9823 0.9828 1.1214	0.9827 0.9832 1.1219	0.9831 0.9836 1.1224	0.9842 0.9847 1.1236	0.9852 0.9858 1.1248	0.9863 0.9868 1.1260	0.9873 0.9878 1.1272	0.9884 0.9889 1.1283	0.9894 0.9899 1.1295			
94.4 -176.75 1.543				0.9810 0.9815 1.1199	0.9814 0.9819 1.1204	0.9818 0.9824 1.1209	0.9822 0.9828 1.1214	0.9827 0.9832 1.1219	0.9837 0.9843 1.1231	0.9848 0.9853 1.1243	0.9859 0.9864 1.1255	0.9869 0.9874 1.1267	0.9879 0.9884 1.1278	0.9889 0.9894 1.1290			
94.5 -176.65 1.558				0.9805 0.9810 1.1194	0.9809 0.9815 1.1199	0.9814 0.9819 1.1204	0.9818 0.9823 1.1209	0.9822 0.9828 1.1213	0.9833 0.9838 1.1226	0.9844 0.9849 1.1238	0.9854 0.9860 1.1250	0.9865 0.9870 1.1262	0.9875 0.9880 1.1273	0.9885 0.9891 1.1285			
94.6 -176.55 1.572				0.9801 0.9806 1.1189	0.9805 0.9810 1.1194	0.9809 0.9815 1.1199	0.9814 0.9819 1.1203	0.9818 0.9823 1.1208	0.9829 0.9834 1.1221	0.9840 0.9845 1.1233	0.9850 0.9855 1.1245	0.9860 0.9866 1.1257	0.9871 0.9876 1.1269	0.9881 0.9886 1.1280			
94.7 -176.45 1.587				0.9796 0.9801 1.1183	0.9800 0.9806 1.1188	0.9805 0.9810 1.1193	0.9809 0.9814 1.1198	0.9813 0.9819 1.1203	0.9824 0.9830 1.1216	0.9835 0.9840 1.1228	0.9845 0.9851 1.1240	0.9856 0.9861 1.1252	0.9866 0.9872 1.1264	0.9877 0.9882 1.1275			
94.8 -176.35 1.602				0.9792 0.9797 1.1178	0.9796 0.9801 1.1183	0.9800 0.9806 1.1188	0.9805 0.9810 1.1193	0.9809 0.9814 1.1198	0.9820 0.9825 1.1210	0.9830 0.9836 1.1223	0.9841 0.9846 1.1235	0.9851 0.9857 1.1247	0.9862 0.9867 1.1259	0.9872 0.9878 1.1270			
94.9 -176.25 1.617				0.9787 0.9792 1.1173	0.9791 0.9797 1.1178	0.9796 0.9801 1.1183	0.9800 0.9806 1.1188	0.9804 0.9810 1.1193	0.9815 0.9821 1.1205	0.9826 0.9832 1.1218	0.9837 0.9842 1.1230	0.9847 0.9853 1.1242	0.9858 0.9863 1.1254	0.9868 0.9873 1.1265			
95.0 -176.15 1.633				0.9782 0.9788 1.1168	0.9787 0.9792 1.1173	0.9791 0.9797 1.1178	0.9796 0.9801 1.1183	0.9800 0.9805 1.1188	0.9811 0.9816 1.1200	0.9822 0.9827 1.1213	0.9832 0.9838 1.1225	0.9843 0.9848 1.1237	0.9853 0.9859 1.1249	0.9864 0.9869 1.1261			
95.1 -176.05 1.646				0.9778 0.9783 1.1163	0.9782 0.9788 1.1173	0.9787 0.9792 1.1178	0.9791 0.9797 1.1183	0.9796 0.9801 1.1188	0.9806 0.9812 1.1205	0.9817 0.9823 1.1218	0.9828 0.9833 1.1230	0.9838 0.9844 1.1242	0.9849 0.9854 1.1254	0.9859 0.9865 1.1265			
95.2 -175.95 1.663				0.9773 0.9779 1.1159	0.9778 0.9783 1.1163	0.9782 0.9788 1.1168	0.9787 0.9792 1.1173	0.9791 0.9796 1.1178	0.9802 0.9807 1.1190	0.9813 0.9818 1.1203	0.9823 0.9829 1.1215	0.9834 0.9839 1.1227	0.9845 0.9850 1.1239	0.9855 0.9860 1.1251			
95.3 -175.85 1.679				0.9769 0.9774 1.1152	0.9773 0.9779 1.1158	0.9778 0.9783 1.1163	0.9782 0.9788 1.1168	0.9787 0.9792 1.1173	0.9798 0.9803 1.1185	0.9808 0.9814 1.1197	0.9819 0.9824 1.1210	0.9830 0.9835 1.1222	0.9840 0.9845 1.1234	0.9851 0.9856 1.1246			
95.4 -175.75 1.695				0.9764 0.9770 1.1147	0.9769 0.9774 1.1152	0.9773 0.9778 1.1157	0.9778 0.9783 1.1163	0.9782 0.9787 1.1168	0.9793 0.9798 1.1180	0.9804 0.9809 1.1192	0.9815 0.9820 1.1205	0.9825 0.9831 1.1217	0.9836 0.9841 1.1229	0.9846 0.9852 1.1241			
95.5 -175.65 1.710				0.9760 0.9765 1.1142	0.9764 0.9770 1.1147	0.9769 0.9774 1.1152	0.9773 0.9778 1.1157	0.9778 0.9783 1.1162	0.9789 0.9794 1.1175	0.9799 0.9804 1.1187	0.9810 0.9815 1.1200	0.9821 0.9826 1.1212	0.9831 0.9836 1.1224	0.9842 0.9847 1.1236			
95.6 -175.55 1.726				0.9755 0.9761 1.1137	0.9760 0.9765 1.1142	0.9764 0.9770 1.1147	0.9769 0.9774 1.1152	0.9773 0.9778 1.1157	0.9784 0.9789 1.1170	0.9795 0.9800 1.1182	0.9806 0.9811 1.1195	0.9817 0.9822 1.1207	0.9827 0.9832 1.1219	0.9838 0.9843 1.1231			
95.7 -175.45 1.742				0.9751 0.9756 1.1132	0.9755 0.9761 1.1137	0.9760 0.9764 1.1142	0.9764 0.9769 1.1147	0.9769 0.9774 1.1152	0.9780 0.9785 1.1165	0.9791 0.9796 1.1177	0.9801 0.9806 1.1190	0.9812 0.9817 1.1202	0.9823 0.9828 1.1214	0.9833 0.9838 1.1226			
95.8 -175.35 1.758				0.9746 0.9752 1.1127	0.9751 0.9756 1.1132	0.9755 0.9761 1.1137	0.9760 0.9765 1.1142	0.9764 0.9769 1.1147	0.9775 0.9781 1.1160	0.9786 0.9792 1.1172	0.9797 0.9802 1.1185	0.9808 0.9813 1.1197	0.9818 0.9824 1.1209	0.9829 0.9834 1.1221			
95.9 -175.25 1.775				0.9742 0.9747 1.1121	0.9746 0.9752 1.1127	0.9751 0.9756 1.1132	0.9755 0.9761 1.1137	0.9760 0.9764 1.1142	0.9771 0.9776 1.1155	0.9782 0.9787 1.1167	0.9793 0.9798 1.1179	0.9803 0.9809 1.1192	0.9814 0.9819 1.1204	0.9825 0.9830 1.1216			

TABLE 4 - CONTINUED

DENSITY OF COMPRESSED LIQUID OXYGEN - CONTINUED

				TABLE ENTRIES											
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/DM ³											
BAR	0.800	1.000	2.000	4.000	6.000	8.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000		
KP/CM ²	0.816	1.020	2.039	4.079	6.118	8.158	10.197	15.296	20.394	25.493	30.591	35.690	40.789		
96.0			0.9737	0.9742	0.9746	0.9751	0.9755	0.9762	0.9777	0.9788	0.9799	0.9810	0.9820		
-177.15			0.9743	0.9747	0.9752	0.9756	0.9760	0.9766	0.9783	0.9794	0.9804	0.9815	0.9826		
1.791			1.1116	1.1121	1.1127	1.1132	1.1137	1.1146	1.1162	1.1174	1.1187	1.1195	1.1211		
96.1			0.9733	0.9737	0.9742	0.9746	0.9751	0.9756	0.9773	0.9784	0.9795	0.9805	0.9815		
-177.05			0.9738	0.9742	0.9747	0.9752	0.9756	0.9762	0.9778	0.9789	0.9800	0.9811	0.9821		
1.807			1.1111	1.1116	1.1121	1.1127	1.1132	1.1144	1.1157	1.1169	1.1182	1.1194	1.1208		
96.2			0.9728	0.9733	0.9737	0.9742	0.9746	0.9752	0.9768	0.9779	0.9790	0.9801	0.9812		
-176.95			0.9733	0.9738	0.9742	0.9747	0.9751	0.9756	0.9774	0.9785	0.9796	0.9806	0.9817		
1.824			1.1106	1.1111	1.1116	1.1121	1.1126	1.1135	1.1152	1.1164	1.1177	1.1189	1.1201		
96.3			0.9724	0.9728	0.9733	0.9737	0.9742	0.9753	0.9764	0.9775	0.9786	0.9797	0.9807		
-176.85			0.9729	0.9733	0.9738	0.9742	0.9747	0.9758	0.9769	0.9780	0.9791	0.9802	0.9813		
1.841			1.1101	1.1106	1.1111	1.1116	1.1121	1.1134	1.1147	1.1159	1.1172	1.1184	1.1196		
96.4			0.9719	0.9724	0.9728	0.9733	0.9737	0.9748	0.9759	0.9770	0.9781	0.9792	0.9803		
-176.75			0.9724	0.9729	0.9733	0.9738	0.9742	0.9754	0.9765	0.9776	0.9787	0.9798	0.9808		
1.857			1.1095	1.1101	1.1106	1.1111	1.1116	1.1125	1.1142	1.1154	1.1167	1.1175	1.1191		
96.5			0.9714	0.9719	0.9724	0.9728	0.9733	0.9744	0.9755	0.9766	0.9777	0.9788	0.9799		
-176.65			0.9720	0.9724	0.9729	0.9733	0.9738	0.9745	0.9756	0.9767	0.9778	0.9789	0.9800		
1.874			1.1090	1.1095	1.1101	1.1106	1.1111	1.1124	1.1137	1.1149	1.1162	1.1174	1.1188		
96.6			0.9710	0.9714	0.9719	0.9724	0.9728	0.9739	0.9751	0.9762	0.9773	0.9783	0.9794		
-176.55			0.9715	0.9720	0.9724	0.9729	0.9733	0.9744	0.9756	0.9767	0.9778	0.9789	0.9800		
1.891			1.1085	1.1090	1.1095	1.1101	1.1106	1.1115	1.1131	1.1144	1.1157	1.1165	1.1181		
96.7			0.9705	0.9710	0.9714	0.9719	0.9724	0.9735	0.9746	0.9757	0.9768	0.9779	0.9790		
-176.45			0.9711	0.9715	0.9720	0.9724	0.9729	0.9740	0.9751	0.9762	0.9773	0.9784	0.9795		
1.908			1.1080	1.1085	1.1090	1.1096	1.1101	1.1114	1.1126	1.1139	1.1152	1.1164	1.1176		
96.8			0.9701	0.9705	0.9710	0.9714	0.9719	0.9730	0.9742	0.9753	0.9764	0.9775	0.9785		
-176.35			0.9706	0.9711	0.9715	0.9720	0.9724	0.9736	0.9747	0.9758	0.9769	0.9780	0.9791		
1.926			1.1075	1.1080	1.1085	1.1090	1.1096	1.1108	1.1121	1.1134	1.1147	1.1155	1.1171		
96.9			0.9696	0.9701	0.9705	0.9710	0.9715	0.9726	0.9737	0.9748	0.9759	0.9770	0.9781		
-176.25			0.9701	0.9706	0.9711	0.9715	0.9720	0.9731	0.9742	0.9753	0.9764	0.9775	0.9786		
1.943			1.1069	1.1075	1.1080	1.1085	1.1090	1.1103	1.1116	1.1129	1.1141	1.1154	1.1166		
97.0			0.9692	0.9696	0.9701	0.9705	0.9710	0.9721	0.9733	0.9744	0.9755	0.9766	0.9777		
-176.15			0.9697	0.9701	0.9706	0.9711	0.9715	0.9727	0.9738	0.9749	0.9760	0.9771	0.9782		
1.961			1.1064	1.1069	1.1075	1.1080	1.1085	1.1097	1.1111	1.1124	1.1136	1.1149	1.1161		
97.1			0.9687	0.9692	0.9696	0.9701	0.9705	0.9717	0.9728	0.9739	0.9750	0.9761	0.9772		
-176.05			0.9692	0.9697	0.9702	0.9706	0.9711	0.9722	0.9733	0.9744	0.9755	0.9766	0.9777		
1.978			1.1059	1.1064	1.1070	1.1075	1.1080	1.1093	1.1106	1.1119	1.1131	1.1144	1.1156		
97.2			0.9682	0.9687	0.9692	0.9696	0.9701	0.9712	0.9724	0.9735	0.9746	0.9757	0.9768		
-175.95			0.9688	0.9692	0.9697	0.9702	0.9706	0.9718	0.9729	0.9740	0.9751	0.9762	0.9773		
1.996			1.1054	1.1059	1.1064	1.1070	1.1075	1.1088	1.1101	1.1114	1.1126	1.1139	1.1151		
97.3			0.9682	0.9687	0.9692	0.9696	0.9701	0.9712	0.9724	0.9735	0.9746	0.9757	0.9768		
-175.85			0.9688	0.9692	0.9697	0.9702	0.9706	0.9718	0.9729	0.9740	0.9751	0.9762	0.9773		
2.014			1.1054	1.1059	1.1064	1.1070	1.1075	1.1088	1.1101	1.1114	1.1126	1.1139	1.1151		
97.4			0.9678	0.9683	0.9687	0.9692	0.9696	0.9708	0.9719	0.9730	0.9741	0.9752	0.9763		
-175.75			0.9683	0.9688	0.9692	0.9697	0.9702	0.9714	0.9725	0.9736	0.9747	0.9758	0.9769		
2.032			1.1049	1.1054	1.1059	1.1064	1.1070	1.1082	1.1095	1.1107	1.1120	1.1132	1.1144		
97.5			0.9673	0.9678	0.9683	0.9687	0.9692	0.9704	0.9715	0.9726	0.9737	0.9748	0.9759		
-175.65			0.9679	0.9683	0.9688	0.9693	0.9698	0.9710	0.9721	0.9732	0.9743	0.9754	0.9765		
2.050			1.1043	1.1049	1.1054	1.1059	1.1069	1.1082	1.1095	1.1108	1.1121	1.1134	1.1146		
97.6			0.9669	0.9673	0.9678	0.9683	0.9688	0.9699	0.9710	0.9721	0.9732	0.9743	0.9754		
-175.55			0.9674	0.9679	0.9683	0.9688	0.9693	0.9705	0.9716	0.9727	0.9738	0.9749	0.9760		
2.068			1.1038	1.1043	1.1049	1.1054	1.1064	1.1077	1.1090	1.1103	1.1116	1.1129	1.1141		
97.7			0.9664	0.9669	0.9673	0.9678	0.9683	0.9694	0.9705	0.9716	0.9727	0.9738	0.9749		
-175.45			0.9669	0.9674	0.9679	0.9683	0.9688	0.9699	0.9710	0.9721	0.9732	0.9743	0.9754		
2.086			1.1033	1.1038	1.1044	1.1049	1.1059	1.1072	1.1085	1.1098	1.1111	1.1124	1.1136		
97.8			0.9659	0.9664	0.9669	0.9674	0.9679	0.9690	0.9701	0.9712	0.9723	0.9734	0.9745		
-175.35			0.9665	0.9669	0.9674	0.9679	0.9684	0.9695	0.9706	0.9717	0.9728	0.9739	0.9750		
2.105			1.1028	1.1033	1.1039	1.1044	1.1054	1.1067	1.1080	1.1093	1.1106	1.1119	1.1131		
97.9			0.9655	0.9660	0.9664	0.9669	0.9674	0.9685	0.9696	0.9707	0.9718	0.9729	0.9740		
-175.25			0.9660	0.9665	0.9670	0.9674	0.9679	0.9690	0.9701	0.9712	0.9723	0.9734	0.9745		
2.123			1.1022	1.1028	1.1033	1.1038	1.1048	1.1061	1.1074	1.1087	1.1100	1.1113	1.1125		

TABLE 4 - CONTINUED

DENSITY OF COMPRESSED LIQUID OXYGEN - CONTINUED

1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR		TABLE ENTRIES															
		1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS							2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS								
BAR KPa/Cm ²	0.800 0.816	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.187	15.000 15.299	20.000 20.394	25.000 25.493	30.000 30.591	35.000 35.690	40.000 40.789				
98.0 -175.15 2.142				0.9650 0.9656 1.1017	0.9655 0.9660 1.1022	0.9660 0.9665 1.1028	0.9664 0.9670 1.1033	0.9676 0.9681 1.1047	0.9688 0.9693 1.1060	0.9699 0.9704 1.1073	0.9710 0.9716 1.1086	0.9722 0.9727 1.1099	0.9733 0.9738 1.1112				
98.1 -175.05 2.161				0.9646 0.9651 1.1012	0.9650 0.9656 1.1017	0.9655 0.9660 1.1023	0.9660 0.9665 1.1028	0.9672 0.9677 1.1041	0.9683 0.9688 1.1055	0.9695 0.9700 1.1068	0.9706 0.9711 1.1081	0.9717 0.9723 1.1094	0.9728 0.9734 1.1106				
98.2 -174.95 2.180				0.9641 0.9646 1.1007	0.9646 0.9651 1.1012	0.9651 0.9656 1.1017	0.9655 0.9661 1.1023	0.9667 0.9672 1.1036	0.9679 0.9684 1.1049	0.9690 0.9695 1.1063	0.9702 0.9707 1.1076	0.9713 0.9718 1.1088	0.9724 0.9729 1.1101				
98.3 -174.85 2.199				0.9636 0.9642 1.1001	0.9641 0.9646 1.1007	0.9646 0.9651 1.1012	0.9651 0.9656 1.1018	0.9662 0.9668 1.1031	0.9674 0.9679 1.1044	0.9686 0.9691 1.1057	0.9697 0.9702 1.1071	0.9708 0.9714 1.1083	0.9720 0.9725 1.1096				
98.4 -174.75 2.218				0.9632 0.9637 1.0996	0.9637 0.9642 1.1001	0.9641 0.9646 1.1007	0.9646 0.9651 1.1012	0.9658 0.9663 1.1026	0.9670 0.9675 1.1039	0.9681 0.9686 1.1052	0.9693 0.9698 1.1065	0.9704 0.9709 1.1078	0.9715 0.9721 1.1091				
98.5 -174.65 2.237				0.9627 0.9632 1.0991	0.9632 0.9637 1.0996	0.9637 0.9642 1.1002	0.9642 0.9647 1.1007	0.9653 0.9658 1.1021	0.9665 0.9670 1.1034	0.9677 0.9682 1.1047	0.9688 0.9693 1.1060	0.9700 0.9705 1.1073	0.9711 0.9716 1.1086				
98.6 -174.55 2.257				0.9623 0.9628 1.0985	0.9627 0.9633 1.0991	0.9632 0.9637 1.0996	0.9637 0.9642 1.1002	0.9648 0.9654 1.1015	0.9661 0.9666 1.1029	0.9672 0.9677 1.1042	0.9684 0.9689 1.1055	0.9695 0.9700 1.1068	0.9706 0.9712 1.1081				
98.7 -174.45 2.276				0.9618 0.9623 1.0980	0.9623 0.9628 1.0986	0.9628 0.9633 1.0991	0.9632 0.9637 1.0997	0.9644 0.9649 1.1010	0.9656 0.9661 1.1024	0.9668 0.9673 1.1037	0.9679 0.9684 1.1050	0.9691 0.9696 1.1063	0.9702 0.9707 1.1076				
98.8 -174.35 2.296				0.9613 0.9619 1.0975	0.9618 0.9623 1.0980	0.9623 0.9628 1.0986	0.9628 0.9633 1.0991	0.9640 0.9645 1.1005	0.9652 0.9657 1.1018	0.9663 0.9668 1.1032	0.9675 0.9680 1.1045	0.9686 0.9692 1.1058	0.9698 0.9703 1.1071				
98.9 -174.25 2.316				0.9609 0.9614 1.0970	0.9614 0.9619 1.0975	0.9618 0.9624 1.0981	0.9623 0.9628 1.0986	0.9635 0.9640 1.1000	0.9647 0.9652 1.1013	0.9659 0.9664 1.1027	0.9670 0.9676 1.1040	0.9682 0.9687 1.1053	0.9693 0.9698 1.1066				
99.0 -174.15 2.336				0.9604 0.9609 1.0964	0.9609 0.9614 1.0970	0.9614 0.9619 1.0975	0.9619 0.9624 1.0981	0.9631 0.9636 1.0995	0.9642 0.9648 1.1008	0.9654 0.9659 1.1021	0.9666 0.9671 1.1035	0.9677 0.9683 1.1048	0.9689 0.9694 1.1061				
99.1 -174.05 2.356				0.9599 0.9605 1.0959	0.9604 0.9610 1.0964	0.9609 0.9614 1.0970	0.9614 0.9619 1.0976	0.9626 0.9631 1.0988	0.9638 0.9643 1.1003	0.9650 0.9655 1.1016	0.9661 0.9667 1.1029	0.9673 0.9678 1.1043	0.9684 0.9690 1.1056				
99.2 -173.95 2.376				0.9595 0.9600 1.0954	0.9600 0.9605 1.0959	0.9604 0.9610 1.0965	0.9609 0.9615 1.0970	0.9621 0.9627 1.0984	0.9633 0.9639 1.0998	0.9645 0.9650 1.1011	0.9657 0.9662 1.1025	0.9668 0.9674 1.1038	0.9680 0.9685 1.1051				
99.3 -173.85 2.396				0.9590 0.9595 1.0948	0.9604 0.9609 1.0954	0.9609 0.9615 1.0959	0.9615 0.9621 1.0965	0.9627 0.9633 1.0979	0.9639 0.9645 1.0992	0.9651 0.9656 1.1006	0.9662 0.9668 1.1019	0.9674 0.9680 1.1033	0.9686 0.9691 1.1046				
99.4 -173.75 2.417				0.9585 0.9591 1.0943	0.9590 0.9596 1.0949	0.9595 0.9600 1.0954	0.9600 0.9606 1.0960	0.9612 0.9617 1.0974	0.9624 0.9629 1.0987	0.9636 0.9641 1.1001	0.9648 0.9653 1.1014	0.9659 0.9665 1.1028	0.9671 0.9676 1.1041				
99.5 -173.65 2.438				0.9581 0.9586 1.0938	0.9586 0.9591 1.0943	0.9591 0.9596 1.0949	0.9596 0.9601 1.0954	0.9608 0.9613 1.0968	0.9620 0.9625 1.0982	0.9632 0.9637 1.0996	0.9643 0.9649 1.1009	0.9655 0.9660 1.1022	0.9667 0.9672 1.1036				
99.6 -173.55 2.458				0.9576 0.9581 1.0932	0.9581 0.9586 1.0938	0.9586 0.9591 1.0944	0.9591 0.9596 1.0949	0.9603 0.9608 1.0963	0.9615 0.9620 1.0977	0.9627 0.9632 1.0990	0.9639 0.9644 1.1004	0.9651 0.9656 1.1017	0.9662 0.9667 1.1031				
99.7 -173.45 2.479				0.9571 0.9577 1.0927	0.9576 0.9582 1.0933	0.9581 0.9587 1.0938	0.9586 0.9591 1.0944	0.9598 0.9604 1.0958	0.9611 0.9616 1.0972	0.9623 0.9628 1.0985	0.9634 0.9640 1.0999	0.9646 0.9651 1.1012	0.9658 0.9663 1.1025				
99.8 -173.35 2.500				0.9567 0.9572 1.0922	0.9572 0.9577 1.0927	0.9577 0.9582 1.0933	0.9582 0.9587 1.0939	0.9594 0.9599 1.0953	0.9606 0.9611 1.0966	0.9618 0.9623 1.0980	0.9630 0.9635 1.0994	0.9642 0.9647 1.1008	0.9653 0.9658 1.1020				
99.9 -173.25 2.521				0.9562 0.9567 1.0916	0.9567 0.9572 1.0922	0.9572 0.9577 1.0928	0.9577 0.9582 1.0933	0.9589 0.9594 1.0947	0.9601 0.9606 1.0961	0.9613 0.9618 1.0975	0.9625 0.9631 1.0989	0.9637 0.9642 1.1002	0.9649 0.9654 1.1015				

TABLE 4 - CONTINUED

DENSITY OF COMPRESSED LIQUID OXYGEN - CONTINUED

				TABLE ENTRIES									
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TCRR, DIMENSIONLESS 3. DENSITY, KG/M ³									
BAR K/PC/2	0.800 0.816	1.008 1.028	2.000 2.039	4.000 4.079	6.000 6.118	8.008 8.158	10.000 10.197	15.000 15.29E	20.000 20.354	25.000 25.443	30.000 30.591	35.000 35.690	40.000 40.789
100.0 -173.15 2.542				0.9557 0.9563 1.0911	0.9562 0.9568 1.0917	0.9567 0.9573 1.0922	0.9572 0.9578 1.0928	0.9585 0.9590 1.0942	0.9597 0.9602 1.0956	0.9609 0.9614 1.0970	0.9621 0.9626 1.0983	0.9633 0.9638 1.0997	0.9644 0.9650 1.1010
100.1 -173.85 2.564				0.9553 0.9558 1.0906	0.9558 0.9563 1.0911	0.9563 0.9568 1.0917	0.9568 0.9573 1.0923	0.9580 0.9585 1.0937	0.9592 0.9597 1.0951	0.9604 0.9610 1.0965	0.9616 0.9622 1.0978	0.9628 0.9633 1.0992	0.9640 0.9645 1.1005
100.2 -172.95 2.585				0.9548 0.9553 1.0900	0.9553 0.9558 1.0906	0.9558 0.9563 1.0912	0.9563 0.9568 1.0917	0.9575 0.9580 1.0932	0.9587 0.9593 1.094E	0.9600 0.9605 1.0959	0.9612 0.9617 1.0973	0.9624 0.9629 1.0987	0.9635 0.9641 1.1000
100.3 -172.85 2.607				0.9543 0.9549 1.0895	0.9548 0.9554 1.0901	0.9553 0.9559 1.0906	0.9558 0.9564 1.0912	0.9571 0.9576 1.0926	0.9583 0.9588 1.0940	0.9595 0.9600 1.0954	0.9607 0.9612 1.0968	0.9619 0.9624 1.0981	0.9631 0.9636 1.0995
100.4 -172.75 2.629				0.9539 0.9544 1.0890	0.9544 0.9549 1.0895	0.9549 0.9554 1.0901	0.9554 0.9559 1.0907	0.9566 0.9571 1.0921	0.9578 0.9584 1.0935	0.9591 0.9596 1.0949	0.9603 0.9608 1.0963	0.9615 0.9620 1.0976	0.9626 0.9632 1.0990
100.5 -172.65 2.651				0.9534 0.9539 1.0884	0.9539 0.9544 1.0890	0.9544 0.9549 1.0896	0.9549 0.9554 1.0901	0.9562 0.9567 1.0916	0.9574 0.9579 1.0930	0.9586 0.9591 1.0944	0.9598 0.9603 1.0958	0.9610 0.9615 1.0971	0.9622 0.9628 1.0986
100.6 -172.55 2.673				0.9529 0.9534 1.0879	0.9534 0.9539 1.0885	0.9539 0.9545 1.0890	0.9544 0.9550 1.0896	0.9557 0.9562 1.0911	0.9569 0.9574 1.0925	0.9582 0.9587 1.0939	0.9594 0.9599 1.0952	0.9606 0.9611 1.0966	0.9617 0.9623 1.0980
100.7 -172.45 2.695				0.9524 0.9529 1.0873	0.9530 0.9535 1.0879	0.9535 0.9540 1.0885	0.9540 0.9545 1.0891	0.9552 0.9557 1.0905	0.9565 0.9570 1.0919	0.9577 0.9582 1.0933	0.9589 0.9594 1.0947	0.9601 0.9606 1.0961	0.9613 0.9618 1.0974
100.8 -172.35 2.717				0.9520 0.9525 1.0868	0.9525 0.9530 1.0874	0.9530 0.9535 1.0880	0.9535 0.9540 1.0885	0.9548 0.9553 1.0900	0.9560 0.9565 1.0914	0.9572 0.9578 1.0928	0.9585 0.9590 1.0942	0.9597 0.9602 1.0956	0.9609 0.9614 1.0969
100.9 -172.25 2.740				0.9515 0.9520 1.0863	0.9520 0.9525 1.0868	0.9525 0.9530 1.0874	0.9530 0.9535 1.0880	0.9543 0.9548 1.0895	0.9555 0.9560 1.0909	0.9568 0.9573 1.0923	0.9580 0.9585 1.0937	0.9592 0.9597 1.0951	0.9604 0.9609 1.0964
101.0 -172.15 2.763				0.9510 0.9516 1.0857	0.9515 0.9521 1.0863	0.9521 0.9526 1.0869	0.9526 0.9531 1.0875	0.9538 0.9544 1.0888	0.9551 0.9556 1.0903	0.9563 0.9568 1.0918	0.9575 0.9581 1.0932	0.9588 0.9593 1.0945	0.9600 0.9605 1.0959
101.1 -172.05 2.785				0.9506 0.9511 1.0852	0.9511 0.9516 1.0858	0.9516 0.9521 1.0864	0.9521 0.9526 1.0869	0.9534 0.9539 1.0884	0.9546 0.9551 1.0898	0.9559 0.9564 1.0912	0.9571 0.9576 1.0926	0.9583 0.9588 1.0940	0.9595 0.9600 1.0954
101.2 -171.95 2.808				0.9501 0.9506 1.0846	0.9506 0.9511 1.0852	0.9511 0.9516 1.0858	0.9516 0.9521 1.0864	0.9528 0.9534 1.0877	0.9542 0.9547 1.0885	0.9554 0.9559 1.0907	0.9566 0.9572 1.0921	0.9578 0.9584 1.0935	0.9591 0.9596 1.0945
101.3 -171.85 2.831				0.9496 0.9501 1.0841	0.9501 0.9506 1.0847	0.9506 0.9511 1.0853	0.9511 0.9516 1.0859	0.9524 0.9529 1.0873	0.9537 0.9542 1.0888	0.9549 0.9554 1.0902	0.9562 0.9567 1.0916	0.9574 0.9579 1.0930	0.9586 0.9591 1.0944
101.4 -171.75 2.854				0.9491 0.9497 1.0836	0.9497 0.9502 1.0842	0.9502 0.9507 1.0847	0.9507 0.9512 1.0853	0.9520 0.9525 1.0868	0.9532 0.9538 1.0882	0.9545 0.9550 1.0897	0.9557 0.9562 1.0911	0.9569 0.9575 1.0925	0.9582 0.9587 1.0939
101.5 -171.65 2.878				0.9487 0.9492 1.0830	0.9492 0.9497 1.0836	0.9497 0.9502 1.0842	0.9502 0.9507 1.0848	0.9515 0.9520 1.0863	0.9528 0.9533 1.0877	0.9540 0.9545 1.0891	0.9553 0.9558 1.0906	0.9565 0.9570 1.0920	0.9577 0.9582 1.0933
101.6 -171.55 2.901				0.9482 0.9487 1.0825	0.9487 0.9492 1.0831	0.9492 0.9497 1.0837	0.9497 0.9503 1.0843	0.9510 0.9515 1.0857	0.9523 0.9528 1.0872	0.9536 0.9541 1.0886	0.9548 0.9553 1.0900	0.9560 0.9566 1.0914	0.9573 0.9578 1.0928
101.7 -171.45 2.925				0.9477 0.9482 1.0819	0.9482 0.9487 1.0825	0.9487 0.9493 1.0831	0.9493 0.9498 1.0837	0.9506 0.9511 1.0852	0.9518 0.9524 1.0866	0.9531 0.9536 1.0881	0.9543 0.9548 1.0905	0.9555 0.9561 1.0909	0.9568 0.9573 1.0923
101.8 -171.35 2.949				0.9472 0.9478 1.0814	0.9478 0.9483 1.0820	0.9483 0.9488 1.0826	0.9488 0.9493 1.0832	0.9501 0.9506 1.0847	0.9514 0.9519 1.0861	0.9526 0.9532 1.0876	0.9539 0.9544 1.0909	0.9551 0.9556 1.0914	0.9563 0.9569 1.0918
101.9 -171.25 2.972				0.9468 0.9473 1.0808	0.9473 0.9478 1.0814	0.9478 0.9483 1.0820	0.9483 0.9488 1.0826	0.9496 0.9501 1.0841	0.9509 0.9514 1.0856	0.9522 0.9527 1.0870	0.9534 0.9539 1.0885	0.9547 0.9552 1.0899	0.9559 0.9564 1.0913

TABLE 4 - CONTINUED

DENSITY OF COMPRESSED LIQUID OXYGEN - CONTINUED

				TABLE ENTRIES															
1. TEMPERATURE, K 2. TEMPERATURE, °C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/M ³															
BAR	0.800	1.000	2.000	4.000	6.000	8.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000						
KP/CM ²	0.816	1.020	2.039	4.079	6.118	8.158	10.197	15.296	20.394	25.493	30.591	35.690	40.789						
102.0 -171.15 2.997				0.9463 0.9468 1.0803	0.9468 0.9473 1.0809	0.9473 0.9479 1.0815	0.9479 0.9484 1.0821	0.9492 0.9497 1.0836	0.9504 0.9510 1.0851	0.9517 0.9522 1.0865	0.9530 0.9535 1.0879	0.9542 0.9547 1.0894	0.9554 0.9559 1.0908						
102.1 -171.05 3.021				0.9458 0.9463 1.0799	0.9463 0.9469 1.0804	0.9469 0.9474 1.0810	0.9474 0.9479 1.0816	0.9487 0.9492 1.0831	0.9500 0.9505 1.0845	0.9513 0.9518 1.0860	0.9525 0.9530 1.0874	0.9538 0.9543 1.0888	0.9550 0.9555 1.0902						
102.2 -170.95 3.045				0.9453 0.9458 1.0792	0.9459 0.9464 1.0798	0.9464 0.9469 1.0804	0.9469 0.9474 1.0810	0.9482 0.9487 1.0825	0.9495 0.9500 1.0840	0.9508 0.9513 1.0855	0.9521 0.9526 1.0869	0.9533 0.9538 1.0883	0.9545 0.9550 1.0897						
102.3 -170.85 3.079				0.9448 0.9454 1.0787	0.9454 0.9459 1.0793	0.9459 0.9464 1.0799	0.9464 0.9470 1.0805	0.9478 0.9483 1.0820	0.9490 0.9495 1.0835	0.9503 0.9508 1.0849	0.9516 0.9521 1.0864	0.9528 0.9533 1.0878	0.9541 0.9546 1.0892						
102.4 -170.75 3.094				0.9444 0.9449 1.0781	0.9449 0.9454 1.0787	0.9454 0.9460 1.0793	0.9460 0.9465 1.0799	0.9473 0.9478 1.0814	0.9486 0.9491 1.0829	0.9499 0.9504 1.0844	0.9511 0.9517 1.0858	0.9524 0.9529 1.0873	0.9536 0.9541 1.0887						
102.5 -170.65 3.119				0.9439 0.9444 1.0776	0.9444 0.9449 1.0782	0.9450 0.9455 1.0788	0.9455 0.9460 1.0794	0.9468 0.9473 1.0808	0.9481 0.9486 1.0824	0.9494 0.9499 1.0839	0.9507 0.9512 1.0853	0.9519 0.9525 1.0868	0.9532 0.9537 1.0882						
102.6 -170.55 3.144				0.9434 0.9439 1.0770	0.9439 0.9445 1.0776	0.9445 0.9450 1.0783	0.9450 0.9455 1.0789	0.9463 0.9468 1.0804	0.9476 0.9482 1.0819	0.9489 0.9495 1.0833	0.9502 0.9507 1.0848	0.9515 0.9521 1.0862	0.9527 0.9532 1.0877						
102.7 -170.45 3.169				0.9429 0.9434 1.0765	0.9435 0.9440 1.0771	0.9440 0.9445 1.0777	0.9445 0.9450 1.0783	0.9458 0.9463 1.0799	0.9472 0.9477 1.0813	0.9485 0.9490 1.0828	0.9498 0.9503 1.0843	0.9510 0.9515 1.0857	0.9523 0.9528 1.0871						
102.8 -170.35 3.194				0.9425 0.9430 1.0759	0.9430 0.9435 1.0765	0.9435 0.9440 1.0772	0.9441 0.9446 1.0778	0.9454 0.9459 1.0793	0.9467 0.9472 1.0808	0.9480 0.9485 1.0823	0.9493 0.9498 1.0837	0.9506 0.9511 1.0852	0.9518 0.9523 1.0866						
102.9 -170.25 3.219				0.9420 0.9425 1.0754	0.9425 0.9430 1.0760	0.9431 0.9436 1.0766	0.9436 0.9441 1.0772	0.9449 0.9454 1.0788	0.9462 0.9467 1.0803	0.9475 0.9480 1.0817	0.9488 0.9493 1.0832	0.9501 0.9506 1.0847	0.9514 0.9519 1.0861						
103.0 -170.15 3.245				0.9415 0.9420 1.0748	0.9420 0.9425 1.0755	0.9426 0.9431 1.0761	0.9431 0.9436 1.0767	0.9444 0.9449 1.0782	0.9458 0.9463 1.0797	0.9471 0.9476 1.0812	0.9484 0.9489 1.0827	0.9496 0.9502 1.0841	0.9509 0.9514 1.0856						
103.1 -170.05 3.271				0.9410 0.9415 1.0743	0.9416 0.9421 1.0749	0.9421 0.9426 1.0755	0.9426 0.9432 1.0761	0.9440 0.9445 1.0777	0.9453 0.9458 1.0792	0.9466 0.9471 1.0807	0.9479 0.9484 1.0822	0.9492 0.9497 1.0836	0.9504 0.9509 1.0851						
103.2 -169.95 3.296				0.9405 0.9410 1.0737	0.9411 0.9416 1.0744	0.9416 0.9421 1.0750	0.9422 0.9427 1.0756	0.9435 0.9440 1.0771	0.9448 0.9453 1.0786	0.9461 0.9467 1.0801	0.9474 0.9480 1.0816	0.9487 0.9492 1.0831	0.9500 0.9505 1.0845						
103.3 -169.85 3.322				0.9400 0.9405 1.0732	0.9406 0.9411 1.0738	0.9411 0.9416 1.0744	0.9417 0.9422 1.0751	0.9430 0.9435 1.0766	0.9444 0.9449 1.0781	0.9457 0.9462 1.0796	0.9470 0.9475 1.0811	0.9483 0.9488 1.0826	0.9495 0.9501 1.0840						
103.4 -169.75 3.348				0.9396 0.9401 1.0726	0.9401 0.9406 1.0733	0.9407 0.9412 1.0739	0.9412 0.9417 1.0745	0.9425 0.9431 1.0760	0.9439 0.9444 1.0776	0.9452 0.9457 1.0791	0.9465 0.9470 1.0806	0.9478 0.9483 1.0820	0.9491 0.9496 1.0835						
103.5 -169.65 3.375				0.9391 0.9396 1.0721	0.9396 0.9401 1.0727	0.9402 0.9407 1.0733	0.9407 0.9412 1.0740	0.9421 0.9426 1.0755	0.9434 0.9439 1.0770	0.9447 0.9453 1.0785	0.9460 0.9465 1.0800	0.9473 0.9479 1.0815	0.9486 0.9491 1.0830						
103.6 -169.55 3.401				0.9386 0.9391 1.0715	0.9391 0.9397 1.0722	0.9397 0.9402 1.0728	0.9402 0.9408 1.0734	0.9416 0.9421 1.0749	0.9429 0.9435 1.0765	0.9443 0.9448 1.0780	0.9456 0.9461 1.0795	0.9469 0.9474 1.0810	0.9482 0.9487 1.0824						
103.7 -169.45 3.428				0.9381 0.9386 1.0710	0.9387 0.9392 1.0716	0.9392 0.9397 1.0722	0.9398 0.9403 1.0729	0.9411 0.9416 1.0744	0.9425 0.9430 1.0760	0.9438 0.9443 1.0775	0.9451 0.9456 1.0790	0.9464 0.9469 1.0805	0.9477 0.9482 1.0819						
103.8 -169.35 3.454				0.9376 0.9381 1.0704	0.9382 0.9387 1.0711	0.9387 0.9392 1.0717	0.9393 0.9398 1.0723	0.9407 0.9412 1.0739	0.9420 0.9425 1.0755	0.9433 0.9438 1.0770	0.9447 0.9452 1.0784	0.9460 0.9465 1.0799	0.9472 0.9477 1.0814						
103.9 -169.25 3.481				0.9371 0.9376 1.0699	0.9377 0.9382 1.0705	0.9382 0.9388 1.0711	0.9388 0.9393 1.0718	0.9402 0.9407 1.0733	0.9415 0.9420 1.0749	0.9429 0.9434 1.0764	0.9442 0.9447 1.0779	0.9455 0.9460 1.0794	0.9468 0.9473 1.0809						

TABLE 4 - CONTINUED

DENSITY OF COMPRESSED LIQUID OXYGEN - CONTINUED

				TABLE ENTRIES															
1. TEMPERATURE, °K 2. TEMPERATURE, °C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TCRR, DIMENSIONLESS 3. DENSITY, KG/DN ³															
BAR	0.800	1.000	2.000	4.000	6.000	8.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000						
KP/CM ²	0.816	1.020	2.039	4.079	6.118	8.158	10.197	15.296	20.394	25.493	30.591	35.690	40.789						
104.0 -169.15 3.508				0.9366 0.9372 1.0693	0.9372 0.9377 1.0699	0.9378 0.9383 1.0706	0.9383 0.9388 1.0712	0.9397 0.9402 1.0722	0.9411 0.9416 1.0743	0.9424 0.9429 1.0759	0.9437 0.9442 1.0774	0.9450 0.9455 1.0789	0.9463 0.9468 1.0804						
104.1 -169.05 3.536				0.9362 0.9367 1.0687	0.9367 0.9372 1.0694	0.9373 0.9378 1.0700	0.9378 0.9384 1.0707	0.9392 0.9397 1.0722	0.9406 0.9411 1.0738	0.9419 0.9424 1.0753	0.9433 0.9438 1.0768	0.9446 0.9451 1.0783	0.9459 0.9464 1.0798						
104.2 -168.95 3.563				0.9357 0.9362 1.0682	0.9362 0.9367 1.0688	0.9368 0.9373 1.0695	0.9374 0.9379 1.0701	0.9387 0.9393 1.0717	0.9401 0.9406 1.0733	0.9415 0.9420 1.0748	0.9428 0.9433 1.0763	0.9441 0.9446 1.0778	0.9454 0.9459 1.0793						
104.3 -168.85 3.590				0.9352 0.9357 1.0676	0.9358 0.9363 1.0683	0.9363 0.9368 1.0689	0.9369 0.9374 1.0696	0.9383 0.9388 1.0711	0.9396 0.9401 1.0727	0.9410 0.9415 1.0743	0.9423 0.9428 1.0758	0.9436 0.9441 1.0773	0.9449 0.9454 1.0788						
104.4 -168.75 3.618				0.9347 0.9352 1.0671	0.9353 0.9358 1.0677	0.9358 0.9363 1.0684	0.9364 0.9369 1.0690	0.9378 0.9383 1.0706	0.9392 0.9397 1.0722	0.9405 0.9410 1.0737	0.9419 0.9424 1.0752	0.9432 0.9437 1.0767	0.9445 0.9450 1.0783						
104.5 -168.65 3.646				0.9342 0.9347 1.0665	0.9348 0.9353 1.0672	0.9353 0.9359 1.0678	0.9359 0.9364 1.0685	0.9373 0.9378 1.0701	0.9387 0.9392 1.0716	0.9400 0.9406 1.0732	0.9414 0.9419 1.0747	0.9427 0.9432 1.0762	0.9440 0.9445 1.0777						
104.6 -168.55 3.674				0.9337 0.9342 1.0660	0.9343 0.9348 1.0666	0.9349 0.9354 1.0673	0.9354 0.9359 1.0679	0.9368 0.9373 1.0695	0.9382 0.9387 1.0711	0.9396 0.9401 1.0726	0.9409 0.9414 1.0742	0.9422 0.9428 1.0757	0.9436 0.9441 1.0772						
104.7 -168.45 3.702				0.9332 0.9337 1.0654	0.9338 0.9343 1.0661	0.9344 0.9349 1.0667	0.9349 0.9354 1.0674	0.9363 0.9368 1.0690	0.9377 0.9382 1.0705	0.9391 0.9396 1.0721	0.9404 0.9410 1.0736	0.9418 0.9423 1.0752	0.9431 0.9436 1.0767						
104.8 -168.35 3.730				0.9327 0.9332 1.0648	0.9333 0.9338 1.0655	0.9339 0.9344 1.0662	0.9345 0.9350 1.0668	0.9359 0.9364 1.0684	0.9373 0.9378 1.0700	0.9386 0.9391 1.0716	0.9400 0.9405 1.0731	0.9413 0.9418 1.0746	0.9426 0.9431 1.0761						
104.9 -168.25 3.759				0.9322 0.9328 1.0643	0.9328 0.9333 1.0649	0.9334 0.9339 1.0656	0.9340 0.9345 1.0662	0.9354 0.9359 1.0679	0.9368 0.9373 1.0695	0.9381 0.9387 1.0710	0.9395 0.9400 1.0726	0.9408 0.9414 1.0741	0.9422 0.9427 1.0756						
105.0 -168.15 3.787				0.9318 0.9323 1.0637	0.9323 0.9328 1.0644	0.9329 0.9334 1.0650	0.9335 0.9340 1.0657	0.9349 0.9354 1.0673	0.9363 0.9368 1.0689	0.9377 0.9382 1.0702	0.9390 0.9395 1.0717	0.9404 0.9409 1.0732	0.9417 0.9422 1.0747						
105.1 -168.05 3.816				0.9313 0.9318 1.0632	0.9318 0.9324 1.0638	0.9324 0.9329 1.0645	0.9330 0.9335 1.0651	0.9344 0.9349 1.0666	0.9358 0.9363 1.0684	0.9372 0.9377 1.0699	0.9386 0.9391 1.0715	0.9399 0.9404 1.0730	0.9412 0.9418 1.0746						
105.2 -167.95 3.845				0.9308 0.9313 1.0626	0.9314 0.9319 1.0633	0.9319 0.9324 1.0639	0.9325 0.9330 1.0646	0.9339 0.9344 1.0662	0.9353 0.9358 1.0678	0.9367 0.9372 1.0694	0.9381 0.9386 1.0710	0.9394 0.9400 1.0725	0.9408 0.9413 1.0740						
105.3 -167.85 3.874				0.9303 0.9308 1.0620	0.9309 0.9314 1.0627	0.9314 0.9320 1.0634	0.9320 0.9325 1.0640	0.9334 0.9339 1.0657	0.9349 0.9354 1.0673	0.9362 0.9368 1.0688	0.9376 0.9381 1.0704	0.9390 0.9395 1.0720	0.9403 0.9408 1.0735						
105.4 -167.75 3.903				0.9298 0.9303 1.0615	0.9304 0.9309 1.0621	0.9310 0.9315 1.0628	0.9315 0.9320 1.0635	0.9329 0.9334 1.0651	0.9344 0.9349 1.0667	0.9358 0.9363 1.0683	0.9372 0.9377 1.0699	0.9385 0.9390 1.0714	0.9399 0.9404 1.0729						
105.5 -167.65 3.933				0.9293 0.9298 1.0609	0.9299 0.9304 1.0616	0.9305 0.9310 1.0622	0.9310 0.9316 1.0629	0.9325 0.9330 1.0645	0.9339 0.9344 1.0662	0.9353 0.9358 1.0678	0.9367 0.9372 1.0693	0.9380 0.9386 1.0709	0.9394 0.9399 1.0724						
105.6 -167.55 3.962				0.9288 0.9293 1.0603	0.9294 0.9299 1.0610	0.9300 0.9305 1.0617	0.9306 0.9311 1.0623	0.9320 0.9325 1.0640	0.9334 0.9339 1.0656	0.9348 0.9353 1.0672	0.9362 0.9367 1.0688	0.9376 0.9381 1.0704	0.9389 0.9394 1.0719						
105.7 -167.45 3.992				0.9283 0.9288 1.0598	0.9289 0.9294 1.0605	0.9295 0.9300 1.0611	0.9301 0.9306 1.0618	0.9315 0.9320 1.0634	0.9329 0.9334 1.0651	0.9343 0.9348 1.0667	0.9357 0.9362 1.0683	0.9371 0.9376 1.0698	0.9385 0.9390 1.0714						
105.8 -167.35 4.022				0.9284 0.9289 1.0599	0.9290 0.9295 1.0606	0.9296 0.9301 1.0612	0.9302 0.9307 1.0619	0.9316 0.9321 1.0635	0.9330 0.9335 1.0651	0.9344 0.9349 1.0667	0.9358 0.9363 1.0683	0.9372 0.9377 1.0699	0.9386 0.9391 1.0714						
105.9 -167.25 4.052				0.9279 0.9284 1.0593	0.9285 0.9290 1.0600	0.9291 0.9296 1.0607	0.9297 0.9302 1.0613	0.9311 0.9316 1.0629	0.9325 0.9330 1.0645	0.9339 0.9344 1.0661	0.9353 0.9358 1.0677	0.9367 0.9372 1.0693	0.9381 0.9386 1.0709						

TABLE 4 - CONTINUED

DENSITY OF COMPRESSED LIQUID OXYGEN - CONTINUED

		TABLE ENTRIES														
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR		1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/DM ³														
BAR K/CM ²	0.000 0.016	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.197	15.000 15.296	20.000 20.334	25.000 25.493	30.000 30.591	35.000 35.690	40.000 40.789			
106.0 -167.15 4.082					0.9274 0.9279 1.0568	0.9280 0.9285 1.0594	0.9286 0.9291 1.0601	0.9300 0.9306 1.0618	0.9315 0.9320 1.0634	0.9329 0.9334 1.0650	0.9343 0.9348 1.0668	0.9357 0.9362 1.0682	0.9371 0.9376 1.0698			
106.1 -167.05 4.113					0.9269 0.9274 1.0582	0.9275 0.9280 1.0589	0.9281 0.9286 1.0595	0.9296 0.9301 1.0612	0.9310 0.9315 1.0629	0.9324 0.9329 1.0645	0.9338 0.9343 1.0661	0.9352 0.9357 1.0677	0.9366 0.9371 1.0692			
106.2 -166.95 4.143					0.9264 0.9269 1.0576	0.9270 0.9275 1.0583	0.9276 0.9281 1.0590	0.9291 0.9296 1.0607	0.9305 0.9310 1.0623	0.9319 0.9325 1.0639	0.9334 0.9339 1.0655	0.9348 0.9353 1.0671	0.9361 0.9366 1.0687			
106.3 -166.85 4.174					0.9259 0.9264 1.0571	0.9265 0.9270 1.0577	0.9271 0.9276 1.0584	0.9286 0.9291 1.0601	0.9300 0.9305 1.0618	0.9315 0.9320 1.0634	0.9329 0.9334 1.0650	0.9343 0.9348 1.0666	0.9357 0.9362 1.0682			
106.4 -166.75 4.205					0.9254 0.9259 1.0565	0.9260 0.9265 1.0572	0.9266 0.9271 1.0579	0.9281 0.9286 1.0595	0.9296 0.9301 1.0612	0.9310 0.9315 1.0628	0.9324 0.9329 1.0645	0.9338 0.9343 1.0661	0.9352 0.9357 1.0677			
106.5 -166.65 4.236					0.9249 0.9254 1.0559	0.9255 0.9260 1.0566	0.9261 0.9266 1.0573	0.9276 0.9281 1.0590	0.9291 0.9296 1.0607	0.9305 0.9310 1.0623	0.9319 0.9324 1.0639	0.9333 0.9338 1.0655	0.9347 0.9352 1.0671			
106.6 -166.55 4.267					0.9244 0.9249 1.0554	0.9250 0.9255 1.0560	0.9256 0.9261 1.0567	0.9271 0.9276 1.0584	0.9286 0.9291 1.0601	0.9300 0.9305 1.0617	0.9315 0.9320 1.0634	0.9329 0.9334 1.0650	0.9342 0.9346 1.0666			
106.7 -166.45 4.299					0.9239 0.9244 1.0549	0.9245 0.9250 1.0555	0.9251 0.9256 1.0562	0.9266 0.9271 1.0575	0.9281 0.9286 1.0595	0.9295 0.9301 1.0612	0.9310 0.9315 1.0628	0.9324 0.9329 1.0644	0.9338 0.9343 1.0660			
106.8 -166.35 4.330					0.9234 0.9239 1.0542	0.9240 0.9245 1.0549	0.9246 0.9251 1.0556	0.9261 0.9266 1.0573	0.9276 0.9281 1.0590	0.9291 0.9296 1.0606	0.9305 0.9310 1.0623	0.9319 0.9324 1.0639	0.9333 0.9338 1.0655			
106.9 -166.25 4.362					0.9229 0.9234 1.0536	0.9235 0.9240 1.0543	0.9241 0.9246 1.0550	0.9256 0.9261 1.0567	0.9271 0.9276 1.0584	0.9286 0.9291 1.0601	0.9300 0.9305 1.0617	0.9314 0.9319 1.0634	0.9328 0.9333 1.0650			
107.0 -166.15 4.394					0.9224 0.9229 1.0531	0.9230 0.9235 1.0538	0.9237 0.9242 1.0545	0.9252 0.9257 1.0562	0.9266 0.9271 1.0579	0.9281 0.9286 1.0595	0.9295 0.9300 1.0612	0.9310 0.9315 1.0628	0.9324 0.9329 1.0644			
107.1 -166.05 4.426					0.9219 0.9224 1.0525	0.9225 0.9230 1.0532	0.9232 0.9237 1.0539	0.9247 0.9252 1.0556	0.9261 0.9267 1.0573	0.9276 0.9281 1.0590	0.9291 0.9296 1.0606	0.9305 0.9310 1.0623	0.9319 0.9324 1.0639			
107.2 -165.95 4.458					0.9214 0.9219 1.0519	0.9220 0.9225 1.0526	0.9227 0.9232 1.0533	0.9242 0.9247 1.0551	0.9257 0.9262 1.0568	0.9271 0.9276 1.0584	0.9286 0.9291 1.0601	0.9300 0.9305 1.0617	0.9314 0.9319 1.0633			
107.3 -165.85 4.491					0.9209 0.9214 1.0514	0.9215 0.9220 1.0521	0.9222 0.9227 1.0528	0.9237 0.9242 1.0546	0.9252 0.9257 1.0562	0.9266 0.9271 1.0579	0.9281 0.9286 1.0595	0.9295 0.9300 1.0612	0.9310 0.9315 1.0628			
107.4 -165.75 4.523					0.9204 0.9209 1.0508	0.9210 0.9215 1.0515	0.9217 0.9222 1.0522	0.9232 0.9237 1.0535	0.9247 0.9252 1.0556	0.9262 0.9267 1.0573	0.9276 0.9281 1.0590	0.9291 0.9296 1.0606	0.9305 0.9310 1.0623			
107.5 -165.65 4.556					0.9199 0.9204 1.0502	0.9205 0.9210 1.0509	0.9212 0.9217 1.0516	0.9227 0.9232 1.0534	0.9242 0.9247 1.0551	0.9257 0.9262 1.0568	0.9271 0.9276 1.0584	0.9286 0.9291 1.0601	0.9300 0.9305 1.0617			
107.6 -165.55 4.589					0.9194 0.9199 1.0496	0.9200 0.9205 1.0503	0.9207 0.9212 1.0511	0.9222 0.9227 1.0528	0.9237 0.9242 1.0545	0.9252 0.9257 1.0562	0.9267 0.9272 1.0579	0.9281 0.9286 1.0595	0.9295 0.9300 1.0612			
107.7 -165.45 4.622					0.9189 0.9194 1.0491	0.9195 0.9200 1.0498	0.9202 0.9207 1.0505	0.9217 0.9222 1.0522	0.9232 0.9237 1.0540	0.9247 0.9252 1.0557	0.9262 0.9267 1.0573	0.9276 0.9281 1.0590	0.9291 0.9296 1.0606			
107.8 -165.35 4.655					0.9184 0.9189 1.0485	0.9190 0.9195 1.0492	0.9197 0.9202 1.0499	0.9212 0.9217 1.0517	0.9227 0.9232 1.0534	0.9242 0.9247 1.0551	0.9257 0.9262 1.0568	0.9271 0.9276 1.0585	0.9286 0.9291 1.0601			
107.9 -165.25 4.689					0.9179 0.9184 1.0479	0.9185 0.9190 1.0486	0.9192 0.9197 1.0493	0.9207 0.9212 1.0511	0.9222 0.9227 1.0528	0.9237 0.9242 1.0546	0.9252 0.9257 1.0562	0.9267 0.9272 1.0579	0.9281 0.9286 1.0595			

TABLE 4 - CONTINUED

DENSITY OF COMPRESSED LIQUID OXYGEN - CONTINUED

TABLE ENTRIES				TABLE ENTRIES									
1. TEMPERATURE, K 2. TEMPERATURE, °C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/DM ³									
BAR	0.800	1.000	2.000	4.000	6.000	8.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000
KPa/CH2	0.816	1.020	2.039	4.079	6.118	8.158	10.197	15.296	20.394	25.493	30.591	35.690	40.789
108.0 -165.15 4.723					0.9174 0.9179 1.0473	0.9180 0.9185 1.0480	0.9187 0.9192 1.0488	0.9202 0.9207 1.0505	0.9217 0.9222 1.0523	0.9232 0.9237 1.0540	0.9247 0.9252 1.0557	0.9262 0.9267 1.0574	0.9276 0.9281 1.0590
108.1 -165.05 4.756					0.9169 0.9174 1.0467	0.9175 0.9180 1.0475	0.9182 0.9187 1.0482	0.9197 0.9202 1.0500	0.9212 0.9217 1.0517	0.9227 0.9233 1.0534	0.9242 0.9247 1.0551	0.9257 0.9262 1.0568	0.9272 0.9277 1.0585
108.2 -164.95 4.790					0.9164 0.9169 1.0462	0.9170 0.9175 1.0469	0.9176 0.9181 1.0476	0.9192 0.9197 1.0494	0.9207 0.9212 1.0511	0.9223 0.9228 1.0529	0.9238 0.9243 1.0546	0.9252 0.9257 1.0563	0.9267 0.9272 1.0579
108.3 -164.85 4.825					0.9159 0.9164 1.0456	0.9165 0.9170 1.0463	0.9171 0.9176 1.0470	0.9187 0.9192 1.0488	0.9202 0.9208 1.0506	0.9218 0.9223 1.0523	0.9233 0.9238 1.0540	0.9247 0.9252 1.0557	0.9262 0.9267 1.0574
108.4 -164.75 4.859					0.9154 0.9159 1.0450	0.9160 0.9165 1.0457	0.9166 0.9171 1.0465	0.9182 0.9187 1.0483	0.9198 0.9203 1.0500	0.9213 0.9218 1.0518	0.9228 0.9233 1.0535	0.9243 0.9248 1.0552	0.9257 0.9262 1.0568
108.5 -164.65 4.894					0.9149 0.9154 1.0444	0.9155 0.9160 1.0452	0.9161 0.9166 1.0459	0.9177 0.9182 1.0477	0.9193 0.9198 1.0495	0.9208 0.9213 1.0512	0.9223 0.9228 1.0529	0.9238 0.9243 1.0546	0.9252 0.9257 1.0563
108.6 -164.55 4.928					0.9143 0.9148 1.0438	0.9150 0.9155 1.0446	0.9156 0.9161 1.0453	0.9172 0.9177 1.0471	0.9188 0.9193 1.0489	0.9203 0.9208 1.0506	0.9218 0.9223 1.0523	0.9233 0.9238 1.0540	0.9248 0.9253 1.0557
108.7 -164.45 4.963					0.9138 0.9143 1.0433	0.9145 0.9150 1.0440	0.9151 0.9156 1.0447	0.9167 0.9172 1.0465	0.9183 0.9188 1.0483	0.9198 0.9203 1.0501	0.9213 0.9218 1.0518	0.9228 0.9233 1.0535	0.9243 0.9248 1.0552
108.8 -164.35 4.998					0.9133 0.9138 1.0427	0.9140 0.9145 1.0434	0.9146 0.9151 1.0442	0.9162 0.9167 1.0460	0.9178 0.9183 1.0478	0.9193 0.9198 1.0495	0.9208 0.9213 1.0512	0.9223 0.9228 1.0530	0.9238 0.9243 1.0546
108.9 -164.25 5.034					0.9128 0.9133 1.0421	0.9135 0.9140 1.0428	0.9141 0.9146 1.0436	0.9157 0.9162 1.0454	0.9173 0.9178 1.0472	0.9188 0.9193 1.0490	0.9203 0.9208 1.0507	0.9218 0.9223 1.0524	0.9233 0.9238 1.0541
109.0 -164.15 5.069					0.9123 0.9128 1.0415	0.9130 0.9135 1.0423	0.9136 0.9141 1.0430	0.9152 0.9157 1.0448	0.9168 0.9173 1.0466	0.9183 0.9188 1.0484	0.9199 0.9204 1.0501	0.9214 0.9219 1.0519	0.9229 0.9234 1.0536
109.1 -164.05 5.105					0.9118 0.9123 1.0405	0.9124 0.9129 1.0417	0.9131 0.9136 1.0424	0.9147 0.9152 1.0442	0.9163 0.9168 1.0460	0.9178 0.9183 1.0478	0.9194 0.9199 1.0496	0.9209 0.9214 1.0513	0.9224 0.9229 1.0530
109.2 -163.95 5.141					0.9113 0.9118 1.0403	0.9119 0.9124 1.0411	0.9126 0.9131 1.0418	0.9142 0.9147 1.0437	0.9158 0.9163 1.0455	0.9173 0.9178 1.0473	0.9189 0.9194 1.0490	0.9204 0.9209 1.0507	0.9219 0.9224 1.0525
109.3 -163.85 5.177					0.9108 0.9108 1.0398	0.9114 0.9119 1.0405	0.9121 0.9126 1.0412	0.9137 0.9142 1.0431	0.9153 0.9158 1.0449	0.9168 0.9173 1.0467	0.9184 0.9189 1.0485	0.9199 0.9204 1.0502	0.9214 0.9219 1.0519
109.4 -163.75 5.213					0.9102 0.9107 1.0392	0.9109 0.9114 1.0399	0.9116 0.9121 1.0407	0.9132 0.9137 1.0425	0.9148 0.9153 1.0443	0.9163 0.9168 1.0461	0.9179 0.9184 1.0479	0.9194 0.9199 1.0496	0.9209 0.9214 1.0514
109.5 -163.65 5.249					0.9097 0.9102 1.0386	0.9104 0.9109 1.0393	0.9111 0.9116 1.0401	0.9127 0.9132 1.0419	0.9143 0.9148 1.0438	0.9159 0.9164 1.0456	0.9174 0.9179 1.0473	0.9189 0.9194 1.0491	0.9204 0.9209 1.0508
109.6 -163.55 5.286					0.9092 0.9097 1.0380	0.9099 0.9104 1.0387	0.9105 0.9110 1.0395	0.9122 0.9127 1.0414	0.9138 0.9143 1.0432	0.9154 0.9159 1.0450	0.9169 0.9174 1.0468	0.9184 0.9189 1.0485	0.9200 0.9205 1.0503
109.7 -163.45 5.323					0.9087 0.9092 1.0374	0.9094 0.9099 1.0382	0.9100 0.9105 1.0389	0.9117 0.9122 1.0408	0.9133 0.9138 1.0426	0.9149 0.9154 1.0444	0.9164 0.9169 1.0462	0.9180 0.9185 1.0480	0.9195 0.9200 1.0497
109.8 -163.35 5.359					0.9082 0.9087 1.0368	0.9088 0.9093 1.0376	0.9095 0.9100 1.0383	0.9112 0.9117 1.0402	0.9128 0.9133 1.0420	0.9144 0.9149 1.0439	0.9159 0.9164 1.0456	0.9175 0.9180 1.0474	0.9190 0.9195 1.0492
109.9 -163.25 5.397					0.9077 0.9082 1.0362	0.9083 0.9088 1.0370	0.9090 0.9095 1.0377	0.9106 0.9111 1.0396	0.9123 0.9128 1.0415	0.9139 0.9144 1.0433	0.9154 0.9159 1.0451	0.9170 0.9175 1.0469	0.9185 0.9190 1.0486

TABLE 4 - CONTINUED

DENSITY OF COMPRESSED LIQUID OXYGEN - CONTINUED

1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR		TABLE ENTRIES 1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/M ³														
BAR K/P/CM ²	0.800 0.816	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.197	15.000 15.296	20.000 20.394	25.000 25.493	30.000 30.591	35.000 35.690	40.000 40.789			
110.0 -162.95 5.434					0.9071 0.9076 1.0356	0.9078 0.9083 1.0372	0.9085 0.9093 1.0390	0.9101 0.9115 1.0409	0.9118 0.9139 1.0427	0.9134 0.9159 1.0445	0.9149 0.9178 1.0463	0.9165 0.9196 1.0480	0.9180 0.9218 1.0498			
110.1 -163.05 5.471					0.9066 0.9071 1.0350	0.9073 0.9078 1.0358	0.9080 0.9085 1.0365	0.9096 0.9101 1.0385	0.9113 0.9118 1.0403	0.9129 0.9134 1.0422	0.9144 0.9149 1.0440	0.9160 0.9165 1.0457	0.9175 0.9180 1.0475			
110.2 -162.95 5.509					0.9061 0.9066 1.0344	0.9068 0.9073 1.0352	0.9075 0.9080 1.0360	0.9091 0.9096 1.0379	0.9108 0.9113 1.0397	0.9124 0.9129 1.0416	0.9140 0.9144 1.0434	0.9155 0.9160 1.0452	0.9171 0.9176 1.0469			
110.3 -162.85 5.547					0.9056 0.9061 1.0338	0.9063 0.9068 1.0346	0.9069 0.9074 1.0354	0.9086 0.9091 1.0373	0.9102 0.9107 1.0392	0.9119 0.9124 1.0410	0.9135 0.9140 1.0428	0.9150 0.9155 1.0446	0.9166 0.9171 1.0464			
110.4 -162.75 5.585					0.9051 0.9056 1.0332	0.9057 0.9062 1.0340	0.9064 0.9069 1.0348	0.9081 0.9086 1.0367	0.9097 0.9102 1.0386	0.9114 0.9119 1.0404	0.9130 0.9135 1.0423	0.9145 0.9150 1.0441	0.9161 0.9166 1.0458			
110.5 -162.65 5.623					0.9045 0.9050 1.0326	0.9052 0.9057 1.0334	0.9059 0.9064 1.0342	0.9076 0.9081 1.0361	0.9092 0.9097 1.0380	0.9109 0.9114 1.0399	0.9125 0.9130 1.0417	0.9140 0.9145 1.0435	0.9156 0.9161 1.0453			
110.6 -162.55 5.662					0.9040 0.9045 1.0321	0.9047 0.9052 1.0328	0.9054 0.9059 1.0336	0.9071 0.9076 1.0355	0.9087 0.9092 1.0374	0.9104 0.9109 1.0393	0.9120 0.9125 1.0411	0.9135 0.9140 1.0429	0.9151 0.9156 1.0447			
110.7 -162.45 5.700					0.9035 0.9040 1.0315	0.9042 0.9047 1.0322	0.9049 0.9054 1.0330	0.9066 0.9071 1.0350	0.9082 0.9087 1.0368	0.9099 0.9104 1.0387	0.9115 0.9120 1.0406	0.9131 0.9136 1.0424	0.9146 0.9151 1.0442			
110.8 -162.35 5.739					0.9030 0.9035 1.0309	0.9037 0.9042 1.0316	0.9043 0.9048 1.0324	0.9060 0.9065 1.0343	0.9077 0.9082 1.0361	0.9094 0.9099 1.0381	0.9110 0.9115 1.0400	0.9126 0.9131 1.0418	0.9141 0.9146 1.0436			
110.9 -162.25 5.778					0.9024 0.9029 1.0303	0.9031 0.9036 1.0310	0.9038 0.9043 1.0318	0.9055 0.9060 1.0337	0.9072 0.9077 1.0357	0.9088 0.9093 1.0376	0.9105 0.9110 1.0394	0.9121 0.9126 1.0412	0.9136 0.9141 1.0430			
111.0 -162.15 5.818					0.9019 0.9024 1.0297	0.9026 0.9031 1.0305	0.9033 0.9038 1.0312	0.9050 0.9055 1.0332	0.9067 0.9072 1.0351	0.9083 0.9088 1.0370	0.9100 0.9105 1.0388	0.9116 0.9121 1.0407	0.9131 0.9136 1.0425			
111.1 -162.05 5.857					0.9014 0.9019 1.0291	0.9021 0.9026 1.0299	0.9028 0.9033 1.0306	0.9045 0.9050 1.0326	0.9062 0.9067 1.0345	0.9078 0.9083 1.0364	0.9095 0.9100 1.0383	0.9111 0.9116 1.0401	0.9127 0.9132 1.0419			
111.2 -161.95 5.897					0.9009 0.9014 1.0285	0.9016 0.9021 1.0293	0.9023 0.9028 1.0300	0.9040 0.9045 1.0320	0.9057 0.9062 1.0339	0.9073 0.9078 1.0358	0.9090 0.9095 1.0377	0.9106 0.9111 1.0395	0.9122 0.9127 1.0414			
111.3 -161.85 5.936					0.9003 0.9008 1.0279	0.9010 0.9015 1.0287	0.9017 0.9022 1.0295	0.9035 0.9040 1.0314	0.9052 0.9057 1.0334	0.9068 0.9073 1.0353	0.9085 0.9090 1.0371	0.9101 0.9106 1.0390	0.9117 0.9122 1.0408			
111.4 -161.75 5.976					0.8998 0.9003 1.0272	0.9005 0.9010 1.0281	0.9012 0.9017 1.0289	0.9029 0.9034 1.0308	0.9046 0.9051 1.0328	0.9063 0.9068 1.0347	0.9080 0.9085 1.0366	0.9096 0.9101 1.0384	0.9112 0.9117 1.0402			
111.5 -161.65 6.017					0.9000 0.9005 1.0275	0.9007 0.9012 1.0283	0.9014 0.9019 1.0292	0.9032 0.9037 1.0312	0.9049 0.9054 1.0332	0.9066 0.9071 1.0351	0.9083 0.9088 1.0370	0.9099 0.9104 1.0389	0.9115 0.9120 1.0407			
111.6 -161.55 6.057					0.8995 0.9000 1.0268	0.9002 0.9007 1.0277	0.9009 0.9014 1.0286	0.9026 0.9031 1.0306	0.9043 0.9048 1.0326	0.9060 0.9065 1.0345	0.9077 0.9082 1.0364	0.9093 0.9098 1.0383	0.9109 0.9114 1.0401			
111.7 -161.45 6.099					0.8989 0.8994 1.0262	0.8996 0.9001 1.0271	0.9003 0.9008 1.0279	0.9020 0.9025 1.0299	0.9037 0.9042 1.0319	0.9054 0.9059 1.0338	0.9071 0.9076 1.0357	0.9087 0.9092 1.0376	0.9103 0.9108 1.0395			
111.8 -161.35 6.139					0.8984 0.8989 1.0256	0.8991 0.8996 1.0265	0.8998 0.9003 1.0274	0.9015 0.9020 1.0294	0.9032 0.9037 1.0314	0.9049 0.9054 1.0334	0.9066 0.9071 1.0353	0.9082 0.9087 1.0372	0.9098 0.9103 1.0391			
111.9 -161.25 6.180					0.8979 0.8984 1.0250	0.8986 0.8991 1.0259	0.8993 0.8998 1.0267	0.9010 0.9015 1.0287	0.9027 0.9032 1.0307	0.9044 0.9049 1.0326	0.9061 0.9066 1.0345	0.9077 0.9082 1.0364	0.9093 0.9098 1.0383			

TABLE 4 - CONTINUED

DENSITY OF COMPRESSED LIQUID OXYGEN - CONTINUED

TABLE ENTRIES				TABLE ENTRIES											
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/CM ³											
BAR	0.800	1.000	2.000	4.000	6.000	8.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000		
KP/CM ²	0.816	1.020	2.039	4.079	6.118	8.158	10.197	15.296	20.394	25.493	30.591	35.690	40.789		
112.0						0.8973	0.8981	0.8998	0.9016	0.9033	0.9049	0.9066	0.9082		
-161.15						0.8970	0.8985	0.9003	0.9021	0.9038	0.9054	0.9071	0.9087		
6.221						1.0244	1.0252	1.0273	1.0292	1.0312	1.0331	1.0350	1.0369		
112.1						0.8968	0.8975	0.8993	0.9010	0.9028	0.9044	0.9061	0.9077		
-161.05						0.8973	0.8980	0.8998	0.9015	0.9032	0.9049	0.9066	0.9082		
6.262						1.0238	1.0246	1.0267	1.0287	1.0306	1.0325	1.0344	1.0363		
112.2						0.8963	0.8970	0.8988	0.9005	0.9022	0.9039	0.9056	0.9072		
-160.95						0.8968	0.8975	0.8993	0.9010	0.9027	0.9044	0.9061	0.9077		
6.304						1.0232	1.0240	1.0261	1.0281	1.0300	1.0320	1.0339	1.0357		
112.3						0.8957	0.8965	0.8983	0.9000	0.9017	0.9034	0.9051	0.9067		
-160.85						0.8962	0.8970	0.8987	0.9005	0.9022	0.9039	0.9056	0.9072		
6.346						1.0226	1.0234	1.0255	1.0275	1.0294	1.0314	1.0333	1.0352		
112.4						0.8952	0.8959	0.8977	0.8995	0.9012	0.9029	0.9046	0.9062		
-160.75						0.8957	0.8964	0.8982	0.9000	0.9017	0.9034	0.9051	0.9067		
6.388						1.0220	1.0228	1.0249	1.0269	1.0289	1.0308	1.0327	1.0346		
112.5						0.8947	0.8954	0.8972	0.8989	0.9007	0.9024	0.9041	0.9057		
-160.65						0.8952	0.8959	0.8977	0.8995	0.9012	0.9029	0.9046	0.9062		
6.430						1.0214	1.0222	1.0243	1.0263	1.0283	1.0302	1.0321	1.0340		
112.6						0.8941	0.8949	0.8967	0.8984	0.9002	0.9019	0.9036	0.9052		
-160.55						0.8946	0.8954	0.8972	0.8989	0.9007	0.9024	0.9041	0.9057		
6.472						1.0208	1.0216	1.0237	1.0257	1.0277	1.0296	1.0316	1.0335		
112.7						0.8936	0.8943	0.8962	0.8979	0.8997	0.9014	0.9031	0.9047		
-160.45						0.8941	0.8948	0.8966	0.8984	0.9002	0.9019	0.9036	0.9052		
6.515						1.0202	1.0210	1.0231	1.0251	1.0271	1.0291	1.0310	1.0329		
112.8						0.8931	0.8938	0.8956	0.8974	0.8992	0.9009	0.9026	0.9042		
-160.35						0.8936	0.8943	0.8961	0.8979	0.8997	0.9014	0.9031	0.9047		
6.558						1.0196	1.0204	1.0225	1.0245	1.0265	1.0285	1.0304	1.0323		
112.9						0.8925	0.8933	0.8951	0.8969	0.8986	0.9004	0.9021	0.9037		
-160.25						0.8930	0.8938	0.8956	0.8974	0.8991	0.9009	0.9026	0.9042		
6.601						1.0189	1.0198	1.0219	1.0239	1.0259	1.0279	1.0298	1.0317		
113.0						0.8920	0.8927	0.8946	0.8964	0.8981	0.8999	0.9016	0.9032		
-160.15						0.8925	0.8932	0.8951	0.8969	0.8986	0.9004	0.9021	0.9037		
6.644						1.0183	1.0192	1.0213	1.0233	1.0253	1.0273	1.0293	1.0312		
113.1						0.8915	0.8922	0.8940	0.8958	0.8976	0.8993	0.9011	0.9027		
-160.05						0.8919	0.8927	0.8945	0.8963	0.8981	0.8998	0.9016	0.9032		
6.687						1.0177	1.0186	1.0207	1.0227	1.0247	1.0267	1.0287	1.0306		
113.2						0.8909	0.8917	0.8935	0.8953	0.8971	0.8988	0.9006	0.9022		
-159.95						0.8914	0.8922	0.8940	0.8958	0.8976	0.8993	0.9010	0.9027		
6.731						1.0171	1.0180	1.0201	1.0221	1.0241	1.0261	1.0281	1.0300		
113.3						0.8904	0.8911	0.8930	0.8948	0.8966	0.8983	0.9000	0.9017		
-159.85						0.8909	0.8916	0.8935	0.8953	0.8971	0.8988	0.9005	0.9022		
6.775						1.0165	1.0173	1.0194	1.0215	1.0236	1.0256	1.0275	1.0295		
113.4						0.8899	0.8906	0.8924	0.8943	0.8961	0.8978	0.8995	0.9012		
-159.75						0.8903	0.8911	0.8929	0.8948	0.8965	0.8983	0.9000	0.9017		
6.819						1.0159	1.0167	1.0188	1.0209	1.0230	1.0250	1.0269	1.0288		
113.5						0.8893	0.8901	0.8919	0.8937	0.8955	0.8973	0.8990	0.9007		
-159.65						0.8898	0.8905	0.8924	0.8942	0.8960	0.8978	0.8995	0.9012		
6.863						1.0152	1.0161	1.0182	1.0203	1.0224	1.0244	1.0264	1.0283		
113.6						0.8888	0.8895	0.8914	0.8932	0.8950	0.8968	0.8985	0.9002		
-159.55						0.8892	0.8900	0.8919	0.8937	0.8955	0.8973	0.8990	0.9007		
6.908						1.0146	1.0155	1.0176	1.0197	1.0217	1.0238	1.0258	1.0277		
113.7						0.8882	0.8890	0.8908	0.8927	0.8945	0.8963	0.8980	0.8997		
-159.45						0.8887	0.8895	0.8913	0.8932	0.8950	0.8968	0.8985	0.9002		
6.952						1.0140	1.0149	1.0170	1.0191	1.0212	1.0232	1.0252	1.0272		
113.8						0.8877	0.8884	0.8903	0.8922	0.8940	0.8957	0.8975	0.8992		
-159.35						0.8882	0.8890	0.8908	0.8926	0.8945	0.8962	0.8980	0.8997		
6.997						1.0134	1.0143	1.0164	1.0185	1.0206	1.0226	1.0246	1.0266		
113.9						0.8871	0.8879	0.8898	0.8916	0.8934	0.8952	0.8970	0.8987		
-159.25						0.8876	0.8884	0.8903	0.8921	0.8939	0.8957	0.8975	0.8992		
7.042						1.0129	1.0138	1.0158	1.0179	1.0200	1.0220	1.0240	1.0260		

TABLE 4 - CONTINUED

DENSITY OF COMPRESSED LIQUID OXYGEN - CONTINUED

		TABLE ENTRIES											
1. TEMPERATURE, °K 2. TEMPERATURE, °C 3. VAPOR PRESSURE, BAR		1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/DM ³											
BAR	0.800	1.000	2.000	4.000	6.000	8.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000
KPa/cm ²	0.816	1.020	2.039	4.079	6.118	8.158	10.197	15.296	20.394	25.493	30.591	35.690	40.789
114.0 -150.15 7.086						0.8866 0.8871 1.0121	0.8873 0.8878 1.0130	0.8892 0.8897 1.0152	0.8911 0.8916 1.0173	0.8929 0.8934 1.0194	0.8947 0.8952 1.0214	0.8965 0.8970 1.0234	0.8982 0.8987 1.0254
114.1 -150.05 7.133						0.8860 0.8865 1.0115	0.8868 0.8873 1.0124	0.8887 0.8892 1.0146	0.8906 0.8911 1.0167	0.8924 0.8929 1.0188	0.8942 0.8947 1.0208	0.8960 0.8965 1.0229	0.8977 0.8982 1.0248
114.2 -150.95 7.179						0.8855 0.8860 1.0109	0.8863 0.8868 1.0118	0.8882 0.8887 1.0140	0.8900 0.8905 1.0161	0.8919 0.8924 1.0182	0.8937 0.8942 1.0202	0.8955 0.8960 1.0223	0.8972 0.8977 1.0243
114.3 -150.85 7.225						0.8849 0.8854 1.0103	0.8857 0.8862 1.0112	0.8876 0.8881 1.0133	0.8895 0.8900 1.0155	0.8913 0.8918 1.0176	0.8932 0.8936 1.0197	0.8949 0.8954 1.0217	0.8967 0.8972 1.0237
114.4 -150.75 7.271						0.8844 0.8849 1.0096	0.8852 0.8856 1.0105	0.8871 0.8876 1.0127	0.8890 0.8895 1.0149	0.8908 0.8913 1.0170	0.8926 0.8931 1.0191	0.8944 0.8949 1.0211	0.8962 0.8967 1.0231
114.5 -150.65 7.317						0.8838 0.8843 1.0090	0.8846 0.8851 1.0099	0.8865 0.8870 1.0121	0.8884 0.8889 1.0143	0.8903 0.8908 1.0164	0.8921 0.8926 1.0185	0.8939 0.8944 1.0205	0.8957 0.8962 1.0225
114.6 -150.56 7.364						0.8833 0.8838 1.0084	0.8841 0.8846 1.0093	0.8860 0.8865 1.0115	0.8879 0.8884 1.0137	0.8898 0.8903 1.0158	0.8916 0.8921 1.0179	0.8934 0.8939 1.0199	0.8952 0.8956 1.0219
114.7 -150.45 7.411						0.8827 0.8832 1.0077	0.8835 0.8840 1.0086	0.8855 0.8860 1.0109	0.8874 0.8879 1.0130	0.8892 0.8897 1.0152	0.8911 0.8916 1.0173	0.8929 0.8934 1.0193	0.8946 0.8951 1.0214
114.8 -150.35 7.458						0.8822 0.8827 1.0071	0.8830 0.8835 1.0080	0.8849 0.8854 1.0102	0.8868 0.8873 1.0124	0.8887 0.8892 1.0146	0.8905 0.8910 1.0167	0.8924 0.8928 1.0187	0.8941 0.8946 1.0208
114.9 -150.25 7.505						0.8816 0.8821 1.0065	0.8824 0.8829 1.0074	0.8844 0.8849 1.0096	0.8863 0.8868 1.0118	0.8882 0.8887 1.0140	0.8900 0.8905 1.0161	0.8918 0.8923 1.0182	0.8936 0.8941 1.0202
115.0 -150.15 7.552						0.8811 0.8815 1.0059	0.8819 0.8823 1.0068	0.8838 0.8843 1.0090	0.8858 0.8862 1.0112	0.8876 0.8881 1.0134	0.8895 0.8900 1.0155	0.8913 0.8918 1.0176	0.8931 0.8936 1.0196
115.1 -150.05 7.600						0.8805 0.8810 1.0052	0.8813 0.8818 1.0061	0.8833 0.8838 1.0084	0.8852 0.8857 1.0106	0.8871 0.8876 1.0128	0.8890 0.8895 1.0149	0.8908 0.8913 1.0170	0.8926 0.8931 1.0191
115.2 -150.95 7.648						0.8800 0.8804 1.0046	0.8808 0.8812 1.0055	0.8827 0.8832 1.0076	0.8847 0.8852 1.0100	0.8866 0.8871 1.0121	0.8885 0.8890 1.0143	0.8903 0.8908 1.0164	0.8921 0.8926 1.0184
115.3 -150.85 7.696						0.8794 0.8799 1.0039	0.8802 0.8807 1.0048	0.8822 0.8827 1.0071	0.8841 0.8846 1.0094	0.8861 0.8866 1.0115	0.8879 0.8884 1.0137	0.8898 0.8903 1.0158	0.8916 0.8921 1.0178
115.4 -150.75 7.744						0.8788 0.8793 1.0033	0.8797 0.8801 1.0042	0.8816 0.8821 1.0065	0.8836 0.8841 1.0087	0.8855 0.8860 1.0109	0.8874 0.8879 1.0131	0.8892 0.8897 1.0152	0.8911 0.8915 1.0173
115.5 -150.65 7.793						0.8783 0.8788 1.0027	0.8791 0.8796 1.0036	0.8811 0.8816 1.0055	0.8831 0.8836 1.0081	0.8850 0.8855 1.0103	0.8869 0.8874 1.0125	0.8887 0.8892 1.0146	0.8905 0.8910 1.0167
115.6 -150.55 7.842						0.8777 0.8782 1.0020	0.8785 0.8790 1.0030	0.8805 0.8810 1.0053	0.8825 0.8830 1.0075	0.8844 0.8849 1.0097	0.8863 0.8868 1.0119	0.8882 0.8887 1.0140	0.8900 0.8905 1.0161
115.7 -150.45 7.891						0.8772 0.8776 1.0014	0.8780 0.8785 1.0023	0.8800 0.8804 1.0046	0.8820 0.8825 1.0069	0.8839 0.8844 1.0091	0.8858 0.8863 1.0113	0.8877 0.8882 1.0134	0.8895 0.8900 1.0155
115.8 -150.35 7.940						0.8766 0.8771 1.0008	0.8774 0.8779 1.0017	0.8794 0.8799 1.0040	0.8814 0.8819 1.0063	0.8834 0.8839 1.0085	0.8853 0.8858 1.0107	0.8872 0.8877 1.0128	0.8890 0.8895 1.0149
115.9 -150.25 7.989						0.8760 0.8765 1.0003	0.8769 0.8774 1.0011	0.8789 0.8794 1.0034	0.8809 0.8814 1.0056	0.8828 0.8833 1.0079	0.8848 0.8853 1.0101	0.8866 0.8871 1.0122	0.8885 0.8890 1.0143

TABLE 4 - CONTINUED

DENSITY OF COMPRESSED LIQUID OXYGEN - CONTINUED

1. TEMPERATURE, K 2. TEMPERATURE, °C 3. VAPOR PRESSURE, BAR				TABLE ENTRIES														
				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/CM ³														
BAR KPa/CM ²	0.800 0.816	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.197	15.000 15.296	20.000 20.394	25.000 25.493	30.000 30.591	35.000 35.690	40.000 40.789					
-116.0 -157.15 8.039							0.8763 0.8768 1.0004	0.8783 0.8788 1.0027	0.8803 0.8808 1.0050	0.8823 0.8828 1.0073	0.8842 0.8847 1.0095	0.8861 0.8866 1.0116	0.8880 0.8884 1.0137					
-116.1 -157.05 8.069							0.8757 0.8762 0.9958	0.8778 0.8783 1.0021	0.8798 0.8803 1.0044	0.8818 0.8822 1.0066	0.8837 0.8842 1.0088	0.8856 0.8861 1.0110	0.8874 0.8879 1.0131					
-116.2 -156.95 8.139							0.8752 0.8757 0.9991	0.8772 0.8777 1.0015	0.8792 0.8797 1.0038	0.8812 0.8817 1.0060	0.8832 0.8836 1.0082	0.8851 0.8855 1.0104	0.8869 0.8874 1.0125					
-116.3 -156.85 8.169							0.8746 0.8751 0.9985	0.8767 0.8772 1.0008	0.8787 0.8792 1.0032	0.8807 0.8812 1.0054	0.8826 0.8830 1.0076	0.8845 0.8849 1.0098	0.8864 0.8869 1.0119					
-116.4 -156.75 8.240							0.8741 0.8745 0.9978	0.8761 0.8766 1.0002	0.8782 0.8786 1.0025	0.8801 0.8806 1.0048	0.8821 0.8826 1.0070	0.8840 0.8845 1.0092	0.8859 0.8864 1.0113					
-116.5 -156.65 8.291							0.8735 0.8740 0.9972	0.8756 0.8761 0.9996	0.8776 0.8781 1.0019	0.8796 0.8801 1.0042	0.8816 0.8820 1.0064	0.8835 0.8839 1.0086	0.8853 0.8858 1.0107					
-116.6 -156.55 8.342							0.8729 0.8734 0.9966	0.8750 0.8755 0.9985	0.8771 0.8775 1.0013	0.8791 0.8795 1.0036	0.8810 0.8815 1.0058	0.8829 0.8834 1.0080	0.8848 0.8853 1.0101					
-116.7 -156.45 8.393							0.8724 0.8728 0.9959	0.8744 0.8749 0.9983	0.8765 0.8770 1.0006	0.8785 0.8790 1.0029	0.8805 0.8810 1.0052	0.8824 0.8829 1.0074	0.8843 0.8848 1.0095					
-116.8 -156.35 8.445							0.8718 0.8723 0.9953	0.8739 0.8744 0.9977	0.8759 0.8764 1.0000	0.8779 0.8784 1.0023	0.8799 0.8804 1.0046	0.8819 0.8824 1.0068	0.8838 0.8843 1.0089					
-116.9 -156.25 8.496							0.8712 0.8717 0.9946	0.8733 0.8738 0.9970	0.8754 0.8759 0.9994	0.8774 0.8779 1.0017	0.8794 0.8799 1.0040	0.8813 0.8818 1.0062	0.8833 0.8837 1.0083					
-117.0 -156.15 8.548							0.8706 0.8711 0.9940	0.8727 0.8732 0.9964	0.8748 0.8753 0.9987	0.8768 0.8774 1.0011	0.8788 0.8793 1.0033	0.8808 0.8813 1.0056	0.8827 0.8832 1.0077					
-117.1 -156.05 8.600							0.8701 0.8706 0.9933	0.8722 0.8727 0.9957	0.8743 0.8748 0.9981	0.8763 0.8768 1.0004	0.8783 0.8788 1.0027	0.8803 0.8808 1.0050	0.8822 0.8827 1.0071					
-117.2 -155.95 8.653							0.8695 0.8700 0.9926	0.8716 0.8721 0.9951	0.8737 0.8742 0.9975	0.8758 0.8763 0.9998	0.8778 0.8783 1.0021	0.8797 0.8802 1.0043	0.8817 0.8822 1.0065					
-117.3 -155.85 8.705							0.8689 0.8694 0.9920	0.8711 0.8716 0.9944	0.8732 0.8737 0.9968	0.8752 0.8757 0.9992	0.8772 0.8777 1.0015	0.8792 0.8797 1.0037	0.8811 0.8816 1.0059					
-117.4 -155.75 8.758							0.8684 0.8688 0.9913	0.8705 0.8710 0.9938	0.8726 0.8731 0.9962	0.8747 0.8752 0.9986	0.8767 0.8772 1.0009	0.8787 0.8792 1.0031	0.8806 0.8811 1.0053					
-117.5 -155.65 8.811							0.8678 0.8683 0.9907	0.8699 0.8704 0.9932	0.8721 0.8725 0.9956	0.8741 0.8746 0.9979	0.8762 0.8767 1.0002	0.8781 0.8786 1.0025	0.8801 0.8806 1.0047					
-117.6 -155.55 8.865							0.8672 0.8677 0.9900	0.8694 0.8699 0.9925	0.8715 0.8720 0.9949	0.8736 0.8741 0.9973	0.8756 0.8761 0.9996	0.8776 0.8781 1.0019	0.8796 0.8800 1.0041					
-117.7 -155.45 8.918							0.8666 0.8671 0.9894	0.8688 0.8693 0.9919	0.8709 0.8714 0.9943	0.8730 0.8735 0.9967	0.8751 0.8756 0.9990	0.8771 0.8776 1.0013	0.8790 0.8795 1.0035					
-117.8 -155.35 8.972							0.8661 0.8665 0.9887	0.8682 0.8687 0.9912	0.8704 0.8709 0.9937	0.8725 0.8730 0.9960	0.8745 0.8750 0.9984	0.8765 0.8770 1.0007	0.8785 0.8790 1.0029					
-117.9 -155.25 9.026							0.8655 0.8659 0.9880	0.8677 0.8681 0.9906	0.8698 0.8703 0.9930	0.8719 0.8724 0.9954	0.8740 0.8745 0.9978	0.8760 0.8765 1.0001	0.8780 0.8785 1.0023					

TABLE 4 - CONTINUED

DENSITY OF COMPRESSED LIQUID OXYGEN - CONTINUED

1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR		TABLE ENTRIES 1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/CM ³													
BAR K/CM ²	0.000 0.016	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.197	15.000 15.296	20.000 20.394	25.000 25.493	30.000 30.591	35.000 35.690	40.000 40.789		
110.0 -155.15 9.080								0.8648 0.8654 0.9874	0.8671 0.8676 0.9899	0.8693 0.8697 0.9924	0.8714 0.8718 0.9948	0.8734 0.8739 0.9971	0.8755 0.8759 0.9994	0.8774 0.8779 1.0017	
110.1 -155.05 9.135							0.8643 0.8648 0.9867	0.8665 0.8670 0.9893	0.8687 0.8692 0.9917	0.8708 0.8713 0.9941	0.8729 0.8734 0.9965	0.8749 0.8754 0.9988	0.8769 0.8774 1.0011		
110.2 -154.95 9.189								0.8637 0.8642 0.9861	0.8660 0.8664 0.9886	0.8681 0.8685 0.9911	0.8703 0.8707 0.9935	0.8723 0.8728 0.9959	0.8744 0.8749 0.9982	0.8764 0.8768 1.0005	
110.3 -154.85 9.244								0.8631 0.8636 0.9854	0.8654 0.8659 0.9875	0.8676 0.8680 0.9904	0.8697 0.8702 0.9929	0.8718 0.8723 0.9953	0.8738 0.8743 0.9976	0.8758 0.8763 0.9999	
110.4 -154.75 9.299								0.8626 0.8630 0.9847	0.8648 0.8653 0.9873	0.8670 0.8675 0.9898	0.8691 0.8696 0.9922	0.8712 0.8717 0.9946	0.8733 0.8738 0.9970	0.8753 0.8758 0.9993	
110.5 -154.65 9.355								0.8620 0.8624 0.9841	0.8642 0.8647 0.9866	0.8664 0.8669 0.9891	0.8686 0.8691 0.9916	0.8707 0.8712 0.9940	0.8727 0.8732 0.9964	0.8748 0.8752 0.9987	
110.6 -154.55 9.411								0.8614 0.8619 0.9834	0.8637 0.8641 0.9860	0.8659 0.8663 0.9885	0.8680 0.8685 0.9910	0.8701 0.8706 0.9934	0.8722 0.8727 0.9957	0.8742 0.8747 0.9980	
110.7 -154.45 9.466								0.8608 0.8613 0.9827	0.8631 0.8635 0.9853	0.8653 0.8658 0.9903	0.8675 0.8679 0.9927	0.8696 0.8701 0.9951	0.8717 0.8722 0.9974	0.8737 0.8742 0.9997	
110.8 -154.35 9.523								0.8602 0.8607 0.9820	0.8625 0.8630 0.9846	0.8647 0.8652 0.9872	0.8669 0.8674 0.9897	0.8690 0.8695 0.9921	0.8711 0.8716 0.9945	0.8731 0.8736 0.9968	
110.9 -154.25 9.579								0.8596 0.8601 0.9814	0.8619 0.8624 0.9840	0.8642 0.8646 0.9865	0.8663 0.8668 0.9890	0.8685 0.8690 0.9915	0.8706 0.8711 0.9939	0.8726 0.8731 0.9962	
110.0 -154.15 9.636								0.8590 0.8595 0.9807	0.8613 0.8618 0.9833	0.8636 0.8641 0.9859	0.8658 0.8662 0.9884	0.8679 0.8684 0.9908	0.8700 0.8705 0.9932	0.8721 0.8725 0.9956	
110.1 -154.05 9.693								0.8584 0.8589 0.9800	0.8608 0.8612 0.9827	0.8630 0.8635 0.9852	0.8652 0.8657 0.9877	0.8674 0.8679 0.9902	0.8695 0.8699 0.9926	0.8715 0.8720 0.9950	
110.2 -153.95 9.750								0.8578 0.8583 0.9793	0.8602 0.8606 0.9820	0.8624 0.8629 0.9846	0.8646 0.8651 0.9871	0.8668 0.8673 0.9896	0.8689 0.8694 0.9920	0.8710 0.8715 0.9943	
110.3 -153.85 9.807								0.8573 0.8577 0.9787	0.8596 0.8601 0.9813	0.8619 0.8623 0.9839	0.8641 0.8645 0.9865	0.8662 0.8667 0.9889	0.8684 0.8688 0.9914	0.8704 0.8709 0.9937	
110.4 -153.75 9.865								0.8567 0.8571 0.9780	0.8590 0.8595 0.9807	0.8613 0.8618 0.9833	0.8635 0.8640 0.9858	0.8657 0.8662 0.9883	0.8678 0.8683 0.9907	0.8699 0.8704 0.9931	
110.5 -153.65 9.922								0.8561 0.8565 0.9773	0.8584 0.8589 0.9800	0.8607 0.8612 0.9826	0.8629 0.8634 0.9852	0.8651 0.8656 0.9877	0.8673 0.8677 0.9901	0.8694 0.8698 0.9925	
110.6 -153.55 9.981								0.8555 0.8559 0.9766	0.8578 0.8583 0.9793	0.8601 0.8606 0.9819	0.8624 0.8628 0.9845	0.8646 0.8650 0.9870	0.8667 0.8672 0.9895	0.8688 0.8693 0.9919	
110.7 -153.45 10.039								0.8550 0.8554 0.9760	0.8573 0.8578 0.9800	0.8596 0.8601 0.9839	0.8618 0.8623 0.9864	0.8640 0.8645 0.9889	0.8662 0.8666 0.9914	0.8683 0.8688 0.9937	
110.8 -153.35 10.097								0.8544 0.8548 0.9754	0.8567 0.8572 0.9800	0.8590 0.8595 0.9839	0.8612 0.8617 0.9864	0.8634 0.8639 0.9889	0.8656 0.8661 0.9914	0.8677 0.8682 0.9937	
110.9 -153.25 10.156								0.8538 0.8542 0.9748	0.8561 0.8566 0.9800	0.8584 0.8589 0.9839	0.8606 0.8611 0.9864	0.8628 0.8633 0.9889	0.8650 0.8655 0.9914	0.8672 0.8677 0.9937	

1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR				TABLE ENTRIES											
				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/CM ³											
BAR	0.800	1.000	2.000	4.000	6.000	8.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000		
KP/CM ²	0.816	1.020	2.039	4.079	6.118	8.158	10.197	15.296	20.394	25.493	30.591	35.690	40.789		
120.0 -153.15 10.215								0.8555 0.8556 0.8557	0.8578 0.8583 0.8583	0.8601 0.8606 0.8606	0.8623 0.8628 0.8628	0.8645 0.8650 0.8650	0.8666 0.8671 0.8671		
120.1 -153.05 10.275								0.8549 0.8553 0.8559	0.8572 0.8577 0.8578	0.8595 0.8600 0.8602	0.8617 0.8622 0.8622	0.8639 0.8644 0.8644	0.8661 0.8665 0.8665		
120.2 -152.95 10.334								0.8543 0.8547 0.8553	0.8566 0.8571 0.8570	0.8589 0.8594 0.8596	0.8612 0.8617 0.8616	0.8634 0.8639 0.8638	0.8655 0.8660 0.8657		
120.3 -152.85 10.394								0.8537 0.8541 0.8546	0.8560 0.8565 0.8564	0.8584 0.8588 0.8588	0.8606 0.8611 0.8611	0.8628 0.8633 0.8633	0.8650 0.8654 0.8654		
120.4 -152.75 10.454								0.8531 0.8535 0.8539	0.8555 0.8559 0.8566	0.8578 0.8583 0.8583	0.8600 0.8605 0.8605	0.8623 0.8627 0.8627	0.8644 0.8649 0.8649		
120.5 -152.65 10.514								0.8525 0.8529 0.8532	0.8549 0.8553 0.8559	0.8572 0.8577 0.8578	0.8595 0.8599 0.8598	0.8617 0.8622 0.8622	0.8639 0.8643 0.8643		
120.6 -152.55 10.575								0.8519 0.8523 0.8525	0.8543 0.8548 0.8553	0.8566 0.8571 0.8570	0.8589 0.8594 0.8594	0.8611 0.8616 0.8616	0.8633 0.8638 0.8638		
120.7 -152.45 10.636								0.8513 0.8517 0.8518	0.8537 0.8542 0.8546	0.8560 0.8565 0.8565	0.8583 0.8588 0.8588	0.8606 0.8611 0.8611	0.8628 0.8633 0.8633		
120.8 -152.35 10.697								0.8507 0.8511 0.8512	0.8531 0.8536 0.8539	0.8555 0.8560 0.8566	0.8578 0.8583 0.8583	0.8600 0.8605 0.8605	0.8622 0.8627 0.8627		
120.9 -152.25 10.758								0.8501 0.8505 0.8505	0.8525 0.8530 0.8533	0.8549 0.8553 0.8553	0.8572 0.8577 0.8577	0.8594 0.8599 0.8599	0.8617 0.8621 0.8621		
121.0 -152.15 10.820								0.8495 0.8499 0.8503	0.8519 0.8524 0.8524	0.8543 0.8548 0.8548	0.8566 0.8571 0.8570	0.8589 0.8594 0.8594	0.8611 0.8616 0.8616		
121.1 -152.05 10.882								0.8489 0.8493 0.8493	0.8513 0.8518 0.8518	0.8537 0.8542 0.8542	0.8560 0.8565 0.8565	0.8583 0.8588 0.8588	0.8605 0.8610 0.8610		
121.2 -151.95 10.944								0.8483 0.8487 0.8488	0.8507 0.8512 0.8512	0.8531 0.8536 0.8536	0.8555 0.8560 0.8560	0.8578 0.8583 0.8583	0.8600 0.8605 0.8605		
121.3 -151.85 11.006								0.8477 0.8481 0.8481	0.8501 0.8506 0.8506	0.8525 0.8530 0.8530	0.8549 0.8554 0.8554	0.8572 0.8577 0.8577	0.8594 0.8599 0.8599		
121.4 -151.75 11.069								0.8470 0.8475 0.8475	0.8495 0.8500 0.8500	0.8520 0.8524 0.8524	0.8543 0.8548 0.8548	0.8566 0.8571 0.8571	0.8589 0.8594 0.8594		
121.5 -151.65 11.132								0.8464 0.8469 0.8469	0.8489 0.8494 0.8494	0.8514 0.8518 0.8518	0.8537 0.8542 0.8542	0.8560 0.8565 0.8565	0.8583 0.8588 0.8588		
121.6 -151.55 11.195								0.8458 0.8463 0.8463	0.8483 0.8488 0.8488	0.8508 0.8512 0.8512	0.8532 0.8536 0.8536	0.8555 0.8560 0.8560	0.8577 0.8582 0.8582		
121.7 -151.45 11.258								0.8452 0.8457 0.8457	0.8477 0.8482 0.8482	0.8502 0.8506 0.8506	0.8526 0.8530 0.8530	0.8549 0.8554 0.8554	0.8572 0.8576 0.8576		
121.8 -151.35 11.322								0.8446 0.8451 0.8451	0.8471 0.8476 0.8476	0.8496 0.8501 0.8501	0.8520 0.8524 0.8524	0.8543 0.8548 0.8548	0.8566 0.8571 0.8571		
121.9 -151.25 11.386								0.8440 0.8444 0.8444	0.8465 0.8470 0.8470	0.8490 0.8495 0.8495	0.8514 0.8518 0.8518	0.8538 0.8542 0.8542	0.8560 0.8565 0.8565		

TABLE 4 - CONTINUED

DENSITY OF COMPRESSED LIQUID OXYGEN - CONTINUED

		TABLE ENTRIES											
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR		1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/CM ³											
BAR	0.800	1.000	2.000	4.000	6.000	8.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000
KP/CM ²	0.816	1.020	2.039	4.079	6.110	8.158	10.197	15.296	20.394	25.493	30.591	35.690	40.789
122.0								0.8434	0.8459	0.8484	0.8508	0.8532	0.8555
-151.15								0.2438	0.8464	0.8489	0.8513	0.8536	0.8559
11.450								0.9628	0.9657	0.9686	0.9713	0.9740	0.9766
122.1								0.2427	0.8453	0.8478	0.8502	0.8526	0.8549
-151.05								0.8432	0.8458	0.8483	0.8507	0.8531	0.8554
11.514								0.9621	0.9650	0.9675	0.9707	0.9734	0.9760
122.2								0.2421	0.8447	0.8472	0.8497	0.8520	0.8543
-150.95								0.2426	0.8452	0.8477	0.8501	0.8525	0.8548
11.579								0.9614	0.9643	0.9672	0.9700	0.9727	0.9753
122.3								0.2415	0.8441	0.8466	0.8491	0.8515	0.8538
-150.85								0.2420	0.8446	0.8471	0.8495	0.8519	0.8542
11.644								0.9607	0.9636	0.9665	0.9693	0.9720	0.9747
122.4								0.2409	0.8435	0.8460	0.8485	0.8509	0.8532
-150.75								0.2413	0.8439	0.8465	0.8489	0.8513	0.8537
11.709								0.9600	0.9629	0.9658	0.9686	0.9714	0.9740
122.5								0.2403	0.8429	0.8454	0.8479	0.8503	0.8526
-150.65								0.2407	0.8433	0.8459	0.8484	0.8508	0.8531
11.774								0.9593	0.9623	0.9652	0.9680	0.9707	0.9734
122.6								0.2396	0.8423	0.8448	0.8473	0.8497	0.8521
-150.55								0.2401	0.8427	0.8453	0.8478	0.8502	0.8525
11.840								0.9586	0.9616	0.9645	0.9673	0.9701	0.9727
122.7								0.2390	0.8416	0.8442	0.8467	0.8491	0.8515
-150.45								0.2395	0.8421	0.8447	0.8472	0.8496	0.8520
11.906								0.9578	0.9609	0.9638	0.9666	0.9694	0.9721
122.8								0.2384	0.8410	0.8436	0.8461	0.8485	0.8509
-150.35								0.2388	0.8415	0.8441	0.8466	0.8490	0.8514
11.972								0.9571	0.9601	0.9631	0.9659	0.9687	0.9714
122.9								0.2376	0.8404	0.8430	0.8455	0.8480	0.8503
-150.25								0.2382	0.8409	0.8435	0.8460	0.8484	0.8508
12.039								0.9564	0.9594	0.9624	0.9653	0.9681	0.9708
123.0								0.2371	0.8398	0.8424	0.8449	0.8474	0.8498
-150.15								0.2376	0.8403	0.8429	0.8454	0.8478	0.8502
12.106								0.9557	0.9587	0.9617	0.9646	0.9674	0.9701
123.1								0.2365	0.8392	0.8418	0.8443	0.8468	0.8492
-150.05								0.2369	0.8396	0.8422	0.8448	0.8473	0.8497
12.173								0.9550	0.9580	0.9610	0.9639	0.9667	0.9695
123.2								0.2355	0.8386	0.8412	0.8437	0.8462	0.8486
-149.95								0.2363	0.8390	0.8416	0.8442	0.8467	0.8491
12.240								0.9542	0.9573	0.9603	0.9632	0.9661	0.9688
123.3								0.2352	0.8379	0.8406	0.8431	0.8456	0.8480
-149.85								0.2357	0.8384	0.8410	0.8436	0.8461	0.8485
12.308								0.9535	0.9566	0.9596	0.9625	0.9654	0.9681
123.4								0.2346	0.8373	0.8400	0.8425	0.8450	0.8475
-149.75								0.2350	0.8378	0.8404	0.8430	0.8455	0.8479
12.375								0.9528	0.9559	0.9589	0.9619	0.9647	0.9675
123.5								0.2339	0.8367	0.8393	0.8419	0.8444	0.8469
-149.65								0.2344	0.8371	0.8398	0.8424	0.8449	0.8473
12.443								0.9521	0.9552	0.9582	0.9612	0.9640	0.9668
123.6								0.2333	0.8361	0.8387	0.8413	0.8438	0.8463
-149.55								0.2338	0.8365	0.8392	0.8418	0.8443	0.8468
12.512								0.9513	0.9545	0.9575	0.9605	0.9634	0.9662
123.7								0.2327	0.8354	0.8381	0.8407	0.8433	0.8457
-149.45								0.2331	0.8359	0.8386	0.8412	0.8437	0.8462
12.581								0.9506	0.9538	0.9568	0.9598	0.9627	0.9655
123.8								0.2320	0.8348	0.8375	0.8401	0.8427	0.8451
-149.35								0.2325	0.8353	0.8380	0.8406	0.8431	0.8456
12.649								0.9495	0.9530	0.9561	0.9592	0.9620	0.9648
123.9								0.2314	0.8342	0.8369	0.8395	0.8421	0.8446
-149.25								0.2318	0.8346	0.8373	0.8400	0.8425	0.8450
12.719								0.9491	0.9523	0.9554	0.9584	0.9613	0.9642

TABLE 4 - CONTINUED

DENSITY OF COMPRESSED LIQUID OXYGEN - CONTINUED

				TABLE ENTRIES										
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/DM ³										
BAR KPa/cm ²	0.800 0.816	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.197	15.000 15.296	20.000 20.354	25.000 25.493	30.000 30.591	35.000 35.690	40.000 40.789	
124.0 -149.15 12.788								0.8307 0.8312 0.8484	0.8335 0.8340 0.8516	0.8363 0.8367 0.8547	0.8389 0.8394 0.8577	0.8415 0.8419 0.8606	0.8440 0.8444 0.8635	
125.0 -148.15 13.498								0.8242 0.8246 0.8405	0.8272 0.8276 0.8443	0.8308 0.8309 0.8476	0.8328 0.8332 0.8507	0.8354 0.8359 0.8538	0.8381 0.8385 0.8567	
126.0 -147.15 14.236								0.8175 0.8179 0.8332	0.8206 0.8210 0.8368	0.8236 0.8241 0.8402	0.8265 0.8270 0.8436	0.8293 0.8298 0.8468	0.8320 0.8325 0.8499	
127.0 -146.15 15.002								0.8139 0.8143 0.8291	0.8170 0.8175 0.8328	0.8201 0.8205 0.8362	0.8230 0.8235 0.8396	0.8259 0.8263 0.8428		
128.0 -145.15 15.797								0.8070 0.8074 0.8213	0.8103 0.8108 0.8251	0.8135 0.8140 0.8287	0.8166 0.8171 0.8323	0.8196 0.8201 0.8357		
129.0 -144.15 16.622								0.7999 0.8004 0.9132	0.8034 0.8038 0.9172	0.8067 0.8071 0.9209	0.8099 0.8103 0.9246	0.8130 0.8135 0.9282		
130.0 -143.15 17.478								0.7925 0.7930 0.9048	0.7962 0.7967 0.9090	0.7998 0.8002 0.9130	0.8032 0.8036 0.9169	0.8064 0.8069 0.9207		
131.0 -142.15 18.365								0.7851 0.7855 0.8963	0.7890 0.7894 0.9007	0.7927 0.7931 0.9049	0.7963 0.7967 0.9091	0.7997 0.8002 0.9130		
132.0 -141.15 19.283								0.7772 0.7776 0.8873	0.7814 0.7818 0.8921	0.7854 0.7858 0.8966	0.7892 0.7896 0.9009	0.7928 0.7933 0.9051		
133.0 -140.15 20.235									0.7737 0.7741 0.8813	0.7779 0.7783 0.8981	0.7819 0.7824 0.8927	0.7858 0.7862 0.8971		
134.0 -139.15 21.219									0.7656 0.7660 0.8740	0.7701 0.7706 0.8792	0.7745 0.7749 0.8841	0.7786 0.7791 0.8889		
135.0 -138.15 22.237									0.7572 0.7576 0.8644	0.7620 0.7625 0.8700	0.7667 0.7671 0.8753	0.7710 0.7715 0.8803		
136.0 -137.15 23.291									0.7493 0.7497 0.8543	0.7536 0.7541 0.8604	0.7586 0.7590 0.8661	0.7633 0.7637 0.8714		
137.0 -136.15 24.379									0.7390 0.7394 0.8437	0.7449 0.7453 0.8504	0.7503 0.7507 0.8569	0.7553 0.7557 0.8622		
138.0 -135.15 25.504											0.7357 0.7361 0.8399	0.7415 0.7419 0.8466	0.7470 0.7474 0.8527	
139.0 -134.15 26.666											0.7259 0.7263 0.8287	0.7324 0.7328 0.8361	0.7383 0.7387 0.8429	
140.0 -133.15 27.866											0.7157 0.7161 0.8170	0.7228 0.7232 0.8252	0.7292 0.7296 0.8325	
141.0 -132.15 29.104											0.7045 0.7049 0.8043	0.7126 0.7130 0.8135	0.7197 0.7201 0.8216	
142.0 -131.15 30.383												0.7018 0.7021 0.8012	0.7097 0.7101 0.8102	
143.0 -130.15 31.702												0.6899 0.6902 0.7876	0.6999 0.6993 0.7979	

TABLE 4 - CONTINUED

DENSITY OF COMPRESSED LIQUID OXYGEN - CONTINUED

1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR			TABLE ENTRIES											
			1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TCRR, DIMENSIONLESS 3. DENSITY, KG/D ³											
BAR	0.800	1.000	2.000	4.000	6.000	8.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	
KP/CM ²	0.816	1.020	2.039	4.079	6.118	8.158	10.197	15.296	20.394	25.493	30.591	35.690	40.789	
144.0 -129.15 33.064												0.6772 0.6776 0.7731	0.6876 0.6879 0.7849	
145.0 -128.15 34.468												0.6627 0.6631 0.7565	0.6749 0.6753 0.7705	
146.0 -127.15 35.918													0.6612 0.6615 0.7548	
147.0 -126.15 37.413													0.6456 0.6458 0.7370	
148.0 -125.15 38.955													0.6277 0.6280 0.7166	

7. NITROGEN

The data tabulated for nitrogen are based on the paper by Strobridge (1962). The saturated liquid values were calculated by solving simultaneously the vapor pressure equation and the equation of state. First the vapor pressure equation was solved for either pressure or temperature depending on the integral value desired, then using the resulting P and T, the equation of state was solved for the corresponding density. All of the tabulated values were obtained in this manner except the critical point. At the critical point the vapor pressure equation was used to calculate the pressure from an input temperature of 126.26 K but the density was calculated using the theory of rectilinear diameters and the saturation densities tabulated by Strobridge.

Values near room temperature are given in table 5, uncertainties for the data in table 6, values for the saturated liquid are given in table 7, and values for the compressed liquid are shown in table 8. Near the critical point, the deviations between calculated and

Table 5

Density of Nitrogen Near Atmospheric Pressure and Room Temperature

Temperature	Pressure	Density		Volume	
		gram-mole/cm ³	kg/dm ³	cm ³ /gram-mole	dm ³ /kg
0° C	1 bar	4.4051x10 ⁻⁵	1.2341x10 ⁻³	22701.	810.28
	760 torr	4.4635x10 ⁻⁵	1.2505x10 ⁻³	22404.	799.68
15° C	1 bar	4.1752x10 ⁻⁵	1.1697x10 ⁻³	23951.	854.91
	760 torr	4.2305x10 ⁻⁵	1.1852x10 ⁻³	23638.	843.73
Density Ratios - Dimensionless					
Liquid Density at a boiling pressure of 1 bar [*] /density at 1 bar and 0° C					654.63
Liquid Density at a boiling pressure of 1 bar/density at 1 bar and 15° C					690.70
Liquid Density at a boiling pressure of 760 torr [†] /density at 760 torr and 0° C					645.67
Liquid Density at a boiling pressure of 760 torr/density at 760 torr and 15° C					681.23

* Liquid density at a boiling pressure of 1 bar 0.8079 kg/dm³

† Liquid density at a boiling pressure of 760 torr 0.8074 kg/dm³

experimental data range from 0.2% at 125 K to 5% at 126 K. The critical density given in table 7 is uncertain by 5% as well. The value of the density at the boiling point at 760 torr in table 7 should be the same as in the CGA pamphlet P-6, yet they differ by 0.1%. This is surprising as the source has not changed, and we can only suspect an error in the printing of the pamphlet.

Table 6
Uncertainties in the Data for Nitrogen

variable	uncertainty	range of temperature
temperature	0.5%	64 to 72 K
	0.1%	72 to 125 K
	0.015 K	room temperature
volume	0.4%	up to 125 K
	increases to 5%	at 126 K
	0.01%	room temperature
pressure	1%	64 to 72 K
	0.1%	72 to 126 K
	0.01%	room temperature

TABLE 7 SATURATED LIQUID NITROGEN

PRESSURE		TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	VOLUME		DENSITY RATIOS -		DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR
BAR	KP/CM ²	KELVIN	CELSIUS		CM ³ / GRAM-MOLE	DM ³ / KG	LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 1 BAR	LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR	
0.125	0.127	63.150	-210.000	0.030598	0.8684	1.1515	1.0749	1.0756	
0.146	0.149	64.000	-209.150	0.030677	0.8650	1.1560	1.0707	1.0714	
0.150	0.153	64.150	-209.000	0.030655	0.8644	1.1568	1.0700	1.0707	
0.174	0.177	65.000	-208.150	0.030733	0.8610	1.1614	1.0657	1.0664	
0.178	0.182	65.150	-208.000	0.030711	0.8604	1.1622	1.0650	1.0656	
0.200	0.204	65.000	-207.330	0.030613	0.8577	1.1660	1.0616	1.0623	
0.206	0.210	66.000	-207.150	0.030587	0.8569	1.1670	1.0607	1.0613	
0.211	0.215	66.150	-207.000	0.030565	0.8563	1.1678	1.0599	1.0606	
0.243	0.248	67.000	-206.150	0.030439	0.8524	1.1726	1.0552	1.0559	
0.249	0.254	67.150	-206.000	0.030417	0.8522	1.1735	1.0548	1.0554	
0.285	0.290	68.000	-205.150	0.030290	0.8486	1.1784	1.0510	1.0510	
0.291	0.297	68.150	-205.000	0.030268	0.8480	1.1793	1.0503	1.0503	
0.332	0.339	69.000	-204.150	0.030139	0.8444	1.1843	1.0451	1.0451	
0.340	0.346	69.150	-204.000	0.030117	0.8437	1.1852	1.0444	1.0444	
0.385	0.393	70.000	-203.150	0.029987	0.8401	1.1919	1.0397	1.0405	
0.394	0.402	70.150	-203.000	0.029964	0.8395	1.1912	1.0391	1.0397	
0.400	0.408	70.256	-202.894	0.029944	0.8390	1.1919	1.0385	1.0392	
0.445	0.454	71.000	-202.150	0.029833	0.8358	1.1965	1.0345	1.0352	
0.455	0.464	71.150	-202.000	0.029810	0.8352	1.1974	1.0337	1.0344	
0.512	0.522	72.000	-201.150	0.029678	0.8314	1.2027	1.0291	1.0298	
0.523	0.533	72.150	-201.000	0.029654	0.8308	1.2037	1.0290	1.0296	
0.566	0.578	73.000	-200.150	0.029521	0.8271	1.2091	1.0243	1.0253	
0.594	0.610	73.150	-200.000	0.029497	0.8264	1.2101	1.0235	1.0243	
0.600	0.612	73.174	-199.876	0.029493	0.8263	1.2102	1.0229	1.0234	
0.669	0.682	74.000	-199.150	0.029363	0.8226	1.2156	1.0182	1.0188	
0.682	0.695	74.150	-199.000	0.029339	0.8220	1.2166	1.0174	1.0180	
0.760	0.775	75.000	-198.150	0.029203	0.8181	1.2223	1.0127	1.0133	
0.774	0.790	75.150	-198.000	0.029179	0.8175	1.2233	1.0118	1.0125	
0.800	0.816	75.111	-197.736	0.029137	0.8163	1.2251	1.0104	1.0110	
0.883	0.907	76.000	-197.150	0.029042	0.8138	1.2291	1.0071	1.0077	
0.886	0.933	76.150	-197.000	0.029012	0.8129	1.2301	1.0062	1.0069	
0.971	0.990	77.000	-196.150	0.028879	0.8091	1.2360	1.0014	1.0021	
0.981	1.000	77.047	-196.063	0.028865	0.8087	1.2366	1.0009	1.0016	
0.968	1.037	77.150	-196.000	0.028854	0.8084	1.2370	1.0006	1.0012	
1.000	1.020	77.252	-195.698	0.028838	0.8079	1.2376	1.0000	1.0006	
1.013	1.033	77.364	-195.786	0.028819	0.8074	1.2385	0.9994	1.0000	
1.051	1.113	78.000	-195.150	0.028715	0.8045	1.2430	0.9957	0.9964	
1.110	1.132	78.150	-195.000	0.028690	0.8038	1.2441	0.9949	0.9955	
1.200	1.224	79.000	-194.150	0.028577	0.8006	1.2490	0.9916	0.9916	
1.223	1.247	79.000	-194.150	0.028549	0.7998	1.2503	0.9900	0.9906	

TABLE 7 CONTINUED

SATURATED LIQUID NITROGEN

BAR	PRESSURE KPa/cm ²	TEMPERATURE KELVIN	TEMPERATURE CEL SIUS	DENSITY GRAM-MOLE/ CM ³	KG/ DM ³	VOLUME		DENSITY RATIOS - LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 1 BAR	DENSITY RATIOS - LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 760 TORR
						CM ³ / GRAM-MOLE	DM ³ / KG		
1.244	1.268	79.150	-134.000	0.028524	0.7991	35.358	1.2514	0.9391	0.9898
1.367	1.394	80.000	-133.150	0.028382	0.7952	35.234	1.2576	0.9362	0.9888
1.389	1.417	80.150	-133.000	0.028357	0.7944	35.265	1.2587	0.9373	0.9880
1.400	1.429	80.220	-132.930	0.028345	0.7941	35.273	1.2593	0.9379	0.9885
1.523	1.553	81.000	-132.150	0.028213	0.7904	35.444	1.2691	0.9363	0.9791
1.547	1.578	81.150	-132.000	0.028188	0.7897	35.476	1.2693	0.9375	0.9791
1.680	1.682	81.467	-131.683	0.028134	0.7882	35.544	1.2687	0.9375	0.9792
1.692	1.725	82.000	-131.150	0.028043	0.7857	35.653	1.2723	0.9374	0.9791
1.716	1.752	82.150	-131.000	0.028017	0.7845	35.692	1.2740	0.9376	0.9792
1.800	1.835	82.601	-130.549	0.027940	0.7828	35.791	1.2775	0.9369	0.9785
1.875	1.912	83.000	-130.150	0.027871	0.7808	35.879	1.2807	0.9365	0.9781
1.903	1.941	83.150	-130.000	0.027845	0.7801	35.913	1.2819	0.9356	0.9602
1.961	2.000	83.449	-129.701	0.027793	0.7777	35.980	1.2843	0.9338	0.9604
2.000	2.039	83.644	-129.506	0.027759	0.7777	36.024	1.2858	0.9326	0.9632
2.072	2.113	84.000	-129.150	0.027697	0.7760	36.104	1.2887	0.9305	0.9611
2.103	2.144	84.150	-129.000	0.027671	0.7752	36.134	1.2899	0.9296	0.9602
2.200	2.243	84.612	-128.538	0.027590	0.7730	36.245	1.2937	0.9267	0.9574
2.284	2.329	85.000	-128.150	0.027522	0.7711	36.334	1.2963	0.9244	0.9550
2.317	2.363	85.150	-128.000	0.027496	0.7703	36.369	1.2982	0.9235	0.9541
2.400	2.447	85.516	-127.634	0.027431	0.7685	36.455	1.3012	0.9212	0.9518
2.502	2.550	86.000	-127.150	0.027345	0.7661	36.570	1.3053	0.9182	0.9488
2.512	2.562	86.150	-127.000	0.027318	0.7653	36.606	1.3066	0.9173	0.9479
2.548	2.611	86.366	-126.784	0.027280	0.7643	36.654	1.3085	0.9160	0.9466
2.600	2.681	87.000	-126.150	0.027166	0.7611	36.811	1.3139	0.9120	0.9426
2.755	2.850	87.150	-126.000	0.027139	0.7603	36.848	1.3152	0.9111	0.9417
2.800	2.885	87.168	-125.982	0.027135	0.7602	36.852	1.3154	0.9110	0.9416
2.942	3.054	87.713	-125.437	0.027037	0.7575	36.987	1.3202	0.9076	0.9381
3.000	3.094	87.925	-125.421	0.026997	0.7564	37.041	1.3221	0.9062	0.9368
3.019	3.079	88.000	-125.150	0.026985	0.7560	37.059	1.3228	0.9057	0.9357
3.060	3.120	88.150	-125.000	0.026957	0.7552	37.095	1.3241	0.9044	0.9354
3.200	3.253	88.654	-124.496	0.026865	0.7527	37.221	1.3286	0.9016	0.9322
3.299	3.364	89.000	-124.150	0.026801	0.7509	37.311	1.3318	0.90294	0.9300
3.343	3.407	89.150	-124.000	0.026774	0.7501	37.350	1.3332	0.90284	0.9290
3.400	3.467	89.346	-123.738	0.026738	0.7491	37.400	1.3350	0.90278	0.9278
3.558	3.669	90.000	-123.150	0.026616	0.7457	37.571	1.3411	0.90230	0.9235
3.600	3.671	90.008	-123.142	0.026615	0.7456	37.573	1.3411	0.90229	0.9235
3.644	3.716	90.150	-123.000	0.026588	0.7449	37.611	1.3425	0.90220	0.9226
3.800	3.875	90.644	-122.506	0.026496	0.7423	37.742	1.3472	0.90188	0.9194
3.916	3.993	91.000	-122.000	0.026428	0.7404	37.833	1.3506	0.90165	0.9170
3.923	4.000	91.021	-122.129	0.026424	0.7403	37.844	1.3508	0.90163	0.9169
3.965	4.043	91.150	-122.000	0.026400	0.7396	37.879	1.3520	0.90155	0.9161
4.000	4.073	91.255	-121.895	0.026380	0.7391	37.907	1.3531	0.90148	0.9154
4.200	4.233	91.645	-121.305	0.026268	0.7359	38.069	1.3568	0.90109	0.9115
4.254	4.333	92.000	-121.150	0.026238	0.7351	38.112	1.3604	0.90099	0.9104
4.306	4.331	92.150	-121.000	0.026210	0.7343	38.154	1.3619	0.90089	0.9095

TABLE 7 CONTINUED

SATURATED LIQUID NITROGEN

BAR	PRESSURE KP/CM ²	TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	KG/ DM ³	VOLUME		DENSITY RATIOS - DIMENSIONLESS	
		KELVIN	CELSIUS			CM ³ / GRAM-MOLE	DM ³ / KG	LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 1 BAR	LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR
4.400	4.4437	92.414	-180.736	0.0266159	0.7359	38.283	1.3645	0.9071	0.9077
4.600	4.691	92.965	-180.185	0.026053	0.7299	38.383	1.3701	0.9034	0.9040
4.813	4.764	93.000	-180.150	0.026046	0.7297	38.394	1.3704	0.9032	0.9038
4.869	4.761	93.150	-180.000	0.026017	0.7299	38.437	1.3719	0.9028	0.9028
4.895	4.794	93.499	-179.652	0.025949	0.7270	38.537	1.3755	0.8998	0.9004
4.903	5.000	93.767	-179.383	0.025897	0.7255	38.615	1.3783	0.8980	0.8986
4.994	5.092	94.000	-179.150	0.025851	0.7242	38.683	1.3808	0.8970	0.8970
5.000	5.039	94.015	-179.135	0.025848	0.7242	38.688	1.3809	0.8969	0.8969
5.053	5.153	94.150	-179.000	0.025821	0.7234	38.728	1.3823	0.8954	0.8960
5.200	5.303	94.518	-178.632	0.025749	0.7214	38.837	1.3862	0.8929	0.8935
5.397	5.504	95.000	-178.150	0.025653	0.7187	38.982	1.3914	0.8896	0.8901
5.400	5.506	95.006	-178.144	0.025652	0.7187	38.984	1.3915	0.8895	0.8901
5.460	5.567	95.150	-178.000	0.025623	0.7179	39.027	1.3930	0.8885	0.8891
5.600	5.710	95.482	-177.668	0.025557	0.7160	39.129	1.3967	0.8862	0.8868
5.800	5.914	95.945	-177.205	0.025463	0.7134	39.272	1.4018	0.8830	0.8835
5.824	5.939	96.000	-177.150	0.025452	0.7131	39.289	1.4024	0.8826	0.8832
5.884	6.000	96.137	-177.013	0.025425	0.7123	39.332	1.4039	0.8816	0.8822
5.890	6.006	96.150	-177.000	0.025422	0.7122	39.336	1.4041	0.8815	0.8821
6.000	6.118	96.397	-176.753	0.025372	0.7108	39.414	1.4068	0.8798	0.8804
6.200	6.322	96.838	-176.312	0.025281	0.7083	39.555	1.4119	0.8767	0.8772
6.274	6.398	97.000	-176.150	0.025248	0.7074	39.607	1.4137	0.8755	0.8761
6.344	6.469	97.150	-176.000	0.025217	0.7065	39.653	1.4154	0.8745	0.8750
6.400	6.526	97.269	-175.881	0.025193	0.7058	39.694	1.4168	0.8736	0.8742
6.600	6.730	97.691	-175.459	0.025105	0.7034	39.842	1.4218	0.8706	0.8711
6.750	6.833	98.000	-175.150	0.025041	0.7015	39.935	1.4254	0.8683	0.8689
6.800	6.934	98.103	-175.047	0.025020	0.7009	39.969	1.4266	0.8676	0.8682
6.823	6.958	98.150	-175.000	0.025010	0.7007	39.985	1.4272	0.8673	0.8678
6.865	7.000	98.234	-174.916	0.024992	0.7002	40.013	1.4282	0.8666	0.8672
7.000	7.133	98.506	-174.644	0.024935	0.6966	40.105	1.4315	0.8652	0.8658
7.200	7.342	99.601	-174.249	0.024851	0.6962	40.239	1.4363	0.8618	0.8623
7.251	7.394	99.900	-174.400	0.024830	0.6956	40.273	1.4375	0.8616	0.8616
7.328	7.472	99.150	-174.150	0.024798	0.6948	40.325	1.4394	0.8599	0.8605
7.400	7.546	99.269	-173.861	0.024769	0.6939	40.373	1.4411	0.8589	0.8594
7.600	7.750	99.668	-173.482	0.024687	0.6916	40.507	1.4458	0.8561	0.8566
7.778	7.931	100.004	-173.150	0.024616	0.6894	40.624	1.4500	0.8541	0.8541
7.800	7.954	100.041	-173.100	0.024607	0.6893	40.639	1.4506	0.8538	0.8538
7.845	8.000	100.125	-173.025	0.024559	0.6889	40.669	1.4516	0.8532	0.8532
7.859	8.014	100.150	-173.000	0.024553	0.6887	40.678	1.4520	0.8530	0.8530
8.000	8.159	100.407	-172.743	0.024527	0.6872	40.771	1.4553	0.8505	0.8511
8.200	8.362	100.766	-172.383	0.024449	0.6850	40.902	1.4599	0.8478	0.8483
8.332	8.593	111.000	-172.331	0.024371	0.6835	41.388	1.4630	0.8466	0.8466
8.456	8.714	101.119	-172.150	0.024321	0.6824	41.042	1.4646	0.8451	0.8456
8.480	8.734	101.150	-172.000	0.024364	0.6826	41.044	1.4650	0.8449	0.8454
8.500	8.750	101.466	-171.600	0.024294	0.6806	41.162	1.4692	0.8424	0.8430
8.600	8.874	101.808	-171.342	0.024218	0.6785	41.282	1.4739	0.8398	0.8403

TABLE 7 CONTINUED

SATURATED LIQUID NITROGEN

BAR	PRESSURE KP/CM ²	TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	KG/ DM ³	VOLUME		DENSITY RATIOS -	
		KELVIN	CELSIUS			CM ³ / GRAM-MOLE	DM ³ / KG	LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 1 BAR	LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR
8.826	9.000	101.851	-171.299	0.024208	0.6782	41.309	1.4745	0.8395	0.8400
8.914	9.030	102.000	-171.150	0.024175	0.6773	41.366	1.4765	0.8383	0.8388
9.000	9.177	102.143	-171.007	0.024142	0.6764	41.421	1.4785	0.8372	0.8377
9.004	9.182	102.150	-171.000	0.024141	0.6763	41.424	1.4786	0.8371	0.8377
9.200	9.351	102.474	-170.676	0.024068	0.6743	41.550	1.4831	0.8346	0.8351
9.400	9.595	102.799	-170.351	0.023993	0.6722	41.678	1.4877	0.8320	0.8325
9.525	9.713	103.000	-170.150	0.023947	0.6709	41.758	1.4905	0.8304	0.8309
9.600	9.789	103.119	-170.031	0.023920	0.6701	41.806	1.4922	0.8295	0.8300
9.619	9.803	103.150	-170.000	0.023913	0.6699	41.818	1.4927	0.8298	0.8300
9.800	9.933	103.435	-169.715	0.023847	0.6681	41.934	1.4968	0.8269	0.8275
9.807	10.000	103.445	-169.705	0.023845	0.6680	41.938	1.4969	0.8269	0.8274
10.000	10.197	103.746	-169.404	0.023775	0.6661	42.062	1.5013	0.8244	0.8250
10.165	10.356	104.000	-169.150	0.023715	0.6644	42.167	1.5051	0.8229	0.8229
10.200	10.401	104.033	-169.097	0.023703	0.6641	42.189	1.5059	0.8224	0.8225
10.264	10.456	104.150	-168.900	0.023680	0.6634	42.230	1.5073	0.8211	0.8217
10.400	10.605	104.355	-168.705	0.023632	0.6621	42.315	1.5104	0.8195	0.8200
10.600	10.809	104.653	-168.497	0.023561	0.6601	42.443	1.5150	0.8170	0.8175
10.787	11.000	104.929	-168.221	0.023465	0.6582	42.563	1.5192	0.8147	0.8152
10.800	11.013	104.947	-168.203	0.023490	0.6581	42.571	1.5195	0.8145	0.8151
10.836	11.050	105.000	-168.150	0.023478	0.6578	42.593	1.5203	0.8141	0.8147
10.939	11.155	105.150	-168.000	0.023442	0.6567	42.659	1.5227	0.8129	0.8134
11.000	11.217	105.238	-167.512	0.023421	0.6561	42.699	1.5240	0.8122	0.8127
11.400	11.625	105.524	-167.626	0.023351	0.6542	42.825	1.5286	0.8103	0.8103
11.538	11.755	105.807	-167.363	0.023282	0.6523	42.952	1.5331	0.8079	0.8079
11.600	11.823	105.900	-167.160	0.023235	0.6509	43.073	1.5362	0.8057	0.8062
11.646	11.875	105.987	-167.063	0.023213	0.6503	43.079	1.5376	0.8050	0.8055
11.768	12.000	106.150	-167.000	0.023198	0.6499	43.108	1.5387	0.8044	0.8049
11.800	12.033	106.319	-166.631	0.023156	0.6487	43.186	1.5415	0.8030	0.8035
12.000	12.237	106.363	-166.515	0.023145	0.6484	43.206	1.5422	0.8031	0.8031
12.200	12.441	106.635	-166.255	0.023077	0.6465	43.333	1.5462	0.8025	0.8027
12.271	12.513	106.905	-166.150	0.023009	0.6446	43.461	1.5513	0.8020	0.8024
12.384	12.629	107.150	-166.000	0.022985	0.6440	43.506	1.5529	0.8017	0.8021
12.400	12.644	107.171	-165.979	0.022947	0.6429	43.578	1.5558	0.8017	0.8021
12.600	12.868	107.434	-165.716	0.022892	0.6427	43.588	1.5558	0.8017	0.8021
12.749	13.000	107.628	-165.522	0.022825	0.6409	43.716	1.5604	0.8012	0.8017
12.800	13.052	107.694	-165.456	0.022825	0.6395	43.841	1.5634	0.8012	0.8017
13.000	13.256	107.982	-165.158	0.022808	0.6390	43.841	1.5650	0.8009	0.8014
13.038	13.295	108.000	-165.100	0.022742	0.6371	43.972	1.5695	0.8009	0.8014
13.156	13.415	108.150	-165.000	0.022729	0.6368	43.992	1.5701	0.8007	0.8012
13.200	13.450	108.206	-164.944	0.022690	0.6357	44.072	1.5731	0.8007	0.8012
13.400	13.660	108.458	-164.692	0.022675	0.6353	44.105	1.5741	0.8007	0.8012
13.600	13.858	108.707	-164.443	0.022609	0.6337	44.229	1.5787	0.8007	0.8012
13.729	14.000	108.857	-164.233	0.022501	0.6316	44.358	1.5833	0.8007	0.8012
13.800	14.072	108.954	-164.136	0.022478	0.6297	44.442	1.5863	0.8007	0.8012
						44.488	1.5879		

TABLE 7 CONTINUED

SATURATED LIQUID NITROGEN

PRESSURE		TEMPERATURE		DENSITY	VOLUME		DENSITY RATIOS -	
BAR	KP/CM ²	KELVIN	CELSIUS	GRAM-MOLE/ CM ³	CM ³ / GRAM-MOLE	DM ³ / KG	LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 1 BAR	DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 760 TORR
3.838	14.111	109.000	-164.150	0.022466	44.512	1.5888	0.7790	0.7795
3.961	14.236	109.150	-164.000	0.022426	44.592	1.5917	0.7776	0.7781
4.000	14.276	109.198	-163.952	0.022413	44.617	1.5926	0.7772	0.7777
4.200	14.480	109.439	-163.711	0.022348	44.748	1.5972	0.7749	0.7754
4.400	14.684	109.678	-163.472	0.022283	44.878	1.6019	0.7727	0.7732
4.600	14.888	109.915	-163.235	0.022218	45.003	1.6066	0.7704	0.7709
4.672	14.951	110.000	-163.150	0.022198	45.057	1.6082	0.7696	0.7701
4.710	15.001	110.044	-163.106	0.022182	45.082	1.6091	0.7692	0.7697
4.800	15.092	110.150	-163.000	0.022153	45.141	1.6113	0.7682	0.7687
4.800	15.092	110.150	-163.000	0.022153	45.141	1.6113	0.7682	0.7687
5.000	15.296	110.382	-162.768	0.022088	45.273	1.6160	0.7660	0.7664
5.200	15.500	110.612	-162.538	0.022024	45.405	1.6207	0.7637	0.7642
5.400	15.704	110.840	-162.310	0.021959	45.538	1.6254	0.7615	0.7620
5.542	15.848	111.000	-162.150	0.021914	45.633	1.6283	0.7599	0.7604
5.600	15.908	111.065	-162.085	0.021895	45.672	1.6302	0.7593	0.7597
5.676	15.985	111.150	-162.000	0.021871	45.733	1.6320	0.7584	0.7589
5.691	16.000	111.167	-161.983	0.021866	45.733	1.6324	0.7582	0.7587
6.000	16.112	111.289	-161.861	0.021831	45.806	1.6350	0.7570	0.7575
6.200	16.315	111.510	-161.640	0.021767	45.941	1.6398	0.7548	0.7553
6.400	16.519	111.730	-161.420	0.021703	46.077	1.6447	0.7526	0.7531
6.448	16.562	111.762	-161.400	0.021694	46.098	1.6455	0.7508	0.7513
6.498	16.606	111.794	-161.372	0.021684	46.123	1.6463	0.7503	0.7508
6.587	16.712	111.948	-161.150	0.021639	46.246	1.6507	0.7499	0.7504
6.600	16.722	111.958	-161.140	0.021639	46.246	1.6507	0.7499	0.7504
6.671	16.800	112.150	-160.986	0.021579	46.341	1.6541	0.7483	0.7488
6.800	16.927	112.378	-160.772	0.021511	46.488	1.6593	0.7459	0.7464
6.871	17.000	112.590	-160.560	0.021447	46.626	1.6643	0.7437	0.7442
7.000	17.335	112.900	-160.150	0.021383	46.756	1.6692	0.7415	0.7420
7.200	17.539	113.000	-160.000	0.021322	46.900	1.6740	0.7399	0.7399
7.392	17.734	113.000	-160.000	0.021322	46.900	1.6740	0.7399	0.7399
7.400	17.743	113.009	-160.000	0.021319	46.905	1.6742	0.7383	0.7388
7.536	17.942	113.216	-159.934	0.021276	47.041	1.6777	0.7378	0.7383
7.600	17.987	113.269	-159.891	0.021256	47.083	1.6785	0.7365	0.7370
7.652	18.000	113.269	-159.891	0.021239	47.125	1.6806	0.7349	0.7354
7.800	18.151	113.421	-159.729	0.021192	47.331	1.6843	0.7304	0.7309
8.000	18.355	113.624	-159.526	0.021128	47.475	1.6894	0.7285	0.7290
8.200	18.559	113.826	-159.324	0.021064	47.600	1.6990	0.7263	0.7268
8.373	18.735	114.000	-159.150	0.021008	47.613	1.6997	0.7260	0.7264
8.400	18.763	114.027	-159.123	0.021000	47.613	1.6997	0.7256	0.7261
8.524	18.839	114.150	-158.924	0.020960	47.709	1.7029	0.7238	0.7242
8.600	18.967	114.226	-158.850	0.020936	47.765	1.7049	0.7235	0.7240
8.633	19.000	114.256	-158.832	0.020925	47.789	1.7058	0.7231	0.7236
8.800	19.171	114.423	-158.727	0.020872	47.912	1.7102	0.7218	0.7223
9.000	19.375	114.619	-158.531	0.020807	48.060	1.7154	0.7205	0.7210
9.200	19.574	114.813	-158.337	0.020743	48.209	1.7208	0.7193	0.7198
9.394	19.776	115.000	-158.150	0.020681	48.354	1.7260	0.7171	0.7176

TABLE 7 CONTINUED

SATURATED LIQUID NITROGEN

BAR	PRESSURE KP/CM ²	TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	VOLUME		LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR	DENSITY RATIOS -	
		KELVIN	CELSIUS		CM ³ / GRAM-MOLE	DM ³ / KG		LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 1 BAR	DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR
19.400	19.782	115.006	-158.144	0.020679	48.359	1.7261	0.7171	0.7175	0.7175
19.551	19.936	115.150	-158.000	0.020630	48.473	1.7302	0.7158	0.7158	0.7158
19.600	19.986	115.197	-157.953	0.020614	48.510	1.7315	0.7148	0.7148	0.7148
19.613	20.000	115.210	-157.940	0.020610	48.520	1.7319	0.7147	0.7151	0.7151
19.800	20.190	115.387	-157.763	0.020550	48.661	1.7370	0.7126	0.7130	0.7130
20.000	20.394	115.576	-157.574	0.020485	48.817	1.7425	0.7108	0.7108	0.7108
20.200	20.594	115.763	-157.387	0.020420	48.972	1.7480	0.7085	0.7085	0.7085
20.400	20.802	115.949	-157.201	0.020355	49.128	1.7536	0.7058	0.7063	0.7063
20.455	20.859	116.000	-157.150	0.020337	49.172	1.7551	0.7052	0.7057	0.7057
20.594	21.006	116.128	-157.022	0.020292	49.282	1.7591	0.7036	0.7041	0.7041
20.600	21.005	116.133	-157.017	0.020290	49.286	1.7592	0.7036	0.7040	0.7040
20.618	21.025	116.150	-157.000	0.020284	49.301	1.7597	0.7034	0.7038	0.7038
20.800	21.210	116.317	-156.833	0.020224	49.446	1.7649	0.7013	0.7018	0.7018
21.000	21.414	116.499	-156.651	0.020159	49.607	1.7707	0.6995	0.6995	0.6995
21.200	21.618	116.679	-156.471	0.020103	49.769	1.7765	0.6968	0.6972	0.6972
21.400	21.822	116.859	-156.291	0.020037	49.933	1.7823	0.6945	0.6949	0.6949
21.558	21.983	117.000	-156.150	0.019974	50.064	1.7870	0.6926	0.6931	0.6931
21.575	22.000	117.015	-156.135	0.019969	50.078	1.7875	0.6926	0.6929	0.6929
21.600	22.026	117.037	-156.113	0.019960	50.099	1.7882	0.6922	0.6926	0.6926
21.727	22.156	117.150	-156.000	0.019918	50.205	1.7920	0.6907	0.6911	0.6911
21.800	22.230	117.214	-155.936	0.019894	50.267	1.7942	0.6899	0.6903	0.6903
22.000	22.434	117.390	-155.760	0.019827	50.436	1.8003	0.6875	0.6880	0.6880
22.200	22.638	117.565	-155.585	0.019760	50.607	1.8064	0.6852	0.6857	0.6857
22.400	22.842	117.739	-155.411	0.019693	50.780	1.8125	0.6833	0.6838	0.6838
22.555	23.000	117.873	-155.277	0.019640	50.916	1.8174	0.6811	0.6815	0.6815
22.600	23.046	117.911	-155.239	0.019625	50.955	1.8188	0.6805	0.6810	0.6810
22.704	23.151	118.000	-155.150	0.019590	51.046	1.8220	0.6793	0.6798	0.6798
22.800	23.250	118.082	-155.068	0.019557	51.132	1.8251	0.6782	0.6786	0.6786
22.879	23.300	118.150	-155.000	0.019530	51.203	1.8276	0.6772	0.6777	0.6777
23.000	23.453	118.253	-154.827	0.019489	51.311	1.8315	0.6758	0.6762	0.6762
23.200	23.657	118.422	-154.650	0.019420	51.431	1.8380	0.6734	0.6739	0.6739
23.400	23.861	118.590	-154.466	0.019332	51.562	1.8445	0.6711	0.6715	0.6715
23.536	24.000	118.704	-154.300	0.019304	51.692	1.8490	0.6694	0.6698	0.6698
23.600	24.055	118.757	-154.247	0.019282	51.745	1.8511	0.6686	0.6691	0.6691
23.800	24.269	118.923	-154.073	0.019212	52.049	1.8578	0.6662	0.6667	0.6667
23.853	24.364	119.000	-154.000	0.019180	52.134	1.8610	0.6651	0.6655	0.6655
24.000	24.473	119.088	-153.862	0.019142	52.240	1.8647	0.6638	0.6642	0.6642
24.076	24.550	119.150	-153.800	0.019116	52.311	1.8672	0.6629	0.6633	0.6633
24.200	24.677	119.252	-153.698	0.019072	52.433	1.8715	0.6614	0.6618	0.6618
24.400	24.881	119.415	-153.745	0.019001	52.629	1.8755	0.6599	0.6603	0.6603
24.517	25.000	119.509	-153.635	0.018959	52.745	1.8827	0.6579	0.6583	0.6583
24.600	25.035	119.577	-153.573	0.018929	52.828	1.8856	0.6564	0.6568	0.6568
24.800	25.289	119.738	-153.412	0.018867	53.029	1.8928	0.6543	0.6547	0.6547
25.000	25.493	119.898	-153.252	0.018795	53.234	1.9001	0.6514	0.6518	0.6518
25.128	25.624	120.000	-153.150	0.018738	53.367	1.9049	0.6498	0.6502	0.6502

TABLE 7 CONTINUED

SATURATED LIQUID NITROGEN

PRESSURE		TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	DENSITY KG/ DM ³	VOLUME		DENSITY RATIOS -		DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 760 TORR
BAR	KP/CM ²	KELVIN	CELSIUS			CM ³ / GRAM-MOLE	DM ³ / KG	LIQUID DENSITY/ DENSITY AT 1 BAR PRESS. OF 1 BAR	LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 760 TORR	
25.200	25.697	120.057	-153.093	0.014712	0.5242	53.442	1.9075	0.6489	0.6493	
25.318	25.817	120.150	-153.000	0.013669	0.5230	53.565	1.9120	0.6478	0.6478	
25.400	25.901	120.215	-152.935	0.013669	0.5222	53.653	1.9151	0.6463	0.6467	
25.459	26.000	120.275	-152.875	0.013669	0.5212	53.756	1.9188	0.6451	0.6455	
25.490	26.085	120.320	-152.820	0.013669	0.5201	53.867	1.9227	0.6438	0.6442	
25.500	26.100	120.330	-152.810	0.013669	0.5190	54.084	1.9305	0.6412	0.6416	
25.500	26.100	120.330	-152.810	0.013669	0.5180	54.306	1.9384	0.6385	0.6390	
25.500	26.100	120.330	-152.810	0.013669	0.5159	54.531	1.9464	0.6359	0.6363	
25.500	26.100	120.330	-152.810	0.013669	0.5138	54.762	1.9546	0.6333	0.6337	
25.500	26.100	120.330	-152.810	0.013669	0.5116	54.993	1.9628	0.6307	0.6311	
25.500	26.100	120.330	-152.810	0.013669	0.5095	55.224	1.9710	0.6281	0.6285	
25.500	26.100	120.330	-152.810	0.013669	0.5073	55.455	1.9792	0.6255	0.6259	
25.500	26.100	120.330	-152.810	0.013669	0.5052	55.686	1.9874	0.6229	0.6233	
25.500	26.100	120.330	-152.810	0.013669	0.5030	55.917	1.9956	0.6203	0.6207	
25.500	26.100	120.330	-152.810	0.013669	0.5009	56.148	2.0038	0.6177	0.6181	
25.500	26.100	120.330	-152.810	0.013669	0.4988	56.379	2.0120	0.6151	0.6155	
25.500	26.100	120.330	-152.810	0.013669	0.4967	56.610	2.0202	0.6125	0.6129	
25.500	26.100	120.330	-152.810	0.013669	0.4946	56.841	2.0284	0.6099	0.6103	
25.500	26.100	120.330	-152.810	0.013669	0.4925	57.072	2.0366	0.6073	0.6077	
25.500	26.100	120.330	-152.810	0.013669	0.4904	57.303	2.0448	0.6047	0.6051	
25.500	26.100	120.330	-152.810	0.013669	0.4883	57.534	2.0530	0.6021	0.6025	
25.500	26.100	120.330	-152.810	0.013669	0.4862	57.765	2.0612	0.5995	0.6000	
25.500	26.100	120.330	-152.810	0.013669	0.4841	57.996	2.0694	0.5969	0.6004	
25.500	26.100	120.330	-152.810	0.013669	0.4820	58.227	2.0776	0.5943	0.6008	
25.500	26.100	120.330	-152.810	0.013669	0.4799	58.458	2.0858	0.5917	0.6013	
25.500	26.100	120.330	-152.810	0.013669	0.4778	58.689	2.0940	0.5891	0.6018	
25.500	26.100	120.330	-152.810	0.013669	0.4757	58.920	2.1022	0.5865	0.6023	
25.500	26.100	120.330	-152.810	0.013669	0.4736	59.151	2.1104	0.5839	0.6028	
25.500	26.100	120.330	-152.810	0.013669	0.4715	59.382	2.1186	0.5813	0.6033	
25.500	26.100	120.330	-152.810	0.013669	0.4694	59.613	2.1268	0.5787	0.6038	
25.500	26.100	120.330	-152.810	0.013669	0.4673	59.844	2.1350	0.5761	0.6043	
25.500	26.100	120.330	-152.810	0.013669	0.4652	60.075	2.1432	0.5735	0.6048	
25.500	26.100	120.330	-152.810	0.013669	0.4631	60.306	2.1514	0.5709	0.6053	
25.500	26.100	120.330	-152.810	0.013669	0.4610	60.537	2.1596	0.5683	0.6058	
25.500	26.100	120.330	-152.810	0.013669	0.4589	60.768	2.1678	0.5657	0.6063	
25.500	26.100	120.330	-152.810	0.013669	0.4568	60.999	2.1760	0.5631	0.6068	
25.500	26.100	120.330	-152.810	0.013669	0.4547	61.230	2.1842	0.5605	0.6073	
25.500	26.100	120.330	-152.810	0.013669	0.4526	61.461	2.1924	0.5579	0.6078	
25.500	26.100	120.330	-152.810	0.013669	0.4505	61.692	2.2006	0.5553	0.6083	
25.500	26.100	120.330	-152.810	0.013669	0.4484	61.923	2.2088	0.5527	0.6088	
25.500	26.100	120.330	-152.810	0.013669	0.4463	62.154	2.2170	0.5501	0.6093	
25.500	26.100	120.330	-152.810	0.013669	0.4442	62.385	2.2252	0.5475	0.6098	
25.500	26.100	120.330	-152.810	0.013669	0.4421	62.616	2.2334	0.5449	0.6103	
25.500	26.100	120.330	-152.810	0.013669	0.4400	62.847	2.2416	0.5423	0.6108	
25.500	26.100	120.330	-152.810	0.013669	0.4379	63.078	2.2498	0.5397	0.6113	
25.500	26.100	120.330	-152.810	0.013669	0.4358	63.309	2.2580	0.5371	0.6118	
25.500	26.100	120.330	-152.810	0.013669	0.4337	63.540	2.2662	0.5345	0.6123	
25.500	26.100	120.330	-152.810	0.013669	0.4316	63.771	2.2744	0.5319	0.6128	
25.500	26.100	120.330	-152.810	0.013669	0.4295	64.002	2.2826	0.5293	0.6133	
25.500	26.100	120.330	-152.810	0.013669	0.4274	64.233	2.2908	0.5267	0.6138	
25.500	26.100	120.330	-152.810	0.013669	0.4253	64.464	2.2990	0.5241	0.6143	
25.500	26.100	120.330	-152.810	0.013669	0.4232	64.695	2.3072	0.5215	0.6148	
25.500	26.100	120.330	-152.810	0.013669	0.4211	64.926	2.3154	0.5189	0.6153	
25.500	26.100	120.330	-152.810	0.013669	0.4190	65.157	2.3236	0.5163	0.6158	
25.500	26.100	120.330	-152.810	0.013669	0.4169	65.388	2.3318	0.5137	0.6163	
25.500	26.100	120.330	-152.810	0.013669	0.4148	65.619	2.3400	0.5111	0.6168	
25.500	26.100	120.330	-152.810	0.013669	0.4127	65.850	2.3482	0.5085	0.6173	
25.500	26.100	120.330	-152.810	0.013669	0.4106	66.081	2.3564	0.5059	0.6178	
25.500	26.100	120.330	-152.810	0.013669	0.4085	66.312	2.3646	0.5033	0.6183	
25.500	26.100	120.330	-152.810	0.013669	0.4064	66.543	2.3728	0.5007	0.6188	
25.500	26.100	120.330	-152.810	0.013669	0.4043	66.774	2.3810	0.4981	0.6193	
25.500	26.100	120.330	-152.810	0.013669	0.4022	67.005	2.3892	0.4955	0.6198	
25.500	26.100	120.330	-152.810	0.013669	0.4001	67.236	2.3974	0.4929	0.6203	
25.500	26.100	120.330	-152.810	0.013669	0.3980	67.467	2.4056	0.4903	0.6208	
25.500	26.100	120.330	-152.810	0.013669	0.3959	67.698	2.4138	0.4877	0.6213	
25.500	26.100	120.330	-152.810	0.013669	0.3938	67.929	2.4220	0.4851	0.6218	
25.500	26.100	120.330	-152.810	0.013669	0.3917	68.160	2.4302	0.4825	0.6223	
25.500	26.100	120.330	-152.810	0.013669	0.3896	68.391	2.4384	0.4799	0.6228	
25.500	26.100	120.330	-152.810	0.013669	0.3875	68.622	2.4466	0.4773	0.6233	
25.500	26.100	120.330	-152.810	0.013669	0.3854	68.853	2.4548	0.4747	0.6238	
25.500	26.100	120.330	-152.810	0.013669	0.3833	69.084	2.4630	0.4721	0.6243	
25.500	26.100	120.330	-152.810	0.013669	0.3812	69.315	2.4712	0.4695	0.6248	
25.500	26.100	120.330	-152.810	0.013669	0.3791	69.546	2.4794	0.4669	0.6253	
25.500	26.100	120.330	-152.810	0.013669	0.3770	69.777	2.4876	0.4643	0.6258	
25.500	26.100	120.330	-152.810	0.013669	0.3749	70.008	2.4958	0.4617	0.6263	
25.500	26.100	120.330	-152.810	0.013669	0.3728	70.239	2.5040	0.4591	0.6268	
25.500	26.100	120.330	-152.810	0.013669	0.3707	70.470	2.5122	0.4565	0.6273	
25.500	26.100	120.330	-152.810	0.013669	0.3686	70.701	2.5204	0.4539	0.6278	
25.500	26.100	120.330	-152.810	0.013669	0.3665	70.932	2.5286	0.4513	0.6283	
25.500	26.100	120.330	-152.810	0.013669	0.3644	71.163	2.5368	0.4487	0.6288	
25.500	26.100	120.330	-152.810	0.013669	0.3623	71.394	2.5450	0.4461	0.6293	
25.500	26.100	120.330	-152.810	0.013669	0.3602	71.625	2.5532	0.4435	0.6298	
25.500	26.100	120.330	-152.810	0.013669	0.3581	71.856	2.5614	0.4409	0.6303	
25.500	26.100	120.330	-152.810	0.013669	0.3560	72.087	2.5696	0.4383	0.6308	
25.500	26.100	120.330	-152.810	0.013669	0.3539	72.318	2.5778	0.4357	0.6313	
25.500	26.100	120.330	-152.810	0.013669	0.3518	72.549	2.5860	0.4331	0.6318	
25.500	26.100	120.330	-152.810	0.013669	0.3497	72.780	2.5942	0.4305	0.6323	
25.500	26.100	120.330	-152.810	0.013669	0.3476	73.011	2.6024	0.4279	0.6328	
25.500	26.100	120.330	-152.810	0.013669	0.3455	73.242	2.6106	0.4253	0.6333	
25.500	26.100	120.330	-152.810	0.013669	0.3434	73.473	2.6188	0.4227	0.6338	
25.500	26.100	120.330	-152.810	0.013669	0.3413	73.704	2.6270	0.4201	0.6343	
25.500	26.100	120.330	-152.810	0.013669	0.3392	73.935	2.6352	0.4175	0.6348	
25.500	26.100	120.330	-152.810	0.013669	0.3371	74.166	2.6434	0.4149	0.6353	
25.500	26.100	120.330	-152.810	0.013669	0.3350	74.397	2.6516	0.4123	0.6358	
25.500	26.100	120.330	-152.810	0.013669	0.3329	74.628	2.6598	0.4097	0.6363	
25.500	26.100	120.330	-152.810	0.013669	0.3308	74.859	2.6680	0.4071	0.6368	
25.500	26.100	120.330	-152.810	0.013669	0.3287	75.090	2.6762	0.4045	0.6373	
25.500	26.100	120.330	-152.810	0.013669	0.3266	75.321	2.6844	0.4019	0.6378	
25.500	26.100	120.330	-152.810	0.013669	0.3245	75.552	2.6926	0.3993	0.6383	
25.500	26.100	120.330	-152.810	0.013669	0.3224	75.783	2.7008	0.3967	0.6388	
25.500										

TABLE 7 CONTINUED

SATURATED LIQUID NITROGEN

BAR	PRESSURE KP/CM ²	TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	KG/ DM ³	VOLUME		DENSITY RATIOS - LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 1 BAR	DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 760 TORR
		KELVIN	CELSIUS			CM ³ / GRAM-MOLE	DM ³ / KG		
31.200	31.815	124.438	-148.712	0.016050	0.4508	62.150	2.2184	0.5580	0.5583
31.361	32.000	124.559	-148.591	0.015988	0.4479	62.546	2.2325	0.5544	0.5548
31.400	32.019	124.572	-148.578	0.015978	0.4476	62.587	2.2340	0.5541	0.5544
31.600	32.223	124.706	-148.444	0.015662	0.4444	63.043	2.2503	0.5501	0.5504
31.800	32.427	124.839	-148.311	0.015744	0.4411	63.518	2.2672	0.5459	0.5463
32.000	32.631	124.971	-148.175	0.015621	0.4377	64.014	2.2849	0.5417	0.5420
32.044	32.676	125.000	-148.150	0.015594	0.4359	64.126	2.2889	0.5408	0.5411
32.200	32.835	125.103	-148.047	0.015496	0.4341	64.534	2.3035	0.5373	0.5377
32.272	32.908	125.150	-148.000	0.015450	0.4328	64.727	2.3104	0.5357	0.5361
32.362	33.000	125.209	-147.941	0.015391	0.4312	64.973	2.3192	0.5337	0.5340
32.400	33.034	125.234	-147.916	0.015366	0.4305	65.079	2.3229	0.5328	0.5332
32.600	33.243	125.364	-147.786	0.015232	0.4267	65.653	2.3434	0.5282	0.5285
32.800	33.447	125.494	-147.656	0.015093	0.4228	66.259	2.3650	0.5234	0.5237
33.000	33.651	125.623	-147.527	0.014948	0.4188	66.900	2.3879	0.5183	0.5187
33.343	34.000	126.000	-147.175	0.014685	0.4114	68.095	2.4306	0.5092	0.5096
33.589	34.251	126.260	-146.990	0.014483	0.4058	69.045	2.4605	0.5022	0.5026
34.000	34.671	126.690	-146.690	0.014230	0.3946	89.046	3.1784	0.3994	0.3897

TABLE 8

DENSITY OF COMPRESSED LIQUID NITROGEN

TABLE ENTRIES													
1. TEMPERATURE, K 2. TEMPERATURE, °C 3. VAPOR PRESSURE, BAR			1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/D ³										
BAR KPa/cm ²	0.800 0.816	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 0.158	10.000 10.197	12.500 12.746	15.000 15.296	17.500 17.845	20.000 20.394	25.000 25.493	30.000 30.591
75.0 -198.15 0.760	1.0127 1.0133 0.8162	1.0127 1.0134 0.8162	1.0130 1.0136 0.8164	1.0135 1.0142 0.8180	1.0141 1.0147 0.8186	1.0146 1.0152 0.8197	1.0151 1.0158 0.8201	1.0158 1.0164 0.8207	1.0164 1.0171 0.8212	1.0171 1.0177 0.8217	1.0177 1.0184 0.8222	1.0180 1.0186 0.8223	1.0203 1.0209 0.8234
75.1 -198.05 0.769	1.0121 1.0128 0.8177	1.0122 1.0128 0.8177	1.0134 1.0131 0.8180	1.0130 1.0136 0.8184	1.0135 1.0147 0.8188	1.0140 1.0147 0.8193	1.0146 1.0152 0.8197	1.0152 1.0159 0.8202	1.0159 1.0165 0.8207	1.0165 1.0172 0.8213	1.0172 1.0178 0.8218	1.0184 1.0191 0.8222	1.0197 1.0204 0.8238
75.2 -197.95 0.779	1.0116 1.0122 0.8172	1.0116 1.0122 0.8175	1.0119 1.0125 0.8179	1.0124 1.0131 0.8184	1.0129 1.0136 0.8188	1.0135 1.0141 0.8192	1.0140 1.0147 0.8198	1.0147 1.0153 0.8203	1.0153 1.0160 0.8208	1.0160 1.0166 0.8213	1.0166 1.0173 0.8218	1.0179 1.0186 0.8224	1.0192 1.0198 0.8234
75.3 -197.85 0.789	1.0110 1.0116 0.8168	1.0110 1.0117 0.8168	1.0113 1.0120 0.8171	1.0119 1.0125 0.8175	1.0124 1.0130 0.8179	1.0129 1.0136 0.8184	1.0135 1.0141 0.8188	1.0141 1.0148 0.8193	1.0148 1.0154 0.8199	1.0154 1.0161 0.8204	1.0161 1.0167 0.8209	1.0174 1.0180 0.8220	1.0186 1.0193 0.8230
75.4 -197.75 0.799	1.0104 1.0111 0.8163	1.0105 1.0111 0.8164	1.0108 1.0114 0.8166	1.0113 1.0119 0.8170	1.0118 1.0125 0.8175	1.0124 1.0131 0.8179	1.0129 1.0135 0.8183	1.0136 1.0142 0.8185	1.0142 1.0149 0.8194	1.0149 1.0155 0.8199	1.0155 1.0162 0.8205	1.0166 1.0175 0.8215	1.0181 1.0188 0.8225
75.5 -197.65 0.809	1.0099 1.0106 0.8159	1.0102 1.0108 0.8159	1.0107 1.0114 0.8162	1.0113 1.0119 0.8166	1.0118 1.0125 0.8170	1.0124 1.0130 0.8175	1.0130 1.0137 0.8184	1.0137 1.0143 0.8190	1.0143 1.0150 0.8195	1.0150 1.0156 0.8200	1.0156 1.0163 0.8205	1.0166 1.0174 0.8211	1.0176 1.0182 0.8221
75.6 -197.55 0.819	1.0094 1.0101 0.8155	1.0096 1.0103 0.8155	1.0102 1.0108 0.8157	1.0107 1.0114 0.8161	1.0113 1.0119 0.8166	1.0118 1.0125 0.8170	1.0125 1.0131 0.8174	1.0131 1.0138 0.8180	1.0138 1.0144 0.8185	1.0144 1.0151 0.8191	1.0151 1.0158 0.8196	1.0161 1.0168 0.8202	1.0170 1.0177 0.8217
75.7 -197.45 0.829	1.0088 1.0094 0.8150	1.0091 1.0097 0.8150	1.0096 1.0103 0.8152	1.0102 1.0108 0.8157	1.0107 1.0113 0.8166	1.0112 1.0119 0.8170	1.0119 1.0125 0.8175	1.0126 1.0132 0.8179	1.0132 1.0139 0.8181	1.0139 1.0145 0.8186	1.0145 1.0152 0.8191	1.0152 1.0159 0.8200	1.0165 1.0171 0.8212
75.8 -197.35 0.839	1.0082 1.0089 0.839	1.0085 1.0091 0.839	1.0088 1.0094 0.839	1.0096 1.0102 0.839	1.0101 1.0108 0.839	1.0107 1.0113 0.839	1.0114 1.0121 0.839	1.0121 1.0127 0.839	1.0127 1.0134 0.839	1.0134 1.0140 0.839	1.0140 1.0147 0.839	1.0147 1.0154 0.839	1.0160 1.0167 0.839
75.9 -197.25 0.850	1.0077 1.0083 0.850	1.0080 1.0086 0.850	1.0085 1.0091 0.850	1.0090 1.0097 0.850	1.0096 1.0102 0.850	1.0101 1.0108 0.850	1.0108 1.0114 0.850	1.0114 1.0121 0.850	1.0121 1.0128 0.850	1.0128 1.0135 0.850	1.0135 1.0142 0.850	1.0142 1.0149 0.850	1.0154 1.0161 0.850
76.0 -197.15 0.860	1.0071 1.0077 0.860	1.0074 1.0080 0.860	1.0079 1.0085 0.860	1.0085 1.0091 0.860	1.0090 1.0097 0.860	1.0096 1.0102 0.860	1.0102 1.0108 0.860	1.0108 1.0114 0.860	1.0114 1.0121 0.860	1.0121 1.0128 0.860	1.0128 1.0135 0.860	1.0135 1.0142 0.860	1.0145 1.0152 0.860
76.1 -197.05 0.871	1.0065 1.0072 0.871	1.0068 1.0075 0.871	1.0074 1.0080 0.871	1.0079 1.0086 0.871	1.0085 1.0091 0.871	1.0090 1.0097 0.871	1.0097 1.0103 0.871	1.0103 1.0110 0.871	1.0110 1.0117 0.871	1.0117 1.0124 0.871	1.0124 1.0131 0.871	1.0131 1.0138 0.871	1.0144 1.0151 0.871
76.2 -196.95 0.882	1.0060 1.0066 0.882	1.0063 1.0069 0.882	1.0068 1.0074 0.882	1.0074 1.0080 0.882	1.0079 1.0086 0.882	1.0085 1.0091 0.882	1.0091 1.0097 0.882	1.0097 1.0103 0.882	1.0103 1.0110 0.882	1.0110 1.0117 0.882	1.0117 1.0124 0.882	1.0124 1.0131 0.882	1.0138 1.0145 0.882
76.3 -196.85 0.892	1.0054 1.0061 0.892	1.0057 1.0063 0.892	1.0063 1.0069 0.892	1.0068 1.0074 0.892	1.0074 1.0080 0.892	1.0079 1.0086 0.892	1.0086 1.0092 0.892	1.0092 1.0099 0.892	1.0099 1.0106 0.892	1.0106 1.0113 0.892	1.0113 1.0120 0.892	1.0120 1.0127 0.892	1.0133 1.0140 0.892
76.4 -196.75 0.903	1.0048 1.0055 0.903	1.0051 1.0057 0.903	1.0057 1.0063 0.903	1.0062 1.0069 0.903	1.0068 1.0074 0.903	1.0074 1.0080 0.903	1.0080 1.0086 0.903	1.0086 1.0092 0.903	1.0092 1.0099 0.903	1.0099 1.0106 0.903	1.0106 1.0113 0.903	1.0113 1.0120 0.903	1.0126 1.0133 0.903
76.5 -196.65 0.914	1.0043 1.0049 0.914	1.0046 1.0052 0.914	1.0051 1.0057 0.914	1.0057 1.0063 0.914	1.0062 1.0069 0.914	1.0068 1.0074 0.914	1.0074 1.0080 0.914	1.0080 1.0086 0.914	1.0086 1.0092 0.914	1.0092 1.0099 0.914	1.0099 1.0106 0.914	1.0106 1.0113 0.914	1.0122 1.0129 0.914
76.6 -196.55 0.925	1.0037 1.0044 0.925	1.0040 1.0046 0.925	1.0046 1.0051 0.925	1.0051 1.0057 0.925	1.0057 1.0063 0.925	1.0062 1.0069 0.925	1.0069 1.0074 0.925	1.0074 1.0080 0.925	1.0080 1.0086 0.925	1.0086 1.0092 0.925	1.0092 1.0099 0.925	1.0099 1.0106 0.925	1.0117 1.0124 0.925
76.7 -196.45 0.936	1.0031 1.0038 0.936	1.0034 1.0041 0.936	1.0040 1.0046 0.936	1.0046 1.0051 0.936	1.0051 1.0057 0.936	1.0057 1.0063 0.936	1.0063 1.0069 0.936	1.0069 1.0074 0.936	1.0074 1.0080 0.936	1.0080 1.0086 0.936	1.0086 1.0092 0.936	1.0092 1.0099 0.936	1.0111 1.0118 0.936
76.8 -196.35 0.948	1.0026 1.0032 0.948	1.0029 1.0035 0.948	1.0034 1.0040 0.948	1.0040 1.0046 0.948	1.0046 1.0051 0.948	1.0051 1.0057 0.948	1.0057 1.0063 0.948	1.0063 1.0069 0.948	1.0069 1.0074 0.948	1.0074 1.0080 0.948	1.0080 1.0086 0.948	1.0086 1.0092 0.948	1.0106 1.0113 0.948
76.9 -196.25 0.959	1.0020 1.0026 0.959	1.0023 1.0029 0.959	1.0029 1.0034 0.959	1.0034 1.0040 0.959	1.0040 1.0046 0.959	1.0046 1.0051 0.959	1.0051 1.0057 0.959	1.0057 1.0063 0.959	1.0063 1.0069 0.959	1.0069 1.0074 0.959	1.0074 1.0080 0.959	1.0080 1.0086 0.959	1.0100 1.0107 0.959

TABLE 8 - CONTINUED

DENSITY OF COMPRESSED LIQUID NITROGEN - CONTINUED

		TABLE ENTRIES													
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR		1. DENSITY RATIO, LIQUID DENSITY/DEASITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DEASITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/DM ³													
BAR K/°C/H ₂	0.000 0.016	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.197	12.500 12.742	15.000 15.296	17.500 17.845	20.000 20.394	25.000 25.493	30.000 30.591		
77.0 -196.15 0.971		1.0004 1.0021 0.8091	1.0017 1.0029 0.8093	1.0023 1.0029 0.8098	1.0025 1.0031 0.8102	1.0034 1.0041 0.8107	1.0040 1.0046 0.8111	1.0047 1.0053 0.8117	1.0054 1.0060 0.8123	1.0061 1.0067 0.8128	1.0068 1.0074 0.8134	1.0084 1.0091 0.8149	1.0095 1.0101 0.8156		
77.1 -196.05 0.982		1.0009 1.0015 0.8085	1.0012 1.0018 0.8089	1.0017 1.0024 0.8093	1.0023 1.0029 0.8098	1.0029 1.0035 0.8102	1.0034 1.0041 0.8107	1.0041 1.0048 0.8113	1.0048 1.0055 0.8118	1.0055 1.0062 0.8124	1.0062 1.0069 0.8129	1.0076 1.0082 0.8140	1.0089 1.0095 0.8151		
77.2 -195.95 0.994		1.0003 1.0012 0.8082	1.0006 1.0012 0.8084	1.0012 1.0018 0.8089	1.0017 1.0024 0.8093	1.0023 1.0029 0.8098	1.0029 1.0035 0.8102	1.0035 1.0042 0.8108	1.0043 1.0049 0.8114	1.0050 1.0056 0.8119	1.0057 1.0063 0.8125	1.0070 1.0077 0.8136	1.0084 1.0090 0.8147		
77.3 -195.85 1.006		1.0000 1.0007 0.8079	1.0006 1.0012 0.8084	1.0012 1.0018 0.8089	1.0017 1.0024 0.8093	1.0023 1.0029 0.8098	1.0030 1.0037 0.8104	1.0037 1.0044 0.8109	1.0044 1.0051 0.8115	1.0051 1.0057 0.8120	1.0056 1.0063 0.8126	1.0065 1.0071 0.8132	1.0079 1.0085 0.8143		
77.4 -195.75 1.018		0.9994 1.0001 0.8075	1.0000 1.0007 0.8079	1.0006 1.0012 0.8084	1.0012 1.0018 0.8089	1.0017 1.0024 0.8093	1.0023 1.0031 0.8098	1.0032 1.0038 0.8105	1.0039 1.0045 0.8110	1.0046 1.0052 0.8116	1.0054 1.0060 0.8122	1.0065 1.0071 0.8127	1.0079 1.0085 0.8138		
77.5 -195.65 1.030		0.9989 0.9995 0.8070	0.9995 1.0001 0.8075	1.0000 1.0007 0.8079	1.0006 1.0012 0.8084	1.0012 1.0018 0.8089	1.0018 1.0025 0.8094	1.0025 1.0032 0.8100	1.0032 1.0039 0.8106	1.0039 1.0046 0.8112	1.0046 1.0053 0.8118	1.0054 1.0061 0.8124	1.0068 1.0074 0.8134		
77.6 -195.55 1.042		0.9983 0.9989 0.8065	0.9989 0.9995 0.8070	0.9995 1.0001 0.8075	1.0000 1.0007 0.8080	1.0006 1.0013 0.8084	1.0013 1.0020 0.8090	1.0020 1.0027 0.8096	1.0027 1.0034 0.8101	1.0034 1.0041 0.8107	1.0041 1.0048 0.8114	1.0048 1.0055 0.8120	1.0062 1.0069 0.8129		
77.7 -195.45 1.054		0.9977 0.9984 0.8061	0.9983 0.9989 0.8066	0.9989 0.9995 0.8070	0.9995 1.0001 0.8075	1.0001 1.0007 0.8080	1.0008 1.0014 0.8086	1.0015 1.0021 0.8091	1.0022 1.0028 0.8097	1.0028 1.0035 0.8103	1.0035 1.0041 0.8109	1.0043 1.0049 0.8114	1.0057 1.0063 0.8125		
77.8 -195.35 1.066		0.9972 0.9978 0.8056	0.9977 0.9984 0.8061	0.9983 0.9990 0.8066	0.9989 0.9995 0.8070	0.9995 1.0001 0.8075	1.0002 1.0008 0.8081	1.0009 1.0016 0.8087	1.0016 1.0023 0.8092	1.0023 1.0030 0.8098	1.0030 1.0037 0.8104	1.0037 1.0044 0.8109	1.0051 1.0058 0.8121		
77.9 -195.25 1.079		0.9966 0.9972 0.8052	0.9972 0.9978 0.8056	0.9978 0.9984 0.8061	0.9983 0.9990 0.8066	0.9989 0.9995 0.8070	0.9996 1.0002 0.8076	1.0004 1.0010 0.8082	1.0011 1.0017 0.8088	1.0018 1.0024 0.8094	1.0024 1.0030 0.8100	1.0032 1.0038 0.8106	1.0046 1.0052 0.8116		
78.0 -195.15 1.091		0.9960 0.9966 0.8047	0.9966 0.9972 0.8052	0.9972 0.9978 0.8056	0.9978 0.9984 0.8061	0.9984 0.9990 0.8066	0.9991 0.9997 0.8072	0.9999 1.0004 0.8078	1.0005 1.0010 0.8083	1.0012 1.0019 0.8089	1.0018 1.0024 0.8094	1.0026 1.0033 0.8100	1.0040 1.0047 0.8112		
78.1 -195.05 1.104		0.9954 0.9961 0.8042	0.9960 0.9967 0.8047	0.9966 0.9972 0.8052	0.9972 0.9978 0.8057	0.9978 0.9984 0.8061	0.9985 0.9991 0.8067	0.9992 0.9998 0.8073	1.0000 1.0006 0.8079	1.0007 1.0013 0.8085	1.0014 1.0020 0.8091	1.0021 1.0027 0.8098	1.0035 1.0041 0.8107		
78.2 -194.95 1.117		0.9949 0.9955 0.8038	0.9955 0.9961 0.8042	0.9960 0.9967 0.8047	0.9966 0.9973 0.8052	0.9972 0.9979 0.8057	0.9978 0.9986 0.8063	0.9985 0.9993 0.8069	0.9992 0.9998 0.8074	0.9999 1.0005 0.8081	1.0006 1.0012 0.8087	1.0013 1.0019 0.8093	1.0029 1.0035 0.8103		
78.3 -194.85 1.130		0.9943 0.9949 0.8033	0.9949 0.9955 0.8038	0.9955 0.9961 0.8043	0.9961 0.9967 0.8047	0.9967 0.9973 0.8052	0.9974 0.9980 0.8057	0.9981 0.9987 0.8064	0.9988 0.9994 0.8070	0.9994 1.0000 0.8076	0.9999 1.0005 0.8082	1.0004 1.0010 0.8088	1.0024 1.0030 0.8096		
78.4 -194.75 1.143		0.9937 0.9943 0.8028	0.9943 0.9949 0.8033	0.9949 0.9955 0.8038	0.9955 0.9961 0.8043	0.9961 0.9967 0.8048	0.9968 0.9974 0.8053	0.9976 0.9982 0.8059	0.9983 0.9989 0.8065	0.9989 0.9996 0.8071	0.9994 1.0001 0.8077	1.0004 1.0011 0.8083	1.0018 1.0025 0.8094		
78.5 -194.65 1.156		0.9931 0.9938 0.8024	0.9937 0.9943 0.8029	0.9943 0.9949 0.8033	0.9949 0.9955 0.8038	0.9955 0.9961 0.8043	0.9962 0.9968 0.8048	0.9969 0.9975 0.8053	0.9976 0.9982 0.8059	0.9983 0.9989 0.8065	0.9989 0.9996 0.8071	1.0004 1.0011 0.8077	1.0018 1.0025 0.8090		
78.6 -194.55 1.169		0.9926 0.9932 0.8019	0.9932 0.9938 0.8024	0.9938 0.9944 0.8029	0.9944 0.9950 0.8034	0.9949 0.9956 0.8038	0.9957 0.9963 0.8044	0.9964 0.9971 0.8050	0.9972 0.9978 0.8056	0.9979 0.9985 0.8062	0.9986 0.9992 0.8068	1.0000 1.0007 0.8074	1.0014 1.0021 0.8085		
78.7 -194.45 1.182		0.9920 0.9926 0.8014	0.9926 0.9932 0.8019	0.9932 0.9938 0.8024	0.9938 0.9944 0.8029	0.9944 0.9950 0.8034	0.9951 0.9957 0.8038	0.9958 0.9964 0.8044	0.9965 0.9971 0.8050	0.9972 0.9978 0.8056	0.9979 0.9985 0.8062	1.0004 1.0011 0.8068	1.0018 1.0025 0.8081		
78.8 -194.35 1.196		0.9914 0.9920 0.8010	0.9920 0.9926 0.8015	0.9926 0.9932 0.8019	0.9932 0.9938 0.8024	0.9938 0.9944 0.8029	0.9945 0.9951 0.8035	0.9952 0.9958 0.8041	0.9959 0.9965 0.8047	0.9966 0.9972 0.8053	0.9973 0.9979 0.8059	1.0004 1.0011 0.8065	1.0018 1.0025 0.8076		
78.9 -194.25 1.209		0.9908 0.9914 0.8005	0.9914 0.9920 0.8010	0.9920 0.9926 0.8015	0.9926 0.9932 0.8020	0.9932 0.9938 0.8025	0.9939 0.9945 0.8031	0.9946 0.9952 0.8037	0.9953 0.9959 0.8043	0.9960 0.9966 0.8049	0.9967 0.9973 0.8055	1.0004 1.0011 0.8061	1.0018 1.0025 0.8072		

TABLE 8 - CONTINUED

DENSITY OF CO₂/FRESCH LIQUID NITROGEN - CONTINUED

				TABLE ENTRIES									
1. TEMPERATURE, K 2. TEMPERATURE, °C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/DM ³									
BAR KPa/cm ²	0.000 0.016	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.197	12.500 12.746	15.000 15.296	17.500 17.845	20.000 20.394	25.000 25.493	30.000 30.591
79.0 -194.15 1.223			0.9902 0.9909 0.6000	0.9908 0.9915 0.8005	0.9915 0.9921 0.8010	0.9921 0.9927 0.8015	0.9927 0.9933 0.8020	0.9934 0.9940 0.8026	0.9942 0.9948 0.8032	0.9949 0.9955 0.8038	0.9956 0.9962 0.8044	0.9971 0.9977 0.8056	0.9985 0.9992 0.8067
79.1 -194.05 1.237			0.9897 0.9903 0.7996	0.9903 0.9909 0.8001	0.9909 0.9915 0.8005	0.9915 0.9921 0.8010	0.9921 0.9927 0.8015	0.9928 0.9935 0.8021	0.9936 0.9942 0.8027	0.9943 0.9950 0.8033	0.9951 0.9957 0.8039	0.9965 0.9972 0.8051	0.9980 0.9986 0.8063
79.2 -193.95 1.251			0.9891 0.9897 0.7991	0.9897 0.9903 0.7996	0.9903 0.9909 0.8001	0.9909 0.9915 0.8006	0.9915 0.9922 0.8011	0.9923 0.9929 0.8017	0.9930 0.9937 0.8023	0.9938 0.9944 0.8029	0.9945 0.9951 0.8035	0.9960 0.9966 0.8047	0.9974 0.9981 0.8058
79.3 -193.85 1.265			0.9885 0.9891 0.7986	0.9891 0.9897 0.7991	0.9897 0.9904 0.7996	0.9903 0.9910 0.8001	0.9909 0.9916 0.8006	0.9917 0.9923 0.8012	0.9925 0.9931 0.8018	0.9932 0.9938 0.8024	0.9939 0.9946 0.8030	0.9954 0.9961 0.8042	0.9969 0.9975 0.8054
79.4 -193.75 1.279			0.9879 0.9885 0.7981	0.9885 0.9892 0.7987	0.9891 0.9898 0.7991	0.9898 0.9904 0.7996	0.9904 0.9910 0.8001	0.9911 0.9918 0.8008	0.9919 0.9925 0.8014	0.9926 0.9933 0.8020	0.9934 0.9940 0.8026	0.9945 0.9951 0.8032	0.9963 0.9970 0.8049
79.5 -193.65 1.293			0.9873 0.9880 0.7977	0.9880 0.9886 0.7982	0.9886 0.9892 0.7987	0.9892 0.9898 0.7992	0.9898 0.9904 0.7997	0.9906 0.9912 0.8003	0.9913 0.9920 0.8009	0.9921 0.9927 0.8015	0.9928 0.9935 0.8021	0.9943 0.9949 0.8027	0.9958 0.9964 0.8045
79.6 -193.55 1.308			0.9867 0.9874 0.7972	0.9874 0.9880 0.7977	0.9880 0.9886 0.7982	0.9886 0.9892 0.7987	0.9892 0.9898 0.7992	0.9900 0.9906 0.7998	0.9908 0.9914 0.8004	0.9915 0.9921 0.8011	0.9923 0.9929 0.8017	0.9937 0.9944 0.8023	0.9952 0.9958 0.8040
79.7 -193.45 1.322			0.9862 0.9868 0.7967	0.9868 0.9874 0.7972	0.9874 0.9880 0.7977	0.9880 0.9887 0.7982	0.9887 0.9893 0.7987	0.9894 0.9900 0.7994	0.9902 0.9908 0.8000	0.9909 0.9916 0.8006	0.9917 0.9923 0.8012	0.9932 0.9938 0.8018	0.9947 0.9953 0.8036
79.8 -193.35 1.337			0.9856 0.9862 0.7963	0.9862 0.9868 0.7968	0.9868 0.9875 0.7973	0.9875 0.9881 0.7978	0.9881 0.9887 0.7983	0.9888 0.9895 0.7988	0.9896 0.9902 0.7995	0.9904 0.9910 0.8001	0.9911 0.9918 0.8007	0.9926 0.9933 0.8013	0.9941 0.9947 0.8032
79.9 -193.25 1.352			0.9850 0.9856 0.7958	0.9856 0.9862 0.7963	0.9863 0.9869 0.7968	0.9869 0.9875 0.7973	0.9875 0.9881 0.7978	0.9883 0.9889 0.7984	0.9890 0.9897 0.7991	0.9898 0.9904 0.7997	0.9906 0.9912 0.8003	0.9921 0.9927 0.8009	0.9935 0.9942 0.8027
80.0 -193.15 1.367			0.9844 0.9850 0.7953	0.9850 0.9857 0.7958	0.9857 0.9863 0.7963	0.9863 0.9869 0.7968	0.9869 0.9875 0.7973	0.9877 0.9883 0.7980	0.9885 0.9891 0.7986	0.9892 0.9899 0.7992	0.9900 0.9906 0.7998	0.9915 0.9921 0.8004	0.9930 0.9936 0.8023
80.1 -193.05 1.382			0.9838 0.9844 0.7948	0.9845 0.9851 0.7954	0.9851 0.9857 0.7959	0.9857 0.9863 0.7966	0.9863 0.9870 0.7975	0.9871 0.9877 0.7981	0.9879 0.9885 0.7986	0.9887 0.9893 0.7991	0.9894 0.9901 0.7996	0.9909 0.9916 0.8001	0.9924 0.9931 0.8018
80.2 -192.95 1.397			0.9832 0.9839 0.7944	0.9839 0.9845 0.7949	0.9845 0.9851 0.7954	0.9851 0.9858 0.7959	0.9858 0.9864 0.7964	0.9865 0.9872 0.7970	0.9873 0.9880 0.7977	0.9881 0.9887 0.7983	0.9889 0.9895 0.7989	0.9904 0.9910 0.8001	0.9919 0.9925 0.8014
80.3 -192.85 1.412			0.9826 0.9833 0.7939	0.9833 0.9839 0.7944	0.9839 0.9845 0.7949	0.9846 0.9852 0.7954	0.9852 0.9858 0.7959	0.9860 0.9866 0.7966	0.9867 0.9874 0.7972	0.9875 0.9882 0.7978	0.9883 0.9889 0.7985	0.9898 0.9904 0.7997	0.9913 0.9919 0.8009
80.4 -192.75 1.428			0.9821 0.9827 0.7934	0.9827 0.9833 0.7939	0.9833 0.9840 0.7945	0.9840 0.9846 0.7950	0.9846 0.9852 0.7955	0.9854 0.9860 0.7961	0.9862 0.9868 0.7967	0.9870 0.9876 0.7974	0.9877 0.9884 0.7980	0.9893 0.9899 0.7992	0.9908 0.9914 0.8005
80.5 -192.65 1.443			0.9815 0.9821 0.7929	0.9821 0.9827 0.7935	0.9827 0.9834 0.7940	0.9834 0.9840 0.7945	0.9840 0.9847 0.7950	0.9848 0.9854 0.7956	0.9856 0.9862 0.7963	0.9864 0.9870 0.7969	0.9872 0.9878 0.7975	0.9887 0.9893 0.7981	0.9902 0.9908 0.8000
80.6 -192.55 1.459			0.9809 0.9815 0.7925	0.9815 0.9821 0.7930	0.9822 0.9828 0.7935	0.9828 0.9834 0.7940	0.9834 0.9841 0.7945	0.9842 0.9848 0.7952	0.9850 0.9857 0.7958	0.9858 0.9864 0.7965	0.9866 0.9872 0.7971	0.9881 0.9888 0.7978	0.9896 0.9903 0.7995
80.7 -192.45 1.475			0.9803 0.9809 0.7920	0.9809 0.9816 0.7925	0.9816 0.9822 0.7930	0.9822 0.9828 0.7936	0.9829 0.9835 0.7941	0.9837 0.9843 0.7947	0.9845 0.9851 0.7954	0.9852 0.9859 0.7960	0.9860 0.9866 0.7966	0.9876 0.9882 0.7979	0.9891 0.9897 0.7991
80.8 -192.35 1.491			0.9797 0.9803 0.7915	0.9803 0.9810 0.7920	0.9810 0.9816 0.7926	0.9816 0.9823 0.7931	0.9823 0.9829 0.7936	0.9831 0.9837 0.7942	0.9839 0.9845 0.7948	0.9847 0.9853 0.7955	0.9854 0.9861 0.7962	0.9870 0.9876 0.7974	0.9885 0.9891 0.7986
80.9 -192.25 1.507			0.9791 0.9797 0.7910	0.9797 0.9804 0.7916	0.9804 0.9810 0.7921	0.9811 0.9817 0.7926	0.9817 0.9823 0.7931	0.9825 0.9831 0.7938	0.9833 0.9839 0.7944	0.9841 0.9847 0.7951	0.9849 0.9855 0.7957	0.9864 0.9871 0.7970	0.9880 0.9886 0.7982

TABLE 8 - CONTINUED

DENSITY OF COMPRESSED LIQUID NITROGEN - CONTINUED

TABLE ENTRIES			
1. TEMPERATURE, K			
2. TEMPERATURE, °C			
3. VAPOR PRESSURE, BAR			
BAR	0.000	1.008	2.000
KP/CM ²	0.016	1.020	2.039
4.000	6.000	8.000	10.000
12.500	15.000	17.500	20.000
25.000	30.000	35.000	40.000
45.000	50.000	55.000	60.000
65.000	70.000	75.000	80.000
85.000	90.000	95.000	100.000
105.000	110.000	115.000	120.000
125.000	130.000	135.000	140.000
145.000	150.000	155.000	160.000
165.000	170.000	175.000	180.000
185.000	190.000	195.000	200.000
205.000	210.000	215.000	220.000
225.000	230.000	235.000	240.000
245.000	250.000	255.000	260.000
265.000	270.000	275.000	280.000
285.000	290.000	295.000	300.000
305.000	310.000	315.000	320.000
325.000	330.000	335.000	340.000
345.000	350.000	355.000	360.000
365.000	370.000	375.000	380.000
385.000	390.000	395.000	400.000
405.000	410.000	415.000	420.000
425.000	430.000	435.000	440.000
445.000	450.000	455.000	460.000
465.000	470.000	475.000	480.000
485.000	490.000	495.000	500.000
505.000	510.000	515.000	520.000
525.000	530.000	535.000	540.000
545.000	550.000	555.000	560.000
565.000	570.000	575.000	580.000
585.000	590.000	595.000	600.000
605.000	610.000	615.000	620.000
625.000	630.000	635.000	640.000
645.000	650.000	655.000	660.000
665.000	670.000	675.000	680.000
685.000	690.000	695.000	700.000
705.000	710.000	715.000	720.000
725.000	730.000	735.000	740.000
745.000	750.000	755.000	760.000
765.000	770.000	775.000	780.000
785.000	790.000	795.000	800.000
805.000	810.000	815.000	820.000
825.000	830.000	835.000	840.000
845.000	850.000	855.000	860.000
865.000	870.000	875.000	880.000
885.000	890.000	895.000	900.000
905.000	910.000	915.000	920.000
925.000	930.000	935.000	940.000
945.000	950.000	955.000	960.000
965.000	970.000	975.000	980.000
985.000	990.000	995.000	1000.000

TABLE 8 - CONTINUED

DENSITY OF COMPRESSED LIQUID NITROGEN - CONTINUED

TABLE ENTRIES															
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/DM ³											
BAR KPa/cm ²	0.800 0.816	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.197	12.500 12.746	15.000 15.296	17.500 17.845	20.000 20.394	25.000 25.493	30.000 30.591		
83.0 -190.15 1.675			0.9665 0.9671 0.9685	0.9672 0.9679 0.9686	0.9679 0.9686 0.9692	0.9686 0.9693 0.9698	0.9693 0.9700 0.9705	0.9702 0.9708 0.9713	0.9711 0.9717 0.9723	0.9719 0.9725 0.9731	0.9728 0.9734 0.9740	0.9744 0.9750 0.9755	0.9761 0.9767 0.9773		
83.1 -190.05 1.894			0.9659 0.9665 0.9680	0.9666 0.9672 0.9680	0.9673 0.9680 0.9685	0.9680 0.9687 0.9692	0.9687 0.9694 0.9699	0.9696 0.9702 0.9708	0.9705 0.9711 0.9717	0.9713 0.9719 0.9725	0.9722 0.9728 0.9734	0.9738 0.9745 0.9754	0.9761 0.9767 0.9773		
83.2 -189.95 1.913			0.9653 0.9659 0.9705	0.9660 0.9666 0.9710	0.9667 0.9674 0.9715	0.9674 0.9681 0.9715	0.9681 0.9688 0.9722	0.9688 0.9695 0.9725	0.9695 0.9705 0.9735	0.9707 0.9714 0.9745	0.9716 0.9722 0.9754	0.9733 0.9739 0.9777	0.9749 0.9755 0.9797		
83.3 -189.85 1.932			0.9647 0.9653 0.9794	0.9654 0.9660 0.9706	0.9661 0.9668 0.9711	0.9668 0.9675 0.9717	0.9675 0.9682 0.9724	0.9684 0.9691 0.9724	0.9693 0.9699 0.9731	0.9702 0.9710 0.9741	0.9710 0.9716 0.9745	0.9727 0.9733 0.9769	0.9744 0.9750 0.9787		
83.4 -189.75 1.952			0.9641 0.9647 0.9789	0.9648 0.9654 0.9700	0.9655 0.9661 0.9706	0.9662 0.9669 0.9711	0.9670 0.9676 0.9717	0.9678 0.9684 0.9724	0.9687 0.9693 0.9725	0.9696 0.9703 0.9735	0.9704 0.9710 0.9741	0.9721 0.9727 0.9764	0.9738 0.9744 0.9781		
83.5 -189.65 1.971			0.9635 0.9641 0.9784	0.9642 0.9648 0.9790	0.9649 0.9655 0.9796	0.9656 0.9663 0.9798	0.9664 0.9670 0.9807	0.9672 0.9678 0.9814	0.9681 0.9687 0.9821	0.9690 0.9696 0.9828	0.9698 0.9705 0.9835	0.9715 0.9722 0.9845	0.9732 0.9738 0.9863		
83.6 -189.55 1.991			0.9629 0.9635 0.9775	0.9636 0.9642 0.9785	0.9643 0.9649 0.9791	0.9650 0.9657 0.9797	0.9658 0.9664 0.9802	0.9666 0.9673 0.9810	0.9675 0.9681 0.9817	0.9684 0.9690 0.9824	0.9692 0.9699 0.9831	0.9710 0.9716 0.9844	0.9726 0.9733 0.9854		
83.7 -189.45 2.011			0.9620 0.9626 0.9770	0.9627 0.9633 0.9786	0.9634 0.9641 0.9792	0.9642 0.9649 0.9798	0.9650 0.9657 0.9805	0.9658 0.9665 0.9812	0.9666 0.9673 0.9819	0.9678 0.9684 0.9825	0.9687 0.9693 0.9832	0.9704 0.9710 0.9840	0.9721 0.9727 0.9853		
83.8 -189.35 2.031			0.9612 0.9618 0.9775	0.9619 0.9625 0.9781	0.9626 0.9633 0.9787	0.9634 0.9641 0.9793	0.9642 0.9649 0.9800	0.9650 0.9657 0.9807	0.9658 0.9665 0.9814	0.9672 0.9678 0.9821	0.9681 0.9687 0.9828	0.9698 0.9705 0.9835	0.9715 0.9721 0.9845		
83.9 -189.25 2.052			0.9618 0.9624 0.9770	0.9625 0.9631 0.9776	0.9632 0.9638 0.9782	0.9640 0.9646 0.9788	0.9648 0.9655 0.9795	0.9657 0.9663 0.9802	0.9666 0.9672 0.9809	0.9675 0.9681 0.9816	0.9686 0.9692 0.9821	0.9705 0.9710 0.9828	0.9721 0.9727 0.9834		
84.0 -189.15 2.072			0.9612 0.9618 0.9775	0.9619 0.9625 0.9781	0.9626 0.9633 0.9787	0.9634 0.9641 0.9793	0.9642 0.9649 0.9800	0.9650 0.9657 0.9807	0.9658 0.9665 0.9814	0.9672 0.9678 0.9821	0.9681 0.9687 0.9828	0.9698 0.9705 0.9835	0.9715 0.9721 0.9845		
84.1 -189.05 2.092			0.9605 0.9612 0.9771	0.9613 0.9619 0.9776	0.9620 0.9626 0.9782	0.9628 0.9634 0.9788	0.9637 0.9643 0.9795	0.9645 0.9652 0.9802	0.9654 0.9661 0.9809	0.9664 0.9671 0.9816	0.9675 0.9682 0.9821	0.9692 0.9698 0.9828	0.9709 0.9715 0.9834		
84.2 -188.95 2.113			0.9600 0.9606 0.9775	0.9607 0.9613 0.9782	0.9614 0.9620 0.9787	0.9621 0.9628 0.9793	0.9631 0.9637 0.9800	0.9639 0.9646 0.9807	0.9648 0.9655 0.9814	0.9657 0.9664 0.9821	0.9667 0.9674 0.9828	0.9685 0.9692 0.9835	0.9702 0.9708 0.9845		
84.3 -188.85 2.134			0.9593 0.9599 0.9771	0.9601 0.9607 0.9775	0.9608 0.9614 0.9782	0.9615 0.9622 0.9788	0.9625 0.9631 0.9795	0.9634 0.9640 0.9802	0.9644 0.9649 0.9809	0.9654 0.9659 0.9816	0.9665 0.9671 0.9821	0.9685 0.9691 0.9828	0.9702 0.9708 0.9834		
84.4 -188.75 2.155			0.9587 0.9593 0.9774	0.9595 0.9601 0.9781	0.9602 0.9608 0.9787	0.9610 0.9616 0.9793	0.9620 0.9626 0.9800	0.9630 0.9636 0.9807	0.9640 0.9646 0.9814	0.9650 0.9656 0.9821	0.9661 0.9667 0.9828	0.9681 0.9687 0.9835	0.9700 0.9706 0.9845		
84.5 -188.65 2.176			0.9581 0.9587 0.9774	0.9589 0.9595 0.9781	0.9596 0.9602 0.9787	0.9603 0.9609 0.9793	0.9613 0.9619 0.9800	0.9622 0.9628 0.9807	0.9631 0.9637 0.9814	0.9642 0.9648 0.9821	0.9653 0.9659 0.9828	0.9673 0.9679 0.9835	0.9692 0.9698 0.9845		
84.6 -188.55 2.197			0.9575 0.9581 0.9773	0.9582 0.9589 0.9782	0.9590 0.9596 0.9787	0.9597 0.9603 0.9793	0.9606 0.9613 0.9800	0.9616 0.9622 0.9807	0.9625 0.9631 0.9814	0.9636 0.9642 0.9821	0.9647 0.9653 0.9828	0.9667 0.9673 0.9835	0.9687 0.9693 0.9845		
84.7 -188.45 2.219			0.9569 0.9575 0.9773	0.9576 0.9582 0.9782	0.9584 0.9590 0.9787	0.9591 0.9597 0.9793	0.9600 0.9607 0.9800	0.9610 0.9616 0.9807	0.9619 0.9625 0.9814	0.9628 0.9634 0.9821	0.9638 0.9644 0.9828	0.9658 0.9664 0.9835	0.9678 0.9684 0.9845		
84.8 -188.35 2.241			0.9563 0.9569 0.9772	0.9570 0.9576 0.9782	0.9578 0.9584 0.9787	0.9585 0.9591 0.9793	0.9594 0.9601 0.9800	0.9604 0.9611 0.9807	0.9614 0.9621 0.9814	0.9624 0.9631 0.9821	0.9634 0.9641 0.9828	0.9654 0.9661 0.9835	0.9674 0.9681 0.9845		
84.9 -188.25 2.262			0.9557 0.9563 0.9772	0.9564 0.9570 0.9782	0.9572 0.9578 0.9787	0.9579 0.9585 0.9793	0.9588 0.9594 0.9800	0.9598 0.9605 0.9807	0.9608 0.9615 0.9814	0.9619 0.9626 0.9821	0.9629 0.9636 0.9828	0.9649 0.9656 0.9835	0.9669 0.9676 0.9845		

TABLE 8 - CONTINUED

DENSITY OF COMPRESSED LIQUID NITROGEN - CONTINUED

TABLE ENTRIES															
1. TEMPERATURE, K 2. TEMPERATURE, °C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TCRR, DIMENSIONLESS 3. DENSITY, KG/D ³											
BAR	0.800	1.000	2.000	4.000	6.000	8.000	10.000	12.500	15.000	17.500	20.000	25.000	30.000		
KP/CM ²	0.816	1.020	2.039	4.079	6.118	8.158	10.197	12.746	15.296	17.845	20.394	25.493	30.591		
85.0 -188.15 2.284				0.9550 0.9556 0.7716	0.9558 0.9564 0.7722	0.9566 0.9572 0.7728	0.9573 0.9579 0.7734	0.9582 0.9588 0.7742	0.9592 0.9598 0.7749	0.9601 0.9607 0.7757	0.9610 0.9616 0.7764	0.9628 0.9634 0.7774	0.9645 0.9652 0.7793		
85.1 -188.05 2.306				0.9544 0.9550 0.7711	0.9552 0.9558 0.7717	0.9559 0.9565 0.7723	0.9567 0.9573 0.7729	0.9576 0.9582 0.7737	0.9586 0.9592 0.7744	0.9595 0.9601 0.7752	0.9604 0.9610 0.7759	0.9622 0.9628 0.7774	0.9640 0.9646 0.7788		
85.2 -187.95 2.329				0.9538 0.9544 0.7706	0.9546 0.9552 0.7712	0.9553 0.9559 0.7718	0.9561 0.9567 0.7724	0.9570 0.9576 0.7732	0.9580 0.9586 0.7739	0.9589 0.9595 0.7747	0.9598 0.9604 0.7754	0.9616 0.9622 0.7769	0.9634 0.9640 0.7783		
85.3 -187.85 2.351				0.9532 0.9538 0.7701	0.9540 0.9546 0.7707	0.9547 0.9553 0.7713	0.9555 0.9561 0.7719	0.9564 0.9570 0.7727	0.9574 0.9580 0.7735	0.9583 0.9589 0.7742	0.9592 0.9598 0.7749	0.9610 0.9616 0.7764	0.9628 0.9634 0.7779		
85.4 -187.75 2.374				0.9526 0.9532 0.7696	0.9533 0.9539 0.7702	0.9541 0.9547 0.7708	0.9549 0.9555 0.7714	0.9558 0.9564 0.7722	0.9567 0.9574 0.7730	0.9577 0.9583 0.7737	0.9586 0.9592 0.7745	0.9604 0.9610 0.7759	0.9622 0.9628 0.7774		
85.5 -187.65 2.396				0.9519 0.9525 0.7691	0.9527 0.9533 0.7697	0.9535 0.9541 0.7703	0.9543 0.9549 0.7710	0.9552 0.9558 0.7717	0.9561 0.9567 0.7725	0.9571 0.9577 0.7732	0.9580 0.9586 0.7740	0.9598 0.9604 0.7755	0.9616 0.9622 0.7769		
85.6 -187.55 2.419				0.9513 0.9519 0.7686	0.9521 0.9527 0.7692	0.9529 0.9535 0.7698	0.9536 0.9542 0.7705	0.9546 0.9552 0.7712	0.9555 0.9561 0.7720	0.9565 0.9571 0.7727	0.9574 0.9580 0.7735	0.9592 0.9598 0.7750	0.9610 0.9617 0.7764		
85.7 -187.45 2.442				0.9507 0.9513 0.7681	0.9515 0.9521 0.7687	0.9523 0.9529 0.7693	0.9530 0.9536 0.7700	0.9540 0.9546 0.7707	0.9549 0.9555 0.7715	0.9559 0.9565 0.7723	0.9568 0.9574 0.7730	0.9586 0.9593 0.7745	0.9605 0.9611 0.7760		
85.8 -187.35 2.465				0.9501 0.9507 0.7676	0.9509 0.9515 0.7682	0.9516 0.9522 0.7688	0.9524 0.9530 0.7695	0.9534 0.9540 0.7702	0.9543 0.9549 0.7710	0.9553 0.9559 0.7718	0.9562 0.9568 0.7725	0.9581 0.9587 0.7740	0.9599 0.9605 0.7755		
85.9 -187.25 2.489				0.9495 0.9501 0.7671	0.9502 0.9508 0.7677	0.9510 0.9516 0.7683	0.9518 0.9524 0.7690	0.9528 0.9534 0.7698	0.9537 0.9543 0.7705	0.9547 0.9553 0.7713	0.9556 0.9562 0.7720	0.9575 0.9581 0.7735	0.9593 0.9599 0.7750		
86.0 -187.15 2.512				0.9488 0.9494 0.7666	0.9496 0.9502 0.7672	0.9504 0.9510 0.7678	0.9512 0.9518 0.7685	0.9522 0.9528 0.7693	0.9531 0.9537 0.7700	0.9541 0.9547 0.7708	0.9550 0.9556 0.7716	0.9569 0.9575 0.7731	0.9587 0.9593 0.7745		
86.1 -187.05 2.536				0.9482 0.9488 0.7661	0.9490 0.9496 0.7667	0.9498 0.9504 0.7673	0.9506 0.9512 0.7680	0.9515 0.9521 0.7688	0.9525 0.9531 0.7695	0.9535 0.9541 0.7703	0.9544 0.9550 0.7710	0.9563 0.9569 0.7726	0.9581 0.9587 0.7741		
86.2 -186.95 2.560				0.9476 0.9482 0.7656	0.9484 0.9490 0.7662	0.9492 0.9498 0.7668	0.9500 0.9506 0.7675	0.9509 0.9515 0.7683	0.9519 0.9525 0.7690	0.9529 0.9535 0.7698	0.9538 0.9544 0.7706	0.9557 0.9563 0.7721	0.9575 0.9581 0.7736		
86.3 -186.85 2.584				0.9469 0.9475 0.7651	0.9477 0.9484 0.7657	0.9485 0.9491 0.7663	0.9493 0.9499 0.7670	0.9503 0.9509 0.7678	0.9513 0.9519 0.7686	0.9522 0.9528 0.7693	0.9532 0.9538 0.7701	0.9551 0.9557 0.7716	0.9569 0.9575 0.7731		
86.4 -186.75 2.608				0.9463 0.9469 0.7645	0.9471 0.9477 0.7652	0.9479 0.9485 0.7658	0.9487 0.9493 0.7665	0.9497 0.9503 0.7673	0.9507 0.9513 0.7681	0.9516 0.9522 0.7688	0.9526 0.9532 0.7696	0.9545 0.9551 0.7711	0.9563 0.9569 0.7726		
86.5 -186.65 2.633				0.9457 0.9463 0.7640	0.9465 0.9471 0.7647	0.9473 0.9479 0.7653	0.9481 0.9487 0.7660	0.9491 0.9497 0.7668	0.9501 0.9507 0.7676	0.9510 0.9516 0.7684	0.9520 0.9526 0.7691	0.9539 0.9545 0.7707	0.9558 0.9564 0.7722		
86.6 -186.55 2.657				0.9451 0.9457 0.7635	0.9459 0.9465 0.7642	0.9467 0.9473 0.7648	0.9475 0.9481 0.7655	0.9485 0.9491 0.7663	0.9494 0.9500 0.7671	0.9504 0.9510 0.7679	0.9514 0.9520 0.7686	0.9533 0.9539 0.7702	0.9552 0.9558 0.7717		
86.7 -186.45 2.682				0.9444 0.9450 0.7630	0.9452 0.9458 0.7637	0.9461 0.9467 0.7643	0.9469 0.9475 0.7650	0.9479 0.9485 0.7658	0.9488 0.9494 0.7666	0.9498 0.9504 0.7674	0.9508 0.9514 0.7681	0.9527 0.9533 0.7697	0.9546 0.9552 0.7712		
86.8 -186.35 2.707				0.9438 0.9444 0.7625	0.9446 0.9452 0.7632	0.9454 0.9460 0.7638	0.9462 0.9468 0.7645	0.9472 0.9478 0.7653	0.9482 0.9488 0.7661	0.9492 0.9498 0.7669	0.9502 0.9508 0.7677	0.9521 0.9527 0.7692	0.9540 0.9546 0.7707		
86.9 -186.25 2.732				0.9432 0.9438 0.7620	0.9440 0.9446 0.7627	0.9448 0.9454 0.7633	0.9456 0.9462 0.7640	0.9466 0.9472 0.7648	0.9476 0.9482 0.7656	0.9486 0.9492 0.7664	0.9496 0.9502 0.7672	0.9515 0.9521 0.7687	0.9534 0.9540 0.7703		

TABLE 8 - CONTINUED

DENSITY OF COMPRESSED LIQUID NITROGEN - CONTINUED

		TABLE ENTRIES											
1. TEMPERATURE, K		1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS											
2. TEMPERATURE, °C		2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS											
3. VAPOR PRESSURE, BAR		3. DENSITY, KG/M ³											
BAR	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
KPa/cm ²	0.016	1.000	2.000	4.000	6.000	8.000	10.000	12.500	15.000	17.500	20.000	25.000	30.000
	0.816	1.020	2.039	4.079	6.118	8.158	10.197	12.746	15.296	17.845	20.394	25.493	30.591
87.0				0.9425	0.9434	0.9442	0.9450	0.9466	0.9470	0.9480	0.9490	0.9509	0.9528
-166.15				0.9431	0.9440	0.9448	0.9456	0.9466	0.9476	0.9486	0.9496	0.9515	0.9534
-2.757				0.7615	0.7622	0.7628	0.7635	0.7643	0.7651	0.7659	0.7667	0.7682	0.7698
87.1				0.9419	0.9427	0.9436	0.9444	0.9454	0.9464	0.9474	0.9484	0.9503	0.9522
-166.05				0.9425	0.9433	0.9441	0.9450	0.9460	0.9470	0.9480	0.9490	0.9508	0.9528
-2.783				0.7610	0.7616	0.7623	0.7630	0.7638	0.7646	0.7654	0.7662	0.7678	0.7693
87.2				0.9413	0.9421	0.9429	0.9437	0.9448	0.9458	0.9468	0.9477	0.9497	0.9516
-165.95				0.9419	0.9427	0.9435	0.9443	0.9454	0.9464	0.9474	0.9483	0.9503	0.9522
-2.808				0.7605	0.7611	0.7618	0.7625	0.7633	0.7641	0.7649	0.7657	0.7673	0.7688
87.3				0.9406	0.9415	0.9423	0.9431	0.9441	0.9451	0.9461	0.9471	0.9491	0.9510
-165.85				0.9412	0.9421	0.9429	0.9437	0.9447	0.9457	0.9467	0.9477	0.9497	0.9516
-2.834				0.7600	0.7606	0.7613	0.7620	0.7628	0.7636	0.7644	0.7652	0.7668	0.7683
87.4				0.9400	0.9408	0.9417	0.9425	0.9435	0.9445	0.9455	0.9465	0.9485	0.9504
-165.75				0.9406	0.9414	0.9423	0.9431	0.9441	0.9451	0.9461	0.9471	0.9491	0.9510
-2.860				0.7594	0.7601	0.7608	0.7615	0.7623	0.7631	0.7639	0.7647	0.7663	0.7679
87.5				0.9394	0.9402	0.9410	0.9419	0.9428	0.9439	0.9449	0.9459	0.9479	0.9498
-165.65				0.9400	0.9408	0.9416	0.9425	0.9435	0.9445	0.9455	0.9465	0.9485	0.9504
-2.886				0.7589	0.7596	0.7603	0.7609	0.7618	0.7626	0.7634	0.7642	0.7658	0.7674
87.6				0.9387	0.9396	0.9404	0.9412	0.9423	0.9433	0.9443	0.9453	0.9473	0.9492
-165.55				0.9393	0.9402	0.9410	0.9418	0.9428	0.9439	0.9449	0.9459	0.9479	0.9498
-2.912				0.7584	0.7591	0.7598	0.7604	0.7613	0.7621	0.7629	0.7637	0.7653	0.7669
87.7				0.9381	0.9389	0.9398	0.9406	0.9416	0.9427	0.9437	0.9447	0.9467	0.9486
-165.45				0.9387	0.9395	0.9404	0.9412	0.9422	0.9433	0.9443	0.9453	0.9473	0.9492
-2.939				0.7579	0.7586	0.7593	0.7599	0.7608	0.7616	0.7624	0.7632	0.7648	0.7664
87.8				0.9374	0.9383	0.9391	0.9400	0.9410	0.9420	0.9431	0.9441	0.9461	0.9480
-165.35				0.9380	0.9389	0.9397	0.9406	0.9416	0.9426	0.9437	0.9447	0.9467	0.9486
-2.965				0.7574	0.7581	0.7587	0.7594	0.7603	0.7611	0.7619	0.7627	0.7643	0.7659
87.9				0.9368	0.9377	0.9385	0.9394	0.9404	0.9414	0.9424	0.9435	0.9455	0.9474
-165.25				0.9374	0.9383	0.9391	0.9399	0.9410	0.9420	0.9430	0.9441	0.9461	0.9480
-2.992				0.7569	0.7576	0.7582	0.7589	0.7597	0.7606	0.7614	0.7622	0.7635	0.7654
88.0				0.9362	0.9370	0.9379	0.9387	0.9398	0.9408	0.9418	0.9428	0.9449	0.9468
-165.15				0.9368	0.9376	0.9385	0.9393	0.9404	0.9414	0.9424	0.9434	0.9455	0.9474
-3.019				0.7563	0.7570	0.7577	0.7584	0.7593	0.7601	0.7609	0.7617	0.7634	0.7650
88.1				0.9355	0.9364	0.9372	0.9381	0.9391	0.9402	0.9412	0.9422	0.9442	0.9462
-165.05				0.9361	0.9370	0.9378	0.9387	0.9397	0.9408	0.9418	0.9428	0.9448	0.9468
-3.046				0.7558	0.7565	0.7572	0.7579	0.7587	0.7596	0.7604	0.7612	0.7625	0.7645
88.2				0.9349	0.9357	0.9366	0.9375	0.9385	0.9396	0.9406	0.9416	0.9436	0.9456
-164.95				0.9355	0.9363	0.9372	0.9381	0.9391	0.9402	0.9412	0.9422	0.9442	0.9462
-3.074				0.7553	0.7560	0.7567	0.7574	0.7582	0.7591	0.7599	0.7607	0.7624	0.7640
88.3				0.9342	0.9351	0.9360	0.9368	0.9378	0.9389	0.9400	0.9410	0.9430	0.9450
-164.85				0.9348	0.9357	0.9366	0.9374	0.9385	0.9395	0.9406	0.9416	0.9436	0.9456
-3.101				0.7548	0.7555	0.7562	0.7569	0.7577	0.7586	0.7594	0.7602	0.7619	0.7635
88.4				0.9336	0.9345	0.9353	0.9362	0.9372	0.9383	0.9394	0.9404	0.9424	0.9444
-164.75				0.9342	0.9351	0.9359	0.9368	0.9378	0.9389	0.9399	0.9410	0.9430	0.9450
-3.129				0.7543	0.7550	0.7557	0.7564	0.7572	0.7581	0.7589	0.7599	0.7614	0.7630
88.5				0.9329	0.9338	0.9347	0.9356	0.9366	0.9377	0.9387	0.9398	0.9418	0.9438
-164.65				0.9335	0.9344	0.9353	0.9361	0.9372	0.9383	0.9393	0.9404	0.9424	0.9444
-3.157				0.7537	0.7545	0.7552	0.7559	0.7567	0.7576	0.7584	0.7593	0.7609	0.7625
88.6				0.9323	0.9332	0.9341	0.9349	0.9360	0.9371	0.9381	0.9391	0.9412	0.9432
-164.55				0.9329	0.9338	0.9346	0.9355	0.9366	0.9376	0.9387	0.9397	0.9418	0.9438
-3.185				0.7532	0.7539	0.7546	0.7553	0.7562	0.7571	0.7579	0.7588	0.7604	0.7620
88.7				0.9317	0.9325	0.9334	0.9343	0.9354	0.9364	0.9375	0.9385	0.9406	0.9426
-164.45				0.9322	0.9331	0.9340	0.9349	0.9360	0.9370	0.9381	0.9391	0.9412	0.9432
-3.213				0.7527	0.7534	0.7541	0.7548	0.7557	0.7566	0.7574	0.7583	0.7595	0.7615
88.8				0.9310	0.9319	0.9328	0.9336	0.9347	0.9358	0.9369	0.9379	0.9400	0.9420
-164.35				0.9316	0.9325	0.9334	0.9342	0.9353	0.9364	0.9375	0.9385	0.9406	0.9426
-3.242				0.7522	0.7529	0.7536	0.7543	0.7552	0.7560	0.7569	0.7577	0.7594	0.7611
88.9				0.9304	0.9312	0.9321	0.9329	0.9341	0.9352	0.9362	0.9373	0.9394	0.9414
-164.25				0.9309	0.9318	0.9327	0.9336	0.9347	0.9358	0.9368	0.9379	0.9400	0.9420
-3.270				0.7516	0.7524	0.7531	0.7538	0.7547	0.7555	0.7564	0.7572	0.7589	0.7606

TABLE 6 - CONTINUED

DENSITY OF COMPRESSED LIQUID NITROGEN - CONTINUED

				TABLE ENTRIES														
1. TEMPERATURE, K 2. TEMPERATURE, °C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/M ³														
BAR	0.000	1.000	2.000	4.000	6.000	8.000	10.000	12.500	15.000	17.500	20.000	25.000	30.000					
K/°C/MPa	0.016	1.020	2.039	4.079	6.118	8.158	10.197	12.746	15.296	17.845	20.394	25.493	30.591					
89.0 -184.15 3.299				0.9297 0.9303 0.7511	0.9306 0.9312 0.7518	0.9315 0.9321 0.7526	0.9324 0.9330 0.7533	0.9335 0.9341 0.7542	0.9345 0.9351 0.7550	0.9356 0.9362 0.7559	0.9367 0.9373 0.7567	0.9377 0.9383 0.7574	0.9387 0.9393 0.7581	0.9408 0.9414 0.7601				
89.1 -184.05 3.328				0.9291 0.9296 0.7506	0.9300 0.9305 0.7513	0.9308 0.9314 0.7520	0.9317 0.9323 0.7528	0.9326 0.9334 0.7536	0.9339 0.9345 0.7545	0.9350 0.9356 0.7554	0.9360 0.9366 0.7562	0.9371 0.9377 0.7570	0.9381 0.9387 0.7579	0.9402 0.9408 0.7596				
89.2 -183.95 3.357				0.9284 0.9290 0.7501	0.9293 0.9299 0.7508	0.9302 0.9308 0.7515	0.9311 0.9317 0.7522	0.9322 0.9328 0.7531	0.9333 0.9339 0.7540	0.9344 0.9349 0.7549	0.9354 0.9360 0.7557	0.9365 0.9371 0.7564	0.9375 0.9381 0.7571	0.9396 0.9402 0.7591				
89.3 -183.85 3.387				0.9277 0.9283 0.7495	0.9287 0.9292 0.7503	0.9296 0.9301 0.7510	0.9304 0.9310 0.7517	0.9316 0.9321 0.7526	0.9326 0.9332 0.7535	0.9337 0.9343 0.7544	0.9348 0.9354 0.7552	0.9359 0.9365 0.7560	0.9370 0.9376 0.7569	0.9390 0.9396 0.7586				
89.4 -183.75 3.416				0.9271 0.9277 0.7490	0.9280 0.9286 0.7498	0.9289 0.9295 0.7505	0.9298 0.9304 0.7512	0.9309 0.9315 0.7521	0.9320 0.9326 0.7530	0.9331 0.9337 0.7539	0.9342 0.9348 0.7547	0.9353 0.9359 0.7554	0.9363 0.9369 0.7561	0.9384 0.9390 0.7581				
89.5 -183.65 3.446				0.9264 0.9270 0.7485	0.9274 0.9279 0.7492	0.9283 0.9289 0.7500	0.9292 0.9298 0.7507	0.9303 0.9309 0.7516	0.9314 0.9320 0.7525	0.9325 0.9331 0.7534	0.9335 0.9341 0.7542	0.9345 0.9351 0.7550	0.9355 0.9361 0.7559	0.9376 0.9384 0.7576				
89.6 -183.55 3.476				0.9258 0.9264 0.7480	0.9267 0.9273 0.7487	0.9276 0.9282 0.7494	0.9285 0.9291 0.7502	0.9296 0.9302 0.7511	0.9307 0.9313 0.7520	0.9318 0.9324 0.7528	0.9329 0.9335 0.7537	0.9339 0.9345 0.7545	0.9350 0.9356 0.7554	0.9371 0.9377 0.7571				
89.7 -183.45 3.506				0.9251 0.9257 0.7474	0.9261 0.9266 0.7482	0.9270 0.9276 0.7489	0.9279 0.9285 0.7496	0.9290 0.9296 0.7505	0.9301 0.9307 0.7514	0.9312 0.9318 0.7523	0.9323 0.9329 0.7532	0.9334 0.9340 0.7540	0.9345 0.9351 0.7549	0.9365 0.9371 0.7566				
89.8 -183.35 3.536				0.9245 0.9251 0.7469	0.9254 0.9260 0.7476	0.9263 0.9269 0.7484	0.9272 0.9278 0.7491	0.9284 0.9290 0.7500	0.9295 0.9301 0.7508	0.9306 0.9312 0.7516	0.9317 0.9323 0.7525	0.9328 0.9334 0.7533	0.9339 0.9345 0.7542	0.9359 0.9365 0.7561				
89.9 -183.25 3.567				0.9238 0.9244 0.7464	0.9247 0.9253 0.7471	0.9257 0.9263 0.7479	0.9266 0.9272 0.7486	0.9277 0.9283 0.7495	0.9288 0.9294 0.7504	0.9299 0.9305 0.7513	0.9310 0.9316 0.7522	0.9321 0.9327 0.7530	0.9332 0.9338 0.7539	0.9353 0.9359 0.7557				
90.0 -183.15 3.598				0.9232 0.9237 0.7458	0.9241 0.9247 0.7466	0.9250 0.9256 0.7473	0.9259 0.9265 0.7481	0.9271 0.9277 0.7490	0.9282 0.9288 0.7499	0.9293 0.9299 0.7508	0.9304 0.9310 0.7517	0.9315 0.9321 0.7525	0.9326 0.9332 0.7534	0.9347 0.9353 0.7552				
90.1 -183.05 3.629				0.9225 0.9231 0.7453	0.9234 0.9240 0.7461	0.9244 0.9249 0.7468	0.9253 0.9259 0.7476	0.9264 0.9270 0.7485	0.9276 0.9281 0.7494	0.9287 0.9293 0.7503	0.9298 0.9304 0.7512	0.9309 0.9315 0.7520	0.9320 0.9326 0.7529	0.9341 0.9347 0.7547				
90.2 -182.95 3.660				0.9218 0.9224 0.7448	0.9228 0.9234 0.7455	0.9237 0.9243 0.7463	0.9246 0.9252 0.7470	0.9258 0.9264 0.7480	0.9269 0.9275 0.7489	0.9280 0.9286 0.7498	0.9291 0.9297 0.7507	0.9301 0.9307 0.7515	0.9312 0.9318 0.7524	0.9333 0.9339 0.7542				
90.3 -182.85 3.691				0.9212 0.9218 0.7442	0.9221 0.9227 0.7450	0.9231 0.9236 0.7457	0.9240 0.9246 0.7465	0.9251 0.9257 0.7474	0.9263 0.9269 0.7483	0.9274 0.9280 0.7493	0.9285 0.9291 0.7502	0.9296 0.9302 0.7510	0.9307 0.9313 0.7519	0.9329 0.9335 0.7537				
90.4 -182.75 3.722				0.9205 0.9211 0.7437	0.9215 0.9220 0.7445	0.9224 0.9230 0.7452	0.9233 0.9239 0.7460	0.9245 0.9251 0.7468	0.9256 0.9262 0.7476	0.9267 0.9273 0.7485	0.9278 0.9284 0.7494	0.9289 0.9295 0.7502	0.9299 0.9305 0.7511	0.9321 0.9327 0.7529				
90.5 -182.65 3.754				0.9198 0.9204 0.7432	0.9208 0.9214 0.7439	0.9217 0.9223 0.7447	0.9227 0.9233 0.7454	0.9238 0.9244 0.7464	0.9250 0.9256 0.7473	0.9261 0.9267 0.7482	0.9272 0.9278 0.7491	0.9283 0.9289 0.7500	0.9294 0.9300 0.7509	0.9316 0.9322 0.7527				
90.6 -182.55 3.786				0.9192 0.9198 0.7426	0.9201 0.9207 0.7434	0.9211 0.9217 0.7442	0.9220 0.9226 0.7449	0.9232 0.9238 0.7458	0.9243 0.9249 0.7468	0.9255 0.9261 0.7477	0.9266 0.9272 0.7486	0.9277 0.9283 0.7495	0.9288 0.9294 0.7504	0.9310 0.9316 0.7522				
90.7 -182.45 3.818				0.9185 0.9191 0.7421	0.9195 0.9201 0.7429	0.9204 0.9210 0.7436	0.9214 0.9220 0.7444	0.9225 0.9231 0.7453	0.9237 0.9243 0.7463	0.9248 0.9254 0.7472	0.9259 0.9265 0.7481	0.9270 0.9276 0.7490	0.9281 0.9287 0.7499	0.9304 0.9310 0.7517				
90.8 -182.35 3.850				0.9178 0.9184 0.7415	0.9188 0.9194 0.7423	0.9198 0.9203 0.7431	0.9207 0.9213 0.7439	0.9219 0.9225 0.7448	0.9231 0.9237 0.7457	0.9242 0.9248 0.7467	0.9253 0.9259 0.7476	0.9264 0.9270 0.7485	0.9275 0.9281 0.7494	0.9298 0.9304 0.7512				
90.9 -182.25 3.883				0.9172 0.9178 0.7410	0.9181 0.9187 0.7418	0.9191 0.9197 0.7426	0.9201 0.9206 0.7433	0.9212 0.9218 0.7443	0.9224 0.9230 0.7452	0.9236 0.9242 0.7462	0.9247 0.9253 0.7471	0.9258 0.9264 0.7480	0.9269 0.9275 0.7489	0.9292 0.9298 0.7507				

TABLE 8 - CONTINUED

DENSITY OF COMPRESSED LIQUID NITROGEN - CONTINUED

TABLE ENTRIES													
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/D ³									
BAR K/°C/2	0.600 0.616	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.197	12.500 12.746	15.000 15.286	17.500 17.845	20.000 20.394	25.000 25.493	30.000 30.591
91.0 -182.15 3.916				0.9165 0.9171 0.7405	0.9175 0.9181 0.7412	0.9184 0.9190 0.7420	0.9194 0.9200 0.7428	0.9206 0.9212 0.7438	0.9218 0.9223 0.7447	0.9229 0.9235 0.7456	0.9241 0.9247 0.7466	0.9263 0.9269 0.7484	0.9285 0.9291 0.7502
91.1 -182.05 3.949				0.9158 0.9164 0.7399	0.9168 0.9174 0.7407	0.9178 0.9184 0.7415	0.9187 0.9193 0.7423	0.9196 0.9202 0.7432	0.9211 0.9217 0.7442	0.9223 0.9229 0.7451	0.9234 0.9240 0.7461	0.9257 0.9263 0.7479	0.9279 0.9285 0.7497
91.2 -181.95 3.982				0.9152 0.9157 0.7394	0.9161 0.9167 0.7402	0.9171 0.9177 0.7410	0.9181 0.9187 0.7417	0.9193 0.9199 0.7427	0.9205 0.9210 0.7437	0.9216 0.9222 0.7446	0.9228 0.9234 0.7455	0.9251 0.9257 0.7474	0.9273 0.9279 0.7492
91.3 -181.85 4.015				0.9155 0.9161 0.7396	0.9165 0.9170 0.7404	0.9174 0.9180 0.7412	0.9186 0.9192 0.7422	0.9198 0.9204 0.7431	0.9210 0.9216 0.7441	0.9221 0.9227 0.7450	0.9244 0.9250 0.7465	0.9267 0.9273 0.7481	0.9297 0.9303 0.7497
91.4 -181.75 4.048				0.9148 0.9154 0.7391	0.9150 0.9164 0.7399	0.9168 0.9173 0.7407	0.9180 0.9186 0.7416	0.9192 0.9197 0.7426	0.9203 0.9205 0.7436	0.9215 0.9221 0.7445	0.9238 0.9244 0.7464	0.9260 0.9266 0.7482	0.9280 0.9286 0.7498
91.5 -181.65 4.082				0.9141 0.9147 0.7385	0.9151 0.9157 0.7393	0.9161 0.9167 0.7401	0.9173 0.9179 0.7411	0.9185 0.9191 0.7421	0.9197 0.9203 0.7430	0.9209 0.9215 0.7440	0.9232 0.9238 0.7458	0.9254 0.9260 0.7476	0.9276 0.9282 0.7494
91.6 -181.55 4.116				0.9135 0.9140 0.7380	0.9145 0.9150 0.7388	0.9154 0.9160 0.7396	0.9167 0.9172 0.7406	0.9179 0.9184 0.7416	0.9190 0.9196 0.7425	0.9202 0.9208 0.7435	0.9225 0.9231 0.7453	0.9248 0.9254 0.7472	0.9270 0.9276 0.7490
91.7 -181.45 4.150				0.9128 0.9134 0.7375	0.9138 0.9144 0.7383	0.9148 0.9154 0.7391	0.9160 0.9166 0.7400	0.9172 0.9178 0.7410	0.9184 0.9190 0.7420	0.9196 0.9202 0.7429	0.9219 0.9225 0.7448	0.9242 0.9248 0.7467	0.9264 0.9270 0.7486
91.8 -181.35 4.185				0.9121 0.9127 0.7369	0.9131 0.9137 0.7377	0.9141 0.9147 0.7385	0.9153 0.9159 0.7395	0.9166 0.9171 0.7405	0.9178 0.9183 0.7415	0.9189 0.9195 0.7424	0.9213 0.9219 0.7443	0.9235 0.9241 0.7461	0.9257 0.9263 0.7479
91.9 -181.25 4.219				0.9114 0.9120 0.7364	0.9124 0.9130 0.7372	0.9134 0.9140 0.7380	0.9147 0.9153 0.7390	0.9159 0.9165 0.7400	0.9171 0.9177 0.7409	0.9183 0.9189 0.7419	0.9206 0.9212 0.7438	0.9229 0.9235 0.7456	0.9251 0.9257 0.7475
92.0 -181.15 4.254				0.9108 0.9113 0.7358	0.9118 0.9124 0.7366	0.9128 0.9134 0.7374	0.9140 0.9146 0.7384	0.9152 0.9158 0.7394	0.9164 0.9170 0.7404	0.9176 0.9182 0.7414	0.9200 0.9206 0.7433	0.9223 0.9229 0.7451	0.9245 0.9251 0.7470
92.1 -181.05 4.289				0.9101 0.9107 0.7353	0.9111 0.9117 0.7361	0.9121 0.9127 0.7369	0.9134 0.9139 0.7376	0.9146 0.9152 0.7389	0.9158 0.9164 0.7399	0.9170 0.9176 0.7409	0.9194 0.9199 0.7428	0.9217 0.9223 0.7446	0.9239 0.9245 0.7465
92.2 -180.95 4.324				0.9094 0.9100 0.7347	0.9104 0.9110 0.7355	0.9114 0.9120 0.7364	0.9127 0.9133 0.7374	0.9139 0.9145 0.7384	0.9151 0.9157 0.7394	0.9163 0.9169 0.7403	0.9187 0.9193 0.7422	0.9210 0.9216 0.7441	0.9232 0.9238 0.7460
92.3 -180.85 4.359				0.9087 0.9093 0.7342	0.9098 0.9103 0.7350	0.9108 0.9113 0.7358	0.9120 0.9126 0.7368	0.9133 0.9138 0.7378	0.9145 0.9151 0.7388	0.9157 0.9163 0.7398	0.9181 0.9187 0.7417	0.9204 0.9210 0.7436	0.9226 0.9232 0.7455
92.4 -180.75 4.395				0.9080 0.9086 0.7336	0.9091 0.9097 0.7345	0.9101 0.9107 0.7353	0.9114 0.9119 0.7363	0.9126 0.9132 0.7373	0.9138 0.9144 0.7383	0.9151 0.9156 0.7393	0.9174 0.9180 0.7412	0.9198 0.9204 0.7431	0.9220 0.9226 0.7450
92.5 -180.65 4.431				0.9074 0.9079 0.7331	0.9084 0.9090 0.7338	0.9094 0.9100 0.7347	0.9107 0.9113 0.7356	0.9119 0.9125 0.7368	0.9132 0.9138 0.7378	0.9144 0.9150 0.7388	0.9168 0.9174 0.7407	0.9191 0.9197 0.7426	0.9214 0.9220 0.7445
92.6 -180.55 4.467				0.9067 0.9073 0.7325	0.9077 0.9083 0.7334	0.9088 0.9093 0.7342	0.9100 0.9106 0.7352	0.9113 0.9119 0.7362	0.9125 0.9131 0.7372	0.9137 0.9143 0.7382	0.9162 0.9167 0.7402	0.9185 0.9191 0.7421	0.9208 0.9214 0.7440
92.7 -180.45 4.503				0.9060 0.9066 0.7320	0.9070 0.9076 0.7328	0.9081 0.9087 0.7336	0.9094 0.9099 0.7347	0.9106 0.9112 0.7357	0.9118 0.9124 0.7367	0.9131 0.9137 0.7377	0.9155 0.9161 0.7397	0.9179 0.9185 0.7416	0.9202 0.9208 0.7435
92.8 -180.35 4.540				0.9053 0.9059 0.7314	0.9064 0.9069 0.7323	0.9074 0.9080 0.7331	0.9087 0.9093 0.7341	0.9100 0.9105 0.7352	0.9112 0.9118 0.7362	0.9124 0.9130 0.7372	0.9149 0.9155 0.7391	0.9173 0.9179 0.7411	0.9197 0.9203 0.7430
92.9 -180.25 4.576				0.9046 0.9052 0.7309	0.9057 0.9063 0.7317	0.9067 0.9073 0.7326	0.9080 0.9086 0.7336	0.9093 0.9099 0.7346	0.9105 0.9111 0.7356	0.9118 0.9124 0.7366	0.9142 0.9148 0.7386	0.9166 0.9172 0.7405	0.9190 0.9196 0.7425

TABLE 8 - CONTINUED

DENSITY OF COMPRESSED LIQUID NITROGEN - CONTINUED

1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR				TABLE ENTRIES 1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/M ³															
BAR K/CM ²	0.000 0.016	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.110	8.000 8.158	10.000 10.197	12.500 12.746	15.000 15.296	17.500 17.845	20.000 20.394	25.000 25.493	30.000 30.591						
93.0 -180.15 4.613					0.9039 0.9045 0.7303	0.9050 0.9056 0.7312	0.9060 0.9065 0.7320	0.9073 0.9075 0.7331	0.9086 0.9087 0.7341	0.9099 0.9101 0.7351	0.9111 0.9117 0.7361	0.9136 0.9142 0.7371	0.9160 0.9166 0.7381						
93.1 -180.05 4.650					0.9032 0.9038 0.7297	0.9043 0.9049 0.7306	0.9054 0.9059 0.7315	0.9067 0.9072 0.7325	0.9080 0.9085 0.7335	0.9092 0.9098 0.7346	0.9105 0.9111 0.7356	0.9129 0.9135 0.7376	0.9153 0.9159 0.7385						
93.2 -179.95 4.686					0.9026 0.9031 0.7292	0.9036 0.9042 0.7301	0.9047 0.9053 0.7309	0.9060 0.9066 0.7320	0.9073 0.9079 0.7330	0.9086 0.9091 0.7340	0.9099 0.9104 0.7351	0.9123 0.9129 0.7371	0.9147 0.9153 0.7380						
93.3 -179.85 4.725					0.9019 0.9024 0.7286	0.9029 0.9035 0.7295	0.9040 0.9046 0.7304	0.9053 0.9055 0.7314	0.9066 0.9072 0.7325	0.9079 0.9085 0.7335	0.9092 0.9097 0.7345	0.9116 0.9122 0.7365	0.9141 0.9146 0.7375						
93.4 -179.75 4.763					0.9012 0.9017 0.7281	0.9023 0.9028 0.7289	0.9033 0.9039 0.7298	0.9046 0.9052 0.7305	0.9059 0.9065 0.7319	0.9072 0.9078 0.7330	0.9085 0.9091 0.7340	0.9110 0.9116 0.7360	0.9134 0.9140 0.7370						
93.5 -179.65 4.801					0.9005 0.9011 0.7275	0.9016 0.9021 0.7284	0.9026 0.9032 0.7293	0.9040 0.9045 0.7303	0.9053 0.9058 0.7314	0.9066 0.9071 0.7324	0.9078 0.9084 0.7335	0.9103 0.9108 0.7355	0.9128 0.9134 0.7365						
93.6 -179.55 4.839					0.8998 0.9004 0.7270	0.9009 0.9014 0.7278	0.9020 0.9025 0.7287	0.9033 0.9035 0.7298	0.9046 0.9052 0.7308	0.9059 0.9065 0.7319	0.9072 0.9078 0.7329	0.9097 0.9103 0.7350	0.9121 0.9127 0.7369						
93.7 -179.45 4.877					0.8991 0.8997 0.7264	0.9002 0.9008 0.7273	0.9013 0.9018 0.7281	0.9026 0.9032 0.7292	0.9039 0.9045 0.7303	0.9052 0.9058 0.7313	0.9065 0.9071 0.7324	0.9090 0.9096 0.7344	0.9115 0.9121 0.7354						
93.8 -179.35 4.916					0.8984 0.8990 0.7258	0.8995 0.9001 0.7267	0.9006 0.9012 0.7276	0.9019 0.9025 0.7287	0.9033 0.9038 0.7300	0.9046 0.9051 0.7311	0.9059 0.9064 0.7321	0.9084 0.9090 0.7341	0.9108 0.9114 0.7351						
93.9 -179.25 4.955					0.8977 0.8983 0.7253	0.8988 0.8994 0.7262	0.8999 0.9005 0.7270	0.9012 0.9018 0.7281	0.9026 0.9032 0.7292	0.9039 0.9045 0.7303	0.9052 0.9058 0.7313	0.9077 0.9083 0.7334	0.9102 0.9108 0.7344						
94.0 -179.15 4.994					0.8970 0.8976 0.7247	0.8981 0.8987 0.7256	0.8992 0.8998 0.7265	0.9006 0.9011 0.7276	0.9019 0.9025 0.7287	0.9032 0.9038 0.7297	0.9045 0.9051 0.7308	0.9071 0.9077 0.7328	0.9096 0.9102 0.7338						
94.1 -179.05 5.033					0.8963 0.8969 0.7241	0.8974 0.8980 0.7250	0.8985 0.8991 0.7259	0.8998 0.9004 0.7270	0.9012 0.9018 0.7281	0.9025 0.9031 0.7292	0.9039 0.9044 0.7303	0.9064 0.9070 0.7323	0.9089 0.9095 0.7333						
94.2 -178.95 5.073					0.8956 0.8962 0.7236	0.8967 0.8973 0.7245	0.8978 0.8984 0.7254	0.8992 0.8998 0.7265	0.9005 0.9011 0.7276	0.9019 0.9024 0.7286	0.9032 0.9038 0.7297	0.9058 0.9063 0.7318	0.9083 0.9089 0.7328						
94.3 -178.85 5.113					0.8949 0.8955 0.7230	0.8960 0.8966 0.7239	0.8971 0.8977 0.7248	0.8985 0.8991 0.7259	0.8998 0.9004 0.7270	0.9012 0.9018 0.7281	0.9025 0.9031 0.7292	0.9051 0.9057 0.7313	0.9076 0.9082 0.7323						
94.4 -178.75 5.153					0.8942 0.8947 0.7224	0.8953 0.8959 0.7233	0.8964 0.8970 0.7242	0.8978 0.8984 0.7254	0.8992 0.8997 0.7265	0.9005 0.9011 0.7275	0.9019 0.9024 0.7286	0.9045 0.9050 0.7307	0.9070 0.9076 0.7317						
94.5 -178.65 5.193					0.8935 0.8940 0.7215	0.8946 0.8952 0.7228	0.8957 0.8963 0.7237	0.8971 0.8977 0.7248	0.8985 0.8991 0.7259	0.8998 0.9004 0.7270	0.9012 0.9018 0.7281	0.9038 0.9044 0.7302	0.9063 0.9069 0.7312						
94.6 -178.55 5.233					0.8928 0.8933 0.7213	0.8939 0.8945 0.7222	0.8950 0.8956 0.7231	0.8964 0.8970 0.7242	0.8978 0.8984 0.7254	0.8992 0.8997 0.7265	0.9005 0.9011 0.7275	0.9031 0.9037 0.7297	0.9056 0.9062 0.7307						
94.7 -178.45 5.274					0.8921 0.8926 0.7207	0.8932 0.8938 0.7216	0.8943 0.8949 0.7226	0.8957 0.8963 0.7237	0.8971 0.8977 0.7248	0.8985 0.8991 0.7259	0.8998 0.9004 0.7270	0.9024 0.9030 0.7291	0.9049 0.9055 0.7312						
94.8 -178.35 5.315					0.8913 0.8919 0.7201	0.8925 0.8931 0.7211	0.8936 0.8942 0.7220	0.8951 0.8956 0.7231	0.8964 0.8970 0.7242	0.8978 0.8984 0.7254	0.8992 0.8997 0.7265	0.9018 0.9024 0.7286	0.9043 0.9049 0.7296						
94.9 -178.25 5.356					0.8906 0.8912 0.7196	0.8918 0.8924 0.7205	0.8929 0.8935 0.7214	0.8944 0.8949 0.7226	0.8958 0.8963 0.7237	0.8971 0.8977 0.7248	0.8985 0.8991 0.7259	0.9011 0.9017 0.7281	0.9037 0.9043 0.7291						

TABLE 8 - CONTINUED

DENSITY OF COMPRESSED LIQUID NITROGEN - CONTINUED

TABLE ENTRIES				TABLE ENTRIES									
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TCRR, DIMENSIONLESS 3. DENSITY, KG/D ³									
BAR K/CM ²	0.800 0.816	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.110	8.000 8.158	10.000 10.197	12.500 12.746	15.000 15.296	17.500 17.845	20.000 20.394	25.000 25.493	30.000 30.591
95.0 -176.15 5.397				0.8899 0.8905 0.7190	0.8911 0.8917 0.7199	0.8922 0.8928 0.7209	0.8937 0.8942 0.7220	0.8951 0.8956 0.7231	0.8964 0.8969 0.7243	0.8978 0.8984 0.7254	0.9005 0.9011 0.7275	0.9031 0.9037 0.7296	
95.1 -176.05 5.439				0.8892 0.8898 0.7184	0.8904 0.8909 0.7194	0.8915 0.8921 0.7203	0.8930 0.8935 0.7214	0.8944 0.8949 0.7226	0.8958 0.8963 0.7237	0.8971 0.8977 0.7248	0.8998 0.9004 0.7270	0.9024 0.9030 0.7291	
95.2 -177.95 5.481				0.8885 0.8891 0.7178	0.8897 0.8902 0.7188	0.8908 0.8914 0.7197	0.8923 0.8928 0.7209	0.8937 0.8943 0.7220	0.8951 0.8956 0.7231	0.8965 0.8970 0.7243	0.8992 0.8997 0.7264	0.9018 0.9024 0.7286	
95.3 -177.85 5.523				0.8878 0.8883 0.7172	0.8890 0.8895 0.7182	0.8901 0.8907 0.7191	0.8916 0.8921 0.7203	0.8930 0.8935 0.7215	0.8944 0.8949 0.7226	0.8958 0.8963 0.7237	0.8985 0.8991 0.7259	0.9011 0.9017 0.7280	
95.4 -177.75 5.565				0.8871 0.8876 0.7167	0.8882 0.8888 0.7176	0.8894 0.8900 0.7186	0.8909 0.8914 0.7197	0.8923 0.8929 0.7209	0.8937 0.8943 0.7220	0.8951 0.8957 0.7232	0.8978 0.8984 0.7254	0.9005 0.9010 0.7275	
95.5 -177.65 5.608				0.8863 0.8869 0.7161	0.8875 0.8881 0.7170	0.8887 0.8893 0.7180	0.8902 0.8907 0.7192	0.8916 0.8922 0.7203	0.8930 0.8936 0.7215	0.8944 0.8950 0.7226	0.8972 0.8977 0.7248	0.8998 0.9004 0.7270	
95.6 -177.55 5.650				0.8856 0.8862 0.7155	0.8868 0.8874 0.7165	0.8880 0.8886 0.7174	0.8895 0.8901 0.7186	0.8909 0.8915 0.7198	0.8923 0.8929 0.7209	0.8937 0.8943 0.7221	0.8965 0.8970 0.7243	0.8992 0.8997 0.7264	
95.7 -177.45 5.693				0.8849 0.8855 0.7149	0.8861 0.8867 0.7159	0.8873 0.8879 0.7169	0.8888 0.8893 0.7180	0.8902 0.8908 0.7192	0.8916 0.8922 0.7204	0.8931 0.8936 0.7215	0.8958 0.8964 0.7237	0.8985 0.8991 0.7259	
95.8 -177.35 5.737				0.8842 0.8847 0.7143	0.8854 0.8859 0.7153	0.8866 0.8871 0.7163	0.8881 0.8886 0.7175	0.8895 0.8901 0.7187	0.8910 0.8915 0.7198	0.8924 0.8929 0.7210	0.8951 0.8957 0.7232	0.8978 0.8984 0.7254	
95.9 -177.25 5.780				0.8834 0.8840 0.7137	0.8847 0.8852 0.7147	0.8859 0.8864 0.7157	0.8874 0.8879 0.7168	0.8888 0.8893 0.7181	0.8903 0.8908 0.7193	0.8917 0.8922 0.7204	0.8945 0.8950 0.7227	0.8972 0.8977 0.7248	
96.0 -177.15 5.824				0.8827 0.8833 0.7132	0.8839 0.8845 0.7141	0.8852 0.8857 0.7151	0.8866 0.8872 0.7163	0.8881 0.8887 0.7175	0.8896 0.8901 0.7187	0.8910 0.8916 0.7198	0.8938 0.8944 0.7221	0.8965 0.8971 0.7243	
96.1 -177.05 5.868				0.8820 0.8825 0.7126	0.8832 0.8838 0.7136	0.8844 0.8850 0.7145	0.8858 0.8864 0.7158	0.8874 0.8880 0.7170	0.8889 0.8894 0.7181	0.8903 0.8909 0.7193	0.8931 0.8936 0.7216	0.8958 0.8964 0.7238	
96.2 -176.95 5.912				0.8813 0.8818 0.7120	0.8825 0.8831 0.7130	0.8837 0.8843 0.7140	0.8852 0.8858 0.7152	0.8867 0.8873 0.7164	0.8882 0.8887 0.7176	0.8896 0.8902 0.7187	0.8924 0.8930 0.7210	0.8952 0.8958 0.7232	
96.3 -176.85 5.957				0.8805 0.8811 0.7114	0.8810 0.8816 0.7124	0.8820 0.8826 0.7134	0.8834 0.8840 0.7146	0.8849 0.8855 0.7158	0.8864 0.8870 0.7170	0.8879 0.8885 0.7182	0.8907 0.8913 0.7205	0.8935 0.8941 0.7227	
96.4 -176.75 6.001				0.8801 0.8816 0.7110	0.8823 0.8829 0.7118	0.8838 0.8844 0.7128	0.8853 0.8859 0.7140	0.8868 0.8874 0.7152	0.8883 0.8889 0.7164	0.8898 0.8904 0.7176	0.8926 0.8932 0.7199	0.8954 0.8960 0.7222	
96.5 -176.65 6.046				0.8803 0.8809 0.7112	0.8816 0.8822 0.7122	0.8831 0.8836 0.7135	0.8846 0.8852 0.7147	0.8861 0.8867 0.7159	0.8876 0.8882 0.7171	0.8891 0.8897 0.7183	0.8919 0.8925 0.7206	0.8947 0.8953 0.7228	
96.6 -176.55 6.091				0.8796 0.8801 0.7106	0.8808 0.8814 0.7116	0.8824 0.8829 0.7129	0.8839 0.8845 0.7141	0.8854 0.8860 0.7153	0.8869 0.8875 0.7165	0.8884 0.8890 0.7177	0.8912 0.8918 0.7200	0.8940 0.8946 0.7223	
96.7 -176.45 6.137				0.8789 0.8794 0.7100	0.8801 0.8807 0.7111	0.8817 0.8823 0.7123	0.8832 0.8837 0.7135	0.8847 0.8853 0.7147	0.8862 0.8868 0.7159	0.8877 0.8883 0.7171	0.8905 0.8911 0.7194	0.8933 0.8939 0.7217	
96.8 -176.35 6.182				0.8781 0.8787 0.7094	0.8794 0.8799 0.7105	0.8809 0.8815 0.7117	0.8825 0.8830 0.7130	0.8840 0.8846 0.7142	0.8855 0.8861 0.7154	0.8870 0.8876 0.7166	0.8898 0.8904 0.7189	0.8926 0.8932 0.7212	
96.9 -176.25 6.228				0.8774 0.8779 0.7088	0.8787 0.8792 0.7099	0.8802 0.8808 0.7111	0.8818 0.8823 0.7124	0.8833 0.8839 0.7136	0.8848 0.8854 0.7148	0.8863 0.8869 0.7160	0.8891 0.8897 0.7183	0.8919 0.8925 0.7206	

TABLE 8 - CONTINUED

DENSITY OF COMPRESSED LIQUID NITROGEN - CONTINUED

				TABLE ENTRIES											
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TCRR, DIMENSIONLESS 3. DENSITY, KG/CM ³											
BAR	0.000	1.000	2.000	4.000	6.000	8.000	10.000	12.500	15.000	17.500	20.000	25.000	30.000		
KP/CM ²	0.016	1.020	2.039	4.079	6.118	8.158	10.197	12.746	15.296	17.846	20.396	25.493	30.591		
97.0 -176.15 6.274						0.8766 0.8772 0.7083	0.8779 0.8785 0.7093	0.8795 0.8801 0.7106	0.8810 0.8816 0.7118	0.8826 0.8831 0.7130	0.8841 0.8846 0.7142	0.8870 0.8875 0.7166	0.8898 0.8904 0.7189		
97.1 -176.05 6.321						0.8759 0.8765 0.7077	0.8772 0.8777 0.7087	0.8788 0.8793 0.7100	0.8803 0.8808 0.7112	0.8816 0.8821 0.7125	0.8834 0.8839 0.7137	0.8863 0.8868 0.7161	0.8892 0.8897 0.7184		
97.2 -175.95 6.368						0.8752 0.8757 0.7071	0.8765 0.8770 0.7081	0.8780 0.8786 0.7094	0.8796 0.8802 0.7106	0.8811 0.8817 0.7119	0.8827 0.8832 0.7131	0.8856 0.8862 0.7155	0.8885 0.8890 0.7178		
97.3 -175.85 6.416						0.8744 0.8750 0.7065	0.8757 0.8763 0.7075	0.8773 0.8778 0.7088	0.8788 0.8794 0.7101	0.8804 0.8810 0.7113	0.8820 0.8825 0.7125	0.8849 0.8855 0.7149	0.8878 0.8883 0.7173		
97.4 -175.75 6.462						0.8737 0.8742 0.7059	0.8750 0.8755 0.7069	0.8766 0.8771 0.7082	0.8782 0.8787 0.7095	0.8797 0.8803 0.7107	0.8812 0.8818 0.7120	0.8842 0.8848 0.7144	0.8871 0.8877 0.7167		
97.5 -175.65 6.509						0.8729 0.8735 0.7053	0.8743 0.8748 0.7063	0.8759 0.8764 0.7076	0.8774 0.8780 0.7089	0.8788 0.8796 0.7102	0.8805 0.8811 0.7114	0.8835 0.8841 0.7138	0.8865 0.8870 0.7162		
97.6 -175.55 6.557						0.8722 0.8727 0.7047	0.8735 0.8741 0.7057	0.8751 0.8757 0.7070	0.8767 0.8773 0.7083	0.8783 0.8789 0.7096	0.8798 0.8804 0.7108	0.8828 0.8834 0.7133	0.8858 0.8863 0.7156		
97.7 -175.45 6.605						0.8714 0.8720 0.7041	0.8728 0.8733 0.7051	0.8744 0.8750 0.7064	0.8760 0.8766 0.7077	0.8776 0.8781 0.7090	0.8791 0.8797 0.7103	0.8822 0.8827 0.7127	0.8851 0.8857 0.7151		
97.8 -175.35 6.653						0.8707 0.8713 0.7035	0.8720 0.8726 0.7045	0.8737 0.8742 0.7058	0.8753 0.8759 0.7072	0.8769 0.8774 0.7084	0.8784 0.8790 0.7097	0.8815 0.8820 0.7121	0.8844 0.8850 0.7145		
97.9 -175.25 6.701						0.8699 0.8705 0.7028	0.8713 0.8718 0.7039	0.8729 0.8735 0.7053	0.8746 0.8751 0.7066	0.8761 0.8767 0.7079	0.8777 0.8783 0.7091	0.8808 0.8813 0.7116	0.8837 0.8843 0.7140		
98.0 -175.15 6.750						0.8692 0.8697 0.7022	0.8705 0.8711 0.7033	0.8722 0.8727 0.7047	0.8738 0.8744 0.7060	0.8754 0.8760 0.7073	0.8770 0.8776 0.7085	0.8801 0.8806 0.7110	0.8830 0.8836 0.7134		
98.1 -175.05 6.799						0.8684 0.8690 0.7016	0.8698 0.8703 0.7027	0.8715 0.8721 0.7041	0.8731 0.8736 0.7054	0.8747 0.8753 0.7067	0.8763 0.8768 0.7080	0.8794 0.8799 0.7105	0.8824 0.8829 0.7129		
98.2 -174.95 6.848						0.8677 0.8682 0.7019	0.8690 0.8696 0.7021	0.8707 0.8712 0.7035	0.8724 0.8729 0.7048	0.8740 0.8745 0.7061	0.8756 0.8761 0.7074	0.8787 0.8792 0.7099	0.8817 0.8822 0.7123		
98.3 -174.85 6.897						0.8669 0.8675 0.7004	0.8683 0.8688 0.7015	0.8700 0.8705 0.7029	0.8716 0.8722 0.7042	0.8733 0.8738 0.7055	0.8749 0.8754 0.7068	0.8780 0.8785 0.7093	0.8810 0.8815 0.7118		
98.4 -174.75 6.947						0.8662 0.8667 0.6998	0.8675 0.8681 0.7009	0.8692 0.8698 0.7023	0.8709 0.8714 0.7036	0.8725 0.8731 0.7049	0.8741 0.8747 0.7062	0.8773 0.8778 0.7088	0.8803 0.8809 0.7112		
98.5 -174.65 6.997						0.8654 0.8660 0.6992	0.8668 0.8673 0.7003	0.8685 0.8690 0.7017	0.8702 0.8707 0.7030	0.8718 0.8724 0.7043	0.8734 0.8740 0.7056	0.8766 0.8771 0.7082	0.8796 0.8802 0.7107		
98.6 -174.55 7.047						0.8646 0.8652 0.6986	0.8660 0.8666 0.6997	0.8677 0.8683 0.7011	0.8694 0.8700 0.7024	0.8711 0.8716 0.7038	0.8727 0.8732 0.7051	0.8759 0.8764 0.7076	0.8789 0.8795 0.7101		
98.7 -174.45 7.098						0.8639 0.8644 0.6979	0.8653 0.8658 0.6991	0.8670 0.8675 0.7005	0.8687 0.8692 0.7018	0.8703 0.8709 0.7032	0.8720 0.8725 0.7045	0.8752 0.8757 0.7070	0.8782 0.8787 0.7095		
98.8 -174.35 7.148						0.8631 0.8637 0.6973	0.8645 0.8651 0.6985	0.8662 0.8668 0.6995	0.8679 0.8685 0.7012	0.8696 0.8702 0.7026	0.8713 0.8718 0.7039	0.8744 0.8750 0.7065	0.8775 0.8781 0.7090		
98.9 -174.25 7.199						0.8623 0.8629 0.6967	0.8638 0.8643 0.6978	0.8655 0.8660 0.6992	0.8672 0.8678 0.7006	0.8689 0.8694 0.7020	0.8705 0.8711 0.7033	0.8737 0.8743 0.7059	0.8768 0.8774 0.7084		

TABLE 6 - CONTINUED

DENSITY OF COMPRESSED LIQUID NITROGEN - CONTINUED

		TABLE ENTRIES											
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR		1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/DM ³											
BAR KPa/CH ²	0.000 0.016	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.197	12.000 12.746	15.000 15.296	17.500 17.845	20.000 20.394	25.000 25.493	30.000 30.591
99.0 -174.15 7.251						0.8616 0.8621 0.6961	0.8630 0.8635 0.6972	0.8647 0.8652 0.6986	0.8665 0.8670 0.7000	0.8681 0.8687 0.7014	0.8698 0.8704 0.7027	0.8730 0.8736 0.7053	0.8761 0.8767 0.7075
100.0 -173.15 7.776						0.8538 0.8543 0.6898	0.8553 0.8558 0.6910	0.8571 0.8577 0.6925	0.8589 0.8595 0.6939	0.8607 0.8613 0.6954	0.8625 0.8630 0.6968	0.8659 0.8664 0.6995	0.8691 0.8697 0.7022
101.0 -172.15 8.332							0.8474 0.8479 0.6862	0.8493 0.8498 0.6877	0.8512 0.8518 0.6892	0.8531 0.8537 0.6907	0.8550 0.8555 0.6922	0.8585 0.8591 0.6936	0.8620 0.8625 0.6954
102.0 -171.15 8.914							0.8392 0.8398 0.6780	0.8413 0.8418 0.6814	0.8433 0.8439 0.6830	0.8453 0.8459 0.6845	0.8473 0.8478 0.6860	0.8511 0.8516 0.6876	0.8547 0.8552 0.6895
103.0 -170.15 9.525							0.8309 0.8314 0.6713	0.8331 0.8336 0.6731	0.8352 0.8358 0.6748	0.8374 0.8379 0.6765	0.8394 0.8400 0.6782	0.8434 0.8440 0.6814	0.8473 0.8478 0.6845
104.0 -169.15 10.165								0.8246 0.8251 0.6662	0.8269 0.8274 0.6681	0.8292 0.8297 0.6699	0.8314 0.8319 0.6717	0.8356 0.8361 0.6751	0.8397 0.8402 0.6784
105.0 -168.15 10.836								0.8158 0.8163 0.6591	0.8183 0.8188 0.6611	0.8207 0.8212 0.6630	0.8231 0.8236 0.6650	0.8276 0.8281 0.6686	0.8319 0.8324 0.6721
106.0 -167.15 11.536								0.8066 0.8073 0.6516	0.8094 0.8099 0.6539	0.8120 0.8125 0.6560	0.8145 0.8150 0.6581	0.8193 0.8199 0.6619	0.8239 0.8244 0.6656
107.0 -166.15 12.271								0.7973 0.7978 0.6442	0.8002 0.8007 0.6465	0.8030 0.8035 0.6488	0.8057 0.8062 0.6509	0.8108 0.8114 0.6551	0.8157 0.8162 0.6590
108.0 -165.15 13.038									0.7906 0.7911 0.6388	0.7936 0.7941 0.6412	0.7966 0.7971 0.6435	0.8021 0.8026 0.6480	0.8073 0.8078 0.6522
109.0 -164.15 13.836									0.7806 0.7811 0.6307	0.7839 0.7844 0.6333	0.7871 0.7876 0.6359	0.7930 0.7935 0.6407	0.7986 0.7991 0.6452
110.0 -163.15 14.672									0.7701 0.7706 0.6222	0.7737 0.7742 0.6251	0.7772 0.7776 0.6279	0.7836 0.7841 0.6331	0.7896 0.7901 0.6380
111.0 -162.15 15.542										0.7630 0.7635 0.6164	0.7668 0.7673 0.6195	0.7738 0.7743 0.6252	0.7803 0.7808 0.6304
112.0 -161.15 16.446										0.7517 0.7521 0.6073	0.7559 0.7563 0.6107	0.7636 0.7641 0.6169	0.7707 0.7712 0.6226
113.0 -160.15 17.392										0.7396 0.7401 0.5975	0.7443 0.7448 0.6033	0.7529 0.7534 0.6083	0.7606 0.7611 0.6145
114.0 -159.15 18.373											0.7319 0.7324 0.5913	0.7415 0.7420 0.5991	0.7501 0.7505 0.6060
115.0 -158.15 19.394											0.7186 0.7190 0.5806	0.7295 0.7299 0.5893	0.7389 0.7394 0.5970
116.0 -157.15 20.455												0.7165 0.7170 0.5789	0.7272 0.7276 0.5875
117.0 -156.15 21.598												0.7025 0.7029 0.5675	0.7146 0.7151 0.5774
118.0 -155.15 22.704												0.6870 0.6874 0.5550	0.7011 0.7016 0.5665

TABLE 8 - CONTINUED

DENSITY OF COMPRESSED LIQUID NITROGEN - CONTINUED

			TABLE ENTRIES												
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR			1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/DM ³												
BAR KPa/CM ²	0.800 0.816	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.198	10.000 10.197	12.500 12.746	15.000 15.296	17.500 17.845	20.000 20.394	25.000 25.493	30.000 30.591		
119.0 -154.15 23.693												0.6695 0.6699 0.5409	0.6864 0.6868 0.5545		
120.0 -153.15 25.128														0.6701 0.6705 0.5414	
121.0 -152.15 26.410														0.6515 0.6519 0.5264	
122.0 -151.15 27.741														0.6297 0.6301 0.5087	
123.0 -150.15 29.122														0.6021 0.6025 0.4864	

8. ARGON

The data for argon given here are from Gosman, et al. (1969). The entire PVT tabulations were calculated by a simultaneous solution of the vapor pressure equation and the equation of state reported by these authors. The calculation of each point was performed by solving the vapor pressure equation for either P or T depending on which was the integral value input. Using the P and T so obtained, a corresponding density was found from the equation of state.

Values near room temperature are given in table 9, uncertainties for the data in table 10, values for the saturated liquid are given in table 11 and values for the compressed liquid are shown in table 12. The values differ from those in the CGA pamphlet P-6

Table 9

Density of Argon Near Atmospheric Pressure and Room Temperature

Temperature	Pressure	Density		Volume	
		gram-mole/cm ³	kg/dm ³	cm ³ /gram-mole	dm ³ /kg
0° C	1 bar	4.4074x10 ⁻⁵	1.7606x10 ⁻³	22689.	567.96
	760 torr	4.4659x10 ⁻⁵	1.7840x10 ⁻³	22392.	560.53
15° C	1 bar	4.1772x10 ⁻⁵	1.6687x10 ⁻³	23940.	599.27
	760 torr	4.2326x10 ⁻⁵	1.6908x10 ⁻³	23626.	591.43
Density Ratios - Dimensionless					
Liquid Density at a boiling pressure of 1 bar [*] /density at 1 bar and 0° C					792.13
Liquid Density at a boiling pressure of 1 bar/density at 1 bar and 15° C					835.79
Liquid Density at a boiling pressure of 760 torr [†] /density at 760 torr and 0° C					781.34
Liquid Density at a boiling pressure of 760 torr/density at 760 torr and 15° C					824.40

* Liquid density at a boiling pressure of 1 bar 1.3947 kg/dm³

† Liquid density at a boiling pressure of 760 torr 1.3939 kg/dm³

by about 0.02% primarily because a higher order interpolation is used here. The value of the density at the boiling point at 760 torr differs from that in the CGA pamphlet P-6 by 0.4%. The new correlation includes quite recent data, both on PVT and on the temperature scale corrections, and should, therefore, be more accurate.

Table 10
Uncertainties in the Data for Argon

variable	uncertainty	range of temperature
temperature	0.08%	84 to 87 K
	0.02%	87 to 154 K
	0.015 K	room temperature
volume	0.1%	triple point to 145 K
	increase to 1%	linearly from 145 K to critical
	0.01%	room temperature
pressure	0.1%	84 to 87 K
	0.02%	87 to 154 K
	0.01%	room temperature

TABLE 11 SATURATED LIQUID ARGON

PRESSURE		TEMPERATURE		DENSITY		VOLUME		LIQUID DENSITY / PRESS. OF 1 BAR		DENSITY RATIOS ~ LIQUID DENSITY / PRESS. OF 1 BAR		DIMENSIONLESS LIQUID DENSITY / PRESS. OF 1 BAR	
BAR	KP/CM ²	KELVIN	CELSIUS	GRAM-MOLE/ CM ³	KG/ DM ³	CM ³ / GRAM-MOLE	DM ³ / KG						
0.689	0.702	83.800	-189.350	0.035413	1.4147	28.239	0.7069		1.0143		1.0149		
0.705	0.719	84.000	-189.150	0.035383	1.4135	28.262	0.7075		1.0135		1.0140		
0.717	0.731	84.150	-189.000	0.035361	1.4126	28.279	0.7079		1.0129		1.0134		
0.790	0.805	85.000	-188.150	0.035236	1.4076	28.380	0.7104		1.0093		1.0098		
0.800	0.816	85.115	-188.035	0.035219	1.4067	28.394	0.7108		1.0088		1.0093		
0.803	0.819	85.150	-188.000	0.035214	1.4067	28.398	0.7109		1.0086		1.0092		
0.882	0.900	86.000	-187.150	0.035087	1.4017	28.500	0.7134		1.0050		1.0056		
0.897	0.915	86.150	-187.000	0.035065	1.4008	28.519	0.7139		1.0044		1.0049		
0.981	1.000	86.977	-186.173	0.034940	1.3958	28.620	0.7164		1.0008		1.0013		
0.983	1.002	87.000	-186.150	0.034937	1.3956	28.623	0.7165		1.0007		1.0012		
0.999	1.019	87.150	-186.000	0.034914	1.3947	28.642	0.7170		1.0000		1.0006		
1.000	1.020	87.160	-185.990	0.034912	1.3947	28.643	0.7170		1.0000		1.0005		
1.013	1.033	87.284	-185.866	0.034893	1.3939	28.659	0.7174		0.9995		1.0000		
1.092	1.114	88.000	-185.150	0.034784	1.3896	28.749	0.7197		0.9963		0.9969		
1.110	1.131	88.150	-185.000	0.034761	1.3886	28.768	0.7201		0.9957		0.9962		
1.200	1.224	88.911	-184.239	0.034644	1.3839	28.865	0.7226		0.9923		0.9928		
1.211	1.235	89.000	-184.150	0.034630	1.3834	28.877	0.7229		0.9919		0.9924		
1.229	1.254	89.150	-184.000	0.034607	1.3825	28.896	0.7233		0.9912		0.9918		
1.339	1.365	90.000	-183.150	0.034474	1.3772	29.087	0.7261		0.9875		0.9880		
1.359	1.386	90.150	-183.000	0.034451	1.3762	29.097	0.7266		0.9868		0.9873		
1.400	1.428	90.452	-182.698	0.034403	1.3743	29.067	0.7276		0.9854		0.9860		
1.477	1.506	91.000	-182.150	0.034317	1.3709	29.140	0.7295		0.9829		0.9835		
1.498	1.528	91.150	-182.000	0.034293	1.3699	29.160	0.7300		0.9823		0.9828		
1.600	1.632	91.834	-181.316	0.034185	1.3656	29.253	0.7323		0.9792		0.9797		
1.625	1.657	92.000	-181.150	0.034158	1.3645	29.276	0.7328		0.9784		0.9789		
1.649	1.681	92.150	-181.000	0.034134	1.3636	29.296	0.7334		0.9777		0.9782		
1.785	1.820	93.000	-180.150	0.033994	1.3581	29.414	0.7363		0.9738		0.9743		
1.800	1.835	93.091	-180.059	0.033983	1.3576	29.426	0.7366		0.9734		0.9739		
1.810	1.846	93.150	-180.000	0.033974	1.3572	29.435	0.7368		0.9731		0.9736		
1.956	1.995	94.000	-179.150	0.033836	1.3517	29.554	0.7398		0.9692		0.9697		
1.961	2.000	94.030	-179.120	0.033831	1.3515	29.559	0.7399		0.9690		0.9696		
1.983	2.022	94.150	-179.000	0.033812	1.3507	29.576	0.7404		0.9685		0.9690		
2.000	2.039	94.247	-178.903	0.033796	1.3501	29.589	0.7407		0.9680		0.9685		
2.139	2.191	95.000	-178.150	0.033673	1.3452	29.698	0.7434		0.9645		0.9650		
2.168	2.210	95.150	-178.000	0.033648	1.3442	29.719	0.7440		0.9638		0.9643		
2.200	2.243	95.319	-177.831	0.033620	1.3431	29.744	0.7446		0.9630		0.9635		
2.365	2.391	96.000	-177.150	0.033508	1.3386	29.844	0.7471		0.9598		0.9603		
2.365	2.412	96.150	-177.000	0.033483	1.3376	29.866	0.7476		0.9591		0.9596		
2.400	2.447	96.321	-176.829	0.033465	1.3365	29.891	0.7482		0.9583		0.9588		
2.543	2.593	97.000	-176.150	0.033342	1.3319	29.992	0.7508		0.9550		0.9555		

TABLE 11 CONTINUED

SATURATED LIQUID ARGON

PRESSURE BAR	KP/CM ²	TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	VOLUME		DENSITY RATIOS - LIQUID DENSITY/ DENSITY AT A BOIL PRESS. OF 1 BAR	DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL PRESS. OF 760 TORR
		KELVIN	CELSIUS		CM ³ / GRAM-MOLE	DN ³ / KG		
2.576	2.626	97.150	-176.000	0.033317	1.3309	0.7514	0.9543	0.9548
2.600	2.651	97.262	-175.888	0.033298	1.3302	0.7518	0.9538	0.9543
2.765	2.820	98.000	-175.150	0.033174	1.3252	0.7546	0.9507	0.9507
2.800	2.855	98.150	-175.000	0.033149	1.3242	0.7552	0.9495	0.9500
2.800	2.855	98.151	-175.000	0.033149	1.3242	0.7552	0.9495	0.9500
2.942	3.000	98.754	-174.396	0.033047	1.3201	0.7575	0.9471	0.9471
3.000	3.059	98.994	-174.156	0.033006	1.3185	0.7584	0.9454	0.9459
3.001	3.061	99.000	-174.150	0.033005	1.3185	0.7584	0.9454	0.9459
3.038	3.098	99.150	-174.000	0.032979	1.3175	0.7590	0.9446	0.9451
3.200	3.263	99.796	-173.354	0.032869	1.3131	0.7616	0.9415	0.9420
3.252	3.316	100.000	-173.150	0.032834	1.3117	0.7624	0.9405	0.9410
3.291	3.356	100.150	-173.000	0.032808	1.3106	0.7630	0.9397	0.9402
3.400	3.467	100.563	-172.587	0.032738	1.3078	0.7646	0.9377	0.9382
3.518	3.588	101.000	-172.000	0.032662	1.3048	0.7661	0.9355	0.9360
3.518	3.588	101.000	-172.000	0.032662	1.3048	0.7661	0.9355	0.9360
3.600	3.671	101.297	-171.853	0.032611	1.3027	0.7670	0.9341	0.9346
3.600	3.671	101.297	-171.853	0.032611	1.3027	0.7670	0.9341	0.9346
3.800	3.875	102.001	-171.149	0.032488	1.2978	0.7705	0.9306	0.9311
3.843	3.919	102.150	-171.000	0.032462	1.2968	0.7711	0.9298	0.9303
3.923	4.000	102.420	-170.730	0.032415	1.2949	0.7723	0.9285	0.9290
4.000	4.079	102.679	-170.471	0.032369	1.2931	0.7733	0.9277	0.9282
4.097	4.178	103.000	-170.150	0.032313	1.2908	0.7747	0.9255	0.9260
4.143	4.225	103.150	-170.000	0.032286	1.2898	0.7753	0.9248	0.9253
4.200	4.283	103.333	-169.817	0.032254	1.2885	0.7761	0.9239	0.9244
4.400	4.487	103.964	-169.166	0.032142	1.2840	0.7788	0.9212	0.9217
4.412	4.499	104.000	-169.150	0.032136	1.2838	0.7790	0.9210	0.9215
4.460	4.548	104.150	-169.000	0.032109	1.2827	0.7796	0.9205	0.9210
4.600	4.691	104.574	-168.576	0.032033	1.2797	0.7814	0.9175	0.9180
4.743	4.837	105.000	-168.150	0.031937	1.2766	0.7833	0.9154	0.9159
4.794	4.889	105.150	-168.000	0.031930	1.2756	0.7840	0.9146	0.9151
4.800	4.895	105.166	-167.984	0.031927	1.2754	0.7844	0.9145	0.9150
4.903	5.000	105.465	-167.685	0.031874	1.2733	0.7854	0.9130	0.9135
5.000	5.099	105.740	-167.410	0.031824	1.2713	0.7866	0.9115	0.9120
5.093	5.193	106.000	-167.150	0.031777	1.2694	0.7878	0.9107	0.9112
5.147	5.248	106.150	-167.000	0.031750	1.2683	0.7884	0.9094	0.9099
5.200	5.303	106.297	-166.853	0.031723	1.2673	0.7891	0.9086	0.9091
5.400	5.506	106.840	-166.310	0.031624	1.2633	0.7916	0.9053	0.9058
5.460	5.568	107.000	-166.150	0.031595	1.2621	0.7923	0.9040	0.9045
5.517	5.626	107.150	-166.000	0.031577	1.2610	0.7930	0.9027	0.9032
5.600	5.710	107.367	-165.783	0.031527	1.2595	0.7940	0.9008	0.9013
5.800	5.914	107.882	-165.268	0.031433	1.2557	0.7964	0.8977	0.8982
5.847	5.962	108.000	-165.150	0.031411	1.2548	0.7969	0.8969	0.8974
5.884	6.000	108.194	-165.166	0.031391	1.2541	0.7974	0.8957	0.8962
5.906	6.023	108.150	-165.000	0.031333	1.2527	0.7976	0.8949	0.8954
6.000	6.118	108.383	-164.767	0.031330	1.2520	0.7988	0.8937	0.8942

TABLE 11 CONTINUED

SATURATED LIQUID ARGON

PRESSURE		TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	VOLUME		DENSITY RATIOS -	
BAR	KP/CM ²	KELVIN	CELSIUS		GRAM-MOLE	CM ³ / KG	LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 1 BAR	DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 760 TORR
6.200	6.322	108.873	-164.277	0.031248	1.2483	32.002	0.8951	0.8955
6.253	6.376	109.000	-164.150	0.031225	1.2474	32.026	0.8944	0.8949
6.315	6.440	109.150	-164.000	0.031197	1.2462	32.055	0.8936	0.8941
6.400	6.526	109.352	-163.798	0.031159	1.2447	32.094	0.8925	0.8930
6.600	6.730	109.820	-163.330	0.031071	1.2412	32.184	0.8900	0.8905
6.678	6.810	110.000	-163.150	0.031037	1.2399	32.220	0.8890	0.8895
6.744	6.877	110.150	-163.000	0.031008	1.2387	32.249	0.8882	0.8887
6.800	6.934	110.277	-162.873	0.030984	1.2378	32.274	0.8875	0.8880
6.865	7.000	110.423	-162.727	0.030957	1.2367	32.303	0.8867	0.8872
7.000	7.128	110.725	-162.425	0.030899	1.2344	32.363	0.8851	0.8855
7.125	7.265	111.000	-162.150	0.030847	1.2323	32.418	0.8836	0.8840
7.193	7.335	111.150	-162.000	0.030818	1.2311	32.448	0.8827	0.8832
7.200	7.342	111.164	-161.986	0.030815	1.2310	32.451	0.8827	0.8831
7.400	7.546	111.595	-161.555	0.030733	1.2277	32.538	0.8803	0.8808
7.592	7.742	112.000	-161.150	0.030655	1.2246	32.621	0.8781	0.8785
7.600	7.750	112.017	-161.133	0.030652	1.2245	32.625	0.8780	0.8784
7.664	7.815	112.150	-161.000	0.030626	1.2234	32.652	0.8772	0.8777
7.800	7.954	112.431	-160.719	0.030571	1.2213	32.710	0.8757	0.8761
7.845	8.000	112.524	-160.626	0.030553	1.2205	32.730	0.8751	0.8756
8.000	8.158	112.838	-160.312	0.030492	1.2181	32.795	0.8734	0.8739
8.081	8.240	113.000	-160.150	0.030460	1.2168	32.830	0.8725	0.8730
8.156	8.317	113.150	-160.000	0.030431	1.2157	32.861	0.8716	0.8721
8.200	8.362	113.237	-159.913	0.030414	1.2150	32.880	0.8712	0.8716
8.400	8.566	113.629	-159.521	0.030337	1.2119	32.963	0.8689	0.8694
8.592	8.761	114.000	-159.150	0.030264	1.2090	33.043	0.8673	0.8678
8.600	8.770	114.015	-159.135	0.030261	1.2089	33.046	0.8668	0.8672
8.671	8.842	114.150	-159.000	0.030234	1.2078	33.075	0.8660	0.8665
8.800	8.974	114.395	-158.755	0.030185	1.2058	33.129	0.8646	0.8651
8.826	9.000	114.444	-158.700	0.030176	1.2055	33.139	0.8643	0.8648
9.000	9.177	114.768	-158.382	0.030111	1.2019	33.211	0.8625	0.8629
9.126	9.306	115.000	-158.150	0.030065	1.2010	33.262	0.8611	0.8616
9.200	9.381	115.136	-158.014	0.030037	1.1999	33.292	0.8604	0.8608
9.208	9.389	115.150	-158.000	0.030034	1.1998	33.295	0.8603	0.8607
9.400	9.585	115.437	-157.653	0.029965	1.1970	33.373	0.8583	0.8587
9.600	9.789	115.854	-157.296	0.029892	1.1941	33.453	0.8562	0.8567
9.683	9.874	116.000	-157.150	0.029862	1.1930	33.486	0.8554	0.8558
9.769	9.961	116.150	-157.000	0.029832	1.1917	33.521	0.8545	0.8550
9.800	9.993	116.216	-156.945	0.029819	1.1912	33.533	0.8542	0.8546
10.000	10.197	116.551	-156.599	0.029751	1.1885	33.613	0.8522	0.8526
10.200	10.401	116.832	-156.258	0.029681	1.1857	33.692	0.8501	0.8506
10.264	10.466	117.000	-156.150	0.029658	1.1848	33.717	0.8495	0.8500
10.353	10.557	117.150	-156.000	0.029627	1.1836	33.752	0.8486	0.8491
10.400	10.600	117.228	-155.922	0.029611	1.1829	33.771	0.8482	0.8486
10.600	10.809	117.560	-155.590	0.029543	1.1802	33.849	0.8462	0.8467

TABLE 11 CONTINUED

SATURATED LIQUID ARGON

PRESSURE			TEMPERATURE		DENSITY	VOLUME		DENSITY RATIOS -	
BAR	KP/CM ²	KELVIN	CELSIUS	GRAM-MOLE/ CM ³	KG/ DM ³	CM ³ / GRAM-MOLE	DM ³ / KG	LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 1 BAR	DIMENSIONLESS, LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 760 TORR
0.787	11.000	117.867	-155.283	0.029479	1.1776	33.923	0.8492	0.8444	0.8446
0.800	11.013	117.867	-155.263	0.029475	1.1775	33.927	0.8493	0.8442	0.8447
0.870	11.084	118.000	-155.150	0.029451	1.1765	33.955	0.8500	0.8436	0.8440
0.962	11.179	118.150	-155.000	0.029420	1.1753	33.991	0.8509	0.8427	0.8431
1.000	11.217	118.210	-154.940	0.029407	1.1748	34.005	0.8512	0.8423	0.8434
1.200	11.421	118.529	-154.621	0.029340	1.1721	34.083	0.8532	0.8404	0.8409
1.400	11.625	118.844	-154.306	0.029274	1.1694	34.160	0.8551	0.8385	0.8390
1.500	11.727	119.000	-154.100	0.029241	1.1681	34.199	0.8561	0.8376	0.8380
1.597	11.826	119.150	-153.995	0.029209	1.1668	34.236	0.8570	0.8366	0.8371
1.600	11.829	119.155	-153.995	0.029208	1.1668	34.237	0.8570	0.8366	0.8371
1.768	12.000	119.473	-153.737	0.029153	1.1646	34.302	0.8587	0.8350	0.8355
1.800	12.033	119.462	-153.688	0.029143	1.1642	34.314	0.8590	0.8347	0.8352
2.000	12.237	119.765	-153.385	0.029078	1.1616	34.350	0.8609	0.8329	0.8333
2.156	12.396	120.000	-153.150	0.029027	1.1596	34.450	0.8624	0.8314	0.8319
2.200	12.441	120.065	-153.085	0.029013	1.1590	34.467	0.8628	0.8310	0.8315
2.257	12.499	120.150	-153.000	0.028995	1.1583	34.489	0.8633	0.8305	0.8310
2.400	12.644	120.361	-152.789	0.028949	1.1565	34.543	0.8647	0.8297	0.8301
2.600	12.848	120.654	-152.496	0.028886	1.1539	34.619	0.8666	0.8274	0.8278
2.749	13.000	120.870	-152.280	0.028839	1.1521	34.675	0.8680	0.8260	0.8265
2.800	13.052	120.944	-152.206	0.028823	1.1514	34.695	0.8685	0.8256	0.8260
2.839	13.092	121.000	-152.150	0.028811	1.1509	34.709	0.8689	0.8252	0.8257
2.944	13.199	121.150	-152.000	0.028778	1.1496	34.749	0.8699	0.8243	0.8247
3.000	13.256	121.230	-151.920	0.028760	1.1489	34.770	0.8704	0.8238	0.8242
3.200	13.460	121.514	-151.636	0.028698	1.1464	34.846	0.8723	0.8220	0.8224
3.400	13.664	121.794	-151.356	0.028636	1.1440	34.921	0.8742	0.8202	0.8207
3.548	13.815	122.000	-151.150	0.028590	1.1421	34.977	0.8756	0.8189	0.8194
3.600	13.868	122.071	-151.079	0.028575	1.1415	34.996	0.8760	0.8185	0.8189
3.657	13.926	122.150	-151.000	0.028557	1.1408	35.018	0.8766	0.8180	0.8184
3.729	14.000	122.249	-150.901	0.028535	1.1399	35.045	0.8773	0.8173	0.8178
3.800	14.072	122.346	-150.804	0.028513	1.1391	35.071	0.8779	0.8167	0.8172
4.000	14.276	122.617	-150.533	0.028452	1.1366	35.146	0.8798	0.8150	0.8154
4.200	14.480	122.886	-150.264	0.028392	1.1342	35.221	0.8817	0.8132	0.8137
4.285	14.567	123.000	-150.150	0.028366	1.1332	35.253	0.8825	0.8125	0.8129
4.398	14.682	123.150	-150.000	0.028332	1.1318	35.295	0.8835	0.8115	0.8120
4.400	14.684	123.152	-149.998	0.028332	1.1318	35.296	0.8835	0.8115	0.8120
4.600	14.868	123.416	-149.734	0.028272	1.1294	35.371	0.8854	0.8098	0.8102
4.710	15.000	123.560	-149.590	0.028239	1.1281	35.442	0.8864	0.8089	0.8093
4.800	15.092	123.677	-149.473	0.028212	1.1270	35.445	0.8873	0.8081	0.8085
5.000	15.296	124.000	-149.215	0.028153	1.1247	35.520	0.8892	0.8064	0.8068
5.051	15.347	124.000	-149.150	0.028138	1.1241	35.539	0.8896	0.8060	0.8064
5.168	15.467	124.150	-149.000	0.028104	1.1227	35.583	0.8910	0.8050	0.8054
5.200	15.500	124.131	-148.959	0.028094	1.1223	35.595	0.8910	0.8047	0.8051
5.400	15.704	124.445	-148.705	0.028035	1.1200	35.669	0.8929	0.8030	0.8035
5.600	15.908	124.636	-148.454	0.027977	1.1176	35.744	0.8948	0.8016	0.8021
5.691	16.000	124.809	-148.341	0.027951	1.1166	35.777	0.8956	0.8006	0.8010

TABLE 11 CONTINUED

SATURATED LIQUID ARGON

PRESSURE BAR	TEMPERATURE KELVIN	TEMPERATURE CELSIUS	DENSITY GRAM-MOLE/ CM ³	VOLUME CM ³ / GRAM-MOLE	DM ³ / KG	DENSITY RATIOS - DIMENSIONLESS	
						LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 1 BAR	LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR
15.800	16.112	124.945	0.027919	1.1153	0.8966	0.7997	0.8001
15.845	16.157	125.000	0.027906	1.1148	0.8970	0.7993	0.8001
15.890	16.201	125.050	0.027893	1.1143	0.8975	0.7989	0.8001
15.935	16.245	125.100	0.027880	1.1138	0.8980	0.7985	0.8001
15.980	16.289	125.150	0.027867	1.1133	0.8985	0.7980	0.8001
16.025	16.333	125.200	0.027854	1.1128	0.8990	0.7975	0.8001
16.070	16.377	125.250	0.027841	1.1123	0.8995	0.7970	0.8001
16.115	16.421	125.300	0.027828	1.1118	0.8999	0.7965	0.8001
16.160	16.465	125.350	0.027815	1.1113	0.9003	0.7960	0.8001
16.205	16.509	125.400	0.027802	1.1108	0.9007	0.7955	0.8001
16.250	16.553	125.450	0.027789	1.1103	0.9011	0.7950	0.8001
16.295	16.597	125.500	0.027776	1.1098	0.9015	0.7945	0.8001
16.340	16.641	125.550	0.027763	1.1093	0.9019	0.7940	0.8001
16.385	16.685	125.600	0.027750	1.1088	0.9023	0.7935	0.8001
16.430	16.729	125.650	0.027737	1.1083	0.9027	0.7930	0.8001
16.475	16.773	125.700	0.027724	1.1078	0.9031	0.7925	0.8001
16.520	16.817	125.750	0.027711	1.1073	0.9035	0.7920	0.8001
16.565	16.861	125.800	0.027698	1.1068	0.9039	0.7915	0.8001
16.610	16.905	125.850	0.027685	1.1063	0.9043	0.7910	0.8001
16.655	16.949	125.900	0.027672	1.1058	0.9047	0.7905	0.8001
16.700	16.993	125.950	0.027659	1.1053	0.9051	0.7900	0.8001
16.745	17.037	126.000	0.027646	1.1048	0.9055	0.7895	0.8001
16.790	17.081	126.050	0.027633	1.1043	0.9059	0.7890	0.8001
16.835	17.125	126.100	0.027620	1.1038	0.9063	0.7885	0.8001
16.880	17.169	126.150	0.027607	1.1033	0.9067	0.7880	0.8001
16.925	17.213	126.200	0.027594	1.1028	0.9071	0.7875	0.8001
16.970	17.257	126.250	0.027581	1.1023	0.9075	0.7870	0.8001
17.015	17.301	126.300	0.027568	1.1018	0.9079	0.7865	0.8001
17.060	17.345	126.350	0.027555	1.1013	0.9083	0.7860	0.8001
17.105	17.389	126.400	0.027542	1.1008	0.9087	0.7855	0.8001
17.150	17.433	126.450	0.027529	1.1003	0.9091	0.7850	0.8001
17.195	17.477	126.500	0.027516	1.1000	0.9095	0.7845	0.8001
17.240	17.521	126.550	0.027503	1.0995	0.9099	0.7840	0.8001
17.285	17.565	126.600	0.027490	1.0990	0.9103	0.7835	0.8001
17.330	17.609	126.650	0.027477	1.0985	0.9107	0.7830	0.8001
17.375	17.653	126.700	0.027464	1.0980	0.9111	0.7825	0.8001
17.420	17.697	126.750	0.027451	1.0975	0.9115	0.7820	0.8001
17.465	17.741	126.800	0.027438	1.0970	0.9119	0.7815	0.8001
17.510	17.785	126.850	0.027425	1.0965	0.9123	0.7810	0.8001
17.555	17.829	126.900	0.027412	1.0960	0.9127	0.7805	0.8001
17.600	17.873	126.950	0.027399	1.0955	0.9131	0.7800	0.8001
17.645	17.917	127.000	0.027386	1.0950	0.9135	0.7795	0.8001
17.690	17.961	127.050	0.027373	1.0945	0.9139	0.7790	0.8001
17.735	18.005	127.100	0.027360	1.0940	0.9143	0.7785	0.8001
17.780	18.049	127.150	0.027347	1.0935	0.9147	0.7780	0.8001
17.825	18.093	127.200	0.027334	1.0930	0.9151	0.7775	0.8001
17.870	18.137	127.250	0.027321	1.0925	0.9155	0.7770	0.8001
17.915	18.181	127.300	0.027308	1.0920	0.9159	0.7765	0.8001
17.960	18.225	127.350	0.027295	1.0915	0.9163	0.7760	0.8001
18.005	18.269	127.400	0.027282	1.0910	0.9167	0.7755	0.8001
18.050	18.313	127.450	0.027269	1.0905	0.9171	0.7750	0.8001
18.095	18.357	127.500	0.027256	1.0900	0.9175	0.7745	0.8001
18.140	18.401	127.550	0.027243	1.0895	0.9179	0.7740	0.8001
18.185	18.445	127.600	0.027230	1.0890	0.9183	0.7735	0.8001
18.230	18.489	127.650	0.027217	1.0885	0.9187	0.7730	0.8001
18.275	18.533	127.700	0.027204	1.0880	0.9191	0.7725	0.8001
18.320	18.577	127.750	0.027191	1.0875	0.9195	0.7720	0.8001
18.365	18.621	127.800	0.027178	1.0870	0.9199	0.7715	0.8001
18.410	18.665	127.850	0.027165	1.0865	0.9203	0.7710	0.8001
18.455	18.709	127.900	0.027152	1.0860	0.9207	0.7705	0.8001
18.500	18.753	127.950	0.027139	1.0855	0.9211	0.7700	0.8001
18.545	18.797	128.000	0.027126	1.0850	0.9215	0.7695	0.8001
18.590	18.841	128.050	0.027113	1.0845	0.9219	0.7690	0.8001
18.635	18.885	128.100	0.027100	1.0840	0.9223	0.7685	0.8001
18.680	18.929	128.150	0.027087	1.0835	0.9227	0.7680	0.8001
18.725	18.973	128.200	0.027074	1.0830	0.9231	0.7675	0.8001
18.770	19.017	128.250	0.027061	1.0825	0.9235	0.7670	0.8001
18.815	19.061	128.300	0.027048	1.0820	0.9239	0.7665	0.8001
18.860	19.105	128.350	0.027035	1.0815	0.9243	0.7660	0.8001
18.905	19.149	128.400	0.027022	1.0810	0.9247	0.7655	0.8001
18.950	19.193	128.450	0.027009	1.0805	0.9251	0.7650	0.8001
18.995	19.237	128.500	0.026996	1.0800	0.9255	0.7645	0.8001
19.040	19.281	128.550	0.026983	1.0795	0.9259	0.7640	0.8001
19.085	19.325	128.600	0.026970	1.0790	0.9263	0.7635	0.8001
19.130	19.369	128.650	0.026957	1.0785	0.9267	0.7630	0.8001
19.175	19.413	128.700	0.026944	1.0780	0.9271	0.7625	0.8001
19.220	19.457	128.750	0.026931	1.0775	0.9275	0.7620	0.8001
19.265	19.501	128.800	0.026918	1.0770	0.9279	0.7615	0.8001
19.310	19.545	128.850	0.026905	1.0765	0.9283	0.7610	0.8001
19.355	19.589	128.900	0.026892	1.0760	0.9287	0.7605	0.8001
19.400	19.633	128.950	0.026879	1.0755	0.9291	0.7600	0.8001
19.445	19.677	129.000	0.026866	1.0750	0.9295	0.7595	0.8001
19.490	19.721	129.050	0.026853	1.0745	0.9299	0.7590	0.8001
19.535	19.765	129.100	0.026840	1.0740	0.9303	0.7585	0.8001
19.580	19.809	129.150	0.026827	1.0735	0.9307	0.7580	0.8001
19.625	19.853	129.200	0.026814	1.0730	0.9311	0.7575	0.8001
19.670	19.897	129.250	0.026801	1.0725	0.9315	0.7570	0.8001
19.715	19.941	129.300	0.026788	1.0720	0.9319	0.7565	0.8001
19.760	19.985	129.350	0.026775	1.0715	0.9323	0.7560	0.8001
19.805	20.029	129.400	0.026762	1.0710	0.9327	0.7555	0.8001
19.850	20.073	129.450	0.026749	1.0705	0.9331	0.7550	0.8001
19.895	20.117	129.500	0.026736	1.0700	0.9335	0.7545	0.8001
19.940	20.161	129.550	0.026723	1.0695	0.9339	0.7540	0.8001
19.985	20.205	129.600	0.026710	1.0690	0.9343	0.7535	0.8001
20.030	20.249	129.650	0.026697	1.0685	0.9347	0.7530	0.8001
20.075	20.293	129.700	0.026684	1.0680	0.9351	0.7525	0.8001
20.120	20.337	129.750	0.026671	1.0675	0.9355	0.7520	0.8001
20.165	20.381	129.800	0.026658	1.0670	0.9359	0.7515	0.8001
20.210	20.425	129.850	0.026645	1.0665	0.9363	0.7510	0.8001
20.255	20.469	129.900	0.026632	1.0660	0.9367	0.7505	0.8001
20.300	20.513	129.950	0.026619	1.0655	0.9371	0.7500	0.8001
20.345	20.557	130.000	0.026606	1.0650	0.9375	0.7495	0.8001
20.390	20.601	130.050	0.026593	1.0645	0.9379	0.7490	0.8001
20.435	20.645	130.100	0.026580	1.0640	0.9383	0.7485	0.8001
20.480	20.689	130.150	0.026567	1.0635	0.9387	0.7480	0.8001
20.525	20.733	130.200	0.026554	1.0630	0.9391	0.7475	0.8001
20.570	20.777	130.250	0.026541	1.0625	0.9395	0.7470	0.8001
20.615	20.821	130.300	0.026528	1.0620	0.9399	0.7465	0.8001
20.660	20.865	130.350	0.026515	1.0615	0.9403	0.7460	0.8001
20.705	20.909	130.400	0.026502	1.0610	0.9407	0.7455	0.8001
20.750	20.953	130.450	0.026489	1.0605	0.9411	0.7450	0.8001
20.795	20.997	130.500	0.026476	1.0600	0.9415	0.7445	0.8001
20.840	21.041	130.550	0.026463	1.0595	0.9419	0.7440	0.8001
20.885	21.085	130.600	0.026450	1.0590	0.9423	0.7435	0.8001
20.930	21.129	130.650	0.026437	1.0585	0.9427	0.7430	0.8001
20.975	21.173	130.700	0.026424	1.0580	0.9431	0.7425	0.8001
21.020	21.217	130.750	0.026411	1.0575	0.9435	0.7420	0.8001
21.065	21.261	130.800	0.026398	1.0570	0.9439	0.7415	0.8001
21.110	21.305	130.850	0.026385	1.0565	0.9443	0.7410	0.8001
21.155	21.349	130.900	0.026372	1.0560	0.9447	0.7405	0.8001
21.200	21.393	130.950	0.026359	1.0555	0.9451	0.7400	0.8001

TABLE 11 CONTINUED

SATURATED LIQUID ARGON

BAR	PRESSURE KP/CM ²	TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	VOLUME CM ³ / GRAM-MOLE	DM ³ / KG	DENSITY RATIOS - -	
		KELVIN	CELSIUS				LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 1 BAR	DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR
21.553	21.672	131.000	-142.150	0.026404	37.874	0.9481	0.7563	0.7567
21.400	21.822	131.147	-142.003	0.026364	37.931	0.9495	0.7551	0.7556
21.403	21.825	131.150	-142.000	0.026363	37.932	0.9495	0.7551	0.7555
21.575	22.000	131.321	-141.829	0.026317	37.998	0.9512	0.7538	0.7542
21.600	22.026	131.346	-141.804	0.026310	38.008	0.9514	0.7536	0.7540
22.230	22.630	131.543	-141.607	0.026257	38.086	0.9534	0.7521	0.7525
22.000	22.434	131.739	-141.411	0.026203	38.164	0.9553	0.7505	0.7509
22.200	22.638	131.934	-141.216	0.026149	38.242	0.9573	0.7490	0.7494
22.268	22.707	132.000	-141.150	0.026131	38.268	0.9580	0.7485	0.7489
22.400	22.842	132.128	-141.022	0.026056	38.320	0.9593	0.7475	0.7479
22.423	22.865	132.150	-141.000	0.026050	38.329	0.9595	0.7473	0.7477
22.555	23.000	132.277	-140.873	0.026054	38.381	0.9608	0.7463	0.7467
22.600	23.046	132.320	-140.830	0.026042	38.399	0.9612	0.7459	0.7463
22.600	23.050	132.321	-140.829	0.025989	38.478	0.9632	0.7444	0.7448
23.000	23.453	132.701	-140.449	0.025936	38.557	0.9652	0.7429	0.7433
23.000	23.457	132.689	-140.461	0.025882	38.636	0.9672	0.7414	0.7418
23.318	23.778	133.000	-140.150	0.025851	38.683	0.9683	0.7405	0.7409
23.400	23.861	133.077	-140.073	0.025829	38.716	0.9692	0.7398	0.7402
23.479	23.942	133.150	-140.000	0.025808	38.748	0.9700	0.7392	0.7396
23.536	24.000	133.203	-139.947	0.025793	38.771	0.9705	0.7388	0.7392
23.600	24.065	133.263	-139.887	0.025776	38.796	0.9712	0.7383	0.7387
23.600	24.069	133.448	-139.702	0.025723	38.876	0.9732	0.7368	0.7372
24.000	24.473	133.632	-139.518	0.025669	38.957	0.9752	0.7352	0.7356
24.000	24.477	133.615	-139.535	0.025616	39.038	0.9772	0.7337	0.7341
24.400	24.881	133.997	-139.153	0.025563	39.119	0.9793	0.7322	0.7326
24.517	25.000	134.102	-139.048	0.025532	39.121	0.9793	0.7322	0.7326
24.500	25.054	134.150	-139.000	0.025518	39.167	0.9804	0.7313	0.7317
24.600	25.089	134.177	-138.973	0.025510	39.201	0.9813	0.7307	0.7311
24.800	25.285	134.357	-138.793	0.025457	39.283	0.9833	0.7292	0.7295
25.000	25.493	134.536	-138.614	0.025403	39.365	0.9854	0.7276	0.7280
25.200	25.697	134.713	-138.437	0.025350	39.448	0.9875	0.7261	0.7265
25.400	25.901	134.890	-138.260	0.025297	39.531	0.9895	0.7246	0.7250
25.497	26.000	134.975	-138.175	0.025271	39.571	0.9906	0.7238	0.7242
25.525	26.029	135.000	-138.150	0.025264	39.583	0.9909	0.7236	0.7240
25.600	26.105	135.065	-138.085	0.025244	39.614	0.9916	0.7231	0.7234
25.697	26.204	135.150	-138.000	0.025218	39.654	0.9927	0.7223	0.7227
26.000	26.309	135.240	-137.910	0.025190	39.698	0.9937	0.7215	0.7219
26.000	26.513	135.413	-137.737	0.025137	39.782	0.9958	0.7200	0.7204
26.200	26.717	135.586	-137.564	0.025084	39.866	0.9980	0.7185	0.7189
26.400	26.921	135.758	-137.392	0.025031	39.951	1.0001	0.7170	0.7173
26.478	27.000	135.824	-137.326	0.025010	39.984	1.0009	0.7164	0.7167
26.600	27.124	135.928	-137.222	0.024977	40.037	1.0022	0.7154	0.7158
26.685	27.211	136.000	-137.150	0.024955	40.073	1.0031	0.7148	0.7152
26.800	27.328	136.098	-137.052	0.024924	40.122	1.0044	0.7139	0.7143

TABLE 11 CONTINUED

SATURATED LIQUID ARGON

PRESSURE		TEMPERATURE		DENSITY		VOLUME		DENSITY RATIOS -	
BAR	KP/CM ²	KELVIN	CEL SIUS	GRAM-MOLE/ CM ³	KG/ DM ³	CM ³ / GRAM-MOLE	DM ³ / KG	LIQUID DENSITY/ LIQUID DENSITY AT A FOIL. PRESS. OF 1 BAR	DENSITY AT A FOIL. PRESS. OF 760 TORR
26.662	27.391	136.150	-137.000	0.024907	0.9950	40.149	1.0050	0.7134	0.7138
27.000	27.532	136.267	-136.883	0.024870	0.9935	40.209	1.0065	0.7124	0.7127
27.340	27.673	136.435	-136.715	0.024817	0.9914	40.295	1.0087	0.7108	0.7112
27.680	27.814	136.602	-136.548	0.024763	0.9892	40.383	1.0109	0.7093	0.7097
28.020	27.955	136.768	-136.400	0.024710	0.9866	40.408	1.0115	0.7088	0.7092
28.360	28.096	136.933	-136.382	0.024656	0.9840	40.470	1.0131	0.7078	0.7081
28.700	28.237	137.100	-136.217	0.024602	0.9814	40.558	1.0153	0.7066	0.7069
29.040	28.378	137.267	-136.053	0.024548	0.9788	40.647	1.0162	0.7056	0.7060
29.380	28.519	137.433	-135.889	0.024494	0.9762	40.735	1.0175	0.7047	0.7051
29.720	28.660	137.600	-135.727	0.024440	0.9736	40.823	1.0182	0.7042	0.7046
30.060	28.801	137.766	-135.565	0.024386	0.9710	40.916	1.0197	0.7031	0.7035
30.400	28.942	137.933	-135.404	0.024332	0.9684	41.007	1.0204	0.7020	0.7024
30.740	29.083	138.100	-135.244	0.024278	0.9658	41.100	1.0215	0.7013	0.7017
31.080	29.224	138.267	-135.085	0.024223	0.9632	41.192	1.0224	0.7004	0.7008
31.420	29.365	138.433	-134.926	0.024169	0.9606	41.283	1.0231	0.6995	0.6999
31.760	29.506	138.600	-134.768	0.024114	0.9580	41.376	1.0236	0.6986	0.6990
32.100	29.647	138.766	-134.612	0.024059	0.9554	41.470	1.0241	0.6977	0.6981
32.440	29.788	138.933	-134.455	0.024004	0.9528	41.564	1.0245	0.6968	0.6972
32.780	29.929	139.100	-134.300	0.023949	0.9502	41.659	1.0248	0.6959	0.6963
33.120	30.070	139.267	-134.145	0.023894	0.9476	41.752	1.0252	0.6950	0.6954
33.460	30.211	139.433	-134.000	0.023839	0.9450	41.846	1.0255	0.6941	0.6945
33.800	30.352	139.600	-133.850	0.023784	0.9424	41.941	1.0257	0.6932	0.6936
34.140	30.493	139.766	-133.700	0.023729	0.9398	42.036	1.0259	0.6923	0.6927
34.480	30.634	139.933	-133.550	0.023674	0.9372	42.131	1.0261	0.6914	0.6918
34.820	30.775	140.100	-133.400	0.023619	0.9346	42.226	1.0263	0.6905	0.6909
35.160	30.916	140.267	-133.250	0.023564	0.9320	42.321	1.0265	0.6896	0.6900
35.500	31.057	140.433	-133.100	0.023509	0.9294	42.416	1.0267	0.6887	0.6891
35.840	31.198	140.600	-132.950	0.023454	0.9268	42.511	1.0269	0.6878	0.6882
36.180	31.339	140.766	-132.800	0.023399	0.9242	42.606	1.0271	0.6869	0.6873
36.520	31.480	140.933	-132.650	0.023344	0.9216	42.701	1.0273	0.6860	0.6864
36.860	31.621	141.100	-132.500	0.023289	0.9190	42.796	1.0275	0.6851	0.6855
37.200	31.762	141.267	-132.350	0.023234	0.9164	42.891	1.0277	0.6842	0.6846
37.540	31.903	141.433	-132.200	0.023179	0.9138	42.986	1.0279	0.6833	0.6837
37.880	32.044	141.600	-132.050	0.023124	0.9112	43.081	1.0281	0.6824	0.6828
38.220	32.185	141.766	-131.900	0.023069	0.9086	43.176	1.0283	0.6815	0.6819
38.560	32.326	141.933	-131.750	0.023014	0.9060	43.271	1.0285	0.6806	0.6810
38.900	32.467	142.100	-131.600	0.022959	0.9034	43.366	1.0287	0.6797	0.6801
39.240	32.608	142.267	-131.450	0.022904	0.9008	43.461	1.0289	0.6788	0.6792
39.580	32.749	142.433	-131.300	0.022849	0.8982	43.556	1.0291	0.6779	0.6783
39.920	32.890	142.600	-131.150	0.022794	0.8956	43.651	1.0293	0.6770	0.6774
40.260	33.031	142.766	-131.000	0.022739	0.8930	43.746	1.0295	0.6761	0.6765
40.600	33.172	142.933	-130.850	0.022684	0.8904	43.841	1.0297	0.6752	0.6756
40.940	33.313	143.100	-130.700	0.022629	0.8878	43.936	1.0299	0.6743	0.6747
41.280	33.454	143.267	-130.550	0.022574	0.8852	44.031	1.0301	0.6734	0.6738
41.620	33.595	143.433	-130.400	0.022519	0.8826	44.126	1.0303	0.6725	0.6729
41.960	33.736	143.600	-130.250	0.022464	0.8800	44.221	1.0305	0.6716	0.6720
42.300	33.877	143.766	-130.100	0.022409	0.8774	44.316	1.0307	0.6707	0.6711
42.640	34.018	143.933	-130.000	0.022354	0.8748	44.411	1.0309	0.6698	0.6702
42.980	34.159	144.100	-129.850	0.022299	0.8722	44.506	1.0311	0.6689	0.6693
43.320	34.300	144.267	-129.700	0.022244	0.8696	44.601	1.0313	0.6680	0.6684
43.660	34.441	144.433	-129.550	0.022189	0.8670	44.696	1.0315	0.6671	0.6675
44.000	34.582	144.600	-129.400	0.022134	0.8644	44.791	1.0317	0.6662	0.6666
44.340	34.723	144.766	-129.250	0.022079	0.8618	44.886	1.0319	0.6653	0.6657
44.680	34.864	144.933	-129.100	0.022024	0.8592	44.981	1.0321	0.6644	0.6648
45.020	35.005	145.100	-128.950	0.021969	0.8566	45.076	1.0323	0.6635	0.6639
45.360	35.146	145.267	-128.800	0.021914	0.8540	45.171	1.0325	0.6626	0.6630
45.700	35.287	145.433	-128.650	0.021859	0.8514	45.266	1.0327	0.6617	0.6621
46.040	35.428	145.600	-128.500	0.021804	0.8488	45.361	1.0329	0.6608	0.6612
46.380	35.569	145.766	-128.350	0.021749	0.8462	45.456	1.0331	0.6599	0.6603
46.720	35.710	145.933	-128.200	0.021694	0.8436	45.551	1.0333	0.6590	0.6594
47.060	35.851	146.100	-128.050	0.021639	0.8410	45.646	1.0335	0.6581	0.6585
47.400	35.992	146.267	-127.900	0.021584	0.8384	45.741	1.0337	0.6572	0.6576
47.740	36.133	146.433	-127.750	0.021529	0.8358	45.836	1.0339	0.6563	0.6567
48.080	36.274	146.600	-127.600	0.021474	0.8332	45.931	1.0341	0.6554	0.6558
48.420	36.415	146.766	-127.450	0.021419	0.8306	46.026	1.0343	0.6545	0.6549
48.760	36.556	146.933	-127.300	0.021364	0.8280	46.121	1.0345	0.6536	0.6540
49.100	36.697	147.100	-127.150	0.021309	0.8254	46.216	1.0347	0.6527	0.6531
49.440	36.838	147.267	-127.000	0.021254	0.8228	46.311	1.0349	0.6518	0.6522
49.780	36.979	147.433	-126.850	0.021199	0.8202	46.406	1.0351	0.6509	0.6513
50.120	37.120	147.600	-126.700	0.021144	0.8176	46.501	1.0353	0.6500	0.6504
50.460	37.261	147.766	-126.550	0.021089	0.8150	46.596	1.0355	0.6491	0.6495
50.800	37.402	147.933	-126.400	0.021034	0.8124	46.691	1.0357	0.6482	0.6486
51.140	37.543	148.100	-126.250	0.020979	0.8098	46.786	1.0359	0.6473	0.6477
51.480	37.684	148.267	-126.100	0.020924	0.8072	46.881	1.0361	0.6464	0.6468
51.820	37.825	148.433	-125.950	0.020869	0.8046	46.976	1.0363	0.6455	0.6459
52.160	37.966	148.600	-125.800	0.020814	0.8020	47.071	1.0365	0.6446	0.6450
52.500	38.107	148.766	-125.650	0.020759	0.7994	47.166	1.0367	0.6437	0.6441
52.840	38.248	148.933	-125.500	0.020704	0.7968	47.261	1.0369	0.6428	0.6432
53.180	38.389	149.100	-125.350	0.020649	0.7942	47.356	1.0371	0.6419	0.6423
53.520	38.530	149.267	-125.200	0.020594	0.7916	47.451	1.0373	0.6410	0.6414
53.860	38.671	149.433	-125.050	0.020539	0.7890	47.546	1.0375	0.6401	0.6405
54.200	38.812	149.600	-124.900	0.020484	0.7864	47.641	1.0377	0.6392	0.6396
54.540	38.953	149.766	-124.750	0.020429	0.7838	47.736	1.0379	0.6383	0.6387
54.880	39.094	149.933	-124.600	0.020374	0.7812	47.831	1.0381	0.6374	0.6378
55.220	39.235	150.100	-124.450	0.020319	0.7786	47.926	1.0383	0.6365	0.6369
55.560	39.376	150.267	-124.300	0.020264	0.7760	48.021	1.0385	0.6356	0.6360
55.900	39.517	150.433	-124.150	0.020209	0.7734	48.116	1.0387	0.6347	0.6351
56.240	39.658	150.600	-124.000	0.020154	0.7708	48.211	1.0389	0.6338	0.6342
56.580	39.799	150.766	-123.850	0.020099	0.7682	48.306	1.0391	0.6329	0.6333
56.920	39.940	150.933	-123.700	0.020044	0.7656	48.401	1.0393	0.6320	0.6324
57.260	40.081	151.100	-123.550	0.020000	0.7630	48.496	1.0395	0.6311	0.6315
57.600	40.222	151.267	-123.400	0.019945	0.7604	48.591	1.0397	0.6302	0.6306
57.940	40.363	151.433	-123.250	0.019890	0.7578	48.686	1.0399	0.6293	0.6297
58.280	40.504	151.600	-123.100	0.019835	0.7552	48.781	1.0401	0.6284	0.6288
58.620	40.645	151.766	-122.950	0.019780	0.7526	48.876	1.0403	0.6275	0.6279
58.960	40.786	151.933	-122.800	0.019725	0.7500	48.971	1.0405	0.6266	0.6270
59.300	40.927	152.100	-122.650	0.019670	0.7474	49.066	1.0407	0.6257	0.6261
59.640	41.068	152.267	-122.500	0.019615	0.7448	49.161	1.0409	0.6248	0.6252
59.980	41.209	152.433	-122.350	0.019560	0.7422	49.256	1.0411	0.6239	0.6243
60.320	41.350	152.600	-122.200	0.019505	0.7396	49.351	1.0413	0.6230</	

TABLE 11 CONTINUED

SATURATED LIQUID ARGON

PRESSURE		TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	KG/ DM ³	VOLUME		DENSITY RATIOS -		DIMENSIONLESS	
BAR	KP/CM ²	KELVIN	CEL SIUS			CM ³ / GRAM-MOLE	DM ³ / KG	LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 1 BAR	LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR	LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR	
33.000	33.651	140.949	-132.201	0.023219	0.9276	43.068	1.0781	0.6651	0.6654		
33.071	33.723	141.000	-132.150	0.023219	0.9267	43.106	1.0791	0.6648	0.6648		
33.200	33.855	141.094	-132.056	0.023161	0.9253	43.175	1.0808	0.6634	0.6638		
33.278	33.934	141.150	-132.000	0.023139	0.9243	43.217	1.0818	0.6628	0.6631		
33.343	34.000	141.196	-131.954	0.023120	0.9236	43.252	1.0827	0.6622	0.6626		
33.400	34.059	141.238	-131.912	0.023104	0.9229	43.283	1.0835	0.6618	0.6621		
33.600	34.262	141.381	-131.769	0.023046	0.9206	43.392	1.0862	0.6601	0.6605		
33.800	34.466	141.524	-131.626	0.022987	0.9183	43.582	1.0890	0.6584	0.6588		
34.000	34.670	141.666	-131.484	0.022929	0.9160	43.614	1.0918	0.6571	0.6574		
34.200	34.874	141.808	-131.342	0.022870	0.9136	43.726	1.0946	0.6551	0.6554		
34.323	35.000	141.895	-131.255	0.022833	0.9121	43.796	1.0963	0.6540	0.6544		
34.400	35.078	141.949	-131.201	0.022811	0.9112	43.839	1.0974	0.6534	0.6537		
34.473	35.153	142.000	-131.150	0.022789	0.9104	43.881	1.0984	0.6527	0.6531		
34.600	35.282	142.089	-131.061	0.022751	0.9089	43.954	1.1003	0.6517	0.6520		
34.687	35.371	142.150	-131.000	0.022725	0.9078	44.004	1.1015	0.6509	0.6513		
34.800	35.486	142.229	-130.921	0.022692	0.9065	44.069	1.1032	0.6500	0.6503		
35.000	35.690	142.368	-130.782	0.022631	0.9041	44.186	1.1061	0.6482	0.6486		
35.200	35.894	142.506	-130.644	0.022571	0.9017	44.304	1.1091	0.6465	0.6469		
35.304	36.000	142.578	-130.572	0.022540	0.8992	44.366	1.1106	0.6456	0.6460		
35.400	36.098	142.644	-130.506	0.022510	0.8982	44.424	1.1120	0.6448	0.6451		
35.600	36.302	142.782	-130.368	0.022388	0.8944	44.545	1.1151	0.6430	0.6434		
35.800	36.506	142.918	-130.232	0.022368	0.8929	44.667	1.1181	0.6413	0.6416		
35.920	36.628	143.000	-130.150	0.022351	0.8919	44.740	1.1200	0.6402	0.6406		
36.000	36.710	143.055	-130.095	0.022326	0.8919	44.790	1.1212	0.6395	0.6398		
36.141	36.853	143.150	-130.000	0.022284	0.8901	44.878	1.1234	0.6382	0.6386		
36.200	36.914	143.190	-129.960	0.022264	0.8894	44.915	1.1243	0.6377	0.6381		
36.285	37.000	143.247	-129.903	0.022238	0.8884	44.969	1.1257	0.6370	0.6373		
36.400	37.118	143.325	-129.825	0.022202	0.8869	45.042	1.1275	0.6359	0.6363		
36.600	37.322	143.460	-129.690	0.022139	0.8844	45.170	1.1307	0.6341	0.6345		
36.800	37.526	143.594	-129.556	0.022075	0.8819	45.299	1.1340	0.6323	0.6327		
37.000	37.729	143.727	-129.423	0.022012	0.8793	45.431	1.1372	0.6305	0.6308		
37.200	37.933	143.860	-129.290	0.021947	0.8768	45.564	1.1406	0.6286	0.6290		
37.265	38.000	143.900	-129.247	0.021926	0.8759	45.607	1.1417	0.6280	0.6284		
37.400	38.137	143.992	-129.158	0.021883	0.8742	45.698	1.1439	0.6268	0.6271		
37.412	38.150	144.000	-129.150	0.021879	0.8740	45.706	1.1441	0.6267	0.6270		
37.600	38.341	144.124	-129.026	0.021817	0.8716	45.835	1.1474	0.6249	0.6253		
37.640	38.382	144.150	-129.000	0.021804	0.8710	45.862	1.1480	0.6245	0.6249		
37.800	38.545	144.255	-128.895	0.021752	0.8689	45.973	1.1508	0.6230	0.6234		
38.000	38.749	144.386	-128.764	0.021686	0.8663	46.114	1.1543	0.6211	0.6215		
38.200	38.953	144.516	-128.634	0.021619	0.8636	46.256	1.1579	0.6192	0.6196		
38.246	39.000	144.546	-128.604	0.021603	0.8630	46.281	1.1587	0.6188	0.6191		
38.400	39.157	144.646	-128.504	0.021551	0.8609	46.401	1.1615	0.6173	0.6176		
38.600	39.361	144.775	-128.375	0.021484	0.8582	46.547	1.1652	0.6154	0.6157		
38.800	39.565	144.903	-128.247	0.021415	0.8555	46.686	1.1689	0.6134	0.6137		
38.951	39.719	145.000	-128.150	0.021363	0.8534	46.810	1.1718	0.6119	0.6122		

TABLE 11 CONTINUED

SATURATED LIQUID ARGON

PRESSURE		TEMPERATURE		DENSITY	VOLUME		DENSITY RATIOS -	
BAR	KP/CM ²	KELVIN	CELSIUS	GRAM-MOLE/ CM ³	GRAM-MOLE	DM ³ / KG	LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 1 BAR	DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 760 TORR
39.769	39.769	145.031	-128.119	0.021346	46.847	1.1727	0.6114	0.6117
39.958	39.958	145.150	-128.000	0.021281	46.990	1.1763	0.6096	0.6099
39.973	39.973	145.159	-127.991	0.021276	47.001	1.1766	0.6094	0.6097
40.000	40.000	145.176	-127.974	0.021267	47.022	1.1771	0.6091	0.6094
40.177	40.177	145.286	-127.864	0.021206	47.157	1.1805	0.6074	0.6077
40.381	40.381	145.413	-127.737	0.021134	47.316	1.1844	0.6054	0.6057
40.585	40.585	145.539	-127.611	0.021063	47.478	1.1885	0.6033	0.6036
40.789	40.789	145.665	-127.485	0.020990	47.642	1.1926	0.6012	0.6015
40.993	40.993	145.790	-127.360	0.020916	47.809	1.1968	0.5991	0.5994
41.137	41.137	145.914	-127.236	0.020842	47.815	1.1969	0.5990	0.5994
41.337	41.337	146.000	-127.150	0.020790	47.980	1.2011	0.5970	0.5973
41.400	41.400	146.039	-127.111	0.020767	48.099	1.2040	0.5958	0.5958
41.584	41.584	146.150	-127.000	0.020659	48.153	1.2054	0.5948	0.5952
41.604	41.604	146.162	-126.988	0.020691	48.313	1.2094	0.5929	0.5932
41.808	41.808	146.286	-126.864	0.020614	48.330	1.2098	0.5927	0.5930
42.000	42.000	146.400	-126.749	0.020541	48.511	1.2144	0.5904	0.5908
42.012	42.012	146.408	-126.742	0.020536	48.684	1.2187	0.5887	0.5887
42.216	42.216	146.531	-126.619	0.020457	48.872	1.2237	0.5859	0.5863
42.420	42.420	146.653	-126.497	0.020377	49.076	1.2285	0.5837	0.5840
42.624	42.624	146.774	-126.376	0.020295	49.272	1.2334	0.5816	0.5816
42.828	42.828	146.895	-126.255	0.020213	49.473	1.2384	0.5790	0.5793
43.000	43.000	146.997	-126.153	0.020142	49.646	1.2429	0.5769	0.5772
43.006	43.006	147.000	-126.150	0.020140	49.652	1.2429	0.5769	0.5772
43.200	43.200	147.016	-126.134	0.020129	49.679	1.2436	0.5766	0.5769
43.236	43.236	147.136	-126.014	0.020044	49.800	1.2489	0.5741	0.5744
43.260	43.260	147.150	-126.000	0.020034	49.815	1.2495	0.5740	0.5744
43.440	43.440	147.255	-125.895	0.019958	50.036	1.2543	0.5720	0.5720
43.644	43.644	147.375	-125.775	0.019870	50.215	1.2598	0.5694	0.5694
43.848	43.848	147.493	-125.657	0.019780	50.555	1.2659	0.5666	0.5669
44.000	44.000	147.582	-125.568	0.019712	50.729	1.2699	0.5649	0.5649
44.052	44.052	147.612	-125.538	0.019689	50.789	1.2714	0.5640	0.5643
44.226	44.226	147.730	-125.420	0.019596	51.030	1.2774	0.5616	0.5616
44.256	44.256	147.747	-125.403	0.019591	51.030	1.2774	0.5616	0.5616
44.340	44.340	147.847	-125.303	0.019501	51.278	1.2836	0.5586	0.5589
44.664	44.664	147.964	-125.186	0.019405	51.534	1.2900	0.5558	0.5561
44.726	44.726	148.081	-125.069	0.019306	51.814	1.2966	0.5533	0.5533
44.868	44.868	148.081	-125.069	0.019306	51.798	1.2966	0.5533	0.5533
44.989	44.989	148.150	-125.000	0.019246	51.959	1.3007	0.5516	0.5516
45.071	45.071	148.156	-124.994	0.019240	51.974	1.3010	0.5511	0.5514
45.275	45.275	148.313	-124.733	0.019101	52.071	1.3035	0.5501	0.5504
45.479	45.479	148.428	-124.722	0.018995	52.353	1.3105	0.5471	0.5474
45.683	45.683	148.543	-124.607	0.018886	52.646	1.3179	0.5444	0.5444
45.887	45.887	148.658	-124.492	0.018774	52.950	1.3255	0.5410	0.5412
46.000	46.000	148.721	-124.429	0.018710	53.266	1.3334	0.5377	0.5380
46.111	46.111	148.721	-124.429	0.018710	53.446	1.3379	0.5359	0.5362

TABLE 11 CONTINUED

SATURATED LIQUID ARGON

BAR	PRESSURE KP/CM ²	TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	KG/ DM ³	VOLUME		LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 1 BAR	DENSITY RATIOS - DIMENSIONLESS	LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 760 TORR
		KELVIN	CELSIUS			CM ³ / GRAM-MOLE	DM ³ / KG			
45.200	46.091	148.772	-124.378	0.018658	0.7454	53.595	1.3416	0.5344	0.5347	0.5347
45.400	46.295	148.886	-124.264	0.018539	0.7406	53.595	1.3502	0.5310	0.5313	0.5313
45.600	46.499	149.000	-124.150	0.018417	0.7357	53.595	1.3582	0.5275	0.5278	0.5278
45.800	46.703	149.113	-124.037	0.018299	0.7306	53.595	1.3667	0.5239	0.5241	0.5241
45.866	46.771	149.150	-124.000	0.018246	0.7289	53.595	1.3719	0.5226	0.5229	0.5229
46.000	46.907	149.225	-123.925	0.018157	0.7253	53.595	1.3787	0.5201	0.5204	0.5204
46.091	47.000	149.277	-123.873	0.018095	0.7229	53.595	1.3834	0.5183	0.5186	0.5186
46.200	47.111	149.338	-123.812	0.018050	0.7199	53.595	1.3882	0.5161	0.5164	0.5164
46.400	47.315	149.450	-123.700	0.017877	0.7141	53.595	1.4003	0.5120	0.5123	0.5123
46.600	47.519	149.561	-123.589	0.017726	0.7081	53.595	1.4122	0.5077	0.5080	0.5080
46.800	47.723	149.672	-123.478	0.017569	0.7018	53.595	1.4248	0.5032	0.5035	0.5035
47.000	47.927	149.783	-123.367	0.017402	0.6952	53.595	1.4385	0.4984	0.4987	0.4987
47.072	48.000	149.823	-123.327	0.017340	0.6927	53.595	1.4437	0.4967	0.4969	0.4969
47.394	48.131	149.893	-123.257	0.017225	0.6881	53.595	1.4533	0.4934	0.4936	0.4936
47.600	48.328	150.000	-123.150	0.017042	0.6808	53.595	1.4689	0.4880	0.4882	0.4882
47.600	48.335	150.003	-123.147	0.017036	0.6805	53.595	1.4694	0.4880	0.4882	0.4882
47.600	48.338	150.113	-123.037	0.016832	0.6724	53.595	1.4872	0.4821	0.4824	0.4824
47.668	48.608	150.150	-123.000	0.016759	0.6695	53.595	1.4937	0.4800	0.4803	0.4803
47.800	48.742	150.222	-122.928	0.016609	0.6635	53.595	1.5071	0.4757	0.4760	0.4760
48.000	48.946	150.331	-122.819	0.016363	0.6537	53.595	1.5298	0.4687	0.4690	0.4690
48.053	49.000	150.360	-122.790	0.016294	0.6509	53.595	1.5363	0.4667	0.4670	0.4670
48.200	49.150	150.440	-122.710	0.016086	0.6426	53.595	1.5562	0.4608	0.4610	0.4610
48.400	49.354	150.548	-122.602	0.015784	0.6297	53.595	1.5880	0.4515	0.4518	0.4518
48.600	49.558	150.656	-122.494	0.015370	0.6140	53.595	1.6287	0.4402	0.4405	0.4405
48.800	49.762	150.763	-122.387	0.014890	0.5924	53.595	1.6880	0.4248	0.4250	0.4250
48.981	49.946	150.860	-122.290	0.013412	0.5358	74.598	1.8664	0.3842	0.3844	0.3844

TABLE 12

DENSITY OF COMPRESSED LIQUID ARGON

TABLE ENTRIES																			
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/CM ³															
BAR	0.000	1.000	2.000	4.000	6.000	8.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000	45.000	50.000	55.000	60.000	65.000	70.000
K/°C/°H ₂	0.816	1.020	2.039	4.079	6.118	8.158	10.197	15.296	20.394	25.493	30.591	35.689	40.789	45.889	50.989	56.089	61.189	66.289	71.389
85.0	1.0093	1.0093	1.0095	1.0100	1.0104	1.0108	1.0112	1.0123	1.0133	1.0143	1.0153	1.0163	1.0173	1.0183	1.0193	1.0203	1.0213	1.0223	1.0233
-168.15	1.0098	1.0099	1.0101	1.0105	1.0109	1.0113	1.0118	1.0128	1.0138	1.0149	1.0159	1.0169	1.0179	1.0189	1.0199	1.0209	1.0219	1.0229	1.0239
0.790	1.4076	1.4077	1.4080	1.4086	1.4092	1.4097	1.4103	1.4118	1.4132	1.4146	1.4160	1.4174	1.4188	1.4202	1.4216	1.4230	1.4244	1.4258	1.4272
85.1	1.0089	1.0089	1.0091	1.0095	1.0100	1.0104	1.0108	1.0118	1.0129	1.0139	1.0149	1.0159	1.0169	1.0179	1.0189	1.0199	1.0209	1.0219	1.0229
-168.05	1.0094	1.0094	1.0097	1.0101	1.0105	1.0109	1.0113	1.0124	1.0134	1.0144	1.0154	1.0164	1.0174	1.0184	1.0194	1.0204	1.0214	1.0224	1.0234
0.799	1.4078	1.4071	1.4074	1.4080	1.4086	1.4092	1.4097	1.4112	1.4126	1.4141	1.4155	1.4169	1.4183	1.4197	1.4211	1.4225	1.4239	1.4253	1.4267
85.2	1.0085	1.0087	1.0091	1.0095	1.0100	1.0104	1.0108	1.0114	1.0125	1.0135	1.0145	1.0155	1.0165	1.0175	1.0185	1.0195	1.0205	1.0215	1.0225
-167.95	1.0090	1.0092	1.0097	1.0101	1.0105	1.0109	1.0113	1.0120	1.0130	1.0140	1.0150	1.0160	1.0170	1.0180	1.0190	1.0200	1.0210	1.0220	1.0230
0.808	1.4065	1.4068	1.4074	1.4080	1.4086	1.4091	1.4096	1.4106	1.4120	1.4135	1.4149	1.4163	1.4177	1.4191	1.4205	1.4219	1.4233	1.4247	1.4261
85.3	1.0080	1.0083	1.0087	1.0091	1.0095	1.0100	1.0104	1.0110	1.0120	1.0131	1.0141	1.0151	1.0161	1.0171	1.0181	1.0191	1.0201	1.0211	1.0221
-167.85	1.0086	1.0088	1.0092	1.0097	1.0101	1.0105	1.0109	1.0116	1.0126	1.0136	1.0146	1.0156	1.0166	1.0176	1.0186	1.0196	1.0206	1.0216	1.0226
0.817	1.4059	1.4062	1.4068	1.4074	1.4080	1.4086	1.4091	1.4106	1.4121	1.4135	1.4149	1.4163	1.4177	1.4191	1.4205	1.4219	1.4233	1.4247	1.4261
85.4	1.0076	1.0078	1.0083	1.0087	1.0091	1.0095	1.0100	1.0106	1.0116	1.0126	1.0137	1.0147	1.0157	1.0167	1.0177	1.0187	1.0197	1.0207	1.0217
-167.75	1.0082	1.0084	1.0088	1.0092	1.0097	1.0101	1.0105	1.0111	1.0122	1.0132	1.0142	1.0152	1.0162	1.0172	1.0182	1.0192	1.0202	1.0212	1.0222
0.826	1.4053	1.4056	1.4062	1.4068	1.4074	1.4080	1.4086	1.4094	1.4109	1.4123	1.4137	1.4151	1.4165	1.4179	1.4193	1.4207	1.4221	1.4235	1.4249
85.5	1.0072	1.0074	1.0078	1.0083	1.0087	1.0091	1.0095	1.0102	1.0112	1.0122	1.0132	1.0143	1.0153	1.0163	1.0173	1.0183	1.0193	1.0203	1.0213
-167.65	1.0077	1.0079	1.0084	1.0088	1.0092	1.0097	1.0101	1.0107	1.0117	1.0127	1.0137	1.0147	1.0157	1.0167	1.0177	1.0187	1.0197	1.0207	1.0217
0.835	1.4047	1.4050	1.4056	1.4062	1.4068	1.4074	1.4080	1.4088	1.4103	1.4117	1.4131	1.4145	1.4159	1.4173	1.4187	1.4201	1.4215	1.4229	1.4243
85.6	1.0066	1.0070	1.0074	1.0078	1.0083	1.0087	1.0091	1.0097	1.0108	1.0118	1.0128	1.0138	1.0148	1.0158	1.0168	1.0178	1.0188	1.0198	1.0208
-167.55	1.0073	1.0075	1.0079	1.0084	1.0088	1.0092	1.0097	1.0103	1.0113	1.0124	1.0134	1.0144	1.0154	1.0164	1.0174	1.0184	1.0194	1.0204	1.0214
0.844	1.4041	1.4044	1.4050	1.4056	1.4062	1.4068	1.4074	1.4083	1.4097	1.4111	1.4125	1.4139	1.4153	1.4167	1.4181	1.4195	1.4209	1.4223	1.4237
85.7	1.0063	1.0065	1.0070	1.0074	1.0078	1.0083	1.0087	1.0093	1.0104	1.0114	1.0124	1.0134	1.0144	1.0154	1.0164	1.0174	1.0184	1.0194	1.0204
-167.45	1.0069	1.0071	1.0075	1.0079	1.0084	1.0088	1.0092	1.0099	1.0109	1.0119	1.0129	1.0139	1.0149	1.0159	1.0169	1.0179	1.0189	1.0199	1.0209
0.854	1.4035	1.4038	1.4044	1.4050	1.4056	1.4062	1.4068	1.4077	1.4091	1.4105	1.4120	1.4134	1.4148	1.4162	1.4176	1.4190	1.4204	1.4218	1.4232
85.8	1.0059	1.0061	1.0065	1.0070	1.0074	1.0078	1.0083	1.0088	1.0099	1.0109	1.0120	1.0130	1.0140	1.0150	1.0160	1.0170	1.0180	1.0190	1.0200
-167.35	1.0064	1.0067	1.0071	1.0075	1.0079	1.0084	1.0088	1.0094	1.0105	1.0115	1.0125	1.0135	1.0145	1.0155	1.0165	1.0175	1.0185	1.0195	1.0205
0.863	1.4029	1.4032	1.4038	1.4044	1.4050	1.4056	1.4062	1.4071	1.4085	1.4100	1.4114	1.4128	1.4142	1.4156	1.4170	1.4184	1.4198	1.4212	1.4226
85.9	1.0055	1.0057	1.0061	1.0065	1.0070	1.0074	1.0078	1.0085	1.0095	1.0106	1.0116	1.0126	1.0136	1.0146	1.0156	1.0166	1.0176	1.0186	1.0196
-167.25	1.0060	1.0062	1.0067	1.0071	1.0075	1.0079	1.0084	1.0090	1.0101	1.0111	1.0121	1.0131	1.0141	1.0151	1.0161	1.0171	1.0181	1.0191	1.0201
0.873	1.4023	1.4026	1.4032	1.4038	1.4044	1.4050	1.4056	1.4065	1.4079	1.4094	1.4108	1.4122	1.4136	1.4150	1.4164	1.4178	1.4192	1.4206	1.4220
86.0	1.0050	1.0053	1.0057	1.0061	1.0065	1.0070	1.0074	1.0080	1.0091	1.0101	1.0111	1.0121	1.0131	1.0141	1.0151	1.0161	1.0171	1.0181	1.0191
-167.15	1.0056	1.0058	1.0062	1.0067	1.0071	1.0075	1.0079	1.0086	1.0096	1.0107	1.0117	1.0127	1.0137	1.0147	1.0157	1.0167	1.0177	1.0187	1.0197
0.882	1.4017	1.4020	1.4026	1.4032	1.4038	1.4044	1.4050	1.4059	1.4074	1.4088	1.4102	1.4117	1.4131	1.4145	1.4159	1.4173	1.4187	1.4201	1.4215
86.1	1.0046	1.0048	1.0053	1.0057	1.0061	1.0065	1.0070	1.0076	1.0087	1.0097	1.0107	1.0117	1.0127	1.0137	1.0147	1.0157	1.0167	1.0177	1.0187
-167.05	1.0051	1.0054	1.0058	1.0062	1.0067	1.0071	1.0075	1.0082	1.0092	1.0103	1.0113	1.0123	1.0133	1.0143	1.0153	1.0163	1.0173	1.0183	1.0193
0.892	1.4011	1.4014	1.4020	1.4026	1.4032	1.4038	1.4044	1.4053	1.4068	1.4082	1.4097	1.4111	1.4125	1.4139	1.4153	1.4167	1.4181	1.4195	1.4209
86.2	1.0042	1.0044	1.0048	1.0053	1.0057	1.0061	1.0065	1.0072	1.0082	1.0093	1.0103	1.0113	1.0123	1.0133	1.0143	1.0153	1.0163	1.0173	1.0183
-166.95	1.0047	1.0049	1.0054	1.0058	1.0062	1.0067	1.0071	1.0078	1.0088	1.0099	1.0109	1.0119	1.0129	1.0139	1.0149	1.0159	1.0169	1.0179	1.0189
0.902	1.4005	1.4008	1.4014	1.4020	1.4026	1.4032	1.4038	1.4047	1.4062	1.4076	1.4091	1.4105	1.4119	1.4133	1.4147	1.4161	1.4175	1.4189	1.4203
86.3	1.0037	1.0040	1.0044	1.0048	1.0053	1.0057	1.0061	1.0068	1.0078	1.0088	1.0099	1.0109	1.0119	1.0129	1.0139	1.0149	1.0159	1.0169	1.0179
-166.85	1.0043	1.0045	1.0049	1.0054	1.0058	1.0062	1.0067	1.0073	1.0084	1.0094	1.0104	1.0114	1.0124	1.0134	1.0144	1.0154	1.0164	1.0174	1.0184
0.912	1.3999	1.4002	1.4008	1.4014	1.4020	1.4026	1.4032	1.4041	1.4056	1.4070	1.4085	1.4099	1.4113	1.4127	1.4141	1.4155	1.4169	1.4183	1.4197
86.4	1.0033	1.0035	1.0040	1.0044	1.0048	1.0053	1.0057	1.0063	1.0074	1.0084	1.0095	1.0105	1.0115	1.0125	1.0135	1.0145	1.0155	1.0165	1.0175
-166.75	1.0039	1.0041	1.0045	1.0049	1.0054	1.0058	1.0062	1.0069	1.0079	1.0089	1.0100	1.0110	1.0120	1.0130	1.0140	1.0150	1.0160	1.0170	1.0180
0.922	1.3993	1.3996	1.4002	1.4008	1.4014	1.4020	1.4026	1.4035	1.4050	1.4065	1.4079	1.4093	1.4107	1.4121	1.4135	1.4149	1.4163	1.4177	1.4191
86.5	1.0029	1.0031	1.0035	1.0040	1.0044	1.0048	1.0053	1.0059	1.0070	1.0080	1.0091	1.0101	1.0111	1.0121	1.0131	1.0141	1.0151	1.0161	1.0171
-166.65	1.0034	1.0036	1.0041	1.0045	1.0049	1.0054	1.0058	1.0065	1.0075	1.0086	1.0096	1.0106	1.0116	1.0126	1.0136	1.0146	1.0156	1.0166	1.0176
0.932	1.3987	1.3990	1.3996	1.4002	1.4008	1.4014	1.4020	1.4029	1.4044	1.4059	1.4073	1.4087	1.4101	1.4115	1.4129	1.4143	1.4157	1.4171	1.4185
86.6	1.0024	1.0027	1.0031	1.0035	1.0040	1.0044	1.0048	1.0055	1.0065	1.0076	1.0086	1.0097	1.0107	1.0117	1.0127	1.0137	1.014.		

TABLE 12 - CONTINUED

DENSITY OF COMPRESSED LIQUID ARGON - CONTINUED

TABLE ENTRIES													
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/DM ³									
BAR K/CM ²	0.800 0.816	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.197	15.000 15.296	20.000 20.394	25.000 25.493	30.000 30.591	35.000 35.690	40.000 40.789
87.0 -186.15 0.983	1.0007 1.0012 1.3957	1.0009 1.0015 1.3960	1.0014 1.0019 1.3966	1.0018 1.0023 1.3972	1.0022 1.0028 1.3978	1.0027 1.0032 1.3984	1.0031 1.0036 1.3989	1.0036 1.0041 1.4002	1.0040 1.0045 1.4008	1.0045 1.0050 1.4013	1.0050 1.0055 1.4018	1.0055 1.0060 1.4023	1.0060 1.0065 1.4028
87.1 -186.05 0.994	1.0003 1.0008 1.3950	1.0005 1.0010 1.3954	1.0009 1.0015 1.3960	1.0014 1.0019 1.3966	1.0018 1.0023 1.3972	1.0022 1.0028 1.3978	1.0033 1.0036 1.3993	1.0044 1.0046 1.4008	1.0055 1.0056 1.4023	1.0065 1.0071 1.4038	1.0076 1.0081 1.4052	1.0086 1.0091 1.4067	1.0096 1.0101 1.4082
87.2 -185.95 1.004	1.0000 1.0006 1.3947	1.0005 1.0010 1.3954	1.0009 1.0015 1.3960	1.0014 1.0019 1.3966	1.0018 1.0024 1.3972	1.0024 1.0034 1.3987	1.0029 1.0045 1.4002	1.0040 1.0056 1.4002	1.0050 1.0056 1.4017	1.0061 1.0066 1.4032	1.0072 1.0077 1.4047	1.0082 1.0087 1.4061	1.0092 1.0097 1.4076
87.3 -185.85 1.015	0.9996 1.0001 1.3941	1.0001 1.0006 1.3946	1.0005 1.0010 1.3954	1.0009 1.0015 1.3960	1.0014 1.0019 1.3966	1.0018 1.0024 1.3971	1.0025 1.0030 1.3996	1.0035 1.0041 1.3996	1.0046 1.0052 1.4011	1.0057 1.0062 1.4026	1.0067 1.0073 1.4041	1.0078 1.0083 1.4055	1.0088 1.0093 1.4069
87.4 -185.75 1.026	0.9992 0.9997 1.3935	0.9996 1.0002 1.3941	1.0001 1.0006 1.3946	1.0005 1.0010 1.3954	1.0009 1.0015 1.3960	1.0014 1.0020 1.3966	1.0020 1.0026 1.3979	1.0031 1.0037 1.3990	1.0042 1.0047 1.4005	1.0053 1.0058 1.4020	1.0063 1.0069 1.4035	1.0073 1.0079 1.4049	1.0083 1.0089 1.4064
87.5 -185.65 1.037	0.9987 0.9993 1.3929	0.9992 0.9997 1.3935	0.9996 1.0002 1.3942	1.0001 1.0006 1.3948	1.0005 1.0010 1.3954	1.0009 1.0015 1.3960	1.0015 1.0021 1.3966	1.0027 1.0032 1.3984	1.0038 1.0043 1.3999	1.0048 1.0054 1.4014	1.0059 1.0064 1.4029	1.0069 1.0075 1.4043	1.0079 1.0085 1.4057
87.6 -185.55 1.046	0.9983 0.9988 1.3923	0.9987 0.9993 1.3929	0.9992 0.9997 1.3935	0.9996 1.0002 1.3942	1.0001 1.0006 1.3948	1.0005 1.0011 1.3954	1.0011 1.0017 1.3961	1.0023 1.0028 1.3978	1.0033 1.0039 1.3993	1.0044 1.0049 1.4008	1.0055 1.0061 1.4023	1.0065 1.0071 1.4038	1.0075 1.0081 1.4053
87.7 -185.45 1.059	0.9979 0.9984 1.3917	0.9983 0.9988 1.3923	0.9988 0.9993 1.3929	0.9992 0.9997 1.3936	0.9996 1.0002 1.3942	1.0001 1.0006 1.3948	1.0007 1.0013 1.3957	1.0018 1.0024 1.3972	1.0029 1.0035 1.3987	1.0040 1.0045 1.4002	1.0050 1.0056 1.4017	1.0061 1.0066 1.4032	1.0071 1.0077 1.4047
87.8 -185.35 1.070	0.9974 0.9979 1.3911	0.9978 0.9984 1.3917	0.9983 0.9988 1.3923	0.9988 0.9993 1.3929	0.9992 0.9997 1.3936	0.9996 1.0002 1.3942	1.0003 1.0008 1.3951	1.0014 1.0019 1.3966	1.0025 1.0030 1.3981	1.0036 1.0041 1.3996	1.0046 1.0051 1.4011	1.0057 1.0062 1.4026	1.0067 1.0072 1.4041
87.9 -185.25 1.081	0.9970 0.9975 1.3905	0.9974 0.9979 1.3911	0.9979 0.9984 1.3917	0.9983 0.9988 1.3923	0.9988 0.9993 1.3929	0.9993 0.9998 1.3936	0.9999 1.0004 1.3945	1.0010 1.0015 1.3960	1.0021 1.0026 1.3975	1.0031 1.0037 1.3990	1.0042 1.0047 1.4005	1.0052 1.0058 1.4019	1.0062 1.0067 1.4034
88.0 -185.15 1.092	0.9965 0.9971 1.3898	0.9969 0.9975 1.3905	0.9974 0.9979 1.3911	0.9979 0.9984 1.3917	0.9983 0.9988 1.3923	0.9988 0.9993 1.3929	0.9994 0.9999 1.3938	1.0005 1.0011 1.3954	1.0016 1.0022 1.3969	1.0027 1.0032 1.3984	1.0038 1.0043 1.3999	1.0048 1.0053 1.4014	1.0058 1.0063 1.4029
88.1 -185.05 1.104	0.9961 0.9966 1.3892	0.9965 0.9971 1.3905	0.9970 0.9975 1.3911	0.9974 0.9979 1.3917	0.9979 0.9984 1.3923	0.9983 0.9988 1.3929	0.9989 0.9994 1.3933	1.0001 1.0006 1.3948	1.0012 1.0017 1.3963	1.0023 1.0028 1.3978	1.0033 1.0039 1.3993	1.0044 1.0049 1.4008	1.0054 1.0059 1.4023
88.2 -184.95 1.115	0.9956 0.9962 1.3886	0.9961 0.9966 1.3892	0.9966 0.9971 1.3905	0.9970 0.9975 1.3911	0.9974 0.9979 1.3917	0.9979 0.9984 1.3923	0.9985 0.9991 1.3927	0.9996 1.0002 1.3942	1.0008 1.0013 1.3957	1.0018 1.0024 1.3972	1.0029 1.0035 1.3987	1.0039 1.0045 1.4002	1.0049 1.0054 1.4017
88.3 -184.85 1.127	0.9952 0.9957 1.3880	0.9957 0.9962 1.3886	0.9961 0.9966 1.3892	0.9966 0.9971 1.3898	0.9970 0.9975 1.3905	0.9974 0.9979 1.3911	0.9981 0.9987 1.3921	0.9992 0.9998 1.3936	1.0003 1.0008 1.3951	1.0014 1.0020 1.3966	1.0025 1.0031 1.3981	1.0035 1.0041 1.3996	1.0045 1.0051 1.4011
88.4 -184.75 1.139	0.9948 0.9953 1.3874	0.9952 0.9957 1.3880	0.9957 0.9962 1.3886	0.9961 0.9966 1.3892	0.9966 0.9971 1.3898	0.9966 0.9971 1.3905	0.9973 0.9979 1.3915	0.9988 0.9993 1.3930	0.9999 1.0004 1.3945	1.0010 1.0015 1.3960	1.0021 1.0026 1.3975	1.0031 1.0037 1.3990	1.0041 1.0046 1.4005
88.5 -184.65 1.150	0.9943 0.9949 1.3868	0.9948 0.9953 1.3874	0.9952 0.9957 1.3880	0.9957 0.9962 1.3886	0.9961 0.9966 1.3892	0.9961 0.9967 1.3898	0.9968 0.9974 1.3903	0.9984 0.9989 1.3924	0.9995 1.0000 1.3939	1.0006 1.0011 1.3954	1.0016 1.0021 1.3969	1.0027 1.0032 1.3984	1.0037 1.0042 1.3999
88.6 -184.55 1.162	0.9939 0.9944 1.3861	0.9943 0.9949 1.3868	0.9948 0.9953 1.3874	0.9952 0.9958 1.3880	0.9957 0.9962 1.3886	0.9957 0.9962 1.3892	0.9964 0.9970 1.3907	0.9980 0.9985 1.3918	0.9991 0.9996 1.3933	1.0001 1.0007 1.3948	1.0012 1.0017 1.3964	1.0023 1.0028 1.3979	1.0033 1.0038 1.3994
88.7 -184.45 1.174	0.9934 0.9940 1.3855	0.9939 0.9944 1.3862	0.9943 0.9949 1.3868	0.9948 0.9953 1.3874	0.9953 0.9958 1.3880	0.9953 0.9958 1.3886	0.9960 0.9965 1.3891	0.9976 0.9981 1.3906	0.9987 0.9992 1.3921	0.9998 1.0003 1.3936	1.0008 1.0013 1.3951	1.0019 1.0024 1.3966	1.0029 1.0034 1.3981
88.8 -184.35 1.186	0.9930 0.9935 1.3849	0.9934 0.9940 1.3855	0.9939 0.9944 1.3862	0.9943 0.9949 1.3868	0.9948 0.9953 1.3874	0.9948 0.9953 1.3880	0.9955 0.9960 1.3895	0.9970 0.9975 1.3910	0.9982 0.9987 1.3925	0.9993 0.9998 1.3940	1.0003 1.0008 1.3955	1.0014 1.0019 1.3970	1.0024 1.0029 1.3985
88.9 -184.25 1.199	0.9925 0.9931 1.3843	0.9930 0.9935 1.3849	0.9935 0.9940 1.3856	0.9939 0.9944 1.3862	0.9943 0.9949 1.3868	0.9943 0.9949 1.3874	0.9950 0.9955 1.3889	0.9965 0.9970 1.3904	0.9977 0.9982 1.3919	0.9988 0.9993 1.3934	0.9999 1.0004 1.3949	1.0010 1.0015 1.3964	1.0020 1.0025 1.3979

TABLE 12 - CONTINUED

DENSITY OF COMPRESSED LIQUID ARGON - CONTINUED

		TABLE ENTRIES											
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR		1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/CM ³											
BAR K/PC ²	0.600 0.616	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.116	8.000 8.158	10.000 10.197	15.000 15.296	20.000 20.394	25.000 25.493	30.000 30.591	35.000 35.690	40.000 40.789
89.0 -184.15 1.211			0.9921 0.9926 1.3837	0.9926 0.9931 1.3843	0.9930 0.9936 1.3849	0.9935 0.9940 1.3856	0.9939 0.9945 1.3862	0.9951 0.9956 1.3878	0.9962 0.9967 1.3894	0.9973 0.9978 1.3909	0.9984 0.9989 1.3924	0.9995 1.0000 1.3940	1.0006 1.0011 1.3955
89.1 -184.05 1.223			0.9916 0.9922 1.3830	0.9921 0.9926 1.3837	0.9926 0.9931 1.3843	0.9930 0.9936 1.3850	0.9935 0.9940 1.3856	0.9946 0.9952 1.3872	0.9957 0.9963 1.3887	0.9969 0.9974 1.3903	0.9980 0.9985 1.3918	0.9991 0.9996 1.3934	1.0001 1.0007 1.3949
89.2 -183.95 1.236			0.9912 0.9917 1.3824	0.9917 0.9922 1.3831	0.9921 0.9927 1.3837	0.9926 0.9931 1.3843	0.9930 0.9936 1.3850	0.9942 0.9947 1.3866	0.9953 0.9958 1.3881	0.9964 0.9970 1.3897	0.9975 0.9981 1.3912	0.9986 0.9992 1.3928	0.9997 1.0002 1.3943
89.3 -183.85 1.248			0.9908 0.9913 1.3818	0.9912 0.9918 1.3824	0.9917 0.9922 1.3831	0.9921 0.9927 1.3837	0.9926 0.9931 1.3844	0.9937 0.9943 1.3860	0.9949 0.9954 1.3875	0.9960 0.9965 1.3891	0.9971 0.9976 1.3906	0.9982 0.9987 1.3922	0.9993 0.9998 1.3937
89.4 -183.75 1.261			0.9903 0.9908 1.3812	0.9908 0.9913 1.3818	0.9912 0.9918 1.3825	0.9917 0.9922 1.3831	0.9922 0.9927 1.3837	0.9933 0.9938 1.3853	0.9944 0.9950 1.3869	0.9956 0.9961 1.3885	0.9967 0.9972 1.3900	0.9978 0.9983 1.3916	0.9988 0.9994 1.3931
89.5 -183.65 1.274			0.9899 0.9904 1.3805	0.9903 0.9909 1.3812	0.9908 0.9913 1.3818	0.9913 0.9918 1.3825	0.9917 0.9923 1.3831	0.9926 0.9932 1.3847	0.9940 0.9945 1.3863	0.9951 0.9957 1.3879	0.9962 0.9968 1.3894	0.9973 0.9979 1.3910	0.9984 0.9990 1.3925
89.6 -183.55 1.286			0.9894 0.9899 1.3799	0.9899 0.9904 1.3806	0.9903 0.9909 1.3812	0.9908 0.9913 1.3819	0.9913 0.9918 1.3825	0.9924 0.9930 1.3841	0.9936 0.9941 1.3857	0.9947 0.9952 1.3873	0.9958 0.9963 1.3888	0.9969 0.9974 1.3903	0.9980 0.9985 1.3919
89.7 -183.45 1.299			0.9890 0.9895 1.3793	0.9894 0.9900 1.3799	0.9899 0.9904 1.3806	0.9904 0.9909 1.3812	0.9908 0.9913 1.3819	0.9920 0.9925 1.3835	0.9931 0.9936 1.3851	0.9942 0.9947 1.3866	0.9954 0.9959 1.3882	0.9965 0.9970 1.3897	0.9976 0.9981 1.3913
89.8 -183.35 1.312			0.9885 0.9890 1.3787	0.9890 0.9895 1.3793	0.9894 0.9900 1.3800	0.9899 0.9905 1.3806	0.9904 0.9909 1.3813	0.9915 0.9921 1.3829	0.9927 0.9932 1.3845	0.9938 0.9943 1.3860	0.9949 0.9954 1.3876	0.9960 0.9966 1.3891	0.9971 0.9977 1.3907
89.9 -183.25 1.326			0.9881 0.9886 1.3780	0.9885 0.9891 1.3787	0.9890 0.9895 1.3793	0.9895 0.9900 1.3800	0.9899 0.9905 1.3806	0.9911 0.9916 1.3823	0.9922 0.9928 1.3839	0.9934 0.9939 1.3854	0.9945 0.9950 1.3870	0.9956 0.9961 1.3885	0.9967 0.9972 1.3901
90.0 -183.15 1.339			0.9876 0.9881 1.3774	0.9881 0.9886 1.3781	0.9886 0.9891 1.3787	0.9890 0.9896 1.3794	0.9895 0.9900 1.3800	0.9906 0.9912 1.3816	0.9918 0.9923 1.3832	0.9929 0.9935 1.3848	0.9941 0.9946 1.3864	0.9952 0.9957 1.3879	0.9963 0.9968 1.3895
90.1 -183.05 1.352			0.9872 0.9877 1.3768	0.9876 0.9882 1.3774	0.9881 0.9886 1.3781	0.9886 0.9891 1.3787	0.9890 0.9896 1.3794	0.9902 0.9907 1.3810	0.9914 0.9919 1.3826	0.9925 0.9930 1.3842	0.9936 0.9942 1.3858	0.9947 0.9953 1.3873	0.9958 0.9964 1.3889
90.2 -182.95 1.366			0.9867 0.9872 1.3761	0.9872 0.9877 1.3768	0.9877 0.9882 1.3775	0.9881 0.9887 1.3781	0.9886 0.9891 1.3788	0.9898 0.9903 1.3804	0.9909 0.9914 1.3820	0.9921 0.9926 1.3836	0.9932 0.9937 1.3852	0.9943 0.9948 1.3867	0.9954 0.9959 1.3883
90.3 -182.85 1.379			0.9863 0.9868 1.3755	0.9867 0.9873 1.3762	0.9872 0.9877 1.3768	0.9877 0.9882 1.3775	0.9881 0.9887 1.3781	0.9893 0.9898 1.3798	0.9905 0.9910 1.3814	0.9916 0.9921 1.3830	0.9927 0.9932 1.3846	0.9938 0.9943 1.3861	0.9949 0.9954 1.3877
90.4 -182.75 1.393			0.9858 0.9863 1.3749	0.9863 0.9868 1.3755	0.9868 0.9873 1.3762	0.9872 0.9878 1.3769	0.9877 0.9882 1.3775	0.9889 0.9894 1.3792	0.9900 0.9906 1.3808	0.9912 0.9917 1.3824	0.9923 0.9928 1.3840	0.9934 0.9939 1.3855	0.9945 0.9950 1.3871
90.5 -182.65 1.407			0.9853 0.9859 1.3742	0.9858 0.9864 1.3749	0.9863 0.9868 1.3756	0.9868 0.9873 1.3762	0.9872 0.9878 1.3769	0.9884 0.9889 1.3785	0.9896 0.9901 1.3801	0.9907 0.9912 1.3817	0.9919 0.9924 1.3833	0.9930 0.9935 1.3849	0.9941 0.9946 1.3865
90.6 -182.55 1.420			0.9849 0.9854 1.3736	0.9854 0.9859 1.3743	0.9859 0.9864 1.3749	0.9863 0.9869 1.3756	0.9868 0.9873 1.3762	0.9880 0.9885 1.3777	0.9891 0.9897 1.3793	0.9903 0.9908 1.3809	0.9914 0.9920 1.3825	0.9926 0.9931 1.3841	0.9937 0.9942 1.3858
90.7 -182.45 1.434			0.9844 0.9850 1.3730	0.9849 0.9855 1.3736	0.9854 0.9859 1.3743	0.9859 0.9864 1.3750	0.9864 0.9869 1.3756	0.9875 0.9881 1.3773	0.9887 0.9892 1.3789	0.9898 0.9904 1.3805	0.9910 0.9915 1.3821	0.9921 0.9927 1.3837	0.9932 0.9938 1.3852
90.8 -182.35 1.448			0.9840 0.9845 1.3723	0.9845 0.9850 1.3730	0.9849 0.9855 1.3737	0.9854 0.9860 1.3743	0.9859 0.9864 1.3750	0.9871 0.9876 1.3767	0.9882 0.9888 1.3783	0.9894 0.9899 1.3799	0.9905 0.9911 1.3815	0.9917 0.9922 1.3831	0.9928 0.9933 1.3846
90.9 -182.25 1.463			0.9835 0.9841 1.3717	0.9840 0.9845 1.3724	0.9845 0.9850 1.3731	0.9850 0.9855 1.3737	0.9854 0.9860 1.3744	0.9866 0.9872 1.3760	0.9878 0.9883 1.3777	0.9890 0.9895 1.3793	0.9901 0.9906 1.3809	0.9912 0.9918 1.3825	0.9924 0.9929 1.3840

TABLE 12 - CONTINUED

DENSITY OF COMPRESSED LIQUID ARGON - CONTINUED

		TABLE ENTRIES															
1. TEMPERATURE, K 2. TEMPERATURE, °C 3. VAPOR PRESSURE, BAR		1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/CM ³															
BAR	KP/CM ²	0.800	1.000	2.000	4.000	6.000	8.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000			
		0.816	1.020	2.039	4.079	6.118	8.158	10.197	15.296	20.394	25.493	30.591	35.690	40.789			
91.0				0.9831	0.9836	0.9840	0.9845	0.9850	0.9862	0.9874	0.9885	0.9897	0.9908	0.9919			
-182.15				0.9836	0.9841	0.9846	0.9851	0.9855	0.9867	0.9879	0.9891	0.9902	0.9913	0.9925			
1.477				1.3711	1.3711	1.3724	1.3731	1.3738	1.3754	1.3770	1.3787	1.3803	1.3819	1.3834			
91.1				0.9824	0.9831	0.9836	0.9841	0.9845	0.9857	0.9869	0.9881	0.9892	0.9904	0.9915			
-182.05				0.9831	0.9836	0.9841	0.9846	0.9851	0.9863	0.9874	0.9886	0.9898	0.9909	0.9920			
1.491				1.3704	1.3711	1.3716	1.3725	1.3731	1.3746	1.3764	1.3780	1.3797	1.3812	1.3828			
91.2				0.9822	0.9826	0.9831	0.9836	0.9841	0.9853	0.9865	0.9876	0.9888	0.9899	0.9911			
-181.95				0.9827	0.9832	0.9837	0.9841	0.9846	0.9858	0.9870	0.9882	0.9893	0.9905	0.9916			
1.566				1.3658	1.3705	1.3712	1.3718	1.3725	1.3742	1.3759	1.3774	1.3790	1.3806	1.3822			
91.3				0.9817	0.9822	0.9827	0.9832	0.9836	0.9848	0.9860	0.9872	0.9883	0.9895	0.9906			
-181.85				0.9822	0.9827	0.9832	0.9837	0.9842	0.9854	0.9866	0.9877	0.9889	0.9900	0.9912			
1.520				1.3692	1.3698	1.3705	1.3712	1.3719	1.3735	1.3752	1.3768	1.3784	1.3800	1.3816			
91.4				0.9812	0.9817	0.9822	0.9827	0.9832	0.9844	0.9856	0.9867	0.9879	0.9890	0.9902			
-181.75				0.9818	0.9823	0.9828	0.9832	0.9837	0.9849	0.9861	0.9873	0.9884	0.9896	0.9907			
1.535				1.3685	1.3692	1.3699	1.3706	1.3712	1.3729	1.3746	1.3762	1.3778	1.3794	1.3810			
91.5				0.9808	0.9813	0.9818	0.9823	0.9827	0.9839	0.9851	0.9863	0.9875	0.9886	0.9897			
-181.65				0.9813	0.9818	0.9823	0.9828	0.9833	0.9845	0.9857	0.9868	0.9880	0.9891	0.9903			
1.550				1.3679	1.3686	1.3692	1.3699	1.3706	1.3723	1.3739	1.3756	1.3772	1.3788	1.3804			
91.6				0.9803	0.9808	0.9813	0.9818	0.9823	0.9835	0.9847	0.9859	0.9870	0.9882	0.9893			
-181.55				0.9809	0.9814	0.9818	0.9823	0.9828	0.9840	0.9852	0.9864	0.9875	0.9887	0.9898			
1.565				1.3672	1.3679	1.3686	1.3693	1.3700	1.3716	1.3733	1.3749	1.3766	1.3782	1.3798			
91.7				0.9799	0.9804	0.9809	0.9813	0.9818	0.9830	0.9842	0.9854	0.9866	0.9877	0.9889			
-181.45				0.9804	0.9809	0.9814	0.9819	0.9824	0.9836	0.9848	0.9859	0.9871	0.9883	0.9894			
1.580				1.3666	1.3673	1.3680	1.3687	1.3693	1.3710	1.3727	1.3743	1.3760	1.3776	1.3792			
91.8				0.9794	0.9799	0.9804	0.9809	0.9814	0.9826	0.9838	0.9850	0.9861	0.9873	0.9884			
-181.35				0.9799	0.9804	0.9809	0.9814	0.9819	0.9831	0.9843	0.9855	0.9867	0.9878	0.9890			
1.595				1.3659	1.3667	1.3673	1.3680	1.3687	1.3704	1.3721	1.3737	1.3753	1.3769	1.3785			
91.9				0.9790	0.9794	0.9799	0.9804	0.9809	0.9821	0.9833	0.9845	0.9857	0.9868	0.9880			
-181.25				0.9795	0.9800	0.9805	0.9810	0.9814	0.9827	0.9839	0.9850	0.9862	0.9874	0.9885			
1.610				1.3653	1.3660	1.3667	1.3674	1.3681	1.3698	1.3714	1.3731	1.3747	1.3763	1.3779			
92.0				0.9785	0.9790	0.9795	0.9800	0.9805	0.9817	0.9829	0.9841	0.9852	0.9864	0.9876			
-181.15				0.9790	0.9795	0.9800	0.9805	0.9810	0.9822	0.9834	0.9846	0.9857	0.9869	0.9881			
1.625				1.3647	1.3654	1.3661	1.3667	1.3674	1.3691	1.3708	1.3725	1.3741	1.3757	1.3773			
92.1				0.9780	0.9785	0.9790	0.9795	0.9800	0.9812	0.9824	0.9836	0.9848	0.9860	0.9871			
-181.05				0.9786	0.9791	0.9796	0.9800	0.9805	0.9818	0.9830	0.9841	0.9853	0.9865	0.9876			
1.641				1.3640	1.3647	1.3654	1.3661	1.3668	1.3685	1.3702	1.3718	1.3735	1.3751	1.3767			
92.2				0.9776	0.9781	0.9786	0.9791	0.9795	0.9808	0.9820	0.9832	0.9843	0.9855	0.9867			
-180.95				0.9781	0.9786	0.9791	0.9796	0.9801	0.9813	0.9825	0.9837	0.9849	0.9860	0.9872			
1.656				1.3634	1.3641	1.3648	1.3655	1.3662	1.3679	1.3695	1.3712	1.3729	1.3745	1.3761			
92.3				0.9771	0.9776	0.9781	0.9786	0.9791	0.9803	0.9815	0.9827	0.9839	0.9851	0.9862			
-180.85				0.9776	0.9781	0.9786	0.9791	0.9796	0.9808	0.9821	0.9833	0.9844	0.9856	0.9868			
1.672				1.3627	1.3634	1.3641	1.3648	1.3655	1.3672	1.3689	1.3706	1.3722	1.3739	1.3755			
92.4				0.9766	0.9771	0.9776	0.9781	0.9786	0.9799	0.9811	0.9823	0.9835	0.9846	0.9858			
-180.75				0.9772	0.9777	0.9782	0.9787	0.9792	0.9804	0.9816	0.9828	0.9839	0.9851	0.9862			
1.688				1.3621	1.3628	1.3635	1.3642	1.3649	1.3666	1.3683	1.3700	1.3716	1.3732	1.3749			
92.5				0.9762	0.9767	0.9772	0.9777	0.9782	0.9794	0.9806	0.9818	0.9830	0.9842	0.9854			
-180.65				0.9767	0.9772	0.9777	0.9782	0.9787	0.9799	0.9812	0.9824	0.9835	0.9847	0.9859			
1.704				1.3615	1.3622	1.3629	1.3636	1.3642	1.3660	1.3677	1.3693	1.3710	1.3726	1.3742			
92.6				0.9757	0.9762	0.9767	0.9772	0.9777	0.9790	0.9802	0.9814	0.9826	0.9837	0.9849			
-180.55				0.9762	0.9767	0.9772	0.9777	0.9782	0.9794	0.9807	0.9819	0.9831	0.9843	0.9854			
1.720				1.3608	1.3615	1.3622	1.3629	1.3636	1.3653	1.3670	1.3687	1.3704	1.3720	1.3736			
92.7				0.9753	0.9758	0.9763	0.9768	0.9773	0.9785	0.9797	0.9809	0.9821	0.9833	0.9845			
-180.45				0.9758	0.9763	0.9768	0.9773	0.9778	0.9790	0.9802	0.9815	0.9826	0.9838	0.9850			
1.736				1.3602	1.3609	1.3616	1.3623	1.3630	1.3647	1.3664	1.3681	1.3697	1.3714	1.3730			
92.8				0.9748	0.9753	0.9758	0.9763	0.9768	0.9780	0.9793	0.9805	0.9817	0.9829	0.9840			
-180.35				0.9753	0.9758	0.9763	0.9768	0.9773	0.9785	0.9798	0.9810	0.9822	0.9834	0.9846			
1.752				1.3595	1.3602	1.3609	1.3616	1.3623	1.3640	1.3658	1.3674	1.3691	1.3708	1.3724			
92.9				0.9743	0.9748	0.9753	0.9758	0.9763	0.9776	0.9788	0.9800	0.9812	0.9824	0.9836			
-180.25				0.9749	0.9754	0.9759	0.9764	0.9769	0.9781	0.9793	0.9806	0.9818	0.9829	0.9841			
1.768				1.3589	1.3596	1.3603	1.3610	1.3617	1.3634	1.3651	1.3668	1.3685	1.3701	1.3718			

TABLE 12 - CONTINUED

DENSITY OF COMPRESSED LIQUID ARGON - CONTINUED

TABLE ENTRIES													
1. TEMPERATURE, K				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS									
2. TEMPERATURE, °C				2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS									
3. VAPOR PRESSURE, BAR				3. DENSITY, KG/D ³									
BAR	0.800	1.000	2.000	4.000	6.000	8.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000
KP/CM ²	0.816	1.020	2.039	4.079	6.119	8.158	10.197	15.299	20.394	25.493	30.591	35.690	40.789
93.0			0.9739	0.9744	0.9749	0.9754	0.9759	0.9771	0.9784	0.9796	0.9808	0.9820	0.9831
-180.15			0.9744	0.9749	0.9754	0.9759	0.9764	0.9777	0.9789	0.9801	0.9813	0.9825	0.9837
1.795			1.3582	1.3589	1.3596	1.3603	1.3610	1.3628	1.3645	1.3662	1.3679	1.3695	1.3712
93.1			0.9734	0.9739	0.9744	0.9749	0.9754	0.9767	0.9779	0.9791	0.9803	0.9815	0.9827
-180.05			0.9739	0.9744	0.9749	0.9754	0.9759	0.9772	0.9784	0.9796	0.9809	0.9820	0.9832
1.801			1.3576	1.3583	1.3590	1.3597	1.3604	1.3621	1.3639	1.3656	1.3672	1.3689	1.3705
93.2			0.9729	0.9734	0.9739	0.9745	0.9750	0.9762	0.9774	0.9787	0.9799	0.9811	0.9823
-179.95			0.9735	0.9740	0.9745	0.9750	0.9755	0.9767	0.9780	0.9792	0.9804	0.9816	0.9828
1.816			1.3569	1.3576	1.3583	1.3591	1.3598	1.3615	1.3632	1.3649	1.3666	1.3683	1.3699
93.3			0.9725	0.9730	0.9735	0.9740	0.9745	0.9758	0.9770	0.9782	0.9794	0.9806	0.9818
-179.85			0.9730	0.9735	0.9740	0.9745	0.9750	0.9763	0.9775	0.9787	0.9800	0.9812	0.9823
1.835			1.3563	1.3570	1.3577	1.3584	1.3591	1.3609	1.3626	1.3643	1.3660	1.3677	1.3693
93.4			0.9720	0.9725	0.9730	0.9735	0.9740	0.9753	0.9765	0.9778	0.9790	0.9802	0.9814
-179.75			0.9725	0.9730	0.9735	0.9741	0.9746	0.9758	0.9771	0.9783	0.9795	0.9807	0.9819
1.852			1.3556	1.3563	1.3570	1.3578	1.3585	1.3602	1.3619	1.3637	1.3654	1.3671	1.3687
93.5			0.9715	0.9720	0.9726	0.9731	0.9736	0.9748	0.9761	0.9773	0.9785	0.9797	0.9809
-179.65			0.9721	0.9726	0.9731	0.9736	0.9741	0.9754	0.9766	0.9778	0.9791	0.9803	0.9814
1.869			1.3550	1.3557	1.3564	1.3571	1.3578	1.3596	1.3613	1.3630	1.3647	1.3664	1.3681
93.6			0.9711	0.9716	0.9721	0.9726	0.9731	0.9744	0.9756	0.9769	0.9781	0.9793	0.9805
-179.55			0.9716	0.9721	0.9726	0.9731	0.9736	0.9748	0.9761	0.9774	0.9786	0.9798	0.9810
1.886			1.3543	1.3550	1.3558	1.3565	1.3572	1.3589	1.3607	1.3624	1.3641	1.3658	1.3674
93.7			0.9706	0.9711	0.9716	0.9721	0.9726	0.9738	0.9752	0.9764	0.9776	0.9788	0.9800
-179.45			0.9711	0.9716	0.9721	0.9727	0.9732	0.9744	0.9757	0.9769	0.9782	0.9794	0.9806
1.903			1.3537	1.3544	1.3551	1.3558	1.3565	1.3583	1.3600	1.3618	1.3635	1.3652	1.3668
93.8			0.9701	0.9706	0.9712	0.9717	0.9722	0.9735	0.9747	0.9759	0.9772	0.9784	0.9796
-179.35			0.9706	0.9712	0.9717	0.9722	0.9727	0.9740	0.9752	0.9765	0.9777	0.9789	0.9801
1.921			1.3530	1.3537	1.3545	1.3552	1.3559	1.3577	1.3594	1.3611	1.3628	1.3645	1.3661
93.9			0.9697	0.9702	0.9707	0.9712	0.9717	0.9730	0.9742	0.9755	0.9767	0.9779	0.9791
-179.25			0.9702	0.9707	0.9712	0.9717	0.9722	0.9735	0.9748	0.9760	0.9772	0.9785	0.9797
1.938			1.3524	1.3531	1.3538	1.3545	1.3552	1.3570	1.3588	1.3605	1.3622	1.3639	1.3656
94.0			0.9692	0.9697	0.9702	0.9707	0.9713	0.9725	0.9738	0.9750	0.9763	0.9775	0.9787
-179.15			0.9697	0.9702	0.9707	0.9713	0.9718	0.9731	0.9743	0.9756	0.9768	0.9780	0.9792
1.956			1.3517	1.3524	1.3531	1.3539	1.3546	1.3564	1.3581	1.3599	1.3616	1.3633	1.3650
94.1			0.9687	0.9692	0.9698	0.9703	0.9708	0.9721	0.9733	0.9746	0.9758	0.9770	0.9782
-179.05			0.9692	0.9698	0.9703	0.9708	0.9713	0.9726	0.9739	0.9751	0.9763	0.9776	0.9788
1.974			1.3510	1.3518	1.3525	1.3532	1.3539	1.3557	1.3575	1.3592	1.3609	1.3626	1.3643
94.2			0.9682	0.9688	0.9693	0.9698	0.9703	0.9715	0.9729	0.9741	0.9754	0.9766	0.9778
-178.95			0.9688	0.9693	0.9698	0.9703	0.9708	0.9721	0.9734	0.9746	0.9759	0.9771	0.9783
1.992			1.3504	1.3511	1.3518	1.3526	1.3533	1.3551	1.3568	1.3586	1.3603	1.3620	1.3637
94.3			0.9683	0.9688	0.9693	0.9699	0.9703	0.9715	0.9729	0.9741	0.9754	0.9766	0.9778
-178.85			0.9688	0.9693	0.9699	0.9704	0.9707	0.9720	0.9732	0.9744	0.9757	0.9769	0.9781
2.010			1.3505	1.3512	1.3519	1.3526	1.3534	1.3552	1.3569	1.3587	1.3604	1.3621	1.3638
94.4			0.9678	0.9683	0.9689	0.9694	0.9699	0.9707	0.9720	0.9732	0.9745	0.9757	0.9769
-178.75			0.9683	0.9689	0.9694	0.9699	0.9704	0.9717	0.9729	0.9742	0.9754	0.9767	0.9779
2.028			1.3498	1.3505	1.3513	1.3520	1.3528	1.3546	1.3563	1.3581	1.3599	1.3616	1.3632
94.5			0.9674	0.9679	0.9684	0.9689	0.9694	0.9707	0.9719	0.9732	0.9744	0.9756	0.9768
-178.65			0.9679	0.9684	0.9689	0.9694	0.9699	0.9712	0.9724	0.9737	0.9749	0.9761	0.9773
2.046			1.3491	1.3499	1.3506	1.3513	1.3521	1.3539	1.3556	1.3574	1.3592	1.3610	1.3628
94.6			0.9669	0.9674	0.9679	0.9685	0.9690	0.9703	0.9715	0.9728	0.9740	0.9752	0.9764
-178.55			0.9674	0.9679	0.9685	0.9690	0.9695	0.9708	0.9720	0.9733	0.9745	0.9758	0.9770
2.064			1.3485	1.3492	1.3500	1.3507	1.3515	1.3532	1.3549	1.3566	1.3584	1.3601	1.3618
94.7			0.9664	0.9669	0.9675	0.9680	0.9685	0.9698	0.9710	0.9723	0.9735	0.9748	0.9760
-178.45			0.9669	0.9675	0.9680	0.9685	0.9690	0.9703	0.9715	0.9728	0.9740	0.9752	0.9764
2.083			1.3478	1.3486	1.3493	1.3500	1.3508	1.3525	1.3542	1.3559	1.3576	1.3593	1.3610
94.8			0.9659	0.9665	0.9670	0.9675	0.9680	0.9693	0.9705	0.9718	0.9730	0.9743	0.9755
-178.35			0.9665	0.9670	0.9675	0.9680	0.9685	0.9698	0.9710	0.9723	0.9735	0.9748	0.9760
2.101			1.3472	1.3479	1.3486	1.3494	1.3502	1.3519	1.3536	1.3553	1.3570	1.3587	1.3599
94.9			0.9655	0.9660	0.9665	0.9671	0.9684	0.9696	0.9710	0.9722	0.9734	0.9746	0.9758
-178.25			0.9660	0.9665	0.9670	0.9676	0.9688	0.9700	0.9713	0.9725	0.9737	0.9749	0.9761
2.120			1.3465	1.3473	1.3480	1.3487	1.3500	1.3512	1.3523	1.3541	1.3559	1.3576	1.3593

TABLE 12 - CONTINUED

DENSITY OF COMPRESSED LIQUID ARGON - CONTINUED

				TABLE ENTRIES											
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/M ³											
BAR K/PCH ²	0.800 0.816	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.197	15.000 15.296	20.000 20.394	25.000 25.493	30.000 30.592	35.000 35.690	40.000 40.789		
95.0 -178.15 2.139				0.9650 0.9655 1.3459	0.9655 0.9660 1.3466	0.9661 0.9666 1.3473	0.9666 0.9671 1.3481	0.9679 0.9684 1.3495	0.9692 0.9697 1.3517	0.9705 0.9710 1.3535	0.9737 0.9742 1.3552	0.9730 0.9735 1.3570	0.9742 0.9747 1.3587		
95.1 -178.05 2.158				0.9645 0.9650 1.3452	0.9651 0.9656 1.3459	0.9656 0.9661 1.3467	0.9661 0.9666 1.3474	0.9674 0.9679 1.3492	0.9687 0.9692 1.3510	0.9700 0.9705 1.3528	0.9713 0.9718 1.3546	0.9725 0.9730 1.3563	0.9737 0.9742 1.3581		
95.2 -177.95 2.177				0.9640 0.9646 1.3445	0.9646 0.9651 1.3453	0.9651 0.9656 1.3460	0.9656 0.9662 1.3468	0.9670 0.9675 1.3486	0.9683 0.9688 1.3504	0.9695 0.9701 1.3522	0.9708 0.9713 1.3540	0.9721 0.9726 1.3557	0.9733 0.9738 1.3574		
95.3 -177.85 2.196				0.9636 0.9641 1.3439	0.9641 0.9646 1.3446	0.9646 0.9652 1.3454	0.9652 0.9657 1.3461	0.9665 0.9670 1.3475	0.9678 0.9683 1.3488	0.9691 0.9696 1.3509	0.9703 0.9709 1.3527	0.9716 0.9721 1.3545	0.9728 0.9734 1.3560		
95.4 -177.75 2.216				0.9631 0.9636 1.3432	0.9636 0.9642 1.3440	0.9642 0.9647 1.3447	0.9647 0.9652 1.3454	0.9660 0.9665 1.3473	0.9673 0.9678 1.3491	0.9686 0.9691 1.3509	0.9699 0.9704 1.3527	0.9711 0.9717 1.3544	0.9724 0.9729 1.3562		
95.5 -177.65 2.235				0.9626 0.9631 1.3425	0.9632 0.9637 1.3433	0.9637 0.9642 1.3440	0.9642 0.9648 1.3448	0.9656 0.9661 1.3466	0.9669 0.9674 1.3485	0.9682 0.9687 1.3503	0.9694 0.9699 1.3520	0.9707 0.9712 1.3538	0.9719 0.9725 1.3555		
95.6 -177.55 2.255				0.9621 0.9627 1.3419	0.9627 0.9632 1.3426	0.9632 0.9637 1.3434	0.9638 0.9643 1.3441	0.9651 0.9656 1.3460	0.9664 0.9669 1.3478	0.9677 0.9682 1.3496	0.9690 0.9695 1.3514	0.9702 0.9707 1.3532	0.9715 0.9720 1.3549		
95.7 -177.45 2.275				0.9617 0.9622 1.3412	0.9622 0.9627 1.3420	0.9627 0.9633 1.3427	0.9633 0.9638 1.3435	0.9644 0.9651 1.3453	0.9659 0.9665 1.3472	0.9672 0.9678 1.3490	0.9685 0.9690 1.3508	0.9698 0.9703 1.3525	0.9710 0.9716 1.3543		
95.8 -177.35 2.294				0.9612 0.9617 1.3405	0.9617 0.9623 1.3413	0.9623 0.9628 1.3421	0.9628 0.9633 1.3428	0.9641 0.9647 1.3447	0.9655 0.9660 1.3465	0.9668 0.9673 1.3483	0.9681 0.9686 1.3501	0.9693 0.9698 1.3519	0.9706 0.9711 1.3536		
95.9 -177.25 2.314				0.9607 0.9612 1.3399	0.9613 0.9618 1.3406	0.9618 0.9623 1.3414	0.9623 0.9629 1.3422	0.9637 0.9642 1.3440	0.9650 0.9655 1.3459	0.9663 0.9668 1.3477	0.9676 0.9681 1.3495	0.9689 0.9694 1.3513	0.9701 0.9706 1.3530		
96.0 -177.15 2.335				0.9602 0.9608 1.3392	0.9608 0.9613 1.3400	0.9613 0.9618 1.3407	0.9619 0.9624 1.3415	0.9632 0.9637 1.3434	0.9645 0.9651 1.3452	0.9658 0.9664 1.3470	0.9671 0.9677 1.3488	0.9684 0.9689 1.3506	0.9697 0.9702 1.3524		
96.1 -177.05 2.355				0.9598 0.9603 1.3385	0.9603 0.9608 1.3401	0.9608 0.9614 1.3408	0.9614 0.9619 1.3416	0.9627 0.9632 1.3435	0.9641 0.9646 1.3454	0.9654 0.9659 1.3473	0.9667 0.9672 1.3492	0.9680 0.9685 1.3510	0.9692 0.9697 1.3528		
96.2 -176.95 2.375				0.9593 0.9598 1.3379	0.9598 0.9603 1.3386	0.9604 0.9609 1.3394	0.9609 0.9614 1.3402	0.9623 0.9628 1.3420	0.9636 0.9641 1.3439	0.9649 0.9654 1.3457	0.9662 0.9667 1.3476	0.9675 0.9680 1.3494	0.9688 0.9693 1.3511		
96.3 -176.85 2.396				0.9588 0.9593 1.3372	0.9593 0.9598 1.3380	0.9599 0.9604 1.3387	0.9604 0.9610 1.3395	0.9618 0.9623 1.3414	0.9631 0.9636 1.3433	0.9644 0.9649 1.3451	0.9657 0.9662 1.3469	0.9670 0.9675 1.3487	0.9683 0.9688 1.3505		
96.4 -176.75 2.416				0.9583 0.9588 1.3365	0.9588 0.9594 1.3373	0.9594 0.9599 1.3381	0.9600 0.9605 1.3388	0.9613 0.9618 1.3407	0.9627 0.9632 1.3426	0.9640 0.9645 1.3444	0.9653 0.9658 1.3463	0.9666 0.9671 1.3481	0.9679 0.9684 1.3499		
96.5 -176.65 2.437				0.9578 0.9584 1.3359	0.9584 0.9589 1.3366	0.9589 0.9594 1.3374	0.9595 0.9599 1.3382	0.9608 0.9613 1.3401	0.9622 0.9627 1.3419	0.9635 0.9640 1.3438	0.9648 0.9653 1.3456	0.9661 0.9666 1.3474	0.9674 0.9679 1.3492		
96.6 -176.55 2.458				0.9574 0.9579 1.3352	0.9579 0.9584 1.3360	0.9585 0.9590 1.3367	0.9590 0.9595 1.3375	0.9604 0.9609 1.3394	0.9617 0.9622 1.3413	0.9630 0.9635 1.3431	0.9644 0.9649 1.3450	0.9657 0.9662 1.3468	0.9669 0.9675 1.3486		
96.7 -176.45 2.479				0.9569 0.9574 1.3345	0.9574 0.9579 1.3353	0.9580 0.9585 1.3361	0.9585 0.9590 1.3368	0.9599 0.9604 1.3388	0.9613 0.9618 1.3406	0.9626 0.9631 1.3425	0.9639 0.9644 1.3443	0.9652 0.9657 1.3461	0.9665 0.9670 1.3479		
96.8 -176.35 2.500				0.9564 0.9569 1.3339	0.9570 0.9575 1.3346	0.9575 0.9580 1.3354	0.9581 0.9586 1.3362	0.9594 0.9599 1.3381	0.9608 0.9613 1.3400	0.9621 0.9626 1.3418	0.9634 0.9639 1.3437	0.9647 0.9652 1.3455	0.9660 0.9665 1.3473		
96.9 -176.25 2.522				0.9559 0.9564 1.3332	0.9565 0.9570 1.3340	0.9570 0.9575 1.3347	0.9576 0.9581 1.3355	0.9590 0.9595 1.3374	0.9603 0.9608 1.3393	0.9616 0.9621 1.3412	0.9630 0.9635 1.3430	0.9643 0.9648 1.3448	0.9656 0.9661 1.3467		

TABLE 12 - CONTINUED

DENSITY OF COMPRESSED LIQUID ARGON - CONTINUED

				TABLE ENTRIES																
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/CM ³																
BAR K/CM ²	0.800 0.816	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.197	15.000 15.296	20.000 20.394	25.000 25.493	30.000 30.591	35.000 35.690	40.000 40.789							
97.0 -176.15 2.543				0.9554 0.9559 1.3325	0.9560 0.9565 1.3333	0.9565 0.9571 1.3341	0.9571 0.9576 1.3348	0.9585 0.9590 1.3368	0.9598 0.9604 1.3387	0.9612 0.9617 1.3405	0.9625 0.9630 1.3424	0.9638 0.9643 1.3442	0.9651 0.9656 1.3460							
97.1 -176.05 2.565				0.9549 0.9555 1.3318	0.9555 0.9560 1.3326	0.9561 0.9566 1.3334	0.9566 0.9571 1.3342	0.9580 0.9585 1.3361	0.9594 0.9599 1.3380	0.9607 0.9612 1.3399	0.9620 0.9626 1.3417	0.9634 0.9639 1.3436	0.9646 0.9652 1.3454							
97.2 -175.95 2.586				0.9545 0.9550 1.3312	0.9550 0.9555 1.3319	0.9556 0.9561 1.3327	0.9561 0.9567 1.3335	0.9575 0.9580 1.3354	0.9589 0.9594 1.3373	0.9602 0.9608 1.3392	0.9616 0.9621 1.3411	0.9629 0.9634 1.3429	0.9642 0.9647 1.3447							
97.3 -175.85 2.608				0.9540 0.9545 1.3305	0.9545 0.9551 1.3313	0.9551 0.9556 1.3321	0.9557 0.9562 1.3328	0.9571 0.9576 1.3348	0.9584 0.9589 1.3367	0.9598 0.9603 1.3386	0.9611 0.9616 1.3404	0.9624 0.9629 1.3423	0.9637 0.9643 1.3441							
97.4 -175.75 2.630				0.9535 0.9540 1.3298	0.9541 0.9546 1.3306	0.9546 0.9551 1.3314	0.9552 0.9557 1.3322	0.9566 0.9571 1.3341	0.9579 0.9585 1.3360	0.9593 0.9598 1.3379	0.9606 0.9612 1.3398	0.9620 0.9626 1.3416	0.9633 0.9638 1.3435							
97.5 -175.65 2.653				0.9530 0.9535 1.3291	0.9536 0.9541 1.3299	0.9541 0.9547 1.3307	0.9547 0.9552 1.3315	0.9561 0.9566 1.3334	0.9575 0.9580 1.3354	0.9588 0.9594 1.3373	0.9602 0.9607 1.3391	0.9615 0.9620 1.3410	0.9628 0.9633 1.3428							
97.6 -175.55 2.675				0.9525 0.9530 1.3285	0.9531 0.9536 1.3293	0.9537 0.9542 1.3300	0.9542 0.9547 1.3308	0.9556 0.9561 1.3328	0.9570 0.9575 1.3347	0.9584 0.9589 1.3366	0.9597 0.9602 1.3385	0.9610 0.9615 1.3403	0.9624 0.9629 1.3422							
97.7 -175.45 2.697				0.9520 0.9525 1.3278	0.9526 0.9531 1.3286	0.9532 0.9537 1.3294	0.9537 0.9543 1.3302	0.9551 0.9557 1.3321	0.9565 0.9570 1.3340	0.9579 0.9584 1.3360	0.9592 0.9598 1.3378	0.9606 0.9611 1.3397	0.9619 0.9624 1.3415							
97.8 -175.35 2.720				0.9515 0.9521 1.3271	0.9521 0.9526 1.3279	0.9527 0.9532 1.3287	0.9533 0.9538 1.3295	0.9547 0.9552 1.3314	0.9561 0.9566 1.3334	0.9574 0.9579 1.3353	0.9588 0.9593 1.3372	0.9601 0.9606 1.3390	0.9614 0.9619 1.3409							
97.9 -175.25 2.742				0.9511 0.9516 1.3264	0.9516 0.9521 1.3272	0.9522 0.9527 1.3280	0.9528 0.9533 1.3288	0.9542 0.9547 1.3308	0.9556 0.9561 1.3327	0.9570 0.9575 1.3346	0.9583 0.9588 1.3365	0.9596 0.9602 1.3384	0.9610 0.9615 1.3402							
98.0 -175.15 2.765				0.9506 0.9511 1.3257	0.9511 0.9517 1.3265	0.9517 0.9522 1.3273	0.9523 0.9528 1.3281	0.9537 0.9542 1.3301	0.9551 0.9556 1.3321	0.9565 0.9570 1.3340	0.9578 0.9583 1.3359	0.9592 0.9597 1.3377	0.9605 0.9610 1.3395							
98.1 -175.05 2.788				0.9501 0.9506 1.3251	0.9507 0.9512 1.3259	0.9512 0.9518 1.3267	0.9518 0.9523 1.3275	0.9532 0.9537 1.3294	0.9546 0.9551 1.3314	0.9560 0.9565 1.3333	0.9574 0.9579 1.3352	0.9587 0.9592 1.3371	0.9600 0.9605 1.3389							
98.2 -174.95 2.811				0.9496 0.9501 1.3244	0.9502 0.9507 1.3252	0.9508 0.9513 1.3260	0.9513 0.9518 1.3268	0.9527 0.9532 1.3288	0.9541 0.9547 1.3307	0.9555 0.9560 1.3327	0.9569 0.9574 1.3346	0.9582 0.9587 1.3364	0.9596 0.9601 1.3383							
98.3 -174.85 2.835				0.9491 0.9496 1.3237	0.9497 0.9502 1.3245	0.9503 0.9508 1.3253	0.9508 0.9514 1.3261	0.9523 0.9528 1.3281	0.9537 0.9542 1.3301	0.9551 0.9556 1.3320	0.9564 0.9569 1.3339	0.9578 0.9583 1.3358	0.9591 0.9596 1.3377							
98.4 -174.75 2.858				0.9486 0.9491 1.3230	0.9492 0.9497 1.3238	0.9498 0.9503 1.3246	0.9504 0.9509 1.3254	0.9518 0.9523 1.3274	0.9532 0.9537 1.3294	0.9546 0.9551 1.3313	0.9560 0.9565 1.3333	0.9574 0.9579 1.3351	0.9587 0.9592 1.3370							
98.5 -174.65 2.882				0.9481 0.9486 1.3223	0.9487 0.9492 1.3231	0.9493 0.9498 1.3240	0.9499 0.9504 1.3248	0.9513 0.9518 1.3268	0.9527 0.9532 1.3287	0.9541 0.9546 1.3307	0.9555 0.9560 1.3326	0.9568 0.9574 1.3345	0.9582 0.9587 1.3364							
98.6 -174.55 2.905				0.9476 0.9481 1.3216	0.9482 0.9487 1.3225	0.9488 0.9493 1.3233	0.9494 0.9499 1.3241	0.9508 0.9513 1.3261	0.9522 0.9527 1.3281	0.9536 0.9542 1.3300	0.9550 0.9555 1.3319	0.9564 0.9569 1.3338	0.9577 0.9582 1.3357							
98.7 -174.45 2.929				0.9471 0.9477 1.3210	0.9477 0.9482 1.3218	0.9483 0.9488 1.3226	0.9489 0.9494 1.3234	0.9503 0.9508 1.3254	0.9518 0.9523 1.3274	0.9532 0.9537 1.3294	0.9546 0.9551 1.3313	0.9559 0.9564 1.3332	0.9573 0.9578 1.3351							
98.8 -174.35 2.953				0.9466 0.9472 1.3203	0.9472 0.9478 1.3211	0.9478 0.9483 1.3219	0.9484 0.9489 1.3227	0.9498 0.9504 1.3247	0.9513 0.9518 1.3267	0.9527 0.9532 1.3287	0.9541 0.9546 1.3306	0.9554 0.9559 1.3325	0.9568 0.9573 1.3344							
98.9 -174.25 2.977				0.9462 0.9467 1.3196	0.9467 0.9473 1.3204	0.9473 0.9478 1.3212	0.9479 0.9484 1.3220	0.9494 0.9499 1.3241	0.9508 0.9513 1.3261	0.9522 0.9527 1.3280	0.9536 0.9541 1.3300	0.9550 0.9555 1.3319	0.9564 0.9569 1.3338	0.9577 0.9582 1.3357						

TABLE 12 - CONTINUED

DENSITY OF COMPRESSED LIQUID ARGON - CONTINUED

				TABLE ENTRIES											
1. TEMPERATURE, K 2. TEMPERATURE, °C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/D ³											
BAR	0.000	1.000	2.000	4.000	6.000	8.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000		
KP/CM ²	0.016	1.020	2.039	4.079	6.119	8.159	10.197	15.296	20.394	25.493	30.591	35.690	40.789		
99.0				0.9457	0.9463	0.9460	0.9474	0.9488	0.9503	0.9517	0.9531	0.9545	0.9559		
-174.15				0.9462	0.9468	0.9474	0.9479	0.9490	0.9500	0.9522	0.9536	0.9550	0.9564		
3.001				1.3189	1.3197	1.3205	1.3214	1.3234	1.3254	1.3274	1.3293	1.3312	1.3331		
99.1				0.9452	0.9458	0.9464	0.9469	0.9484	0.9498	0.9513	0.9527	0.9540	0.9554		
-174.05				0.9457	0.9463	0.9469	0.9475	0.9485	0.9504	0.9518	0.9532	0.9546	0.9560		
3.026				1.3182	1.3190	1.3199	1.3207	1.3227	1.3247	1.3267	1.3286	1.3306	1.3325		
99.2				0.9447	0.9453	0.9459	0.9465	0.9475	0.9494	0.9508	0.9522	0.9536	0.9549		
-173.95				0.9452	0.9458	0.9464	0.9470	0.9484	0.9499	0.9513	0.9527	0.9541	0.9554		
3.050				1.3175	1.3184	1.3192	1.3200	1.3220	1.3240	1.3260	1.3280	1.3299	1.3318		
99.3				0.9442	0.9448	0.9454	0.9460	0.9474	0.9489	0.9503	0.9517	0.9531	0.9545		
-173.85				0.9447	0.9453	0.9459	0.9465	0.9475	0.9494	0.9508	0.9522	0.9536	0.9550		
3.075				1.3168	1.3177	1.3185	1.3193	1.3214	1.3234	1.3254	1.3273	1.3293	1.3312		
99.4				0.9437	0.9443	0.9449	0.9455	0.9469	0.9484	0.9498	0.9512	0.9526	0.9540		
-173.75				0.9442	0.9448	0.9454	0.9460	0.9475	0.9489	0.9503	0.9517	0.9531	0.9545		
3.100				1.3161	1.3170	1.3178	1.3186	1.3207	1.3227	1.3247	1.3267	1.3286	1.3305		
99.5				0.9432	0.9438	0.9444	0.9450	0.9465	0.9479	0.9493	0.9508	0.9522	0.9535		
-173.65				0.9437	0.9443	0.9449	0.9455	0.9470	0.9484	0.9499	0.9513	0.9527	0.9540		
3.125				1.3154	1.3163	1.3171	1.3180	1.3200	1.3220	1.3240	1.3260	1.3279	1.3299		
99.6				0.9427	0.9433	0.9439	0.9445	0.9460	0.9474	0.9489	0.9503	0.9517	0.9531		
-173.55				0.9432	0.9438	0.9444	0.9450	0.9465	0.9479	0.9494	0.9508	0.9522	0.9536		
3.150				1.3148	1.3156	1.3164	1.3173	1.3193	1.3214	1.3234	1.3253	1.3273	1.3292		
99.7				0.9422	0.9428	0.9434	0.9440	0.9455	0.9469	0.9484	0.9498	0.9512	0.9526		
-173.45				0.9427	0.9433	0.9439	0.9445	0.9460	0.9475	0.9489	0.9503	0.9517	0.9531		
3.175				1.3141	1.3149	1.3157	1.3166	1.3186	1.3207	1.3227	1.3247	1.3267	1.3286		
99.8				0.9417	0.9423	0.9429	0.9435	0.9450	0.9465	0.9479	0.9493	0.9507	0.9521		
-173.35				0.9422	0.9428	0.9434	0.9440	0.9455	0.9470	0.9484	0.9498	0.9513	0.9526		
3.201				1.3134	1.3142	1.3151	1.3159	1.3180	1.3200	1.3220	1.3240	1.3260	1.3279		
99.9				0.9412	0.9418	0.9424	0.9430	0.9445	0.9460	0.9474	0.9489	0.9503	0.9517		
-173.25				0.9417	0.9423	0.9429	0.9435	0.9450	0.9465	0.9479	0.9494	0.9508	0.9522		
3.227				1.3127	1.3135	1.3144	1.3152	1.3173	1.3193	1.3214	1.3233	1.3253	1.3273		
100.0				0.9407	0.9413	0.9419	0.9425	0.9440	0.9455	0.9469	0.9484	0.9498	0.9512		
-173.15				0.9412	0.9418	0.9424	0.9430	0.9445	0.9460	0.9475	0.9489	0.9503	0.9517		
3.252				1.3120	1.3128	1.3137	1.3145	1.3166	1.3187	1.3207	1.3227	1.3247	1.3266		
100.1				0.9402	0.9408	0.9414	0.9420	0.9435	0.9450	0.9465	0.9479	0.9493	0.9507		
-173.05				0.9407	0.9413	0.9419	0.9425	0.9440	0.9455	0.9470	0.9484	0.9498	0.9512		
3.278				1.3113	1.3121	1.3130	1.3138	1.3159	1.3180	1.3200	1.3220	1.3240	1.3259		
100.2				0.9397	0.9403	0.9409	0.9415	0.9430	0.9445	0.9460	0.9474	0.9489	0.9502		
-172.95				0.9402	0.9408	0.9414	0.9420	0.9435	0.9450	0.9465	0.9479	0.9494	0.9508		
3.304				1.3106	1.3114	1.3123	1.3131	1.3152	1.3173	1.3193	1.3214	1.3233	1.3253		
100.3				0.9392	0.9398	0.9404	0.9410	0.9425	0.9440	0.9455	0.9469	0.9484	0.9499		
-172.85				0.9397	0.9403	0.9409	0.9416	0.9431	0.9445	0.9460	0.9475	0.9489	0.9503		
3.330				1.3099	1.3108	1.3116	1.3125	1.3146	1.3166	1.3187	1.3207	1.3227	1.3246		
100.4				0.9387	0.9393	0.9399	0.9406	0.9421	0.9436	0.9450	0.9465	0.9479	0.9493		
-172.75				0.9392	0.9398	0.9404	0.9411	0.9426	0.9441	0.9455	0.9470	0.9484	0.9498		
3.357				1.3092	1.3101	1.3109	1.3118	1.3139	1.3159	1.3180	1.3200	1.3220	1.3240		
100.5				0.9382	0.9388	0.9394	0.9401	0.9416	0.9431	0.9445	0.9460	0.9474	0.9488		
-172.65				0.9387	0.9393	0.9400	0.9408	0.9423	0.9438	0.9453	0.9468	0.9483	0.9497		
3.383				1.3085	1.3094	1.3102	1.3111	1.3132	1.3153	1.3173	1.3193	1.3213	1.3233		
100.6				0.9377	0.9383	0.9389	0.9396	0.9411	0.9426	0.9441	0.9455	0.9469	0.9484		
-172.55				0.9382	0.9388	0.9395	0.9401	0.9416	0.9431	0.9446	0.9460	0.9475	0.9489		
3.410				1.3078	1.3087	1.3095	1.3104	1.3125	1.3146	1.3166	1.3187	1.3207	1.3227		
100.7				0.9372	0.9378	0.9384	0.9391	0.9406	0.9421	0.9436	0.9450	0.9465	0.9479		
-172.45				0.9377	0.9383	0.9390	0.9398	0.9413	0.9428	0.9443	0.9458	0.9473	0.9488		
3.437				1.3071	1.3080	1.3088	1.3097	1.3117	1.3137	1.3157	1.3178	1.3198	1.3218		
100.8				0.9367	0.9373	0.9379	0.9386	0.9401	0.9416	0.9431	0.9445	0.9460	0.9474		
-172.35				0.9372	0.9378	0.9385	0.9391	0.9406	0.9421	0.9436	0.9451	0.9465	0.9479		
3.464				1.3064	1.3073	1.3081	1.3090	1.3111	1.3132	1.3153	1.3173	1.3194	1.3213		
100.9				0.9362	0.9368	0.9375	0.9381	0.9396	0.9411	0.9426	0.9441	0.9455	0.9469		
-172.25				0.9367	0.9373	0.9380	0.9386	0.9401	0.9416	0.9431	0.9446	0.9460	0.9475		
3.491				1.3057	1.3066	1.3074	1.3083	1.3104	1.3125	1.3146	1.3167	1.3187	1.3207		

TABLE 12 - CONTINUED

DENSITY OF COMPRESSED LIQUID APOGN - CONTINUED

				TABLE ENTRIES															
1. TEMPERATURE, K				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS															
2. TEMPERATURE, °C				2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS															
3. VAPOR PRESSURE, BAR				3. DENSITY, KG/CM ³															
BAR	0.800	1.000	2.000	4.000	6.000	8.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000						
KP/CM ²	0.816	1.020	2.039	4.079	6.118	8.158	10.197	15.296	20.394	25.493	30.591	35.690	40.789						
101.0				0.9357	0.9363	0.9370	0.9376	0.9391	0.9406	0.9421	0.9436	0.9450	0.9465						
-172.15				0.9362	0.9368	0.9375	0.9381	0.9396	0.9411	0.9426	0.9441	0.9455	0.9470						
3.518				1.3050	1.3059	1.3067	1.3076	1.3098	1.3119	1.3139	1.3160	1.3180	1.3200						
101.1				0.9352	0.9358	0.9365	0.9371	0.9386	0.9401	0.9416	0.9431	0.9446	0.9460						
-172.05				0.9357	0.9363	0.9370	0.9376	0.9391	0.9406	0.9421	0.9436	0.9451	0.9465						
3.546				1.3043	1.3052	1.3060	1.3069	1.3091	1.3112	1.3133	1.3153	1.3174	1.3194						
101.2				0.9347	0.9353	0.9359	0.9366	0.9381	0.9396	0.9411	0.9426	0.9441	0.9455						
-171.95				0.9352	0.9358	0.9365	0.9371	0.9386	0.9402	0.9417	0.9431	0.9446	0.9460						
3.573				1.3036	1.3045	1.3053	1.3062	1.3084	1.3105	1.3126	1.3147	1.3167	1.3187						
101.3				0.9342	0.9348	0.9354	0.9361	0.9376	0.9392	0.9407	0.9421	0.9436	0.9450						
-171.85				0.9347	0.9353	0.9360	0.9366	0.9381	0.9397	0.9412	0.9426	0.9441	0.9456						
3.601				1.3029	1.3038	1.3046	1.3055	1.3077	1.3098	1.3119	1.3140	1.3160	1.3180						
101.4				0.9337	0.9343	0.9349	0.9356	0.9371	0.9387	0.9402	0.9417	0.9431	0.9446						
-171.75				0.9342	0.9348	0.9355	0.9361	0.9376	0.9392	0.9407	0.9422	0.9436	0.9451						
3.629				1.3022	1.3031	1.3039	1.3048	1.3070	1.3091	1.3112	1.3133	1.3154	1.3174						
101.5				0.9332	0.9338	0.9344	0.9351	0.9366	0.9382	0.9397	0.9412	0.9426	0.9441						
-171.65				0.9337	0.9343	0.9349	0.9356	0.9371	0.9387	0.9402	0.9417	0.9432	0.9446						
3.657				1.3015	1.3024	1.3032	1.3041	1.3063	1.3084	1.3106	1.3126	1.3147	1.3167						
101.6				0.9327	0.9333	0.9339	0.9346	0.9361	0.9377	0.9392	0.9407	0.9422	0.9436						
-171.55				0.9332	0.9338	0.9344	0.9351	0.9366	0.9382	0.9397	0.9412	0.9427	0.9441						
3.685				1.3008	1.3017	1.3025	1.3034	1.3056	1.3078	1.3099	1.3120	1.3140	1.3160						
101.7				0.9322	0.9328	0.9334	0.9341	0.9356	0.9372	0.9387	0.9402	0.9417	0.9431						
-171.45				0.9327	0.9333	0.9339	0.9346	0.9361	0.9377	0.9392	0.9407	0.9422	0.9437						
3.714				1.3001	1.3010	1.3018	1.3027	1.3049	1.3071	1.3092	1.3113	1.3133	1.3154						
101.8				0.9316	0.9323	0.9329	0.9336	0.9351	0.9367	0.9382	0.9397	0.9412	0.9427						
-171.35				0.9322	0.9328	0.9334	0.9341	0.9356	0.9372	0.9387	0.9402	0.9417	0.9432						
3.742				1.2994	1.3002	1.3011	1.3020	1.3042	1.3064	1.3085	1.3106	1.3127	1.3147						
101.9				0.9311	0.9318	0.9324	0.9331	0.9346	0.9362	0.9377	0.9392	0.9407	0.9422						
-171.25				0.9316	0.9323	0.9329	0.9336	0.9351	0.9367	0.9382	0.9397	0.9412	0.9427						
3.771				1.2986	1.2995	1.3004	1.3013	1.3035	1.3057	1.3078	1.3099	1.3120	1.3140						
102.0				0.9306	0.9313	0.9319	0.9326	0.9341	0.9357	0.9372	0.9387	0.9402	0.9417						
-171.15				0.9311	0.9318	0.9324	0.9331	0.9347	0.9362	0.9377	0.9393	0.9407	0.9422						
3.800				1.2979	1.2988	1.2997	1.3006	1.3028	1.3050	1.3071	1.3093	1.3113	1.3134						
102.1				0.9301	0.9308	0.9314	0.9321	0.9336	0.9352	0.9367	0.9383	0.9398	0.9412						
-171.05				0.9306	0.9313	0.9319	0.9326	0.9342	0.9357	0.9373	0.9388	0.9403	0.9417						
3.829				1.2972	1.2981	1.2990	1.2999	1.3021	1.3043	1.3065	1.3086	1.3107	1.3127						
102.2				0.9296	0.9303	0.9309	0.9316	0.9331	0.9347	0.9363	0.9378	0.9393	0.9408						
-170.95				0.9301	0.9308	0.9314	0.9321	0.9337	0.9352	0.9368	0.9383	0.9398	0.9413						
3.858				1.2965	1.2974	1.2983	1.2992	1.3014	1.3036	1.3058	1.3079	1.3100	1.3120						
102.3				0.9291	0.9298	0.9304	0.9311	0.9326	0.9342	0.9358	0.9373	0.9388	0.9403						
-170.85				0.9296	0.9303	0.9309	0.9316	0.9332	0.9347	0.9363	0.9378	0.9393	0.9408						
3.887				1.2958	1.2967	1.2976	1.2985	1.3007	1.3029	1.3051	1.3072	1.3093	1.3114						
102.4				0.9286	0.9292	0.9299	0.9305	0.9321	0.9337	0.9353	0.9368	0.9383	0.9398						
-170.75				0.9291	0.9297	0.9304	0.9310	0.9326	0.9342	0.9358	0.9373	0.9388	0.9403						
3.917				1.2951	1.2960	1.2969	1.2978	1.3000	1.3022	1.3044	1.3065	1.3086	1.3107						
102.5				0.9281	0.9287	0.9294	0.9300	0.9316	0.9332	0.9348	0.9363	0.9378	0.9393						
-170.65				0.9286	0.9292	0.9299	0.9305	0.9321	0.9337	0.9353	0.9368	0.9383	0.9398						
3.946				1.2944	1.2953	1.2962	1.2971	1.2993	1.3015	1.3037	1.3059	1.3080	1.3100						
102.6				0.9276	0.9282	0.9288	0.9295	0.9311	0.9327	0.9343	0.9358	0.9373	0.9388						
-170.55				0.9281	0.9287	0.9294	0.9300	0.9316	0.9332	0.9348	0.9363	0.9378	0.9393						
3.976				1.2937	1.2946	1.2955	1.2964	1.2986	1.3008	1.3030	1.3052	1.3073	1.3094						
102.7				0.9277	0.9284	0.9290	0.9298	0.9314	0.9329	0.9345	0.9360	0.9375	0.9390						
-170.45				0.9282	0.9289	0.9296	0.9303	0.9319	0.9334	0.9349	0.9364	0.9379	0.9394						
4.006				1.2939	1.2948	1.2957	1.2975	1.2997	1.3020	1.3042	1.3064	1.3086	1.3108						
102.8				0.9272	0.9279	0.9285	0.9293	0.9309	0.9324	0.9339	0.9354	0.9369	0.9384						
-170.35				0.9277	0.9284	0.9290	0.9298	0.9314	0.9329	0.9344	0.9359	0.9374	0.9389						
4.036				1.2932	1.2941	1.2950	1.2972	1.2995	1.3017	1.3039	1.3061	1.3083	1.3105						
102.9				0.9267	0.9274	0.9280	0.9288	0.9304	0.9319	0.9334	0.9349	0.9364	0.9379						
-170.25				0.9272	0.9279	0.9285	0.9293	0.9309	0.9324	0.9339	0.9354	0.9369	0.9384						
4.067				1.2924	1.2934	1.2943	1.2965	1.2988	1.3010	1.3031	1.3053	1.3075	1.3097						

TABLE 12 - CONTINUED

DENSITY OF COMPRESSED LIQUID ARGON - CONTINUED

				TABLE ENTRIES											
1. TEMPERATURE, K 2. TEMPERATURE, °C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/DM ³											
BAR	0.008	1.000	2.000	4.000	6.000	8.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000		
KP/CM ²	0.016	1.020	2.039	4.079	6.110	8.158	10.197	15.296	20.394	25.493	30.591	35.690	40.709		
103.0				0.9262	0.9268	0.9275	0.9291	0.9307	0.9323	0.9339	0.9354	0.9369			
-170.15				0.9267	0.9273	0.9280	0.9296	0.9312	0.9328	0.9344	0.9359	0.9374			
4.097				1.2917	1.2926	1.2936	1.2958	1.2981	1.3003	1.3024	1.3046	1.3067			
103.1				0.9257	0.9263	0.9270	0.9286	0.9302	0.9318	0.9334	0.9349	0.9364			
-170.05				0.9262	0.9268	0.9275	0.9291	0.9307	0.9323	0.9339	0.9354	0.9369			
4.128				1.2910	1.2919	1.2929	1.2951	1.2974	1.2996	1.3018	1.3038	1.3060			
103.2				0.9252	0.9258	0.9265	0.9281	0.9297	0.9313	0.9329	0.9344	0.9359			
-169.95				0.9257	0.9263	0.9270	0.9286	0.9302	0.9318	0.9334	0.9349	0.9365			
4.159				1.2903	1.2912	1.2921	1.2944	1.2967	1.2989	1.3011	1.3032	1.3053			
103.3				0.9246	0.9253	0.9260	0.9276	0.9292	0.9308	0.9324	0.9339	0.9355			
-169.95				0.9251	0.9258	0.9265	0.9281	0.9297	0.9313	0.9329	0.9344	0.9360			
4.190				1.2096	1.2095	1.2914	1.2937	1.2960	1.2982	1.3004	1.3025	1.3047			
103.4				0.9241	0.9248	0.9255	0.9271	0.9287	0.9303	0.9319	0.9335	0.9350			
-169.75				0.9246	0.9253	0.9260	0.9276	0.9292	0.9308	0.9324	0.9340	0.9355			
4.221				1.2885	1.2890	1.2907	1.2930	1.2953	1.2975	1.2997	1.3019	1.3040			
103.5				0.9236	0.9243	0.9250	0.9266	0.9282	0.9298	0.9314	0.9330	0.9345			
-169.65				0.9241	0.9248	0.9255	0.9271	0.9287	0.9303	0.9319	0.9335	0.9350			
4.252				1.2081	1.2091	1.2900	1.2923	1.2946	1.2968	1.2990	1.3012	1.3033			
103.6				0.9231	0.9230	0.9244	0.9261	0.9277	0.9293	0.9309	0.9325	0.9340			
-169.55				0.9236	0.9243	0.9249	0.9266	0.9282	0.9298	0.9314	0.9330	0.9345			
4.284				1.2074	1.2084	1.2893	1.2916	1.2939	1.2961	1.2983	1.3005	1.3026			
103.7				0.9226	0.9233	0.9239	0.9256	0.9272	0.9288	0.9304	0.9320	0.9335			
-169.45				0.9231	0.9230	0.9244	0.9261	0.9277	0.9293	0.9309	0.9325	0.9340			
4.316				1.2867	1.2876	1.2886	1.2905	1.2932	1.2954	1.2976	1.2998	1.3020			
103.8				0.9221	0.9227	0.9234	0.9251	0.9267	0.9283	0.9299	0.9315	0.9330			
-169.35				0.9226	0.9232	0.9239	0.9256	0.9272	0.9288	0.9304	0.9320	0.9335			
4.347				1.2860	1.2869	1.2879	1.2902	1.2925	1.2947	1.2970	1.2991	1.3013			
103.9				0.9215	0.9222	0.9229	0.9246	0.9262	0.9278	0.9294	0.9310	0.9326			
-169.25				0.9220	0.9227	0.9234	0.9251	0.9267	0.9283	0.9299	0.9315	0.9331			
4.379				1.2853	1.2862	1.2871	1.2895	1.2918	1.2940	1.2963	1.2985	1.3006			
104.0				0.9210	0.9217	0.9224	0.9241	0.9257	0.9273	0.9289	0.9305	0.9321			
-169.15				0.9215	0.9222	0.9229	0.9246	0.9262	0.9278	0.9294	0.9310	0.9326			
4.412				1.2845	1.2855	1.2864	1.2888	1.2911	1.2933	1.2956	1.2978	1.2999			
104.1				0.9205	0.9212	0.9219	0.9236	0.9252	0.9268	0.9284	0.9300	0.9316			
-169.05				0.9210	0.9217	0.9224	0.9241	0.9257	0.9273	0.9289	0.9305	0.9321			
4.444				1.2838	1.2840	1.2857	1.2881	1.2904	1.2926	1.2949	1.2971	1.2993			
104.2				0.9200	0.9207	0.9214	0.9230	0.9247	0.9263	0.9280	0.9295	0.9311			
-168.95				0.9205	0.9212	0.9219	0.9236	0.9252	0.9268	0.9284	0.9300	0.9316			
4.477				1.2831	1.2840	1.2850	1.2874	1.2897	1.2919	1.2942	1.2964	1.2986			
104.3				0.9195	0.9202	0.9208	0.9225	0.9242	0.9258	0.9275	0.9290	0.9306			
-168.85				0.9200	0.9207	0.9213	0.9230	0.9247	0.9263	0.9280	0.9295	0.9311			
4.509				1.2824	1.2833	1.2843	1.2866	1.2889	1.2912	1.2935	1.2957	1.2979			
104.4				0.9189	0.9196	0.9203	0.9220	0.9237	0.9253	0.9270	0.9286	0.9301			
-168.75				0.9194	0.9201	0.9208	0.9225	0.9242	0.9258	0.9275	0.9291	0.9306			
4.542				1.2816	1.2826	1.2836	1.2859	1.2883	1.2905	1.2928	1.2950	1.2972			
104.5				0.9184	0.9191	0.9198	0.9215	0.9232	0.9248	0.9265	0.9281	0.9296			
-168.65				0.9189	0.9196	0.9203	0.9220	0.9237	0.9253	0.9270	0.9286	0.9301			
4.575				1.2809	1.2819	1.2828	1.2852	1.2875	1.2898	1.2921	1.2943	1.2965			
104.6				0.9179	0.9186	0.9193	0.9210	0.9227	0.9243	0.9260	0.9276	0.9291			
-168.55				0.9184	0.9191	0.9198	0.9215	0.9232	0.9248	0.9265	0.9281	0.9296			
4.609				1.2802	1.2811	1.2821	1.2845	1.2868	1.2891	1.2914	1.2937	1.2959			
104.7				0.9174	0.9181	0.9188	0.9205	0.9222	0.9238	0.9255	0.9271	0.9287			
-168.45				0.9179	0.9186	0.9193	0.9210	0.9227	0.9243	0.9260	0.9276	0.9292			
4.642				1.2794	1.2804	1.2814	1.2838	1.2861	1.2884	1.2907	1.2930	1.2952			
104.8				0.9169	0.9176	0.9183	0.9200	0.9217	0.9233	0.9250	0.9266	0.9282			
-168.35				0.9173	0.9180	0.9187	0.9205	0.9222	0.9238	0.9255	0.9271	0.9287			
4.676				1.2787	1.2797	1.2807	1.2831	1.2854	1.2877	1.2900	1.2923	1.2945			
104.9				0.9163	0.9170	0.9177	0.9195	0.9212	0.9228	0.9245	0.9261	0.9277			
-168.25				0.9168	0.9175	0.9182	0.9200	0.9217	0.9233	0.9250	0.9266	0.9282			
4.709				1.2780	1.2790	1.2799	1.2823	1.2847	1.2870	1.2893	1.2916	1.2938			

TABLE 12 - CONTINUED

DENSITY OF COMPRESSED LIQUID ARGON - CONTINUED

		TABLE ENTRIES											
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR		1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/DM ³											
BAR KPa/cm ²	0.000 0.016	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.197	15.000 15.296	20.000 20.394	25.000 25.493	30.000 30.591	35.000 35.690	40.000 40.789
105.0 -168.15 4.743					0.9158 0.9163 1.2773	0.9165 0.9170 1.2782	0.9172 0.9177 1.2792	0.9188 0.9194 1.2816	0.9206 0.9211 1.2840	0.9223 0.9228 1.2863	0.9240 0.9245 1.2886	0.9256 0.9261 1.2909	0.9272 0.9277 1.2931
105.1 -168.05 4.777					0.9153 0.9158 1.2765	0.9160 0.9165 1.2775	0.9167 0.9172 1.2785	0.9184 0.9189 1.2809	0.9201 0.9206 1.2833	0.9218 0.9223 1.2856	0.9235 0.9240 1.2879	0.9251 0.9256 1.2902	0.9267 0.9272 1.2924
105.2 -167.95 4.812					0.9148 0.9152 1.2758	0.9155 0.9160 1.2768	0.9162 0.9167 1.2778	0.9175 0.9184 1.2802	0.9196 0.9201 1.2826	0.9213 0.9218 1.2849	0.9230 0.9235 1.2872	0.9246 0.9251 1.2895	0.9262 0.9267 1.2918
105.3 -167.85 4.846					0.9142 0.9147 1.2751	0.9149 0.9154 1.2760	0.9156 0.9161 1.2770	0.9174 0.9179 1.2795	0.9191 0.9196 1.2819	0.9208 0.9213 1.2842	0.9225 0.9230 1.2865	0.9241 0.9246 1.2888	0.9257 0.9262 1.2911
105.4 -167.75 4.881					0.9137 0.9142 1.2743	0.9144 0.9149 1.2753	0.9151 0.9156 1.2763	0.9166 0.9174 1.2788	0.9186 0.9191 1.2812	0.9203 0.9208 1.2835	0.9220 0.9225 1.2858	0.9236 0.9241 1.2881	0.9252 0.9257 1.2904
105.5 -167.65 4.916					0.9132 0.9137 1.2736	0.9139 0.9144 1.2746	0.9146 0.9151 1.2756	0.9164 0.9169 1.2780	0.9181 0.9186 1.2804	0.9198 0.9203 1.2828	0.9215 0.9220 1.2851	0.9231 0.9236 1.2874	0.9247 0.9252 1.2897
105.6 -167.55 4.951					0.9126 0.9131 1.2728	0.9134 0.9139 1.2738	0.9141 0.9146 1.2748	0.9158 0.9163 1.2773	0.9176 0.9181 1.2797	0.9193 0.9198 1.2821	0.9210 0.9215 1.2844	0.9226 0.9231 1.2867	0.9242 0.9247 1.2890
105.7 -167.45 4.986					0.9121 0.9126 1.2721	0.9128 0.9133 1.2731	0.9136 0.9141 1.2741	0.9153 0.9158 1.2766	0.9171 0.9176 1.2790	0.9188 0.9193 1.2814	0.9205 0.9210 1.2837	0.9221 0.9226 1.2860	0.9237 0.9242 1.2883
105.8 -167.35 5.021					0.9116 0.9121 1.2714	0.9123 0.9128 1.2724	0.9130 0.9135 1.2734	0.9148 0.9153 1.2759	0.9165 0.9170 1.2783	0.9183 0.9188 1.2807	0.9200 0.9204 1.2830	0.9216 0.9221 1.2853	0.9232 0.9237 1.2876
105.9 -167.25 5.057					0.9111 0.9116 1.2706	0.9118 0.9123 1.2716	0.9125 0.9130 1.2726	0.9143 0.9148 1.2751	0.9160 0.9165 1.2776	0.9178 0.9183 1.2800	0.9194 0.9199 1.2823	0.9211 0.9216 1.2847	0.9227 0.9232 1.2869
106.0 -167.15 5.093					0.9105 0.9110 1.2699	0.9112 0.9117 1.2709	0.9119 0.9125 1.2719	0.9137 0.9143 1.2744	0.9155 0.9160 1.2769	0.9172 0.9177 1.2793	0.9189 0.9194 1.2816	0.9206 0.9211 1.2840	0.9223 0.9228 1.2862
106.1 -167.05 5.129					0.9100 1.2691	0.9107 1.2702	0.9115 1.2712	0.9132 1.2737	0.9150 1.2761	0.9167 1.2786	0.9184 1.2809	0.9201 1.2833	0.9218 1.2856
106.2 -166.95 5.165					0.9095 0.9100 1.2684	0.9102 0.9107 1.2694	0.9109 0.9114 1.2704	0.9127 0.9132 1.2730	0.9145 0.9150 1.2754	0.9162 0.9167 1.2778	0.9179 0.9184 1.2802	0.9196 0.9201 1.2826	0.9213 0.9218 1.2849
106.3 -166.85 5.201					0.9089 1.2677	0.9097 1.2687	0.9104 1.2697	0.9122 1.2722	0.9140 1.2747	0.9157 1.2771	0.9174 1.2795	0.9191 1.2815	0.9208 1.2842
106.4 -166.75 5.237					0.9084 0.9089 1.2669	0.9091 0.9096 1.2679	0.9099 0.9104 1.2690	0.9117 0.9122 1.2715	0.9135 0.9139 1.2740	0.9152 0.9157 1.2764	0.9169 0.9174 1.2788	0.9186 0.9191 1.2812	0.9203 0.9208 1.2835
106.5 -166.65 5.274					0.9079 1.2662	0.9086 1.2672	0.9093 1.2682	0.9112 1.2708	0.9129 1.2733	0.9147 1.2757	0.9164 1.2781	0.9181 1.2805	0.9198 1.2828
106.6 -166.55 5.311					0.9073 0.9078 1.2654	0.9081 0.9086 1.2665	0.9088 0.9093 1.2675	0.9106 0.9111 1.2700	0.9124 0.9129 1.2725	0.9142 0.9147 1.2750	0.9159 0.9164 1.2774	0.9176 0.9181 1.2798	0.9193 0.9198 1.2821
106.7 -166.45 5.348					0.9068 1.2647	0.9075 1.2657	0.9083 1.2668	0.9101 1.2693	0.9118 1.2719	0.9137 1.2743	0.9154 1.2767	0.9171 1.2791	0.9188 1.2814
106.8 -166.35 5.385					0.9063 0.9067 1.2635	0.9070 0.9075 1.2650	0.9077 0.9082 1.2660	0.9096 0.9101 1.2686	0.9114 0.9119 1.2711	0.9131 0.9136 1.2735	0.9149 0.9154 1.2760	0.9166 0.9171 1.2784	0.9183 0.9188 1.2807
106.9 -166.25 5.423					0.9057 0.9062 1.2623	0.9065 0.9070 1.2642	0.9072 0.9077 1.2653	0.9091 0.9095 1.2676	0.9109 0.9114 1.2704	0.9126 0.9131 1.2728	0.9144 0.9149 1.2753	0.9161 0.9166 1.2777	0.9178 0.9183 1.2800

TABLE 12 - CONTINUED

DENSITY OF COMPRESSED LIQUID ARGON - CONTINUED

				TABLE ENTRIES									
1. TEMPERATURE, K 2. TEMPERATURE, °C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/CM ³									
BAR	0.800	1.000	2.000	4.000	6.000	8.000	10.000	15.000	20.000	25.000	30.000	35.000	40.000
KP/CM ²	0.816	1.020	2.039	4.079	6.118	8.158	10.197	15.296	20.394	25.493	30.591	35.690	40.789
107.0 -166.15 5.460						0.9052 0.9057 1.2624	0.9054 0.9064 1.2635	0.9067 0.9072 1.2645	0.9085 0.9090 1.2671	0.9103 0.9108 1.2666	0.9121 0.9126 1.2721	0.9139 0.9144 1.2745	0.9156 0.9161 1.2769
107.1 -166.05 5.498						0.9046 0.9051 1.2617	0.9054 0.9059 1.2638	0.9061 0.9066 1.2638	0.9080 0.9085 1.2664	0.9098 0.9103 1.2669	0.9116 0.9121 1.2714	0.9134 0.9138 1.2738	0.9151 0.9156 1.2762
107.2 -165.95 5.536						0.9041 0.9046 1.2609	0.9049 0.9053 1.2630	0.9056 0.9061 1.2630	0.9075 0.9080 1.2656	0.9093 0.9098 1.2662	0.9111 0.9116 1.2707	0.9128 0.9133 1.2731	0.9146 0.9151 1.2755
107.3 -165.85 5.574						0.9036 0.9040 1.2602	0.9043 0.9048 1.2612	0.9051 0.9056 1.2623	0.9069 0.9074 1.2645	0.9088 0.9093 1.2669	0.9106 0.9111 1.2699	0.9123 0.9128 1.2724	0.9141 0.9146 1.2748
107.4 -165.75 5.613						0.9030 0.9035 1.2594	0.9038 0.9043 1.2605	0.9045 0.9050 1.2615	0.9064 0.9069 1.2642	0.9082 0.9087 1.2667	0.9101 0.9106 1.2692	0.9118 0.9123 1.2717	0.9136 0.9141 1.2741
107.5 -165.65 5.651						0.9025 0.9030 1.2587	0.9032 0.9037 1.2597	0.9040 0.9045 1.2608	0.9059 0.9064 1.2634	0.9077 0.9082 1.2660	0.9095 0.9100 1.2685	0.9113 0.9118 1.2710	0.9131 0.9136 1.2734
107.6 -165.55 5.690						0.9019 0.9024 1.2579	0.9027 0.9032 1.2590	0.9035 0.9040 1.2600	0.9054 0.9059 1.2627	0.9072 0.9077 1.2653	0.9090 0.9095 1.2678	0.9108 0.9113 1.2703	0.9125 0.9130 1.2727
107.7 -165.45 5.729						0.9014 0.9019 1.2572	0.9022 0.9027 1.2582	0.9029 0.9034 1.2593	0.9048 0.9053 1.2619	0.9067 0.9072 1.2645	0.9085 0.9090 1.2671	0.9103 0.9108 1.2695	0.9120 0.9125 1.2720
107.8 -165.35 5.768						0.9009 0.9013 1.2564	0.9016 0.9021 1.2575	0.9024 0.9029 1.2585	0.9043 0.9048 1.2612	0.9061 0.9066 1.2638	0.9080 0.9085 1.2663	0.9098 0.9103 1.2688	0.9115 0.9120 1.2713
107.9 -165.25 5.807						0.9003 0.9008 1.2556	0.9011 0.9016 1.2567	0.9019 0.9023 1.2578	0.9038 0.9043 1.2605	0.9056 0.9061 1.2631	0.9074 0.9079 1.2656	0.9093 0.9097 1.2681	0.9110 0.9115 1.2706
108.0 -165.15 5.847						0.8998 0.9002 1.2549	0.9005 0.9010 1.2560	0.9013 0.9018 1.2570	0.9032 0.9037 1.2597	0.9051 0.9056 1.2623	0.9069 0.9074 1.2649	0.9087 0.9092 1.2674	0.9105 0.9110 1.2699
108.1 -165.05 5.886						0.8992 0.8997 1.2541	0.9000 0.9005 1.2552	0.9008 0.9013 1.2563	0.9027 0.9032 1.2590	0.9046 0.9051 1.2616	0.9064 0.9069 1.2642	0.9082 0.9087 1.2667	0.9100 0.9105 1.2692
108.2 -164.95 5.926						0.8987 0.8992 1.2534	0.8995 0.8999 1.2545	0.9002 0.9007 1.2555	0.9022 0.9026 1.2582	0.9040 0.9045 1.2609	0.9059 0.9064 1.2634	0.9077 0.9082 1.2660	0.9095 0.9100 1.2684
108.3 -164.85 5.966						0.8981 0.8986 1.2526	0.8989 0.8994 1.2537	0.8997 0.9002 1.2548	0.9016 0.9021 1.2575	0.9035 0.9040 1.2601	0.9054 0.9059 1.2627	0.9072 0.9077 1.2652	0.9090 0.9095 1.2677
108.4 -164.75 6.007						0.8984 0.8989 1.2529	0.8992 0.8996 1.2540	0.9001 0.8996 1.2557	0.9020 0.9025 1.2584	0.9038 0.9043 1.2610	0.9056 0.9061 1.2636	0.9075 0.9080 1.2661	0.9093 0.9098 1.2686
108.5 -164.65 6.047						0.8978 0.8983 1.2522	0.8986 0.8991 1.2533	0.8995 0.9000 1.2550	0.9015 0.9020 1.2576	0.9033 0.9038 1.2602	0.9051 0.9056 1.2628	0.9069 0.9074 1.2653	0.9087 0.9092 1.2678
108.6 -164.55 6.088						0.8973 0.8978 1.2514	0.8981 0.8985 1.2525	0.8990 0.8995 1.2552	0.9010 0.9015 1.2579	0.9028 0.9033 1.2605	0.9046 0.9051 1.2631	0.9064 0.9069 1.2656	0.9082 0.9087 1.2681
108.7 -164.45 6.129						0.8967 0.8972 1.2506	0.8975 0.8980 1.2516	0.8985 0.8990 1.2545	0.9014 0.9019 1.2571	0.9033 0.9038 1.2598	0.9051 0.9056 1.2623	0.9069 0.9074 1.2648	0.9087 0.9092 1.2673
108.8 -164.35 6.170						0.8962 0.8967 1.2499	0.8970 0.8975 1.2510	0.8980 0.8985 1.2537	0.9009 0.9013 1.2564	0.9027 0.9032 1.2590	0.9046 0.9051 1.2616	0.9064 0.9069 1.2641	0.9082 0.9087 1.2666
108.9 -164.25 6.211						0.8956 0.8961 1.2491	0.8964 0.8969 1.2502	0.8984 0.8989 1.2530	0.9003 0.9008 1.2557	0.9022 0.9027 1.2583	0.9041 0.9046 1.2609	0.9059 0.9064 1.2634	0.9077 0.9082 1.2659

TABLE 12 - CONTINUED

DENSITY OF COMPRESSED LIQUID ARGON - CONTINUED

				TABLE ENTRIES									
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/DH ³									
BAR K/PCN2	0.800 0.816	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.116	8.000 8.158	10.000 10.197	15.000 15.296	20.000 20.354	25.000 25.493	30.000 30.591	35.000 35.690	40.000 40.789
109.0 -164.15 6.253						0.8951 0.8956 1.2484	0.8959 0.8964 1.2495	0.8974 0.8979 1.2522	0.8998 0.9003 1.2549	0.9017 0.9022 1.2576	0.9036 0.9040 1.2602	0.9054 0.9059 1.2627	0.9072 0.9077 1.2652
109.1 -164.05 6.294						0.8945 0.8950 1.2476	0.8953 0.8958 1.2487	0.8973 0.8978 1.2515	0.8993 0.8997 1.2542	0.9012 0.9016 1.2568	0.9030 0.9035 1.2594	0.9049 0.9054 1.2620	0.9067 0.9072 1.2645
109.2 -163.95 6.336						0.8940 0.8945 1.2468	0.8948 0.8953 1.2479	0.8968 0.8973 1.2507	0.8987 0.8992 1.2534	0.9006 0.9011 1.2561	0.9025 0.9030 1.2587	0.9043 0.9048 1.2613	0.9062 0.9066 1.2638
109.3 -163.85 6.378						0.8934 0.8939 1.2460	0.8942 0.8947 1.2472	0.8962 0.8967 1.2500	0.8982 0.8987 1.2527	0.9001 0.9006 1.2554	0.9020 0.9025 1.2580	0.9038 0.9043 1.2606	0.9056 0.9061 1.2631
109.4 -163.75 6.420						0.8929 0.8934 1.2453	0.8937 0.8942 1.2464	0.8957 0.8962 1.2492	0.8977 0.8981 1.2519	0.8996 0.9001 1.2546	0.9015 0.9019 1.2572	0.9033 0.9038 1.2598	0.9051 0.9056 1.2624
109.5 -163.65 6.463						0.8923 0.8928 1.2445	0.8931 0.8936 1.2456	0.8951 0.8956 1.2484	0.8971 0.8976 1.2512	0.8990 0.8995 1.2539	0.9009 0.9014 1.2565	0.9028 0.9033 1.2591	0.9046 0.9051 1.2617
109.6 -163.55 6.506						0.8918 0.8923 1.2437	0.8926 0.8931 1.2449	0.8946 0.8951 1.2477	0.8966 0.8971 1.2504	0.8985 0.8990 1.2531	0.9004 0.9009 1.2558	0.9023 0.9028 1.2584	0.9041 0.9046 1.2609
109.7 -163.45 6.548						0.8912 0.8917 1.2430	0.8920 0.8925 1.2441	0.8941 0.8946 1.2469	0.8960 0.8965 1.2497	0.8980 0.8985 1.2524	0.8999 0.9004 1.2551	0.9018 0.9022 1.2577	0.9036 0.9041 1.2602
109.8 -163.35 6.592						0.8907 0.8911 1.2422	0.8915 0.8920 1.2433	0.8935 0.8940 1.2462	0.8955 0.8960 1.2489	0.8975 0.8980 1.2517	0.8994 0.8999 1.2543	0.9012 0.9017 1.2569	0.9031 0.9036 1.2595
109.9 -163.25 6.635						0.8901 0.8906 1.2414	0.8909 0.8914 1.2426	0.8930 0.8935 1.2454	0.8950 0.8954 1.2482	0.8969 0.8974 1.2509	0.8988 0.8993 1.2536	0.9007 0.9012 1.2562	0.9026 0.9030 1.2588
110.0 -163.15 6.678						0.8895 0.8900 1.2406	0.8904 0.8909 1.2418	0.8924 0.8929 1.2446	0.8944 0.8949 1.2474	0.8964 0.8969 1.2502	0.8983 0.8988 1.2528	0.9002 0.9007 1.2555	0.9020 0.9025 1.2581
110.1 -163.05 6.722						0.8890 0.8895 1.2399	0.8900 0.8903 1.2410	0.8919 0.8924 1.2438	0.8939 0.8944 1.2467	0.8959 0.8963 1.2494	0.8978 0.8983 1.2521	0.8997 0.9002 1.2548	0.9015 0.9020 1.2573
110.2 -162.95 6.766						0.8884 0.8889 1.2391	0.8893 0.8897 1.2402	0.8913 0.8918 1.2431	0.8933 0.8938 1.2459	0.8953 0.8958 1.2487	0.8973 0.8977 1.2514	0.8992 0.8996 1.2540	0.9010 0.9015 1.2566
110.3 -162.85 6.810						0.8879 0.8884 1.2383	0.8887 0.8892 1.2395	0.8908 0.8913 1.2427	0.8928 0.8933 1.2452	0.8948 0.8953 1.2479	0.8967 0.8972 1.2506	0.8986 0.8991 1.2533	0.9005 0.9010 1.2559
110.4 -162.75 6.854						0.8873 0.8878 1.2375	0.8882 0.8886 1.2387	0.8902 0.8907 1.2416	0.8923 0.8927 1.2444	0.8942 0.8947 1.2472	0.8962 0.8967 1.2500	0.8981 0.8986 1.2526	0.9000 0.9005 1.2552
110.5 -162.65 6.899						0.8867 0.8872 1.2367	0.8876 0.8881 1.2379	0.8897 0.8902 1.2408	0.8917 0.8922 1.2437	0.8937 0.8942 1.2464	0.8957 0.8962 1.2492	0.8976 0.8981 1.2518	0.8995 0.9000 1.2545
110.6 -162.55 6.944						0.8862 0.8867 1.2359	0.8870 0.8875 1.2371	0.8891 0.8896 1.2400	0.8912 0.8917 1.2429	0.8932 0.8937 1.2457	0.8951 0.8956 1.2484	0.8971 0.8976 1.2511	0.8989 0.8994 1.2537
110.7 -162.45 6.989						0.8856 0.8861 1.2352	0.8865 0.8870 1.2363	0.8886 0.8891 1.2393	0.8906 0.8911 1.2421	0.8926 0.8931 1.2449	0.8946 0.8951 1.2477	0.8965 0.8970 1.2504	0.8984 0.8989 1.2533
110.8 -162.35 7.034						0.8851 0.8855 1.2344	0.8859 0.8864 1.2356	0.8880 0.8885 1.2385	0.8901 0.8906 1.2412	0.8921 0.8926 1.2442	0.8941 0.8946 1.2469	0.8960 0.8965 1.2496	0.8979 0.8984 1.2523
110.9 -162.25 7.079						0.8845 0.8850 1.2336	0.8854 0.8859 1.2348	0.8875 0.8880 1.2377	0.8895 0.8900 1.2406	0.8916 0.8920 1.2434	0.8935 0.8940 1.2462	0.8955 0.8960 1.2489	0.8974 0.8979 1.2516

TABLE 12 - CONTINUED

DENSITY OF COMPRESSED LIQUID ARGON - CONTINUED

			TABLE ENTRIES										
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR			1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TCRR, DIMENSIONLESS 3. DENSITY, KG/DM ³										
BAR K/°C	0.000 0.016	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.197	15.000 15.296	20.000 20.394	25.000 25.493	30.000 30.591	35.000 35.690	40.000 40.799
111.0 -142.15 7.125						0.8839 0.8844 1.2328	0.8848 0.8853 1.2340	0.8869 0.8874 1.2370	0.8890 0.8895 1.2398	0.8910 0.8915 1.2427	0.8930 0.8935 1.2455	0.8950 0.8954 1.2482	0.8969 0.8973 1.2508
112.0 -161.15 7.592						0.8788 0.8787 1.2249	0.8791 0.8796 1.2261	0.8813 0.8818 1.2292	0.8835 0.8840 1.2322	0.8856 0.8861 1.2351	0.8876 0.8881 1.2380	0.8896 0.8901 1.2408	0.8916 0.8921 1.2435
113.0 -160.15 8.081						0.8734 0.8738 1.2181	0.8757 0.8761 1.2213	0.8779 0.8784 1.2244	0.8801 0.8805 1.2274	0.8822 0.8827 1.2304	0.8843 0.8848 1.2333	0.8863 0.8868 1.2361	
114.0 -159.15 8.592						0.8675 0.8680 1.2099	0.8699 0.8704 1.2132	0.8722 0.8727 1.2165	0.8745 0.8750 1.2196	0.8767 0.8772 1.2227	0.8788 0.8793 1.2257	0.8810 0.8814 1.2286	
115.0 -158.15 9.126						0.8616 0.8620 1.2016	0.8641 0.8645 1.2051	0.8665 0.8669 1.2084	0.8688 0.8693 1.2117	0.8711 0.8716 1.2149	0.8733 0.8738 1.2180	0.8755 0.8760 1.2211	
116.0 -157.15 9.683						0.8555 0.8560 1.1932	0.8581 0.8586 1.1968	0.8606 0.8611 1.2003	0.8631 0.8635 1.2037	0.8654 0.8659 1.2070	0.8676 0.8681 1.2102	0.8698 0.8705 1.2134	
117.0 -156.15 10.264						0.8521 0.8525 1.1883	0.8547 0.8551 1.1920	0.8572 0.8577 1.1955	0.8597 0.8601 1.1990	0.8621 0.8626 1.2023	0.8644 0.8649 1.2056		
118.0 -155.15 10.870						0.8455 0.8463 1.1797	0.8486 0.8491 1.1836	0.8513 0.8517 1.1872	0.8538 0.8543 1.1908	0.8563 0.8568 1.1943	0.8588 0.8593 1.1977		
119.0 -154.15 11.500						0.8396 0.8401 1.1710	0.8425 0.8429 1.1750	0.8452 0.8457 1.1788	0.8479 0.8484 1.1825	0.8505 0.8510 1.1862	0.8530 0.8535 1.1897		
120.0 -153.15 12.156						0.8332 0.8336 1.1620	0.8362 0.8366 1.1662	0.8391 0.8395 1.1702	0.8419 0.8423 1.1741	0.8446 0.8450 1.1775	0.8472 0.8477 1.1816		
121.0 -152.15 12.839						0.8266 0.8271 1.1525	0.8298 0.8302 1.1572	0.8328 0.8332 1.1615	0.8357 0.8362 1.1655	0.8385 0.8390 1.1695	0.8413 0.8417 1.1733		
122.0 -151.15 13.548						0.8195 0.8203 1.1435	0.8232 0.8236 1.1481	0.8264 0.8268 1.1525	0.8294 0.8299 1.1568	0.8324 0.8328 1.1609	0.8353 0.8357 1.1649		
123.0 -150.15 14.285						0.8130 0.8134 1.1335	0.8165 0.8169 1.1387	0.8198 0.8203 1.1434	0.8230 0.8235 1.1479	0.8261 0.8266 1.1522	0.8291 0.8296 1.1564		
124.0 -149.15 15.051								0.8066 0.8100 1.1291	0.8131 0.8136 1.1340	0.8165 0.8169 1.1387	0.8197 0.8202 1.1433	0.8229 0.8233 1.1476	
125.0 -148.15 15.845								0.8025 0.8030 1.1193	0.8062 0.8067 1.1245	0.8098 0.8102 1.1294	0.8132 0.8136 1.1342	0.8165 0.8169 1.1387	
126.0 -147.15 16.666								0.7953 0.7957 1.1091	0.7992 0.7996 1.1146	0.8029 0.8034 1.1198	0.8065 0.8070 1.1249	0.8100 0.8104 1.1297	
127.0 -146.15 17.522								0.7878 0.7882 1.0987	0.7919 0.7924 1.1045	0.7959 0.7963 1.1100	0.7997 0.8001 1.1153	0.8031 0.8038 1.1204	
128.0 -145.15 18.406								0.7800 0.7804 1.0879	0.7845 0.7849 1.0941	0.7887 0.7891 1.0999	0.7927 0.7931 1.1055	0.7965 0.7969 1.1109	
129.0 -144.15 19.322								0.7720 0.7724 1.0766	0.7767 0.7771 1.0833	0.7812 0.7816 1.0895	0.7855 0.7859 1.0955	0.7895 0.7899 1.1011	
130.0 -143.15 20.271									0.7687 0.7691 1.0721	0.7735 0.7739 1.0788	0.7780 0.7785 1.0851	0.7823 0.7828 1.0911	

TABLE 12 - CONTINUED

DENSITY OF COMPRESSED LIQUID ARGON - CONTINUED

		TABLE ENTRIES											
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR		1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TCRR, DIMENSIONLESS 3. DENSITY, KG/D ³											
BAR KPa/CH ²	0.800 0.816	1.000 1.020	2.000 2.039	4.000 4.079	6.000 6.118	8.000 8.158	10.000 10.197	15.000 15.296	20.000 20.394	25.000 25.493	30.000 30.592	35.000 35.690	40.000 40.789
131.0 -142.15 21.253										0.7604 0.7608 1.0605	0.7656 0.7660 1.0677	0.7704 0.7708 1.0744	0.7749 0.7754 1.0808
132.0 -141.15 22.268										0.7517 0.7521 1.0484	0.7573 0.7577 1.0562	0.7625 0.7629 1.0634	0.7673 0.7677 1.0702
133.0 -140.15 23.318										0.7426 0.7430 1.0357	0.7486 0.7491 1.0442	0.7542 0.7546 1.0519	0.7594 0.7599 1.0592
134.0 -139.15 24.404										0.7338 0.7334 1.0223	0.7396 0.7400 1.0315	0.7457 0.7461 1.0400	0.7513 0.7517 1.0478
135.0 -138.15 25.525											0.7301 0.7305 1.0183	0.7367 0.7371 1.0275	0.7428 0.7432 1.0359
136.0 -137.15 26.685											0.7261 0.7264 1.0043	0.7273 0.7277 1.0144	0.7339 0.7343 1.0236
137.0 -136.15 27.882											0.7093 0.7097 0.9893	0.7174 0.7178 1.0055	0.7246 0.7250 1.0106
138.0 -135.15 29.118										0.6978 0.6981 0.9732	0.7069 0.7072 0.9858	0.7149 0.7152 0.9970	
139.0 -134.15 30.394												0.6955 0.6959 0.9708	0.7045 0.7049 0.9825
140.0 -133.15 31.711												0.6832 0.6836 0.9529	0.6934 0.6938 0.9671
141.0 -132.15 33.071												0.6697 0.6701 0.9340	0.6814 0.6818 0.9504
142.0 -131.15 34.473												0.6544 0.6548 0.9127	0.6664 0.6667 0.9322
143.0 -130.15 35.920													0.6538 0.6542 0.9115
144.0 -129.15 37.412													0.6372 0.6375 0.8897
145.0 -128.15 38.951													0.6173 0.6177 0.8610

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9. PARAHYDROGEN

The data for parahydrogen tabulated here are based on the monograph by Roder, et al. (1965). Additional, extensive tables of values based on this source were prepared by McCarty and Weber (1972) for NASA. The tables for the saturated liquid were calculated using the explicit equations for vapor pressure (Weber, et al., 1962) and saturated liquid density (Roder, et al., 1963) which were incorporated unchanged into the final compilation (Roder, et al., 1965). The values for temperatures near room temperature were taken from Hilsenrath, et al. (1955), using a high order interpolation. This is the source used by the experimenters in their determination of the liquid densities. The CGA pamphlet P-6 cites Dean (1961), who also presents a high order interpolation of Hilsenrath's values.

Values near room temperature are given in table 13, uncertainties for the data in table 14, values for the saturated liquid are given in table 15, and values for the compressed liquid are shown in table 16. As stated before, these values do not differ from those presented in

Table 13

Density of Parahydrogen Near Atmospheric Pressure and Room Temperature

Temperature	Pressure	Density		Volume	
		gram-mole/cm ³	kg/dm ³	cm ³ /gram-mole	dm ³ /kg
0° C	1 bar	4.4004x10 ⁻⁵	8.8709x10 ⁻⁵	22725.	11273.
	760 torr	4.4588x10 ⁻⁵	8.9885x10 ⁻⁵	22428.	11125.
15° C	1 bar	4.1716x10 ⁻⁵	8.4097x10 ⁻⁵	23972.	11891.
	760 torr	4.2268x10 ⁻⁵	8.5210x10 ⁻⁵	23658.	11735.
Density Ratios - Dimensionless					
Liquid Density at a boiling pressure of 1 bar [*] /density at 1 bar and 0° C					798.52
Liquid Density at a boiling pressure of 1 bar/density at 1 bar and 15° C					842.31
Liquid Density at a boiling pressure of 760 torr [†] /density at 760 torr and 0° C					787.50
Liquid Density at a boiling pressure of 760 torr/density at 760 torr and 15° C					830.73

* Liquid density at a boiling pressure of 1 bar 0.07084 kg/dm³

† Liquid density at a boiling pressure of 760 torr 0.07079 kg/dm³

the CGA pamphlet P-6. An astute observer may detect a difference of one part in 4000 in the density at the boiling point at 760 torr between this table and pamphlet P-6, but that difference is caused only by accumulative rounding errors.

The properties presented here pertain to parahydrogen. Specifications for delivery of parahydrogen are usually stated as 95% parahydrogen with the remainder being ortho-hydrogen. As a matter of fact, producers do not send less than 97% parahydrogen to storage tanks, and the liquid when shipped is, or is very close to being, equilibrium hydrogen. Equilibrium parahydrogen is 99.79% para at the boiling point at 760 torr, and the difference between it and 95% parahydrogen amounts to about 0.008 K or about 2 mm in pressure. It is easy to see that sophisticated equipment is required to detect ortho-para composition. The matter of composition is mentioned because the amount of orthohydrogen present has a very pronounced effect on the length of storage but only a very slight effect on the density.

Table 14
Uncertainties in the Data for Parahydrogen

variable	uncertainty	range of temperature
temperature	0.02 K 0.015 K	triple point to critical point room temperature
volume	0.1% increases to 0.3% 0.01%	triple point to 32 K near critical room temperature
pressure	0.05% 0.01%	triple point to critical point room temperature

TABLE 15

SATURATED LIQUID PARAHYDROGEN

PRESSURE		TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	VOLUME		DENSITY RATIOS -		DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 760 TORR
BAR	KP/CM ²	KELVIN	CELSIUS		GRAM-MOLE	CM ³ / KG	LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 1 BAR	LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 760 TORR	
0.0704	0.0718	13.803	-259.347	0.036206	0.07702	26.174	12.983	1.0881	1.0881
0.0788	0.0804	14.000	-259.150	0.038124	0.07686	26.230	13.011	1.0850	1.0857
0.0858	0.0875	14.150	-258.900	0.038061	0.07673	26.274	13.033	1.0832	1.0840
0.1000	0.1025	14.430	-258.720	0.037943	0.07649	26.356	13.074	1.0806	1.0806
0.134	0.137	15.000	-258.150	0.037698	0.07600	26.527	13.159	1.0728	1.0736
0.145	0.148	15.150	-258.000	0.037632	0.07586	26.573	13.181	1.0710	1.0717
0.200	0.204	15.832	-257.318	0.037330	0.07526	26.788	13.268	1.0624	1.0632
0.216	0.220	16.000	-257.150	0.037255	0.07510	26.842	13.315	1.0602	1.0610
0.231	0.235	16.150	-257.000	0.037187	0.07497	26.891	13.339	1.0583	1.0590
0.300	0.306	16.770	-256.380	0.036900	0.07439	27.100	13.443	1.0502	1.0509
0.329	0.336	17.000	-256.150	0.036792	0.07417	27.180	13.462	1.0471	1.0478
0.350	0.358	17.150	-256.000	0.036721	0.07403	27.232	13.508	1.0451	1.0458
0.400	0.408	17.497	-255.653	0.036554	0.07369	27.356	13.570	1.0403	1.0410
0.482	0.492	18.000	-255.150	0.036308	0.07320	27.542	13.662	1.0333	1.0340
0.500	0.510	18.101	-255.049	0.036258	0.07309	27.589	13.681	1.0319	1.0326
0.509	0.519	18.150	-255.000	0.036233	0.07304	27.600	13.690	1.0312	1.0319
0.600	0.612	18.621	-254.529	0.035995	0.07256	27.781	13.781	1.0242	1.0251
0.682	0.695	19.081	-254.069	0.035789	0.07217	27.933	13.856	1.0168	1.0173
0.706	0.713	19.150	-254.000	0.035757	0.07206	27.967	13.873	1.0166	1.0168
0.800	0.816	19.498	-253.554	0.035437	0.07164	28.140	13.959	1.0121	1.0121
0.800	0.816	19.498	-253.554	0.035437	0.07164	28.140	13.959	1.0121	1.0121
0.900	0.919	19.875	-253.275	0.035231	0.07123	28.253	14.043	1.0055	1.0062
0.975	0.995	20.000	-253.150	0.035262	0.07109	28.253	14.043	1.0035	1.0043
0.978	0.997	20.150	-253.000	0.035179	0.07092	28.266	14.101	1.0012	1.0019
0.981	1.000	20.158	-252.992	0.035175	0.07091	28.330	14.102	1.0010	1.0017
1.000	1.020	20.224	-252.926	0.035138	0.07084	28.459	14.117	1.0000	1.0007
1.013	1.033	20.268	-252.882	0.035113	0.07079	28.479	14.127	0.9993	1.0000
1.100	1.122	20.549	-252.601	0.034934	0.07047	28.589	14.191	0.9948	0.9955
1.200	1.224	20.854	-252.296	0.034779	0.07011	28.753	14.263	0.9894	0.9905
1.300	1.274	21.000	-252.150	0.034694	0.06994	28.824	14.298	0.9874	0.9881
1.303	1.326	21.142	-252.008	0.034610	0.06976	28.953	14.332	0.9857	0.9867
1.303	1.328	21.150	-252.000	0.034605	0.06976	28.997	14.334	0.9848	0.9855
1.400	1.428	21.414	-251.736	0.034448	0.06944	29.029	14.400	0.9811	0.9811
1.500	1.530	21.672	-251.478	0.034291	0.06913	29.162	14.466	0.9759	0.9766
1.600	1.632	21.918	-251.232	0.034139	0.06882	29.292	14.530	0.9716	0.9723
1.634	1.666	22.000	-251.150	0.034088	0.06872	29.336	14.552	0.9701	0.9708
1.700	1.732	22.150	-251.000	0.033954	0.06853	29.419	14.592	0.9674	0.9681
1.700	1.734	22.154	-250.996	0.033942	0.06853	29.419	14.593	0.9674	0.9681
1.800	1.835	22.380	-250.770	0.033848	0.06824	29.544	14.655	0.9633	0.9640
1.800	1.837	22.396	-250.754	0.033788	0.06824	29.567	14.671	0.9633	0.9640
1.961	2.000	22.725	-250.425	0.033623	0.06778	29.741	14.753	0.9569	0.9576

TABLE 15 CONTINUED

SATURATED LIQUID PARAHYDROGEN

PRESSURE BAR	TEMPERATURE KELVIN	TEMPERATURE CELSIUS	DENSITY GRAM-MOLE/ CM ³	CH ₃ GRAM-MOLE	VOLUME CM ³ / KG	DENSITY RATIOS -		DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 760 TORR
						LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 1 BAR	LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 760 TORR	
2.000	22.805	-250.345	0.033571	0.06768	29.788	14.776	0.5561	0.5561
2.056	23.000	-250.150	0.033441	0.06741	29.903	14.834	0.5517	0.5517
2.100	23.107	-250.143	0.033436	0.06741	29.908	14.836	0.5516	0.5524
2.141	23.150	-250.000	0.033340	0.06721	29.986	14.879	0.5488	0.5488
2.173	23.150	-250.000	0.033340	0.06721	29.986	14.879	0.5488	0.5488
2.200	23.202	-249.968	0.033305	0.06714	30.026	14.924	0.5478	0.5465
2.243	23.390	-249.768	0.033175	0.06688	30.143	14.952	0.5448	0.5448
2.280	23.573	-249.577	0.033048	0.06662	30.259	15.010	0.5405	0.5412
2.300	23.751	-249.399	0.032923	0.06637	30.374	15.067	0.5376	0.5376
2.350	24.000	-249.226	0.032800	0.06612	30.488	15.124	0.5341	0.5341
2.400	24.150	-249.150	0.032745	0.06601	30.539	15.149	0.5335	0.5325
2.450	24.300	-249.058	0.032678	0.06589	30.602	15.180	0.5307	0.5307
2.500	24.450	-249.000	0.032635	0.06579	30.642	15.200	0.5288	0.5288
2.550	24.600	-248.935	0.032558	0.06564	30.714	15.236	0.5266	0.5266
2.600	24.750	-248.835	0.032439	0.06540	30.827	15.291	0.5232	0.5232
2.650	24.900	-248.735	0.032390	0.06530	30.874	15.315	0.5218	0.5218
2.700	25.050	-248.669	0.032322	0.06516	30.938	15.347	0.5199	0.5199
2.750	25.200	-248.579	0.032206	0.06493	31.050	15.402	0.5166	0.5166
2.800	25.350	-248.477	0.032051	0.06469	31.161	15.457	0.5133	0.5133
2.850	25.500	-248.375	0.031991	0.06449	31.259	15.506	0.5104	0.5111
2.900	25.650	-248.279	0.031878	0.06425	31.372	15.512	0.5101	0.5101
2.950	25.800	-248.133	0.031865	0.06425	31.375	15.564	0.5071	0.5071
3.000	25.950	-248.000	0.031753	0.06401	31.483	15.567	0.5068	0.5068
3.050	26.100	-247.891	0.031642	0.06379	31.603	15.622	0.5037	0.5037
3.100	26.250	-247.715	0.031532	0.06355	31.714	15.677	0.5005	0.5011
3.150	26.400	-247.591	0.031423	0.06335	31.824	15.732	0.4974	0.4980
3.200	26.550	-247.449	0.031314	0.06313	31.935	15.786	0.4943	0.4949
3.250	26.700	-247.320	0.031209	0.06291	32.045	15.841	0.4912	0.4918
3.300	26.850	-247.209	0.031168	0.06269	32.156	15.896	0.4881	0.4887
3.350	27.000	-247.133	0.031098	0.06257	32.267	15.951	0.4850	0.4857
3.400	27.150	-247.069	0.031038	0.06227	32.378	15.982	0.4820	0.4826
3.450	27.300	-246.946	0.030991	0.06226	32.489	16.006	0.4790	0.4796
3.500	27.450	-246.826	0.030885	0.06205	32.600	16.061	0.4759	0.4766
3.550	27.600	-246.707	0.030779	0.06184	32.711	16.117	0.4729	0.4736
3.600	27.750	-246.591	0.030673	0.06162	32.822	16.172	0.4699	0.4706
3.650	27.900	-246.476	0.030568	0.06141	32.933	16.228	0.4669	0.4676
3.700	28.050	-246.353	0.030463	0.06120	33.044	16.284	0.4639	0.4646
3.750	28.200	-246.230	0.030359	0.06101	33.155	16.340	0.4609	0.4616
3.800	28.350	-246.150	0.030254	0.06099	33.266	16.392	0.4579	0.4586
3.850	28.500	-246.112	0.030150	0.06078	33.377	16.445	0.4549	0.4556
3.900	28.650	-246.034	0.030118	0.06072	33.488	16.470	0.4519	0.4526
3.950	28.800	-245.957	0.030046	0.06057	33.599	16.509	0.4489	0.4496

TABLE 15 CONTINUED

SATURATED LIQUID PARAHYDROGEN

PRESSURE BAR	TEMPERATURE KELVIN	TEMPERATURE CELSIUS	DENSITY GRAM-MOLE/ CM ³	VOLUME CM ³ / GRAM-MOLE	DM ³ / KG	DENSITY RATIOS -	
						LIQUID DENSITY/ DENSITY AT A BOIL. PRESS. OF 1 BAR	DIMENSIONLESS LIQUID DENSITY/ DENSITY AT A BOIL- PRESS. OF 760 TORR
5.200	27.328	-245.822	0.029843	33.397	16.566	0.8531	0.8528
5.300	27.432	-245.718	0.029839	33.583	16.654	0.8492	0.8498
5.400	27.536	-245.615	0.029836	33.629	16.682	0.8463	0.8469
5.500	27.635	-245.514	0.029833	33.747	16.740	0.8433	0.8439
5.600	27.736	-245.414	0.029829	33.865	16.798	0.8404	0.8410
5.700	27.834	-245.316	0.029826	33.963	16.857	0.8374	0.8380
5.800	27.932	-245.218	0.029823	34.103	16.917	0.8345	0.8351
5.871	28.000	-245.150	0.029820	34.188	16.959	0.8320	0.8326
5.900	28.013	-245.137	0.029820	34.204	16.967	0.8316	0.8322
5.984	28.028	-245.122	0.029820	34.223	16.976	0.8316	0.8322
6.000	28.037	-245.117	0.029817	34.345	17.037	0.8286	0.8292
6.088	28.123	-245.027	0.029807	34.379	17.054	0.8278	0.8284
6.100	28.120	-245.000	0.029806	34.567	17.097	0.8258	0.8263
6.200	28.217	-244.933	0.029013	34.567	17.097	0.8258	0.8263
6.300	28.310	-244.840	0.028910	34.590	17.158	0.8198	0.8204
6.400	28.402	-244.748	0.028806	34.714	17.220	0.8169	0.8174
6.500	28.493	-244.657	0.028703	34.840	17.282	0.8139	0.8145
6.600	28.583	-244.567	0.028599	34.966	17.345	0.8109	0.8115
6.700	28.672	-244.478	0.028495	35.094	17.408	0.8080	0.8085
6.800	28.760	-244.390	0.028391	35.223	17.472	0.8056	0.8062
6.865	28.847	-244.303	0.028286	35.353	17.537	0.8031	0.8036
6.900	28.903	-244.247	0.028218	35.438	17.579	0.8026	0.8032
6.978	28.933	-244.217	0.028181	35.5485	17.602	0.8022	0.8028
7.000	29.000	-244.150	0.028099	35.588	17.653	0.7997	0.8002
7.100	29.103	-244.047	0.028076	35.618	17.668	0.7966	0.7972
7.156	29.150	-244.000	0.027971	35.752	17.735	0.7966	0.7972
7.200	29.187	-243.963	0.027911	35.828	17.772	0.7949	0.7955
7.300	29.270	-243.880	0.027865	35.888	17.802	0.7930	0.7936
7.400	29.352	-243.798	0.027759	35.925	17.870	0.7905	0.7910
7.500	29.433	-243.717	0.027652	36.046	17.939	0.7875	0.7880
7.600	29.513	-243.637	0.027545	36.185	18.009	0.7845	0.7850
7.700	29.593	-243.557	0.027437	36.347	18.079	0.7814	0.7819
7.800	29.672	-243.478	0.027329	36.591	18.151	0.7778	0.7783
7.845	29.708	-243.442	0.027220	36.737	18.223	0.7752	0.7757
7.900	29.750	-243.400	0.027111	36.885	18.256	0.7730	0.7735
8.000	29.828	-243.322	0.027002	37.035	18.297	0.7721	0.7726
8.100	29.905	-243.245	0.026891	37.187	18.371	0.7684	0.7689
8.200	29.981	-243.169	0.026780	37.341	18.446	0.7658	0.7663
8.225	30.000	-243.150	0.026752	37.390	18.523	0.7627	0.7632
8.300	30.056	-243.094	0.026668	37.544	18.601	0.7619	0.7624
8.400	30.131	-243.019	0.026556	37.697	18.679	0.7558	0.7563
8.425	30.150	-243.000	0.026527	37.697	18.700	0.7555	0.7560
8.500	30.205	-242.945	0.026422	37.818	18.760	0.7525	0.7530
8.600	30.279	-242.871	0.026328	37.982	18.841	0.7493	0.7498
8.700	30.352	-242.798	0.026213	38.149	18.924	0.7465	0.7470

TABLE 15 CONTINUED

SATURATED LIQUID PARAMYDROGEN

BAR	PRESSURE KP/CM ²	TEMPERATURE		DENSITY GRAM-MOLE/ CM ³	VOLUME		LIQUID DENSITY/ PRESS. OF 1 BAR	DENSITY RATIOS - LIQUID DENSITY/ PRESS. OF 760 TORR	
		KELVIN	CELSIUS		CM ³ / GRAM-MOLE	DM ³ / KG			
8.800	8.974	30.424	-242.726	0.026097	38.318	19.008	0.7427	0.7432	
8.826	9.000	30.443	-242.707	0.026067	38.353	19.030	0.7418	0.7424	
8.850	9.025	30.466	-242.654	0.025980	38.451	19.093	0.7394	0.7399	
9.000	9.177	30.567	-242.583	0.025862	38.667	19.180	0.7360	0.7365	
9.100	9.279	30.638	-242.512	0.025783	38.886	19.269	0.7326	0.7331	
9.200	9.381	30.708	-242.442	0.025623	39.103	19.360	0.7292	0.7297	
9.300	9.483	30.777	-242.373	0.025501	39.324	19.452	0.7257	0.7263	
9.400	9.585	30.846	-242.304	0.025378	39.546	19.546	0.7222	0.7228	
9.500	9.687	30.914	-242.236	0.025254	39.768	19.642	0.7187	0.7192	
9.600	9.789	30.982	-242.168	0.025128	39.990	19.741	0.7152	0.7157	
9.627	9.816	31.002	-242.150	0.025095	39.989	19.737	0.7142	0.7147	
9.700	9.891	31.049	-242.101	0.025001	39.980	19.811	0.7115	0.7120	
9.800	9.993	31.116	-242.034	0.024872	40.256	19.924	0.7078	0.7083	
9.827	10.000	31.121	-242.029	0.024863	40.250	19.921	0.7078	0.7081	
9.851	10.045	31.150	-242.000	0.024806	40.314	19.997	0.7059	0.7064	
9.900	10.095	31.182	-241.968	0.024741	40.410	20.049	0.7041	0.7046	
10.000	10.197	31.248	-241.902	0.024609	40.636	20.157	0.7003	0.7008	
10.100	10.299	31.314	-241.836	0.024474	40.860	20.268	0.6965	0.6970	
10.200	10.401	31.378	-241.772	0.024337	41.089	20.382	0.6926	0.6931	
10.300	10.503	31.443	-241.707	0.024199	41.325	20.499	0.6887	0.6891	
10.400	10.605	31.507	-241.643	0.024057	41.569	20.620	0.6846	0.6851	
10.500	10.707	31.570	-241.580	0.023913	41.813	20.744	0.6805	0.6810	
10.600	10.809	31.633	-241.517	0.023766	42.078	20.872	0.6764	0.6768	
10.700	10.911	31.695	-241.455	0.023616	42.345	21.005	0.6721	0.6726	
10.787	10.950	31.750	-241.400	0.023462	42.596	21.124	0.6683	0.6688	
10.800	11.013	31.758	-241.392	0.023462	42.621	21.142	0.6677	0.6682	
10.900	11.115	31.819	-241.331	0.023306	42.908	21.284	0.6633	0.6637	
11.000	11.217	31.880	-241.270	0.023145	43.206	21.432	0.6587	0.6592	
11.100	11.319	31.941	-241.209	0.022980	43.516	21.586	0.6540	0.6545	
11.188	11.349	32.000	-241.150	0.022814	43.832	21.743	0.6493	0.6497	
11.200	11.421	32.001	-241.149	0.022811	43.859	21.746	0.6493	0.6496	
11.300	11.523	32.061	-241.089	0.022636	44.177	21.914	0.6442	0.6447	
11.400	11.625	32.121	-241.029	0.022456	44.531	22.090	0.6391	0.6395	
11.450	11.675	32.150	-241.000	0.022364	44.714	22.180	0.6365	0.6369	
11.500	11.727	32.180	-240.970	0.022270	44.984	22.275	0.6340	0.6342	
11.600	11.829	32.238	-240.912	0.022076	45.298	22.470	0.6288	0.6292	
11.700	11.931	32.296	-240.854	0.021875	45.613	22.676	0.6235	0.6239	
11.768	12.000	32.336	-240.814	0.021733	45.881	22.885	0.6185	0.6189	
11.800	12.033	32.354	-240.796	0.021665	46.158	22.897	0.6166	0.6170	
11.900	12.135	32.411	-240.739	0.021444	46.463	23.132	0.6107	0.6110	
12.000	12.237	32.468	-240.682	0.021211	47.146	23.387	0.6036	0.6041	
12.0749	13.000	32.881	-240.269	0.020570	53.851	26.712	0.5285	0.5289	
12.928	13.183	32.976	-240.174	0.015590	64.144	31.818	0.4437	0.4440	

TABLE 16

DENSITY OF COMPRESSED LIQUID HYDROGEN

1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR		TABLE ENTRIES											
BAR KPa/cm ²		1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/CM ³											
	0.800 0.816	1.000 1.020	2.000 2.039	3.000 3.059	4.000 4.079	5.000 5.099	6.000 6.118	7.000 7.138	8.000 8.158	9.000 9.177	10.000 10.197	11.000 11.217	12.000 12.237
19.5 -253.65 0.801		1.0116 1.0124 0.07166	1.0135 1.0142 0.07179	1.0153 1.0160 0.07205	1.0171 1.0178 0.07230	1.0189 1.0196 0.07257	1.0206 1.0214 0.07282	1.0224 1.0231 0.07307	1.0241 1.0248 0.07332	1.0258 1.0265 0.07357	1.0274 1.0282 0.07382	1.0291 1.0298 0.07407	1.0307 1.0314 0.07432
19.6 -253.55 0.827		1.0101 1.0108 0.07155	1.0119 1.0126 0.07168	1.0138 1.0145 0.07181	1.0156 1.0163 0.07194	1.0174 1.0181 0.07207	1.0191 1.0198 0.07219	1.0209 1.0216 0.07232	1.0226 1.0233 0.07244	1.0243 1.0250 0.07256	1.0260 1.0267 0.07268	1.0276 1.0283 0.07279	1.0293 1.0300 0.07291
19.7 -253.45 0.853		1.0085 1.0092 0.07144	1.0104 1.0111 0.07157	1.0122 1.0129 0.07170	1.0140 1.0148 0.07183	1.0158 1.0166 0.07196	1.0176 1.0184 0.07208	1.0194 1.0201 0.07221	1.0211 1.0218 0.07233	1.0228 1.0236 0.07245	1.0245 1.0252 0.07257	1.0262 1.0269 0.07269	1.0279 1.0286 0.07281
19.8 -253.35 0.880		1.0069 1.0076 0.07133	1.0088 1.0095 0.07146	1.0107 1.0114 0.07159	1.0125 1.0132 0.07172	1.0143 1.0150 0.07185	1.0161 1.0168 0.07198	1.0179 1.0186 0.07210	1.0196 1.0204 0.07223	1.0214 1.0221 0.07235	1.0231 1.0238 0.07247	1.0247 1.0254 0.07259	1.0264 1.0271 0.07271
19.9 -253.25 0.907		1.0053 1.0060 0.07121	1.0072 1.0079 0.07135	1.0091 1.0098 0.07148	1.0109 1.0117 0.07161	1.0128 1.0135 0.07174	1.0146 1.0153 0.07187	1.0164 1.0171 0.07200	1.0181 1.0189 0.07212	1.0199 1.0206 0.07224	1.0216 1.0223 0.07237	1.0233 1.0240 0.07249	1.0250 1.0257 0.07260
20.0 -253.15 0.935		1.0037 1.0044 0.07110	1.0056 1.0063 0.07123	1.0075 1.0082 0.07137	1.0094 1.0101 0.07150	1.0112 1.0119 0.07163	1.0131 1.0138 0.07176	1.0149 1.0156 0.07189	1.0166 1.0173 0.07201	1.0184 1.0191 0.07214	1.0201 1.0208 0.07226	1.0218 1.0225 0.07238	1.0235 1.0242 0.07250
20.1 -253.05 0.964		1.0021 1.0028 0.07098	1.0040 1.0047 0.07112	1.0059 1.0066 0.07126	1.0078 1.0085 0.07139	1.0097 1.0104 0.07152	1.0115 1.0122 0.07165	1.0133 1.0140 0.07177	1.0151 1.0158 0.07191	1.0169 1.0176 0.07203	1.0186 1.0193 0.07215	1.0204 1.0211 0.07228	1.0221 1.0228 0.07240
20.2 -252.95 0.993		1.0004 1.0011 0.07087	1.0024 1.0031 0.07101	1.0043 1.0050 0.07114	1.0062 1.0069 0.07128	1.0081 1.0088 0.07141	1.0100 1.0107 0.07154	1.0118 1.0125 0.07167	1.0136 1.0143 0.07180	1.0154 1.0161 0.07192	1.0171 1.0178 0.07205	1.0188 1.0195 0.07217	1.0206 1.0213 0.07229
20.3 -252.85 1.023		1.0008 1.0015 0.07069	1.0027 1.0034 0.07103	1.0046 1.0053 0.07116	1.0065 1.0072 0.07130	1.0084 1.0091 0.07143	1.0102 1.0109 0.07156	1.0121 1.0128 0.07169	1.0138 1.0146 0.07182	1.0156 1.0163 0.07194	1.0174 1.0181 0.07207	1.0191 1.0198 0.07219	
20.4 -252.75 1.053			0.9991 0.9998 0.07077	1.0011 1.0018 0.07091	1.0030 1.0037 0.07105	1.0049 1.0056 0.07119	1.0068 1.0075 0.07132	1.0087 1.0094 0.07145	1.0105 1.0112 0.07158	1.0123 1.0130 0.07171	1.0141 1.0148 0.07184	1.0159 1.0166 0.07196	1.0176 1.0183 0.07208
20.5 -252.65 1.084			0.9975 0.9982 0.07066	1.0004 1.0011 0.07080	1.0033 1.0040 0.07094	1.0062 1.0069 0.07107	1.0091 1.0098 0.07121	1.0120 1.0127 0.07134	1.0149 1.0156 0.07147	1.0178 1.0185 0.07160	1.0206 1.0213 0.07173	1.0235 1.0242 0.07185	1.0264 1.0271 0.07198
20.6 -252.55 1.116			0.9958 0.9965 0.07054	1.0008 1.0015 0.07068	1.0037 1.0044 0.07082	1.0066 1.0073 0.07096	1.0095 1.0102 0.07109	1.0124 1.0131 0.07123	1.0153 1.0160 0.07136	1.0182 1.0189 0.07149	1.0211 1.0218 0.07162	1.0240 1.0247 0.07175	1.0269 1.0276 0.07187
20.7 -252.45 1.149			0.9941 0.9948 0.07042	1.0001 1.0008 0.07056	1.0031 1.0038 0.07070	1.0061 1.0068 0.07084	1.0091 1.0098 0.07098	1.0120 1.0127 0.07111	1.0150 1.0157 0.07125	1.0179 1.0186 0.07138	1.0208 1.0215 0.07151	1.0237 1.0244 0.07164	1.0266 1.0273 0.07176
20.8 -252.35 1.182			0.9924 0.9931 0.07030	1.0004 1.0011 0.07044	1.0036 1.0043 0.07058	1.0068 1.0075 0.07073	1.0100 1.0107 0.07086	1.0132 1.0139 0.07100	1.0164 1.0171 0.07114	1.0196 1.0203 0.07127	1.0228 1.0235 0.07140	1.0260 1.0267 0.07153	1.0292 1.0299 0.07166
20.9 -252.25 1.216			0.9907 0.9914 0.07018	1.0027 1.0035 0.07032	1.0068 1.0075 0.07047	1.0109 1.0116 0.07061	1.0150 1.0157 0.07075	1.0191 1.0198 0.07089	1.0232 1.0239 0.07102	1.0273 1.0280 0.07115	1.0314 1.0321 0.07128	1.0355 1.0362 0.07141	1.0396 1.0403 0.07155
21.0 -252.15 1.250			0.9889 0.9896 0.07005	1.0010 1.0017 0.07020	1.0051 1.0058 0.07035	1.0092 1.0099 0.07049	1.0133 1.0140 0.07063	1.0174 1.0181 0.07077	1.0215 1.0222 0.07091	1.0256 1.0263 0.07104	1.0297 1.0304 0.07118	1.0338 1.0345 0.07131	1.0379 1.0386 0.07144
21.1 -252.05 1.285			0.9872 0.9879 0.06993	1.0003 1.0010 0.07008	1.0044 1.0051 0.07023	1.0085 1.0092 0.07037	1.0126 1.0133 0.07052	1.0167 1.0174 0.07066	1.0208 1.0215 0.07079	1.0249 1.0256 0.07093	1.0290 1.0297 0.07107	1.0331 1.0338 0.07120	1.0372 1.0379 0.07133
21.2 -251.95 1.321			0.9855 0.9862 0.06981	1.0006 1.0013 0.06996	1.0047 1.0054 0.07011	1.0088 1.0095 0.07025	1.0129 1.0136 0.07040	1.0170 1.0177 0.07054	1.0211 1.0218 0.07068	1.0252 1.0259 0.07082	1.0293 1.0300 0.07095	1.0334 1.0341 0.07109	1.0375 1.0382 0.07122
21.3 -251.85 1.357			0.9837 0.9844 0.06968	1.0009 1.0016 0.06983	1.0050 1.0057 0.06999	1.0091 1.0098 0.07013	1.0132 1.0139 0.07028	1.0173 1.0180 0.07042	1.0214 1.0221 0.07056	1.0255 1.0262 0.07070	1.0296 1.0303 0.07084	1.0337 1.0344 0.07097	1.0378 1.0385 0.07111
21.4 -251.75 1.395			0.9819 0.9826 0.06956	1.0012 1.0019 0.06971	1.0053 1.0060 0.06986	1.0094 1.0101 0.07001	1.0135 1.0142 0.07016	1.0176 1.0183 0.07030	1.0217 1.0224 0.07044	1.0258 1.0265 0.07058	1.0299 1.0306 0.07072	1.0340 1.0347 0.07086	1.0381 1.0388 0.07100

TABLE 16 - CONTINUED

DENSITY OF COMPRESSED LIQUID HYDROGEN - CONTINUED

TABLE ENTRIES														
1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TCRR, DIMENSIONLESS 3. DENSITY, KG/DK3										
BAR K/CM2	0.000 0.016	1.000 1.020	2.000 2.039	3.000 3.059	4.000 4.079	5.000 5.099	6.000 6.118	7.000 7.136	8.000 8.198	9.000 9.177	10.000 10.197	11.000 11.217	12.000 12.237	
21.5 -251.65 1.433			0.9802 0.9808 0.06943	0.9823 0.9830 0.06959	0.9845 0.9852 0.06974	0.9866 0.9873 0.06989	0.9887 0.9894 0.07004	0.9908 0.9915 0.07019	0.9928 0.9935 0.07033	0.9948 0.9955 0.07047	0.9968 0.9975 0.07061	0.9987 0.9994 0.07075	1.0007 1.0014 0.07088	
21.6 -251.55 1.471			0.9784 0.9789 0.06930	0.9806 0.9813 0.06946	0.9828 0.9835 0.06961	0.9849 0.9856 0.06977	0.9870 0.9877 0.06992	0.9891 0.9898 0.07006	0.9912 0.9919 0.07021	0.9932 0.9939 0.07035	0.9952 0.9959 0.07049	0.9971 0.9978 0.07063	0.9991 1.0000 0.07077	
21.7 -251.45 1.511			0.9765 0.9772 0.06917	0.9788 0.9795 0.06933	0.9810 0.9817 0.06949	0.9832 0.9839 0.06964	0.9853 0.9860 0.06980	0.9874 0.9881 0.06994	0.9895 0.9902 0.07009	0.9915 0.9922 0.07024	0.9935 0.9942 0.07038	0.9955 0.9962 0.07052	0.9974 0.9981 0.07065	
21.8 -251.35 1.551			0.9747 0.9754 0.06905	0.9770 0.9777 0.06921	0.9792 0.9799 0.06936	0.9814 0.9821 0.06952	0.9835 0.9842 0.06967	0.9857 0.9864 0.06982	0.9878 0.9885 0.06997	0.9898 0.9905 0.07012	0.9919 0.9926 0.07026	0.9939 0.9946 0.07040	0.9958 0.9965 0.07054	
21.9 -251.25 1.592			0.9729 0.9736 0.06891	0.9752 0.9759 0.06908	0.9774 0.9781 0.06924	0.9796 0.9803 0.06939	0.9818 0.9825 0.06955	0.9840 0.9847 0.06970	0.9861 0.9868 0.06985	0.9882 0.9889 0.07000	0.9902 0.9909 0.07014	0.9922 0.9929 0.07028	0.9942 0.9949 0.07042	
22.0 -251.15 1.634			0.9710 0.9717 0.06878	0.9733 0.9740 0.06893	0.9756 0.9763 0.06908	0.9778 0.9785 0.06923	0.9801 0.9808 0.06938	0.9822 0.9829 0.06952	0.9844 0.9851 0.06967	0.9865 0.9872 0.06981	0.9885 0.9892 0.07000	0.9906 0.9913 0.07017	0.9926 0.9933 0.07031	
22.1 -251.05 1.677			0.9691 0.9698 0.06865	0.9715 0.9722 0.06880	0.9738 0.9745 0.06895	0.9761 0.9768 0.06910	0.9783 0.9790 0.06925	0.9805 0.9812 0.06940	0.9826 0.9833 0.06954	0.9847 0.9854 0.06969	0.9868 0.9875 0.06983	0.9889 0.9896 0.07000	0.9909 0.9916 0.07019	
22.2 -250.95 1.720			0.9672 0.9679 0.06851	0.9696 0.9703 0.06866	0.9720 0.9726 0.06881	0.9742 0.9749 0.06896	0.9765 0.9772 0.06911	0.9787 0.9794 0.06926	0.9809 0.9816 0.06940	0.9830 0.9837 0.06955	0.9851 0.9858 0.06969	0.9872 0.9879 0.06983	0.9892 0.9899 0.07000	
22.3 -250.85 1.764			0.9653 0.9660 0.06836	0.9678 0.9684 0.06851	0.9701 0.9708 0.06867	0.9724 0.9731 0.06882	0.9747 0.9754 0.06897	0.9769 0.9776 0.06912	0.9791 0.9798 0.06926	0.9813 0.9820 0.06941	0.9834 0.9841 0.06955	0.9855 0.9862 0.06969	0.9876 0.9883 0.06983	
22.4 -250.75 1.809			0.9634 0.9641 0.06824	0.9658 0.9665 0.06839	0.9682 0.9689 0.06854	0.9706 0.9713 0.06869	0.9729 0.9736 0.06884	0.9751 0.9758 0.06898	0.9774 0.9781 0.06913	0.9795 0.9802 0.06927	0.9817 0.9824 0.06941	0.9838 0.9845 0.06955	0.9859 0.9866 0.06969	
22.5 -250.65 1.855			0.9614 0.9621 0.06810	0.9639 0.9646 0.06825	0.9663 0.9670 0.06840	0.9687 0.9694 0.06855	0.9710 0.9717 0.06870	0.9733 0.9740 0.06884	0.9756 0.9763 0.06899	0.9778 0.9785 0.06913	0.9799 0.9806 0.06927	0.9821 0.9828 0.06941	0.9842 0.9849 0.06955	
22.6 -250.55 1.902			0.9595 0.9601 0.06796	0.9620 0.9626 0.06811	0.9644 0.9651 0.06826	0.9668 0.9675 0.06841	0.9692 0.9699 0.06856	0.9715 0.9722 0.06870	0.9738 0.9745 0.06885	0.9760 0.9767 0.06900	0.9782 0.9789 0.06914	0.9803 0.9810 0.06928	0.9825 0.9832 0.06942	
22.7 -250.45 1.949			0.9575 0.9581 0.06782	0.9600 0.9607 0.06800	0.9625 0.9632 0.06815	0.9649 0.9656 0.06830	0.9673 0.9680 0.06845	0.9697 0.9704 0.06860	0.9720 0.9727 0.06875	0.9742 0.9749 0.06890	0.9764 0.9771 0.06904	0.9786 0.9793 0.06918	0.9807 0.9814 0.06932	
22.8 -250.35 1.997			0.9555 0.9561 0.06768	0.9580 0.9587 0.06786	0.9606 0.9612 0.06804	0.9630 0.9637 0.06822	0.9654 0.9661 0.06840	0.9678 0.9685 0.06857	0.9701 0.9708 0.06872	0.9724 0.9731 0.06888	0.9747 0.9754 0.06903	0.9769 0.9776 0.06917	0.9790 0.9797 0.06931	
22.9 -250.25 2.047			0.9560 0.9567 0.06772	0.9586 0.9593 0.06790	0.9611 0.9618 0.06808	0.9635 0.9642 0.06826	0.9659 0.9666 0.06844	0.9683 0.9690 0.06862	0.9706 0.9713 0.06880	0.9729 0.9736 0.06897	0.9751 0.9758 0.06915	0.9773 0.9780 0.06933	0.9795 0.9802 0.06951	
23.0 -250.15 2.096			0.9540 0.9547 0.06758	0.9566 0.9573 0.06776	0.9592 0.9599 0.06794	0.9616 0.9623 0.06812	0.9641 0.9647 0.06830	0.9664 0.9671 0.06848	0.9688 0.9695 0.06866	0.9711 0.9718 0.06884	0.9733 0.9740 0.06902	0.9755 0.9762 0.06920	0.9777 0.9784 0.06938	
23.1 -250.05 2.147			0.9520 0.9527 0.06744	0.9546 0.9553 0.06762	0.9572 0.9579 0.06780	0.9597 0.9604 0.06798	0.9622 0.9629 0.06816	0.9647 0.9654 0.06834	0.9671 0.9678 0.06852	0.9694 0.9701 0.06870	0.9717 0.9724 0.06888	0.9739 0.9746 0.06906	0.9761 0.9768 0.06924	
23.2 -249.95 2.199			0.9500 0.9507 0.06729	0.9526 0.9533 0.06748	0.9552 0.9559 0.06766	0.9578 0.9584 0.06784	0.9602 0.9609 0.06802	0.9627 0.9634 0.06820	0.9651 0.9658 0.06838	0.9674 0.9681 0.06856	0.9697 0.9704 0.06874	0.9719 0.9726 0.06892	0.9741 0.9748 0.06910	
23.3 -249.85 2.252			0.9479 0.9486 0.06715	0.9506 0.9513 0.06734	0.9532 0.9539 0.06752	0.9558 0.9565 0.06770	0.9583 0.9590 0.06788	0.9608 0.9615 0.06806	0.9632 0.9639 0.06824	0.9656 0.9663 0.06842	0.9679 0.9686 0.06860	0.9702 0.9709 0.06878	0.9725 0.9732 0.06896	
23.4 -249.75 2.305			0.9458 0.9465 0.06700	0.9486 0.9492 0.06719	0.9512 0.9519 0.06738	0.9538 0.9545 0.06756	0.9564 0.9570 0.06774	0.9589 0.9595 0.06792	0.9613 0.9620 0.06810	0.9637 0.9644 0.06828	0.9660 0.9667 0.06846	0.9683 0.9690 0.06864	0.9706 0.9713 0.06882	

				TABLE ENTRIES											
1. TEMPERATURE, K 2. TEMPERATURE, °C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/D ³											
BAR K/°C/2	0.000 0.816	1.000 1.020	2.000 2.039	3.000 3.059	4.000 4.079	5.000 5.099	6.000 6.118	7.000 7.138	8.000 8.158	9.000 9.177	10.000 10.197	11.000 11.217	12.000 12.237		
23.5 -249.65 2.360				0.9437 0.9444 0.06685	0.9465 0.9472 0.06705	0.9492 0.9499 0.06724	0.9518 0.9525 0.06742	0.9544 0.9551 0.06761	0.9569 0.9576 0.06778	0.9594 0.9601 0.06796	0.9618 0.9625 0.06813	0.9642 0.9649 0.06830	0.9666 0.9672 0.06846		
23.6 -249.55 2.415				0.9416 0.9423 0.06670	0.9444 0.9451 0.06690	0.9471 0.9478 0.06709	0.9498 0.9505 0.06728	0.9524 0.9531 0.06747	0.9550 0.9556 0.06765	0.9575 0.9582 0.06782	0.9599 0.9606 0.06800	0.9623 0.9630 0.06817	0.9647 0.9654 0.06833		
23.7 -249.45 2.471				0.9395 0.9401 0.06655	0.9423 0.9430 0.06675	0.9451 0.9457 0.06695	0.9478 0.9484 0.06714	0.9504 0.9511 0.06732	0.9530 0.9537 0.06751	0.9555 0.9562 0.06769	0.9580 0.9587 0.06786	0.9604 0.9611 0.06803	0.9628 0.9635 0.06820		
23.8 -249.35 2.528				0.9373 0.9380 0.06639	0.9402 0.9408 0.06660	0.9439 0.9447 0.06680	0.9467 0.9474 0.06699	0.9494 0.9501 0.06718	0.9520 0.9527 0.06737	0.9546 0.9553 0.06755	0.9571 0.9578 0.06773	0.9596 0.9603 0.06790	0.9621 0.9628 0.06807		
23.9 -249.25 2.586				0.9351 0.9358 0.06624	0.9380 0.9387 0.06645	0.9409 0.9416 0.06665	0.9437 0.9443 0.06685	0.9464 0.9470 0.06704	0.9490 0.9497 0.06723	0.9516 0.9523 0.06741	0.9542 0.9548 0.06759	0.9566 0.9573 0.06777	0.9591 0.9598 0.06794		
24.0 -249.15 2.645				0.9329 0.9336 0.06608	0.9359 0.9365 0.06629	0.9387 0.9394 0.06650	0.9416 0.9422 0.06670	0.9443 0.9450 0.06689	0.9470 0.9477 0.06708	0.9496 0.9503 0.06727	0.9522 0.9529 0.06745	0.9547 0.9554 0.06763	0.9572 0.9579 0.06780		
24.1 -249.05 2.705				0.9307 0.9313 0.06592	0.9337 0.9343 0.06614	0.9366 0.9373 0.06634	0.9395 0.9401 0.06655	0.9423 0.9429 0.06675	0.9450 0.9456 0.06694	0.9476 0.9483 0.06713	0.9502 0.9509 0.06731	0.9526 0.9533 0.06749	0.9551 0.9558 0.06767		
24.2 -248.95 2.766				0.9284 0.9291 0.06576	0.9315 0.9321 0.06598	0.9344 0.9351 0.06619	0.9373 0.9380 0.06640	0.9402 0.9408 0.06660	0.9429 0.9436 0.06679	0.9456 0.9463 0.06698	0.9481 0.9489 0.06717	0.9508 0.9515 0.06735	0.9534 0.9540 0.06753		
24.3 -248.85 2.828				0.9261 0.9268 0.06560	0.9292 0.9299 0.06582	0.9322 0.9329 0.06604	0.9352 0.9358 0.06624	0.9380 0.9387 0.06645	0.9409 0.9415 0.06665	0.9436 0.9443 0.06684	0.9462 0.9469 0.06703	0.9488 0.9495 0.06721	0.9514 0.9521 0.06739		
24.4 -248.75 2.891				0.9238 0.9244 0.06544	0.9270 0.9276 0.06566	0.9300 0.9307 0.06588	0.9330 0.9337 0.06609	0.9359 0.9366 0.06630	0.9387 0.9394 0.06650	0.9415 0.9422 0.06669	0.9442 0.9449 0.06688	0.9469 0.9476 0.06707	0.9495 0.9501 0.06726		
24.5 -248.65 2.954				0.9214 0.9221 0.06527	0.9246 0.9253 0.06549	0.9278 0.9284 0.06572	0.9308 0.9315 0.06593	0.9338 0.9344 0.06614	0.9366 0.9373 0.06635	0.9395 0.9401 0.06655	0.9422 0.9429 0.06674	0.9449 0.9456 0.06693	0.9475 0.9482 0.06712		
24.6 -248.55 3.019				0.9223 0.9230 0.06533	0.9255 0.9262 0.06556	0.9286 0.9293 0.06578	0.9316 0.9322 0.06599	0.9345 0.9352 0.06620	0.9373 0.9380 0.06640	0.9401 0.9408 0.06660	0.9428 0.9435 0.06679	0.9455 0.9462 0.06698	0.9482 0.9489 0.06717		
24.7 -248.45 3.085				0.9200 0.9206 0.06517	0.9232 0.9239 0.06540	0.9264 0.9270 0.06562	0.9294 0.9301 0.06583	0.9323 0.9330 0.06604	0.9352 0.9359 0.06625	0.9380 0.9387 0.06645	0.9408 0.9415 0.06664	0.9436 0.9443 0.06683	0.9463 0.9470 0.06702		
24.8 -248.35 3.152				0.9176 0.9183 0.06500	0.9209 0.9215 0.06523	0.9241 0.9247 0.06546	0.9272 0.9278 0.06568	0.9302 0.9308 0.06589	0.9331 0.9338 0.06610	0.9359 0.9366 0.06630	0.9387 0.9394 0.06650	0.9415 0.9422 0.06670	0.9443 0.9450 0.06689		
24.9 -248.25 3.220				0.9152 0.9159 0.06483	0.9186 0.9192 0.06507	0.9218 0.9224 0.06530	0.9246 0.9252 0.06552	0.9276 0.9282 0.06574	0.9306 0.9312 0.06595	0.9336 0.9342 0.06616	0.9366 0.9372 0.06637	0.9396 0.9402 0.06657	0.9426 0.9432 0.06678		
25.0 -248.15 3.288				0.9128 0.9135 0.06466	0.9162 0.9169 0.06490	0.9195 0.9201 0.06513	0.9226 0.9233 0.06536	0.9258 0.9264 0.06558	0.9288 0.9294 0.06579	0.9317 0.9324 0.06599	0.9346 0.9352 0.06620	0.9376 0.9382 0.06640	0.9406 0.9412 0.06660		
25.1 -248.05 3.356				0.9104 0.9110 0.06449	0.9138 0.9145 0.06473	0.9171 0.9178 0.06497	0.9204 0.9210 0.06521	0.9235 0.9241 0.06544	0.9266 0.9272 0.06566	0.9296 0.9302 0.06588	0.9326 0.9332 0.06609	0.9356 0.9362 0.06630	0.9386 0.9392 0.06651		
25.2 -247.95 3.429				0.9079 0.9085 0.06431	0.9114 0.9120 0.06456	0.9148 0.9154 0.06480	0.9181 0.9187 0.06503	0.9212 0.9219 0.06526	0.9243 0.9250 0.06548	0.9274 0.9280 0.06569	0.9303 0.9310 0.06590	0.9332 0.9338 0.06611	0.9361 0.9367 0.06632		
25.3 -247.85 3.501				0.9054 0.9060 0.06413	0.9089 0.9096 0.06439	0.9124 0.9130 0.06463	0.9157 0.9164 0.06487	0.9190 0.9196 0.06510	0.9221 0.9227 0.06532	0.9251 0.9258 0.06554	0.9282 0.9288 0.06575	0.9311 0.9317 0.06596	0.9341 0.9347 0.06617		
25.4 -247.75 3.574				0.9028 0.9035 0.06395	0.9065 0.9071 0.06421	0.9100 0.9106 0.06446	0.9138 0.9144 0.06470	0.9173 0.9179 0.06493	0.9207 0.9213 0.06515	0.9239 0.9245 0.06537	0.9270 0.9276 0.06558	0.9301 0.9307 0.06579	0.9332 0.9338 0.06600		

TABLE 16 - CONTINUED

DENSITY OF COMPRESSED LIQUID HYDROGEN - CONTINUED

				TABLE ENTRIES											
1. TEMPERATURE, K 2. TEMPERATURE, °C 3. VAPOR PRESSURE, BAR				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/D ³											
BAR	0.000	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	10.000	11.000	12.000		
K/CM ²	0.016	1.020	2.039	3.059	4.079	5.099	6.118	7.138	8.158	9.177	10.197	11.217	12.237		
25.6 -247.65 3.648					0.9003 0.9009 0.96377	0.9040 0.9046 0.06403	0.9075 0.9082 0.06428	0.9110 0.9116 0.06453	0.9143 0.9150 0.06477	0.9176 0.9182 0.06500	0.9207 0.9214 0.06522	0.9238 0.9244 0.06544	0.9268 0.9274 0.06565		
25.6 -247.55 3.723					0.8977 0.8983 0.96359	0.9014 0.9021 0.06385	0.9050 0.9057 0.06411	0.9085 0.9092 0.06436	0.9120 0.9126 0.06460	0.9153 0.9159 0.06483	0.9185 0.9191 0.06506	0.9216 0.9222 0.06528	0.9246 0.9252 0.06549		
25.7 -247.45 3.799					0.8950 0.8956 0.96340	0.8989 0.8995 0.06367	0.9025 0.9032 0.06393	0.9061 0.9068 0.06415	0.9096 0.9102 0.06443	0.9129 0.9136 0.06467	0.9162 0.9168 0.06490	0.9193 0.9199 0.06512	0.9224 0.9230 0.06534		
25.8 -247.35 3.877					0.8923 0.8929 0.96321	0.8962 0.8968 0.06348	0.9000 0.9007 0.06375	0.9036 0.9043 0.06401	0.9072 0.9078 0.06426	0.9105 0.9112 0.06450	0.9139 0.9145 0.06473	0.9171 0.9177 0.06496	0.9202 0.9208 0.06518		
25.9 -247.25 3.955					0.8896 0.8902 0.96301	0.8936 0.8942 0.06330	0.8975 0.8981 0.06357	0.9012 0.9018 0.06383	0.9047 0.9054 0.06409	0.9082 0.9088 0.06433	0.9115 0.9122 0.06457	0.9148 0.9154 0.06480	0.9180 0.9186 0.06502		
26.0 -247.15 4.035					0.8909 0.8915 0.96311	0.8948 0.8954 0.06338	0.8986 0.8993 0.06366	0.9021 0.9028 0.06391	0.9058 0.9064 0.06416	0.9092 0.9098 0.06440	0.9125 0.9131 0.06464	0.9157 0.9163 0.06486	0.9187 0.9193 0.06508		
26.1 -247.05 4.115					0.8882 0.8888 0.96292	0.8922 0.8928 0.06320	0.8960 0.8966 0.06347	0.8998 0.9004 0.06374	0.9035 0.9041 0.06400	0.9072 0.9078 0.06424	0.9108 0.9114 0.06447	0.9141 0.9147 0.06470	0.9174 0.9180 0.06493		
26.2 -246.95 4.197					0.8855 0.8861 0.96272	0.8895 0.8901 0.06301	0.8934 0.8940 0.06329	0.8972 0.8978 0.06356	0.9009 0.9015 0.06381	0.9044 0.9050 0.06406	0.9078 0.9084 0.06430	0.9111 0.9117 0.06454	0.9144 0.9150 0.06477		
26.3 -246.85 4.280					0.8827 0.8833 0.96252	0.8868 0.8874 0.06282	0.8908 0.8914 0.06310	0.8946 0.8953 0.06337	0.8984 0.8990 0.06364	0.9022 0.9028 0.06389	0.9054 0.9060 0.06414	0.9088 0.9094 0.06437	0.9121 0.9127 0.06460		
26.4 -246.75 4.364					0.8797 0.8803 0.96232	0.8841 0.8847 0.06262	0.8881 0.8888 0.06291	0.8920 0.8927 0.06319	0.8958 0.8964 0.06346	0.8995 0.9001 0.06372	0.9030 0.9037 0.06397	0.9064 0.9070 0.06421	0.9098 0.9104 0.06445		
26.5 -246.65 4.449					0.8769 0.8775 0.96211	0.8812 0.8818 0.06242	0.8854 0.8861 0.06272	0.8894 0.8901 0.06300	0.8933 0.8939 0.06328	0.8970 0.8977 0.06356	0.9006 0.9012 0.06380	0.9041 0.9047 0.06404	0.9076 0.9082 0.06428		
26.6 -246.55 4.535					0.8740 0.8746 0.96191	0.8784 0.8790 0.06222	0.8827 0.8833 0.06253	0.8868 0.8874 0.06282	0.8907 0.8913 0.06309	0.8945 0.8951 0.06336	0.8981 0.8987 0.06362	0.9017 0.9023 0.06387	0.9052 0.9058 0.06411		
26.7 -246.45 4.623					0.8710 0.8716 0.96170	0.8755 0.8761 0.06202	0.8798 0.8805 0.06232	0.8841 0.8847 0.06263	0.8881 0.8887 0.06291	0.8919 0.8925 0.06318	0.8956 0.8962 0.06344	0.8993 0.8999 0.06369	0.9030 0.9036 0.06393		
26.8 -246.35 4.712					0.8679 0.8685 0.96140	0.8726 0.8732 0.06181	0.8770 0.8777 0.06213	0.8813 0.8819 0.06243	0.8854 0.8861 0.06272	0.8893 0.8900 0.06300	0.8931 0.8937 0.06326	0.8968 0.8974 0.06351	0.9005 0.9011 0.06376		
26.9 -246.25 4.801					0.8649 0.8655 0.96126	0.8697 0.8703 0.06161	0.8742 0.8748 0.06193	0.8785 0.8791 0.06223	0.8828 0.8834 0.06253	0.8867 0.8874 0.06281	0.8906 0.8912 0.06309	0.8944 0.8950 0.06336	0.8982 0.8988 0.06362		
27.0 -246.15 4.892					0.8618 0.8624 0.96104	0.8666 0.8672 0.06139	0.8713 0.8719 0.06172	0.8757 0.8763 0.06203	0.8800 0.8806 0.06233	0.8841 0.8847 0.06263	0.8881 0.8887 0.06290	0.8920 0.8926 0.06317	0.8959 0.8965 0.06344		
27.1 -246.05 4.985					0.8586 0.8592 0.96082	0.8636 0.8642 0.06117	0.8684 0.8690 0.06151	0.8729 0.8735 0.06183	0.8772 0.8778 0.06214	0.8814 0.8820 0.06243	0.8854 0.8860 0.06272	0.8893 0.8899 0.06300	0.8932 0.8938 0.06327		
27.2 -245.95 5.078					0.8555 0.8561 0.96059	0.8605 0.8611 0.06100	0.8653 0.8659 0.06133	0.8700 0.8706 0.06163	0.8744 0.8750 0.06194	0.8787 0.8793 0.06224	0.8828 0.8834 0.06253	0.8868 0.8874 0.06281	0.8907 0.8913 0.06309		
27.3 -245.85 5.173					0.8523 0.8529 0.96037	0.8573 0.8579 0.06079	0.8623 0.8629 0.06112	0.8670 0.8676 0.06142	0.8716 0.8722 0.06174	0.8759 0.8765 0.06205	0.8801 0.8807 0.06234	0.8841 0.8847 0.06262	0.8881 0.8887 0.06290		
27.4 -245.75 5.269					0.8491 0.8497 0.96015	0.8541 0.8547 0.06058	0.8592 0.8598 0.06091	0.8641 0.8647 0.06121	0.8687 0.8693 0.06154	0.8731 0.8737 0.06185	0.8774 0.8780 0.06215	0.8814 0.8820 0.06244	0.8854 0.8860 0.06272		

			TABLE ENTRIES												
1. TEMPERATURE, K 2. TEMPERATURE, °C 3. VAPOR PRESSURE, BAR			1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TORR, DIMENSIONLESS 3. DENSITY, KG/DM ³												
BAR K/CM ²	0.850 0.816	1.000 1.020	2.000 2.039	3.000 3.059	4.000 4.079	5.000 5.099	6.000 6.118	7.000 7.138	8.000 8.158	9.000 9.177	10.000 10.197	11.000 11.217	12.000 12.237		
27.5 -245.65 5.366									0.8507 0.8513 0.06026	0.8561 0.8567 0.06064	0.8610 0.8617 0.06099	0.8658 0.8664 0.06133	0.8703 0.8709 0.06165	0.8746 0.8753 0.06196	0.8788 0.8794 0.06225
27.6 -245.95 5.464									0.8473 0.8479 0.06002	0.8527 0.8533 0.06040	0.8580 0.8586 0.06078	0.8628 0.8634 0.06112	0.8674 0.8680 0.06144	0.8719 0.8725 0.06176	0.8761 0.8767 0.06206
27.7 -245.45 5.564									0.8439 0.8445 0.05978	0.8495 0.8501 0.06017	0.8548 0.8555 0.06055	0.8598 0.8604 0.06090	0.8645 0.8651 0.06124	0.8691 0.8697 0.06156	0.8734 0.8740 0.06187
27.8 -245.35 5.665									0.8404 0.8410 0.05953	0.8462 0.8466 0.05994	0.8515 0.8522 0.06032	0.8567 0.8574 0.06069	0.8616 0.8622 0.06103	0.8662 0.8666 0.06136	0.8706 0.8712 0.06167
27.9 -245.25 5.767									0.8368 0.8374 0.05928	0.8428 0.8434 0.05970	0.8483 0.8489 0.06009	0.8535 0.8541 0.06046	0.8586 0.8592 0.06082	0.8633 0.8639 0.06115	0.8678 0.8684 0.06147
28.0 -245.15 5.871									0.8332 0.8338 0.05902	0.8393 0.8399 0.05945	0.8450 0.8456 0.05986	0.8504 0.8510 0.06024	0.8555 0.8561 0.06060	0.8604 0.8610 0.06094	0.8650 0.8656 0.06127
28.1 -245.05 5.976									0.8295 0.8301 0.05876	0.8358 0.8364 0.05920	0.8417 0.8423 0.05962	0.8472 0.8478 0.06001	0.8524 0.8530 0.06038	0.8574 0.8580 0.06073	0.8621 0.8627 0.06107
28.2 -244.95 6.082									0.8322 0.8328 0.05895	0.8382 0.8388 0.05939	0.8439 0.8445 0.05978	0.8492 0.8499 0.06016	0.8544 0.8550 0.06052	0.8594 0.8600 0.06086	0.8647 0.8653 0.06119
28.3 -244.85 6.189									0.8285 0.8291 0.05865	0.8347 0.8353 0.05913	0.8406 0.8412 0.05954	0.8461 0.8467 0.05993	0.8512 0.8518 0.06030	0.8562 0.8568 0.06065	0.8612 0.8618 0.06100
28.4 -244.75 6.298									0.8246 0.8252 0.05841	0.8312 0.8318 0.05888	0.8372 0.8378 0.05930	0.8428 0.8434 0.05970	0.8481 0.8487 0.06008	0.8534 0.8540 0.06043	0.8587 0.8593 0.06078
28.5 -244.65 6.408									0.8208 0.8214 0.05814	0.8275 0.8281 0.05862	0.8337 0.8343 0.05906	0.8395 0.8401 0.05947	0.8450 0.8456 0.05985	0.8501 0.8507 0.06022	0.8556 0.8562 0.06057
28.6 -244.55 6.519									0.8169 0.8174 0.05788	0.8237 0.8243 0.05835	0.8302 0.8308 0.05881	0.8361 0.8367 0.05923	0.8417 0.8423 0.05963	0.8471 0.8477 0.06000	0.8526 0.8532 0.06037
28.7 -244.45 6.632									0.8128 0.8134 0.05758	0.8199 0.8205 0.05809	0.8266 0.8272 0.05855	0.8327 0.8333 0.05899	0.8384 0.8390 0.05939	0.8439 0.8445 0.05978	0.8493 0.8499 0.06015
28.8 -244.35 6.746									0.8086 0.8092 0.05728	0.8160 0.8166 0.05781	0.8228 0.8234 0.05829	0.8292 0.8298 0.05874	0.8351 0.8357 0.05916	0.8407 0.8413 0.05955	0.8461 0.8467 0.05992
28.9 -244.25 6.861									0.8043 0.8049 0.05698	0.8121 0.8126 0.05752	0.8191 0.8197 0.05802	0.8257 0.8263 0.05849	0.8317 0.8323 0.05892	0.8374 0.8380 0.05932	0.8431 0.8437 0.05969
29.0 -244.15 6.978									0.7995 0.8005 0.05666	0.8079 0.8085 0.05723	0.8152 0.8158 0.05775	0.8220 0.8225 0.05822	0.8283 0.8289 0.05867	0.8341 0.8347 0.05909	0.8394 0.8400 0.05946
29.1 -244.05 7.096									0.8037 0.8043 0.05633	0.8113 0.8119 0.05693	0.8183 0.8189 0.05747	0.8248 0.8254 0.05796	0.8311 0.8317 0.05842	0.8374 0.8380 0.05885	0.8431 0.8437 0.05922
29.2 -243.95 7.216									0.7994 0.8000 0.05603	0.8072 0.8078 0.05658	0.8145 0.8150 0.05711	0.8211 0.8217 0.05760	0.8274 0.8280 0.05808	0.8337 0.8343 0.05855	0.8394 0.8400 0.05902
29.3 -243.85 7.337									0.7949 0.7954 0.05563	0.8031 0.8037 0.05629	0.8106 0.8111 0.05684	0.8174 0.8180 0.05734	0.8241 0.8247 0.05782	0.8307 0.8313 0.05830	0.8374 0.8380 0.05877
29.4 -243.75 7.459									0.7902 0.7908 0.05539	0.7986 0.7994 0.05598	0.8066 0.8071 0.05653	0.8136 0.8141 0.05706	0.8204 0.8210 0.05754	0.8271 0.8277 0.05802	0.8337 0.8343 0.05850

TABLE 16 - CONTINUED

DENSITY OF COMPRESSED LIQUID HYDROGEN - CONTINUED

1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR			TABLE ENTRIES										
			1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A BOILING PRESSURE OF 760 TCRR, DIMENSIONLESS 3. DENSITY, KG/DM ³										
BAR KPa/cm ²	0.800 0.816	1.000 1.020	2.000 2.039	3.000 3.059	4.000 4.079	5.000 5.099	6.000 6.118	7.000 7.136	8.000 8.158	9.000 9.177	10.000 10.197	11.000 11.217	12.000 12.237
29.5 -243.65 7.583									0.7855 0.7860 0.05964	0.7944 0.7950 0.05627	0.8025 0.8031 0.05685	0.8098 0.8104 0.05737	0.8166 0.8172 0.05785
29.6 -243.55 7.709									0.7885 0.7811 0.05929	0.7899 0.7905 0.05959	0.7983 0.7989 0.05655	0.8059 0.8065 0.05709	0.8138 0.8135 0.05759
29.7 -243.45 7.836									0.7754 0.7759 0.05492	0.7852 0.7858 0.05562	0.7940 0.7946 0.05624	0.8019 0.8025 0.05680	0.8092 0.8097 0.05737
29.8 -243.35 7.964									0.7780 0.7786 0.05454	0.7884 0.7810 0.05528	0.7896 0.7901 0.05593	0.7974 0.7984 0.05651	0.8053 0.8059 0.05704
29.9 -243.25 8.094										0.7754 0.7760 0.05493	0.7950 0.7856 0.05561	0.7936 0.7841 0.05621	0.8014 0.8019 0.05676
30.0 -243.15 8.225										0.7782 0.7788 0.05456	0.7883 0.7809 0.05528	0.7892 0.7898 0.05591	0.7973 0.7979 0.05642
30.1 -243.05 8.358										0.7649 0.7655 0.05418	0.7755 0.7760 0.05493	0.7848 0.7853 0.05559	0.7932 0.7937 0.05619
30.2 -242.95 8.493										0.7593 0.7598 0.05378	0.7704 0.7710 0.05457	0.7802 0.7808 0.05527	0.7889 0.7895 0.05588
30.3 -242.85 8.629										0.7536 0.7541 0.05318	0.7653 0.7658 0.05421	0.7755 0.7760 0.05493	0.7846 0.7851 0.05558
30.4 -242.75 8.766										0.7474 0.7479 0.05294	0.7598 0.7604 0.05362	0.7706 0.7711 0.05459	0.7801 0.7807 0.05526
30.5 -242.65 8.906										0.7408 0.7413 0.05268	0.7542 0.7547 0.05342	0.7656 0.7661 0.05423	0.7755 0.7760 0.05493
30.6 -242.55 9.047											0.7484 0.7490 0.05302	0.7604 0.7609 0.05386	0.7708 0.7713 0.05460
30.7 -242.45 9.189											0.7422 0.7427 0.05257	0.7540 0.7546 0.05348	0.7659 0.7664 0.05425
30.8 -242.35 9.333											0.7358 0.7363 0.05212	0.7494 0.7499 0.05308	0.7608 0.7614 0.05389
30.9 -242.25 9.479											0.7288 0.7293 0.05163	0.7435 0.7440 0.05266	0.7556 0.7561 0.05352
31.0 -242.15 9.627											0.7215 0.7220 0.05112	0.7373 0.7375 0.05223	0.7502 0.7508 0.05314
31.1 -242.05 9.776											0.7135 0.7140 0.05054	0.7308 0.7313 0.05177	0.7446 0.7451 0.05274
31.2 -241.95 9.927											0.7053 0.7058 0.04996	0.7240 0.7245 0.05129	0.7387 0.7393 0.05233
31.3 -241.85 10.079												0.7166 0.7171 0.05076	0.7326 0.7331 0.05189
31.4 -241.75 10.234												0.7091 0.7096 0.05023	0.7261 0.7266 0.05143

TABLE 16 - CONTINUED

DENSITY OF COMPRESSED LIQUID HYDROGEN - CONTINUED

1. TEMPERATURE, K 2. TEMPERATURE, C 3. VAPOR PRESSURE, BAR				TABLE ENTRIES										
				1. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A PCILING PRESSURE OF 1 BAR, DIMENSIONLESS 2. DENSITY RATIO, LIQUID DENSITY/DENSITY AT A PCILING PRESSURE OF 760 TCRR, DIMENSIONLESS 3. DENSITY, KG/DM ³										
BAR	0.800	1.000	2.000	3.000	4.000	5.000	6.000	7.000	8.000	9.000	10.000	11.000	12.000	
KP/CM ²	0.816	1.020	2.039	3.059	4.079	5.099	6.118	7.136	8.158	9.177	10.197	11.217	12.237	
31.5												0.7007	0.7193	
-241.55												0.7012	0.7198	
10.390												0.04663	0.05095	
31.6												0.6916	0.7121	
-241.95												0.6921	0.7126	
10.548												0.04699	0.05044	
31.7												0.6816	0.7046	
-241.45												0.6821	0.7051	
10.707												0.04828	0.04991	
31.8												0.6700	0.6965	
-241.35												0.6705	0.6970	
10.869												0.04746	0.04934	
31.9													0.6875	
-241.25													0.6880	
11.032													0.04870	
32.0														0.6779
-241.15														0.6784
11.198														0.04802

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APPENDIX

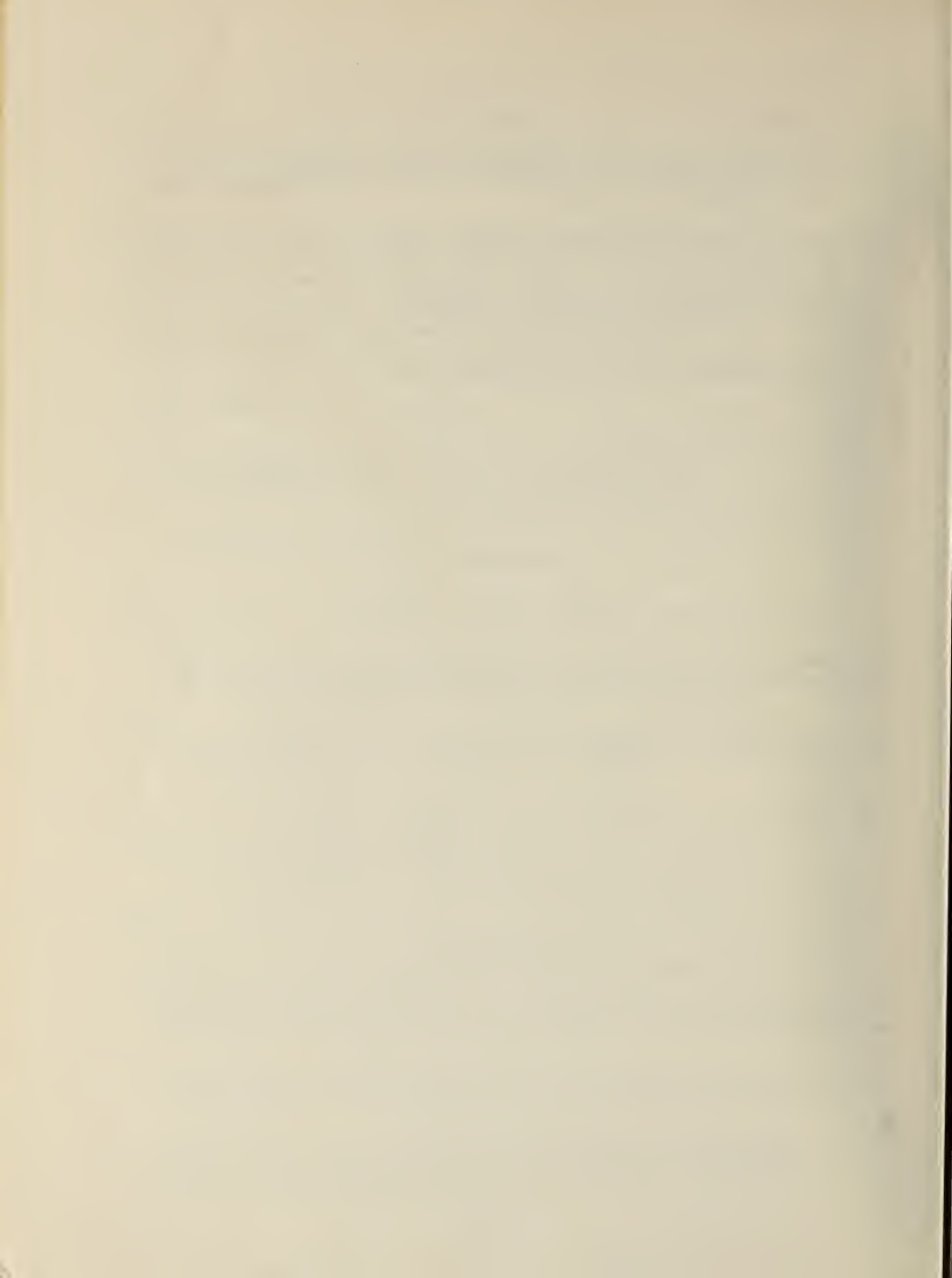
Units and Conversions

The calculations for all fluids were performed with equations whose units were atmospheres, Kelvin, and molar volumes. The various units presented in the tables involved the following conversion factors (IUPAC 1961 and Mechtly 1969):

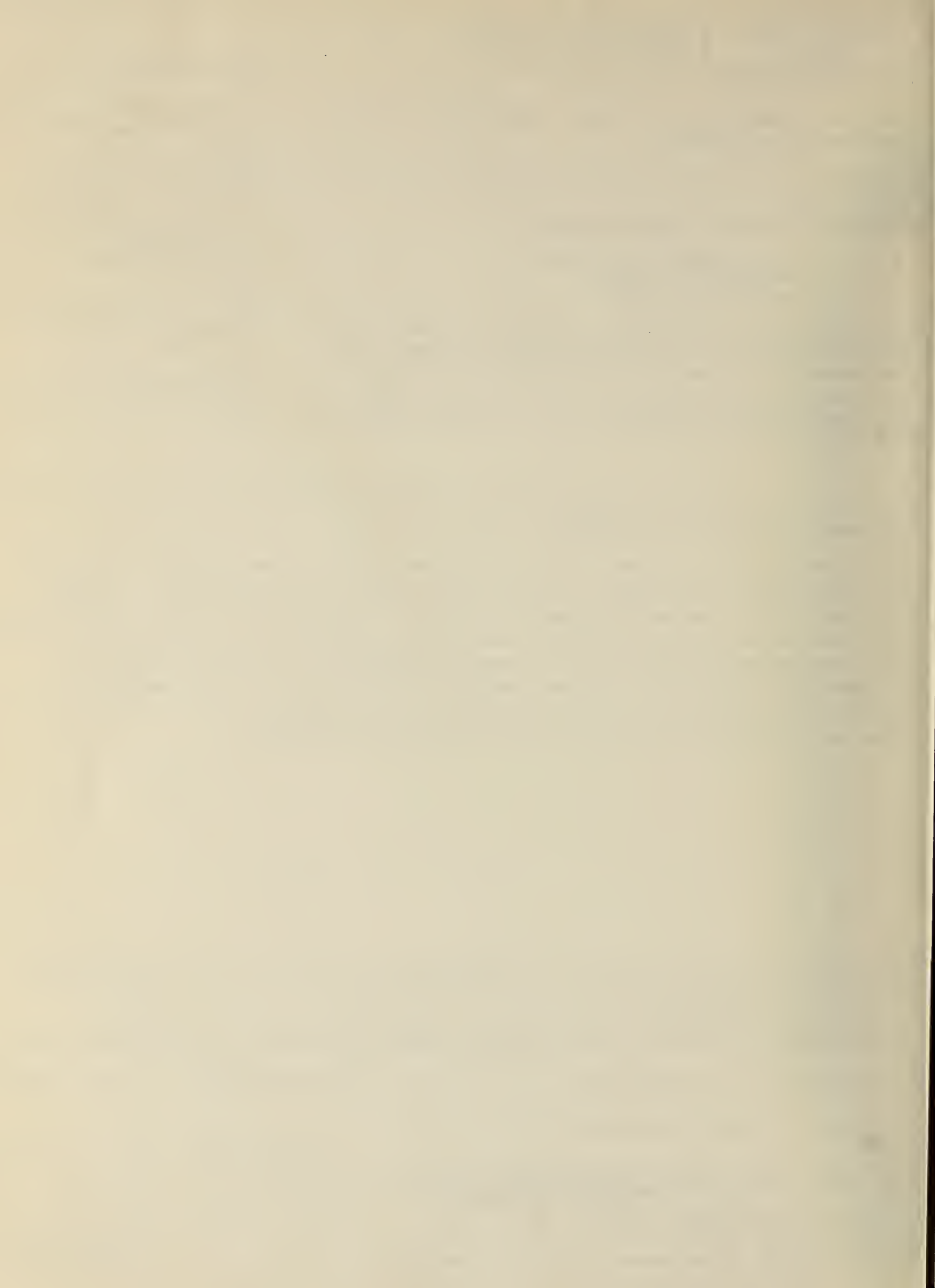
Molecular Weight		Conversion Factors	
Parahydrogen	2.01594	1 atm	= 1.01325 bar
Oxygen	31.9988	760 torr	= 1.01325 bar
Nitrogen	28.016	1 atm	= 1.033227453 kp/cm ²
Argon	39.948	1 kp/cm ²	= 1 kgf/cm ²
		1 kg/dm ³	= 1 kg/litre
		°C	= K - 273.15

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						14. Sponsoring Agency Code	
15. SUPPLEMENTARY NOTES							
16. ABSTRACT (A 200-word or less factual summary of most significant information. If document includes a significant bibliography or literature survey, mention it here.) Tables of pressure, volume, density and temperature for the saturated liquid and for compressed liquid states from the triple point to the critical point, of oxygen, nitrogen, argon, and parahydrogen are presented. The table entries of temperature are in Kelvin and degrees Celsius, table entries in pressure are in bars and kp/cm ² . Volumes or densities are given in several different units, and density ratios are tabulated for each entry. Estimates of the uncertainty for the tabulated data are given. The tables were prepared in the style and in the units preferred by the users. They are intended as source for both technician and engineer.							
17. KEY WORDS (six to twelve entries; alphabetical order; capitalize only the first letter of the first key word unless a proper name; separated by semicolons) Argon; compressed liquid; density; density ratios; liquid; nitrogen, oxygen; parahydrogen; pressure; saturated liquid; tables; temperature; uncertainties; volume.							
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