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Tabulated Values of Cavitation B-Factor for Helium, H₂, N₂, F₂, O₂, Refrigerant 114, and H₂O

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Tabulated Values of Cavitation B-Factor for Helium, H₂, N₂, F₂, O₂, Refrigerant 114, and H₂O

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TABULATED VALUES OF CAVITATION B-FACTOR
FOR HELIUM, H₂, N₂, F₂, O₂, REFRIGERANT 114,
AND H₂O*

J. Hord and R. O. Voth

A brief history is given on the development of the B-factor concept and its application to the design of liquid pumps. Adaptation of the "quasi-static" vaporization model to the cavitation process is discussed; previous methods of computing B-factor are reviewed and a simplified, more precise computation, consistent with the "quasi-static" model, is established. Merits of the different computational techniques are discussed and two of the methods are graphically compared. The best available property data are used to compute B-factors for several fluids over a wide range of temperatures. The results are tabulated as reference data; they are useful in the application of the B-factor concept to the prediction of performance in cavitating liquid pumps.

Key words: Cavitation; cryogenics; pumps.

1. Introduction

This paper deals with the calculation and tabulation of cavitation B-factors for several fluids. B-factor is defined as the ratio of the volume of vapor to the volume of liquid involved in the cavitation

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process in hydraulic equipment. Cavitation is the formation of a vapor phase within a flowing liquid and results from a reduction in pressure. The effects of fluid properties on the cavitating performance of hydraulic equipment have been the subject of considerable study [1-9],¹ and it was from some of these studies that the current B-factor² concept evolved. Use of the B-factor to predict cavitating performance of pumping machinery is usually attributed to Stahl and Stepanoff [2], although other authors [1, 3] independently arrived at approximately identical results [4]. Stepanoff [5, 6], and more recently Ruggeri and Moore [10-12], have shouldered the burden of providing the link between concept and application. It was primarily the work of Stahl and Stepanoff [2, 5, 6] that motivated Gelder et al. [13] to extend the B-factor concept. The predictive method developed by Gelder and co-workers has proven highly successful [10, 11]. The "quasi-static" theory upon which their solution is based is amazingly simple and obviously deficient from a theoretical viewpoint; nevertheless, it is apparent that their solution, though simplified, contains the significant groups of dimensionless parameters. A current research program [14], endeavoring to upgrade the thermo-static approach outlined by Gelder et al. [13] and to account for dynamic effects via entrainment theory, has substantiated the latter statement. Although the B-factor approach, from a theoretical viewpoint, is not entirely compatible with the physical processes of cavitation, it is well established, adequately documented [10-13] and provides good results [10, 11]. Current efforts [14] to obtain a more compatible theory have

¹Numbers in brackets indicate references at the end of this paper.

²B-factor, as we have chosen to call it in this paper, has also been called "Cavitation tendency parameter," "Cavitation tendency index," "thermal cavitation parameter," "thermal cavitation criterion," and "thermal criterion" in the literature.

not yet resulted in a predictive technique that is less complex or less dependent upon experimental data. For these reasons it is apparent that the B-factor approach will be used until such time as a major theoretical breakthrough occurs; consequently, there is a need for B-factor reference data, calculated in the most consistent and theoretically tenable manner from the best available thermodynamic properties of fluids. It is the intent of this paper to establish an improved B-factor calculation method and to tabulate the computerized results for several fluids of interest. The calculation method may easily be extended to other fluids. The reader should see references [10-13] for application of the B-factor concept to equipment design, or to the prediction of cavitating performance of existing hydraulic equipment. Water and refrigerant 114 were selected for inclusion in this report because of their obvious advantages, relative to the cryogenic fluids, in obtaining the experimental data necessary for application of the B-factor predictive technique [10, 11].

2. Analytical Approaches

The simplest derivation of the B-factor concept originated with Stahl and Stepanoff [2]. Hollander [4] showed that various B-factor solutions [1, 2, 3] were approximately equivalent and could be represented by a "quasi-static" model; this model features a unit mass of saturated liquid completely filling an insulated cylinder with a tightly-fitting piston. When the piston is lifted some of the liquid is vaporized. This model was used by Gelder et al. [13] to improve upon the computational technique of Stepanoff [5] and will be used again in this paper to establish a technique for computing B-factor that is simple and more precise than the method of Gelder et al. The basic

formulation derived by Stepanoff [5] is

$$B \equiv \frac{V_v}{V_l} \simeq \Delta h_{v,c} T_{fl} \left(\rho_l / \rho_v L \right)^2 \quad (1)$$

Gelder et al. [13] point out that eq (1) is only an approximation because it cannot account for change in fluid properties as the fluid temperature (and pressure) drops as a result of vaporization; also, it neglects change in enthalpy of the vapor phase and reduction of liquid mass during the vaporization process. Consequently, eq (1) may be a rather crude expression when the fluid properties vary appreciably with temperature; this is particularly true for liquid hydrogen where the results may easily be in error by a factor of two. Gelder et al. improved upon this situation--by accounting for changing fluid properties, change in vapor enthalpy and reduction of liquid mass--with an incremental calculation method [13]. This method uses the "quasi-static" model of Hollander [4] and starts with a unit mass of liquid in the cylinder; an energy balance, describing the fluid expansion attained by lifting the piston within the cylinder, results in the following expression,

$$w_n L_n = \left(1 - w_n - \sum_{i=2}^n w_{i-1} \right) \Delta H_{f,n} + \left(\sum_{i=2}^n w_{i-1} \right) \Delta H_{g,n} \quad (2a)$$

This expression accounts for changing fluid properties with temperature depression if suitably small increments of temperature or pressure are chosen for each step-wise calculation. The left hand side of eq (2a) represents the energy required to vaporize a fraction of liquid. The first term on the right hand side of eq (2a) accounts for the change

in enthalpy of the remaining liquid mass--the summation component accounts for liquid vaporized in previous steps. The last term on the right hand side of eq (2a) provides for change in enthalpy of vapor formed in previous steps. By choosing suitably small increments of pressure and using eq (2a) to compute the fraction of vapor formed with each incremental change of pressure, we can calculate the B-factor for any finite pressure reduction with the following expression [13],

$$B_n = \left(\frac{\rho_l}{\rho_v} \right)_n \left(\sum_{i=1}^n w_i \right) / \left(1 - \sum_{i=1}^n w_i \right). \quad (2b)$$

If the pressure increments are sufficiently small, the vaporization process may be considered to proceed simultaneously along the saturated liquid and saturated vapor boundaries on a temperature-entropy diagram. It will be shown later that we have all of the ingredients for a simple isentropic expansion. The incremental calculation method has obvious disadvantages--a large number of entries into fluid property data are required to compute a B-factor because very small steps are required to obtain good results, and recondensation of vapor during the expansion process is neglected. Repeated entries into fluid property data are undesirable for two reasons: 1) the calculation is too lengthy to be performed by hand and 2) the probability of error is enhanced because the uncertainty in the property data is magnified in each entry from which we obtain a very small difference in two large values of enthalpy (corresponding to the enthalpy at both ends of the pressure increment). Referring again to the cylinder-piston model of Hollander, we may stipulate the basic assumptions of the "quasi-static" model as follows: 1) the flow is steady, irrotational, and

frictionless and 2) the vaporization process is steady, one-dimensional, adiabatic, frictionless, and the fluid is continuously in stable thermodynamic equilibrium.¹ By definition, this is an isentropic process. Therefore, when the piston is lifted, we will assume that the fluid undergoes an isentropic expansion. Referring to figure 1, the mass-entropy balance may be written

$$m_{f1} s_{f1} = m_{f2} s_{f2} + m_{v2} s_{v2} , \quad (3)$$

and conservation of mass requires that

$$m_{f1} = m_{f2} + m_{v2} . \quad (4)$$

Combining eqs. (3) and (4) and multiplying the result by ρ_{f2} / ρ_{v2} to obtain vapor and liquid volumes,

$$B = \left(\frac{\rho_{f2}}{\rho_{v2}} \right) \left(\frac{m_{v2}}{m_{f2}} \right) = \left(\frac{\rho_{f2}}{\rho_{v2}} \right) \frac{s_{f1} - s_{f2}}{s_{v2} - s_{f1}} . \quad (5)$$

This expression does not rely upon summation of incremental steps to account for changing fluid properties, vaporization of liquid, or recondensation of vapor. The B-factor resulting from any finite pressure (or corresponding temperature) depression may be calculated in one simple step. The accuracy of the results is limited only by the accuracy of the fluid P-V-T data, and charts, tables, etc.,

¹ A more rigorous definition of a quasi-static process states that the system is at all times infinitesimally near a state of stable thermodynamic equilibrium, and that all states traversed by the system are describable on thermodynamic coordinates referring to the system as a whole.

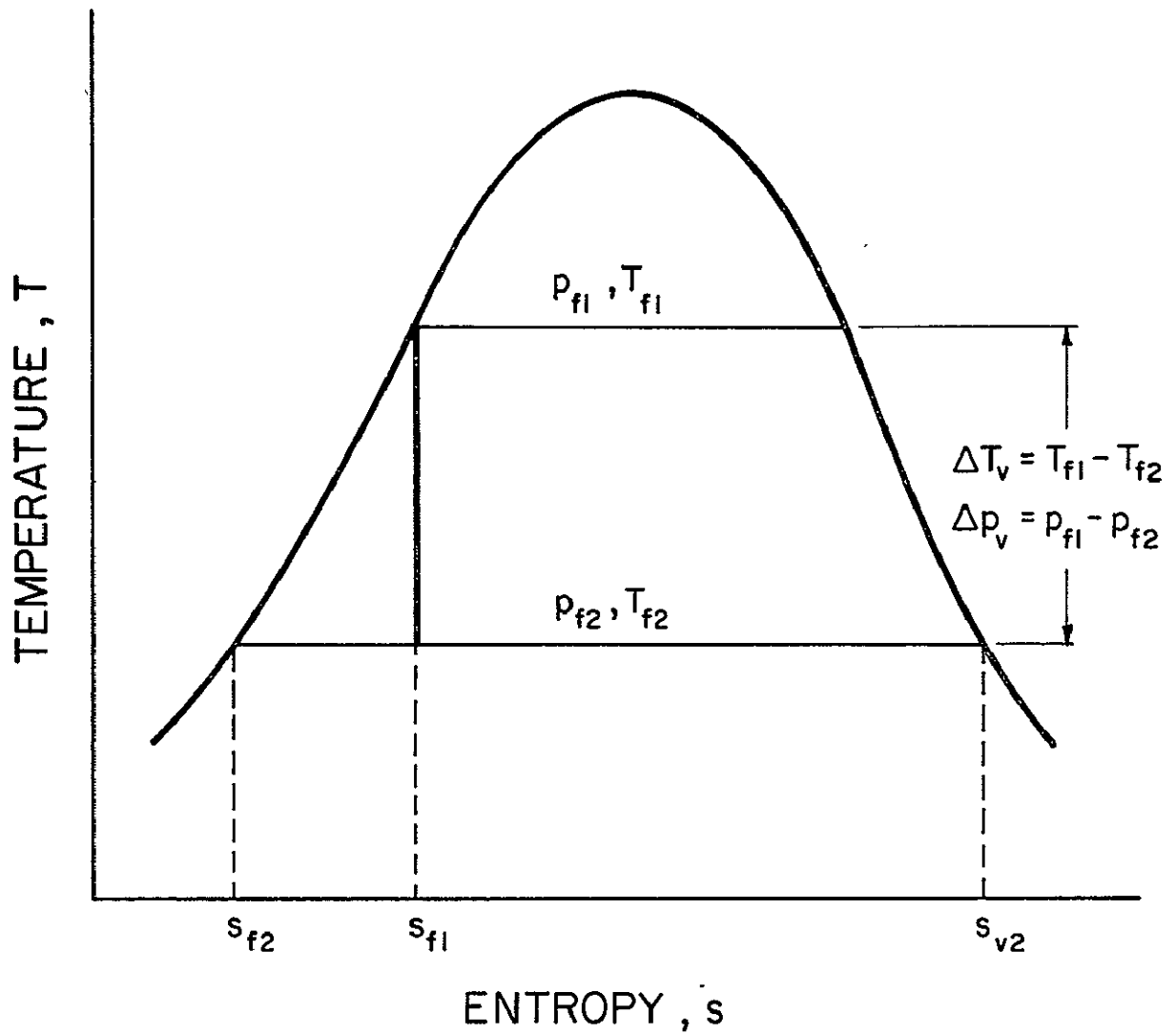


Figure 1. Typical isentropic vaporization process with appropriate nomenclature.

may easily be developed from appropriate equations of state or tabulated thermodynamic properties. The accuracy of the results calculated from eq (2b) is limited not only by the accuracy of the fluid P-V-T data but by the number of entries into the property data and the size of the incremental pressure step.

3. Comparison of Analyses

As pointed out in the previous section, eq (1) has some serious shortcomings; it is adequate for very small pressure depressions, but grossly inadequate for large pressure changes if the fluid properties vary appreciably. This point is emphasized by referring to figures 2 and 3; the nonlinearity of these B-factor curves results from the change in fluid properties as the pressure (or temperature) of the fluid is reduced. For the purpose of illustration, temperature depressions, rather than pressure or pressure-head depressions, are plotted on figures 2 and 3. As evidenced by figures 2 and 3, larger temperature (or pressure) depressions result in greater departures from the linear relationship prescribed by eq (1).

Equation (2b) adequately describes the thermodynamic process of vaporization, but requires extremely small pressure increments to obtain precise results; consequently, it has the disadvantage of requiring a large number of computations to obtain the B-factor for a desired pressure change. For example, some of the data points calculated by eq (2b) and plotted on figure 2 required the summation of more than 600 incremental steps. While these laborious computations may easily be handled on a computer, a large number of entries into fluid property data are required; these repeated entries coupled with the summation technique enhances the possibility of calculational error. Because small pressure increments demand repeated entries into property

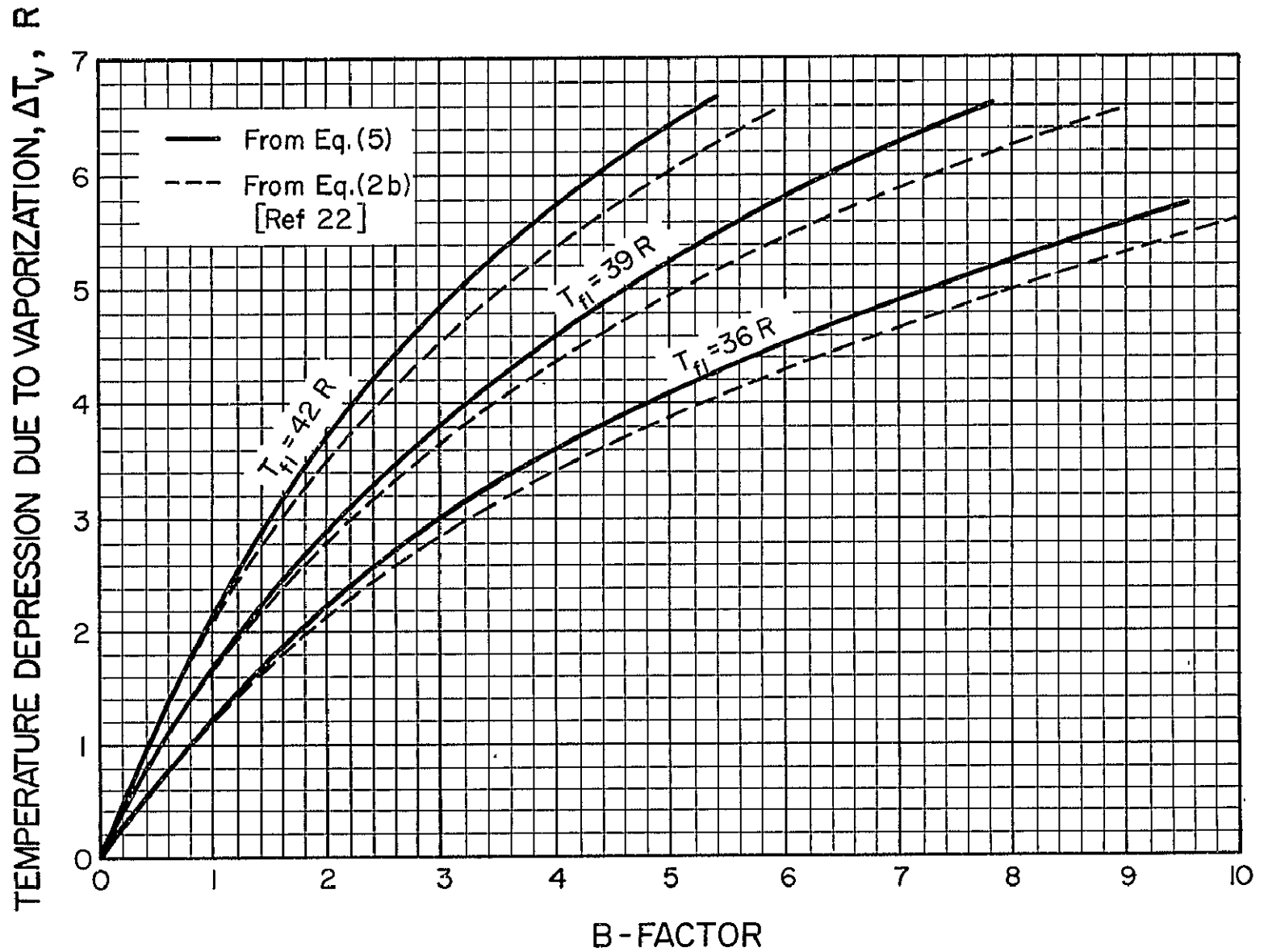


Figure 2. B-factor and corresponding temperature depressions resulting from vaporization of liquid hydrogen.

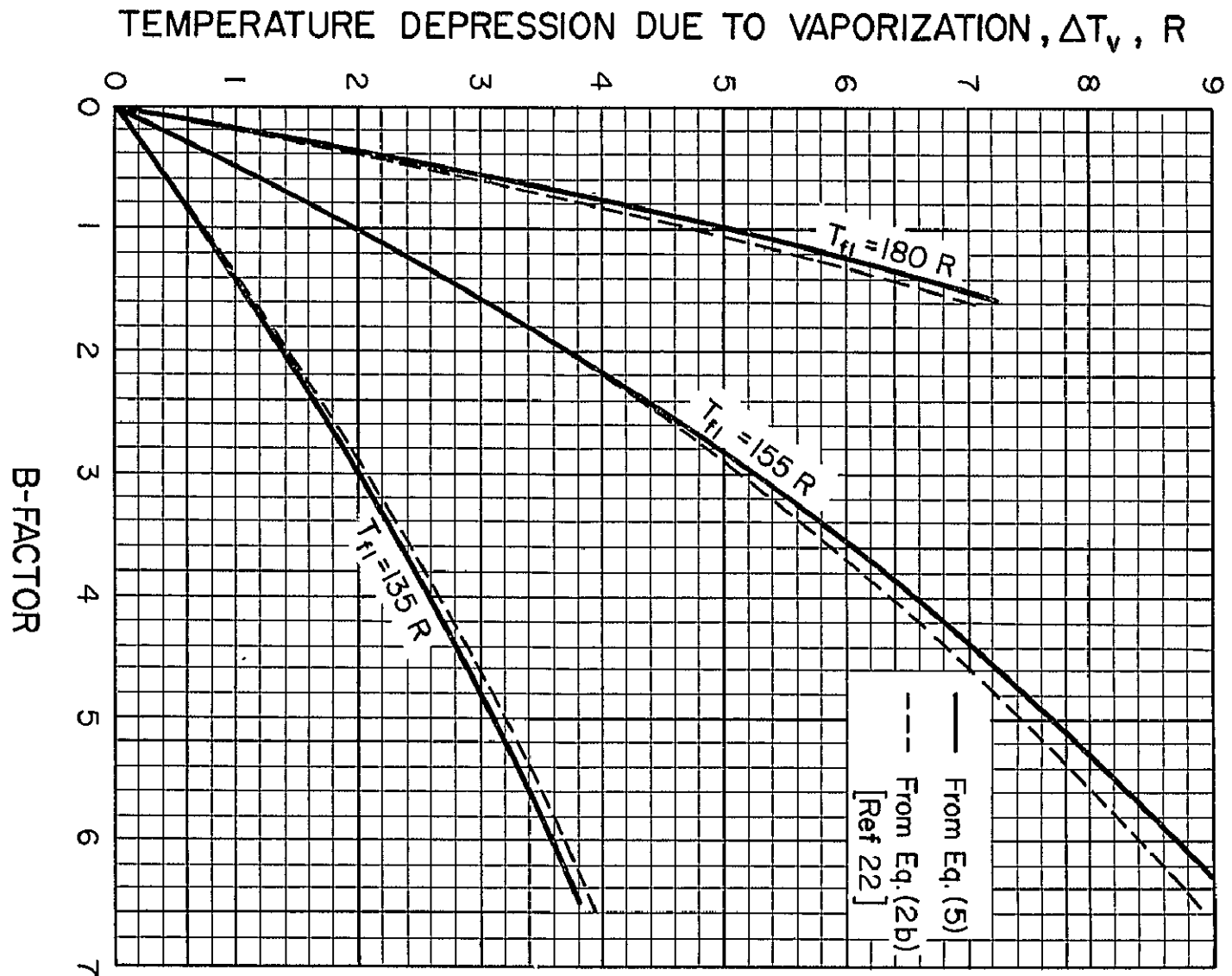


Figure 3. B-factor and corresponding temperature depressions resulting from vaporization of liquid nitrogen.

data, there should exist an optimum step increment that will minimize the calculational error for any specific fluid and fluid temperature. Unfortunately, there is no way of determining this optimum step increment, and one resorts to "very small steps."

Equation (5) is a simplified, more direct approach to the problem and a single computation will provide a B-factor for any desired pressure change. Consistent with the "quasi-static" model under consideration, eq (5) offers the ultimate in calculational precision. From a thermodynamic viewpoint, an isentropic process requires that the fluid be continuously near a state of stable thermodynamic equilibrium; therefore, the vaporization process must proceed, in infinitesimal steps, along the saturated liquid and vapor boundaries, (see figure 1). Such a process automatically compensates for variations in fluid properties, vaporization of a certain fraction of liquid, and re-condensation of a portion of the vapor. Because eq (2b) is an approximate calculational method, it is not possible to make an analytical comparison of eqs (2b) and (5); however, both equations have been used to calculate B-factors for hydrogen and nitrogen and the results are graphically compared on figures 2 and 3. Figure 2 indicates that the entropy approach, eq (5), consistently produces slightly smaller hydrogen B-factors than those obtained from eq (2b). This trend was expected because eq (2b) does not account for recondensing vapor and was used with pressure-head increments of one foot--smaller pressure increments probably would have forced closer agreement with eq (5). Figure 3 shows that eq (2b) sometimes produces smaller nitrogen B-factors than those obtained from an isentropic expansion; this is thermodynamically impossible because it would require an adiabatic process with a reduction in entropy. Thus, the importance of calculational technique

and accurate property data are made clear. Good property data are essential because the B-factor computations rely upon differences in entropies (or enthalpies) at two different temperatures; consequently, the uncertainty in B-factor can be considerably greater than the uncertainty in the basic property data.

Designers and manufacturers of fluid machinery frequently express pressure in terms of pressure-head; this practice is to be discouraged in computations related to the cavitation process and will be abandoned in the results tabulated in this paper. Use of pressure-head should be discontinued for the same reason that eq (1) is not appropriate for general use; i. e. , fluid properties change as the fluid temperature is reduced and density of the liquid can vary appreciably. Therefore, one cannot select a single value of density to convert head-difference (Δh_v) to pressure-difference (Δp_v). To work in terms of pressure-head, it is necessary to construct a head-temperature thermodynamic equilibrium curve to replace the usual pressure-temperature equilibrium curve; Δh_v is translated into initial and final pressure-heads, then into initial and final temperatures from which the initial and final saturated liquid densities are obtained, and finally the initial and final pressures may be calculated to determine Δp_v . Mathematically, the pressure depression due to vaporization is given by $\Delta p_v = \rho_{f1} h_{f1} - \rho_{f2} h_{f2}$, where $\Delta p_v = p_{f1} - p_{f2}$, with the corresponding head depression $\Delta h_v = h_{f1} - h_{f2}$, and the corresponding temperature depression $\Delta T_v = T_{f1} - T_{f2}$. Obviously, it is less confusing to communicate directly with the fluid properties tables and deal only with pressures and temperatures. Therefore, pressure (and corresponding temperature) depressions are tabulated in this paper in pressure and temperature units.

4. Computational Techniques and Results

Equation (5) was used to calculate B-factors for prescribed pressure depressions in selected fluids. The best available property data [15-21] were used for these fluids. Almost the entire saturated liquid temperature range was covered for each fluid; i. e., from temperatures just above the triple-point to temperatures just below the critical-point. B-factors with dimensionless values of ten or more were calculated for each fluid at closely spaced initial-temperatures, T_{f1} . In practice, B-factors will normally have values less than five and computation at closely spaced initial-temperatures facilitates interpolation at intermediate temperature values in the tables. The tabular data presentation was chosen because it provides in the most concise form the maximum temperature range, B-factor range, and precision at close initial-temperature intervals. Graphs of the desired range and precision may quickly and easily be constructed from the tabulated data, see figures 2 and 3. In the predictive technique developed by Ruggeri and Moore [10-13] it is necessary to select a B-factor when initial-temperature (T_{f1}) and pressure-depression (Δp_v) are known; also, it will be necessary to determine pressure-depression when initial-temperature and B-factor are given. Again, graphs may be constructed from the tables to perform these functions or one may interpolate directly in the tables. An example problem, demonstrating use of the tabulated data, is given in this section. Table 1 lists the range and interval of initial fluid temperature, T_{f1} , for data tabulated in the appendices.

To accommodate the vast majority of people expected to use these data, the English system of units is employed; conversion to the metric system is accomplished by use of the multiplicative factors

Table 1. Range and interval of initial temperature, T_{fl} , for data tabulated in the Appendices.

fluid	T_{fl} interval	T_{fl} range
Helium	0.2 R	5.6 to 9.0 R
Hydrogen	0.5 R	26.5 to 56.0 R
Nitrogen	1.0 R	121.0 to 180.0 R
	2.0 R	180.0 to 216.0 R
Fluorine	1.0 R	131.0 to 190.0 R
	2.0 R	190.0 to 250.0 R
Oxygen	1.0 R	141.0 to 200.0 R
	2.0 R	200.0 to 272.0 R
Refrigerant 114	5.0 R	425.0 to 750.0 R
Water	5.0 R	535.0 to 680.0 R
	10.0 R	680.0 to 1160.0 R

given on the first page of the appended tables. Nomenclature used in the computer output, as it appears in the appendices, is also defined on the first page of the appendices. To minimize confusion, all nomenclature in this paper was made consistent with that of Ruggeri and Moore [10-13].

Wherever possible, computer source decks for fluid property data were used to perform the B-factor calculations. For all of the cryogenic fluids [15-19] these source decks computed fluid properties from appropriate equations of state. The best available tabulated data [20, 21] were used for refrigerant 114 and water, and fluid properties intermediate to the tabulated values were derived by a computer interpolation routine. The interpolation routine used for water and refrigerant 114 is given in Appendix H. While the B-factors presented here are calculated from the best available property data in the most precise manner, the actual error in computed B-factor is not readily defined. This situation results because the uncertainty in fluid property data varies from fluid-to-fluid and from temperature-to-temperature for any specific fluid; also the uncertainty in B-factor varies with the magnitude of the pressure depression--i.e., whether the entropy differences are small or large. Thus, it is not practical to state the uncertainty in computed B-factor without doing so for each and every computed data point--a rather formidable task. Suffice it to say that the tabulated B-factors are the best attainable, consistent with the "quasi-static" theory.

Example Problem

As an example we will assume that a B-factor is desired for liquid hydrogen when the initial temperature (T_{fl}) is 36.8 R and the

pressure depression (Δp_v) is 5.7 psi. From appendix B, page B7, the following values may be withdrawn:

$$\left\{ \begin{array}{l} T_{fl} = 37.00 \text{ R, } \Delta p_v = 5.543 \text{ psia, } B = 2.085 \\ T_{fl} = 37.00 \text{ R, } \Delta p_v = 6.008 \text{ psia, } B = 2.379 \end{array} \right\}$$

$$\left\{ \begin{array}{l} T_{fl} = 36.50 \text{ R, } \Delta p_v = 5.644 \text{ psia, } B = 2.546 \\ T_{fl} = 36.50 \text{ R, } \Delta p_v = 6.063 \text{ psia, } B = 2.884 \end{array} \right\}$$

Using straight line interpolation in the B's for each initial temperature gives the following results at a pressure depression of 5.7 psia:

$$T_{fl} = 37.00 \text{ R, } B = 2.1843$$

$$T_{fl} = 36.50 \text{ R, } B = 2.5912$$

Finally, a straight line interpolation in the B's at the initial temperature of 36.8 R results in a B-factor value of 2.3470.

The same type of interpolation can be used to obtain pressure depression if initial temperature and B-factor are known. If, for instance, the initial temperature is 36.8 R and B-factor is 2.3470, the following bracketing values would be withdrawn from the appendix:

$$\left\{ \begin{array}{l} T_{fl} = 37.00 \text{ R, } \Delta p_v = 5.543 \text{ psia, } B = 2.085 \\ T_{fl} = 37.00 \text{ R, } \Delta p_v = 6.008 \text{ psia, } B = 2.379 \end{array} \right\}$$

$$\left\{ \begin{array}{l} T_{fl} = 36.50 \text{ R, } \Delta p_v = 5.209 \text{ psia, } B = 2.229 \\ T_{fl} = 36.50 \text{ R, } \Delta p_v = 5.644 \text{ psia, } B = 2.546 \end{array} \right\}$$

Now we will interpolate in Δp_v using the B-factor value of 2.3470 and obtain the following for each initial temperature:

$$T_{fl} = 37.00 \text{ R, } \Delta p_v = 5.9574 \text{ psia}$$

$$T_{fl} = 36.50 \text{ R, } \Delta p_v = 5.3710 \text{ psia}$$

Finally, interpolating in these values for an initial temperature of 36.8 R gives a pressure depression of 5.7228 psia.

The difference between the 5.7228 psia and the originally assumed pressure depression of 5.7 psia is the error introduced in six linear interpolations. This error is only 0.4%, and in general the linear interpolation outlined here will provide maximum precision; however, for convenience, a graph of bracketing values may be plotted using an expanded scale and values read from the graph. Temperature depression can be found using the same interpolation technique used in this pressure depression example.

B-factors for the fluids treated in this paper have been plotted on figures 4a and 4b for comparison; an initial-temperature (T_{fl}) near the normal-boiling-point of each fluid was chosen for the comparison.

5. Nomenclature

B = ratio of vapor to liquid volume associated with the formation and sustenance of a fixed vaporous cavity in a liquid

$$[\equiv V_v / V_l]$$

c_p = specific heat of liquid at constant pressure

h = pressure head [$\equiv p / \rho$]

Δh_v = reduction in saturation pressure head, caused by vaporization

$$[\equiv h_{f1} - h_{f2} = p_{f1} / \rho_{f1} - p_{f2} / \rho_{f2}]$$

- ΔH_f = change in specific enthalpy of liquid
 ΔH_g = change in specific enthalpy of vapor (gas)
 L = latent heat of vaporization
 m = mass
 p = pressure
 Δp_v = reduction in saturation pressure of fluid involved in the cavitation process [$\equiv p_{f1} - p_{f2}$]
 s = specific entropy
 T = temperature
 ΔT_v = reduction in saturation temperature corresponding to the reduction in saturation pressure, Δp_v
 V_v = volume of saturated vapor associated with the formation and sustenance of a fixed vaporous cavity in a liquid
 V_l = volume of saturated liquid associated with the formation and sustenance of a fixed vaporous cavity in a liquid.
 w = vaporized fraction of a unit mass of liquid involved in the cavitation process (defined by eq (2a))
 ρ = density
 ρ_v = density of saturated vapor
 ρ_l = density of saturated liquid

Subscripts

- $f1$ = denotes saturated liquid conditions at initial pressure
 $f2$ = denotes saturated liquid conditions at final pressure
 i = 1, 2, 3, . . . , n
 n = last increment in a sum
 $v2$ = denotes saturated vapor conditions at final pressure

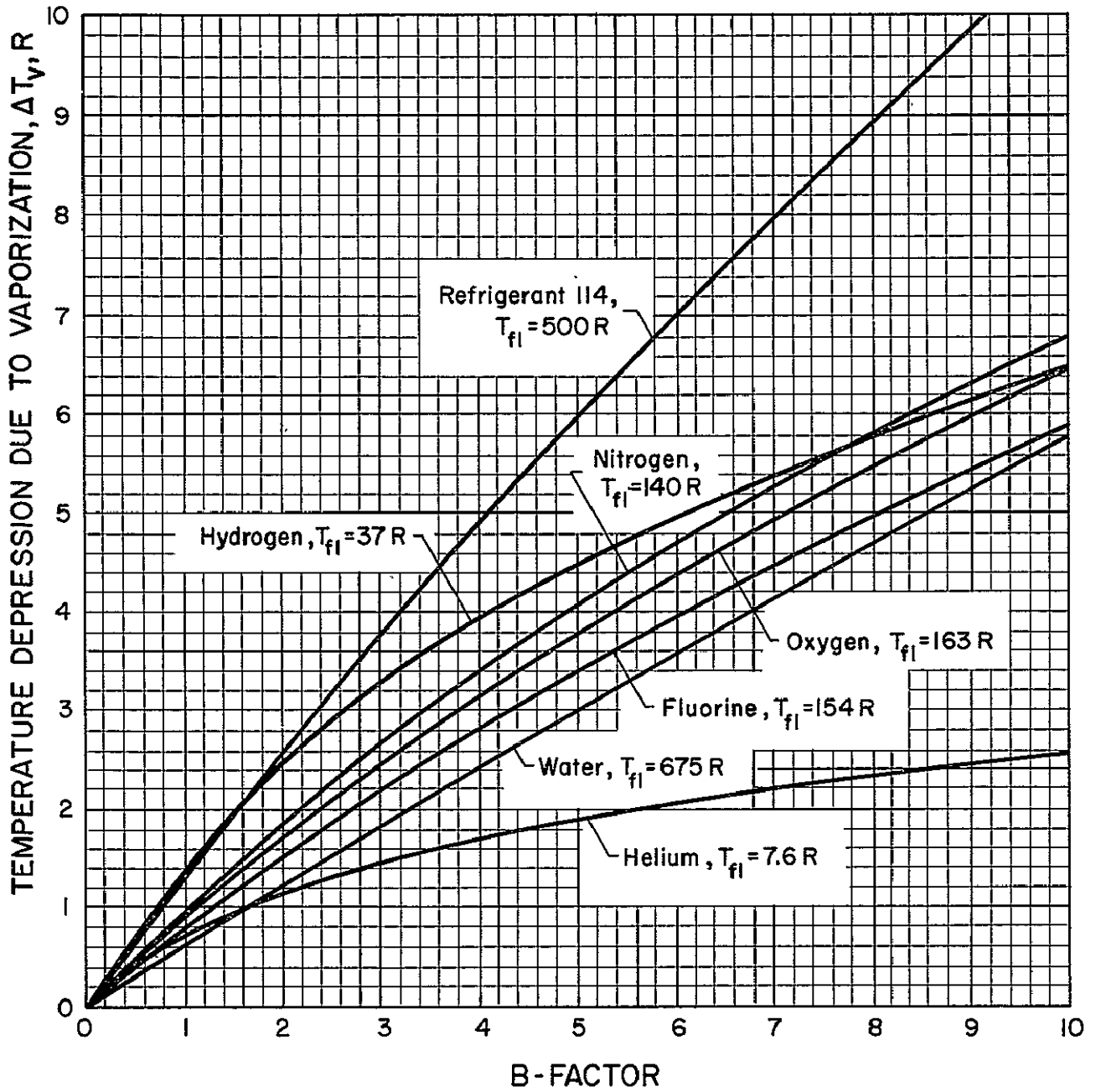


Figure 4a. B-factor and corresponding temperature depressions resulting from isentropic vaporization of various liquids.

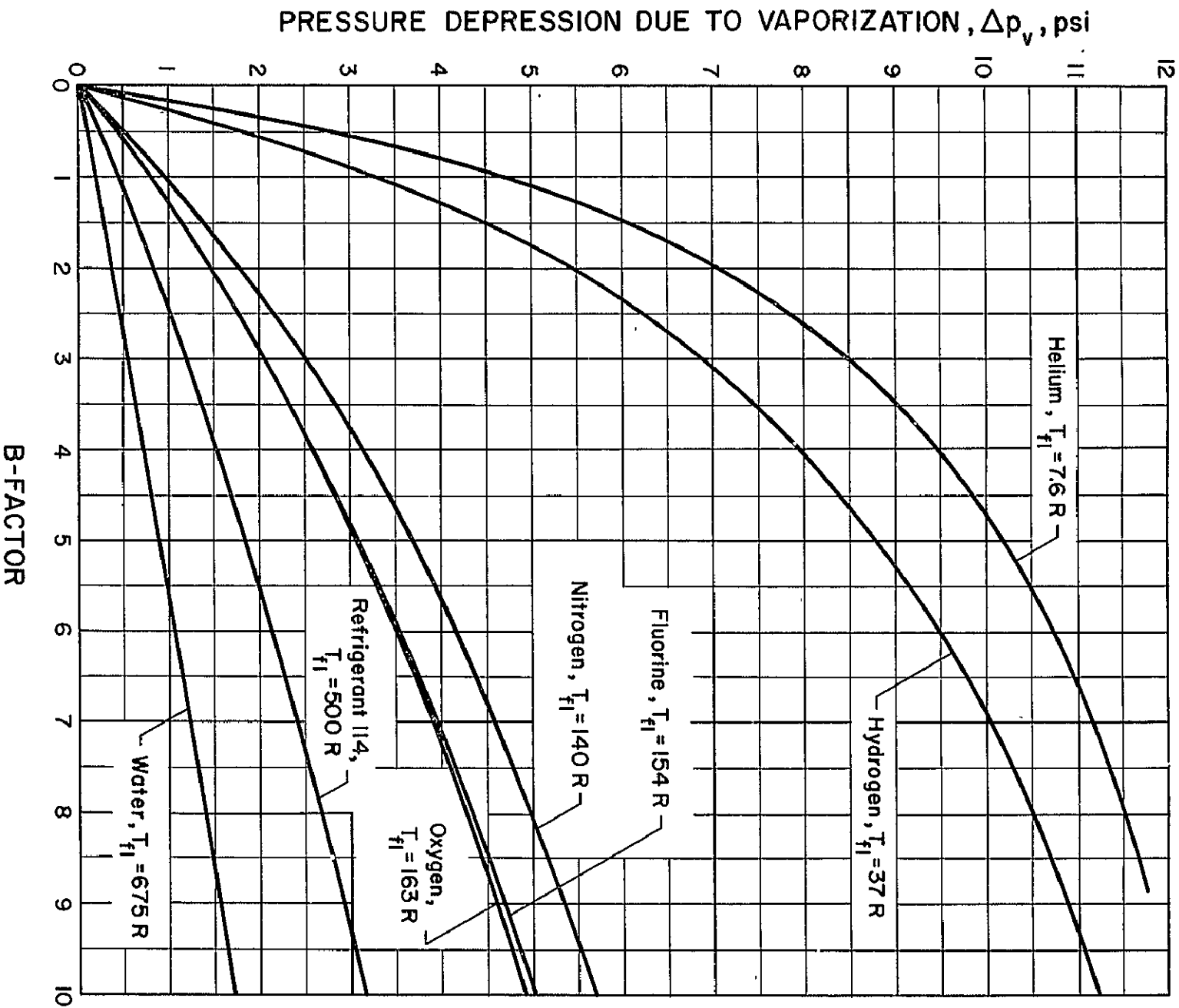


Figure 4b. B-factor and corresponding pressure depressions resulting from isentropic vaporization of various liquids.

6. References

1. Fisher, R. C., Discussion of "A survey of modern centrifugal pump practice for oilfield and oil refining services" by N. Tetlow, Proc. Inst. Mech. Engrs. 152, 305-306 (Jan. - Dec. 1945).
2. Stahl, H. A., and Stepanoff, A. J., Thermodynamic aspects of cavitation in centrifugal pumps, Trans. ASME 78, No. 8, 1691-1693 (Nov. 1956).
3. Jacobs, R. B., Prediction of symptoms of cavitation, J. Res. Nat. Bur. Stand. (U.S.), 65C (Eng. and Instr.), No. 3, 147-156 (July - Sept. 1961).
4. Hollander, A., Thermodynamic aspects of cavitation in centrifugal pumps, ARS J. 32, 1594-1595 (Oct. 1962).
5. Stepanoff, A. J., Cavitation properties of liquids, ASME J. of Engr. for Power 86, No. 2, 195-200 (Apr. 1964).
6. Stepanoff, A. J., Centrifugal and Axial Flow Pumps, pp. 256-265 (John Wiley and Sons, Inc., New York, N. Y., 1957).
7. Saleman, Victor, Cavitation and NPSH requirements of various liquids, ASME J. of Basic Engr. 81, No. 2, 167-180 (June 1959).
8. Spraker, W. A., The effects of fluid properties on cavitation in centrifugal pumps, ASME J. of Engr. for Power 87, No. 3, 309-318 (July 1965).
9. Wilcox, W. W., Meng, P. R., and Davis, R. L., Performance of an inducer-impeller combination at or near boiling conditions for liquid hydrogen, Book, Advances in Cryogenic Engineering 8, Ed. K.D. Timmerhaus, pp. 446-455 (Plenum Press Inc., New York, N. Y. 1963).

10. Ruggeri, R. S., and Moore, R. D., Method for prediction of pump cavitation performance for various liquids, liquid temperatures, and rotative speeds, NASA Tech. Note D-5292 (June 1969).
11. Moore, R. D., Prediction of pump cavitation performance (Proc. Int. Symp. on the Fluid Mechanics and Design of Turbomachinery, Pennsylvania State University, University Park, Pennsylvania, Aug. 30 - Sept. 3, 1970)--to be published by NASA.
12. Moore, R. D., and Ruggeri, R. S., Prediction of thermodynamic effects of developed cavitation based on liquid hydrogen and freon-114 data in scaled venturis, NASA Tech. Note D-4899 (Nov. 1968).
13. Gelder, T. F., Ruggeri, R. S., and Moore, R. D., Cavitation similarity considerations based on measured pressure and temperature depressions in cavitated regions of freon-114, NASA Tech. Note D-3509 (July 1966).
14. Billet, M. L., Thermodynamic effects on developed cavitation in water and freon-113 (M.S. Thesis, Pennsylvania State Univ., Dept. of Aerospace Engr., University Park, Pennsylvania, Mar. 1970).
15. McCarty, R. D., Thermodynamic functions for helium 4 for temperatures from 2 to 1500 K with pressures to 100 MN/m² (1000 atmospheres), to be published as Nat. Bur. Stand. (U.S.), Monograph.
16. Roder, H. M., Weber, L.A., and Goodwin, R.D., Thermodynamic and related properties of parahydrogen from the triple point to 100°K at pressures to 340 atmospheres, Nat. Bur. Stand. (U.S.), Monogr. 94, (Aug. 1965).

17. Strobridge, T. R., The thermodynamic properties of nitrogen from 64 to 300°K between 0.1 and 200 atmospheres, Nat. Bur. Stand. (U.S.), Tech. Note 129 (Jan. 1962).
18. Prydz, Rolf, and Straty, G. C., The thermodynamic properties of compressed gaseous and liquid fluorine, Nat. Bur. Stand. (U.S.), Tech. Note 392 (Oct. 1970).
19. Weber, L. A., P-V-T, Thermodynamic and related properties of oxygen from the triple point to 300 K at pressures to 33 MN/m^2 , J. Res. Nat. Bur. Stand. (U.S.), 74A (Phys. and Chem.), No. 1, 93-129 (Jan. - Feb. 1970).
20. Thermodynamic Properties of Refrigerants, pp. 76-101 (American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc., 345 East 47th St., New York, N. Y., 1969).
21. ASME Steam Tables, Second Edition, pp. 83-88 (The American Society of Mechanical Engineers, 345 East 47th St., New York, N. Y., 1967).
22. Ruggeri, R. S., and Britsch, W. R., Private Communication to the authors.

7. Appendices

(Tabulated Computations and Computer Interpolation Routine)

Symbols Used in Tables:

- B = B-factor computed from eq (5)
- DPV = $\Delta p_v = p_{f1} - p_{f2}$ = reduction in saturation pressure of fluid involved in the cavitation process
- DTV = $\Delta T_v = T_{f1} - T_{f2}$ = reduction in saturation temperature corresponding to the reduction in pressure, DPV
- PF1 = p_{f1} = initial saturation pressure
- TF1 = T_{f1} = initial saturation temperature

Conversion Factors:

- (degrees Rankine) (5/9) = degrees Kelvin
- (psi) (6.894757×10^3) = Newton/meter²

Note: The number of digits given in the tables are not justified on the basis of computational accuracy, but are presented to maintain internal consistency.

Appendix A: B-factors for helium, calculated from eq (5).

B FACTORS FOR HELIUM

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
9.00	28.347		8.80	25.995		8.60	23.786	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.14	1.661	0.179	0.12	1.342	0.133	0.12	1.260	0.124
0.28	3.252	0.360	0.24	2.635	0.271	0.24	2.472	0.255
0.42	4.775	0.547	0.36	3.879	0.416	0.36	3.638	0.395
0.56	6.231	0.743	0.48	5.076	0.570	0.48	4.759	0.545
0.70	7.622	0.951	0.60	6.226	0.733	0.60	5.835	0.707
0.84	8.951	1.175	0.72	7.332	0.908	0.72	6.869	0.881
0.98	10.220	1.415	0.84	8.394	1.095	0.84	7.861	1.069
1.12	11.430	1.674	0.96	9.414	1.297	0.96	8.812	1.273
1.26	12.583	1.956	1.08	10.392	1.513	1.08	9.724	1.494
1.40	13.682	2.263	1.20	11.330	1.747	1.20	10.597	1.734
1.54	14.727	2.598	1.32	12.229	2.000	1.32	11.433	1.994
1.68	15.720	2.964	1.44	13.090	2.275	1.44	12.233	2.276
1.82	16.663	3.367	1.56	13.913	2.572	1.56	12.996	2.588
1.96	17.558	3.809	1.68	14.701	2.896	1.68	13.725	2.927
2.10	18.405	4.297	1.80	15.453	3.248	1.80	14.421	3.297
2.24	19.206	4.836	1.92	16.170	3.632	1.92	15.083	3.703
2.38	19.963	5.434	2.04	16.855	4.051	2.04	15.713	4.149
2.52	20.676	6.097	2.16	17.506	4.510	2.16	16.311	4.639
2.66	21.348	6.836	2.28	18.125	5.013	2.28	16.879	5.179
2.80	21.979	7.661	2.40	18.714	5.566	2.40	17.417	5.775
2.94	22.570	8.585	2.52	19.271	6.174	2.52	17.927	6.434
3.08	23.123	9.624	2.64	19.800	6.844	2.64	18.407	7.164
3.22	23.639	10.794	2.76	20.299	7.584	2.76	18.861	7.976
3.36	24.119	12.117	2.88	20.771	8.404	2.88	19.288	8.879
3.50	24.565	13.619	3.00	21.216	9.314	3.00	19.689	9.888
3.64	24.978	15.332	3.12	21.634	10.327	3.12	20.065	11.018
3.78	25.359	17.293	3.24	22.026	11.456	3.24	20.416	12.286
3.92	25.709	19.549	3.36	22.394	12.720	3.36	20.745	13.714
4.06	26.031	22.159	3.48	22.738	14.139	3.48	21.051	15.329
8.40	21.712		8.20	19.769		8.00	17.951	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.12	1.181	0.120	0.10	0.925	0.099	0.10	0.864	0.101
0.24	2.317	0.249	0.20	1.819	0.206	0.20	1.700	0.210
0.36	3.408	0.389	0.30	2.683	0.320	0.30	2.506	0.328
0.48	4.456	0.540	0.40	3.518	0.443	0.40	3.285	0.455
0.60	5.461	0.704	0.50	4.325	0.574	0.50	4.037	0.592
0.72	6.426	0.881	0.60	5.104	0.716	0.60	4.762	0.740
0.84	7.351	1.074	0.70	5.856	0.868	0.70	5.461	0.900
0.96	8.237	1.285	0.80	6.581	1.032	0.80	6.135	1.074
1.08	9.085	1.514	0.90	7.280	1.209	0.90	6.784	1.261
1.20	9.897	1.764	1.00	7.954	1.400	1.00	7.408	1.464
1.32	10.672	2.038	1.10	8.602	1.606	1.10	8.008	1.684
1.44	11.413	2.337	1.20	9.227	1.828	1.20	8.585	1.922
1.56	12.119	2.665	1.30	9.827	2.069	1.30	9.139	2.181
1.68	12.792	3.026	1.40	10.404	2.329	1.40	9.671	2.463
1.80	13.433	3.422	1.50	10.958	2.612	1.50	10.181	2.769
1.92	14.042	3.858	1.60	11.490	2.918	1.60	10.669	3.102
2.04	14.620	4.340	1.70	11.999	3.250	1.70	11.136	3.465
2.16	15.168	4.872	1.80	12.487	3.611	1.80	11.582	3.861
2.28	15.687	5.461	1.90	12.954	4.003	1.90	12.008	4.294
2.40	16.177	6.114	2.00	13.401	4.431	2.00	12.415	4.768
2.52	16.639	6.840	2.10	13.827	4.898	2.10	12.802	5.286
2.64	17.075	7.650	2.20	14.234	5.408	2.20	13.171	5.856
2.76	17.484	8.555	2.30	14.621	5.965	2.30	13.521	6.481
2.88	17.869	9.568	2.40	14.989	6.576	2.40	13.853	7.170
3.00	18.228	10.706	2.50	15.340	7.247	2.50	14.168	7.929
3.12	18.565	11.989	2.60	15.672	7.984	2.60	14.467	8.768
3.24	18.878	13.439	2.70	15.987	8.796	2.70	14.748	9.698
3.36	19.169	15.085	2.80	16.285	9.692	2.80	15.014	10.729
3.48	19.440	16.959	2.90	16.567	10.683	2.90	15.265	11.876

B FACTORS FOR HELIUM

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
7.80	16.251		7.60	14.665		7.40	13.188	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.10	0.807	0.105	0.10	0.752	0.110	0.08	0.561	0.092
0.20	1.586	0.218	0.20	1.477	0.229	0.16	1.106	0.191
0.30	2.338	0.341	0.30	2.176	0.359	0.24	1.635	0.297
0.40	3.063	0.475	0.40	2.850	0.500	0.32	2.148	0.411
0.50	3.762	0.619	0.50	3.498	0.654	0.40	2.646	0.533
0.60	4.435	0.776	0.60	4.123	0.822	0.48	3.128	0.664
0.70	5.084	0.946	0.70	4.723	1.004	0.56	3.595	0.805
0.80	5.708	1.131	0.80	5.300	1.203	0.64	4.048	0.956
0.90	6.309	1.331	0.90	5.854	1.421	0.72	4.485	1.118
1.00	6.886	1.550	1.00	6.386	1.657	0.80	4.909	1.293
1.10	7.440	1.787	1.10	6.895	1.916	0.88	5.318	1.481
1.20	7.971	2.045	1.20	7.383	2.199	0.96	5.714	1.683
1.30	8.481	2.327	1.30	7.850	2.508	1.04	6.096	1.900
1.40	8.969	2.634	1.40	8.297	2.847	1.12	6.464	2.134
1.50	9.436	2.970	1.50	8.723	3.219	1.20	6.820	2.386
1.60	9.883	3.337	1.60	9.130	3.626	1.28	7.163	2.658
1.70	10.309	3.738	1.70	9.517	4.075	1.36	7.492	2.951
1.80	10.715	4.178	1.80	9.886	4.568	1.44	7.810	3.268
1.90	11.103	4.660	1.90	10.236	5.112	1.52	8.115	3.610
2.00	11.471	5.190	2.00	10.568	5.712	1.60	8.409	3.980
2.10	11.822	5.774	2.10	10.883	6.376	1.68	8.690	4.381
2.20	12.154	6.417	2.20	11.181	7.111	1.76	8.960	4.814
2.30	12.469	7.127	2.30	11.463	7.928	1.84	9.219	5.285
2.40	12.767	7.913	2.40	11.729	8.837	1.92	9.467	5.796
2.50	13.049	8.785	2.50	11.979	9.850	2.00	9.704	6.352
2.60	13.315	9.753	2.60	12.215	10.983	2.08	9.931	6.957
2.70	13.565	10.832	2.70	12.436	12.253	2.16	10.148	7.616
2.80	13.801	12.036	2.80	12.643	13.681	2.24	10.354	8.335
2.90	14.022	13.385	2.90	12.836	15.292	2.32	10.551	9.122

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
7.20	11.816		7.00	10.543		6.80	9.365	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.08	0.521	0.098	0.08	0.482	0.105	0.06	0.335	0.085
0.16	1.026	0.204	0.16	0.949	0.219	0.12	0.662	0.175
0.24	1.516	0.318	0.24	1.402	0.342	0.18	0.981	0.270
0.32	1.991	0.440	0.32	1.840	0.475	0.24	1.292	0.372
0.40	2.450	0.572	0.40	2.263	0.619	0.30	1.595	0.480
0.48	2.895	0.714	0.48	2.672	0.774	0.36	1.891	0.594
0.56	3.326	0.867	0.56	3.068	0.942	0.42	2.178	0.716
0.64	3.743	1.032	0.64	3.450	1.123	0.48	2.459	0.845
0.72	4.145	1.209	0.72	3.819	1.318	0.54	2.731	0.983
0.80	4.534	1.401	0.80	4.174	1.530	0.60	2.997	1.128
0.88	4.909	1.608	0.88	4.517	1.760	0.66	3.255	1.284
0.96	5.271	1.831	0.96	4.847	2.008	0.72	3.506	1.448
1.04	5.620	2.071	1.04	5.164	2.277	0.78	3.750	1.624
1.12	5.956	2.331	1.12	5.469	2.568	0.84	3.987	1.810
1.20	6.288	2.612	1.20	5.763	2.884	0.90	4.217	2.009
1.28	6.591	2.916	1.28	6.044	3.228	0.96	4.440	2.220
1.36	6.891	3.246	1.36	6.315	3.601	1.02	4.657	2.445
1.44	7.178	3.602	1.44	6.573	4.007	1.08	4.867	2.685
1.52	7.454	3.989	1.52	6.821	4.449	1.14	5.071	2.940
1.60	7.718	4.409	1.60	7.059	4.931	1.20	5.268	3.212
1.68	7.972	4.866	1.68	7.285	5.457	1.26	5.459	3.503
1.76	8.214	5.362	1.76	7.502	6.032	1.32	5.644	3.813
1.84	8.446	5.903	1.84	7.708	6.661	1.38	5.823	4.144
1.92	8.668	6.493	1.92	7.905	7.350	1.44	5.996	4.498
2.00	8.879	7.137	2.00	8.092	8.107	1.50	6.163	4.877
2.08	9.081	7.842	2.08	8.270	8.939	1.56	6.324	5.282
2.16	9.273	8.614	2.16	8.439	9.854	1.62	6.480	5.717
2.24	9.455	9.460	2.24	8.599	10.865	1.68	6.630	6.182
2.32	9.629	10.391	2.32	8.751	11.982	1.74	6.775	6.681

B FACTORS FOR HELIUM

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
6.60	8.280		6.40	7.282		6.20	6.368	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.06	0.308	0.092	0.06	0.283	0.101	0.04	0.173	0.074
0.12	0.609	0.191	0.12	0.558	0.209	0.08	0.343	0.151
0.18	0.902	0.295	0.18	0.826	0.325	0.12	0.509	0.232
0.24	1.187	0.407	0.24	1.086	0.448	0.16	0.673	0.316
0.30	1.465	0.526	0.30	1.340	0.580	0.20	0.833	0.405
0.36	1.735	0.652	0.36	1.586	0.720	0.24	0.990	0.497
0.42	1.998	0.787	0.42	1.825	0.870	0.28	1.144	0.594
0.48	2.254	0.930	0.48	2.058	1.031	0.32	1.295	0.695
0.54	2.502	1.083	0.54	2.283	1.202	0.36	1.443	0.802
0.60	2.744	1.245	0.60	2.502	1.385	0.40	1.589	0.913
0.66	2.979	1.419	0.66	2.714	1.580	0.44	1.731	1.029
0.72	3.206	1.604	0.72	2.920	1.789	0.48	1.870	1.151
0.78	3.428	1.801	0.78	3.120	2.013	0.52	2.007	1.278
0.84	3.642	2.011	0.84	3.313	2.252	0.56	2.140	1.412
0.90	3.850	2.235	0.90	3.500	2.508	0.60	2.271	1.552
0.96	4.052	2.475	0.96	3.681	2.782	0.64	2.399	1.698
1.02	4.247	2.731	1.02	3.855	3.076	0.68	2.525	1.852
1.08	4.436	3.004	1.08	4.025	3.391	0.72	2.647	2.012
1.14	4.619	3.296	1.14	4.188	3.729	0.76	2.767	2.181
1.20	4.796	3.609	1.20	4.345	4.092	0.80	2.884	2.358
1.26	4.967	3.944	1.26	4.498	4.482	0.84	2.999	2.543
1.32	5.132	4.302	1.32	4.644	4.901	0.88	3.111	2.738
1.38	5.291	4.686	1.38	4.785	5.352	0.92	3.221	2.942
1.44	5.445	5.098	1.44	4.921	5.837	0.96	3.328	3.156
1.50	5.594	5.541	1.50	5.052	6.361	1.00	3.432	3.380
1.56	5.737	6.016	1.56	5.178	6.925	1.04	3.534	3.616
1.62	5.874	6.527	1.62	5.299	7.535	1.08	3.634	3.864
1.68	6.007	7.077	1.68	5.415	8.194	1.12	3.731	4.124
1.74	6.134	7.669	1.74	5.526	8.907	1.16	3.825	4.398
6.00	5.536		5.80	4.780		5.60	4.097	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.04	0.157	0.082	0.04	0.142	0.092	0.02	0.064	0.051
0.08	0.311	0.168	0.08	0.282	0.188	0.04	0.128	0.103
0.12	0.463	0.258	0.12	0.418	0.289	0.06	0.191	0.157
0.16	0.611	0.352	0.16	0.552	0.396	0.08	0.253	0.212
0.20	0.756	0.452	0.20	0.683	0.508	0.10	0.315	0.269
0.24	0.898	0.556	0.24	0.811	0.625	0.12	0.376	0.327
0.28	1.037	0.665	0.28	0.936	0.749	0.14	0.436	0.387
0.32	1.174	0.779	0.32	1.059	0.879	0.16	0.496	0.448
0.36	1.308	0.899	0.36	1.179	1.016	0.18	0.555	0.511
0.40	1.438	1.025	0.40	1.296	1.159	0.20	0.613	0.576
0.44	1.567	1.157	0.44	1.410	1.311	0.22	0.671	0.642
0.48	1.692	1.295	0.48	1.522	1.470	0.24	0.728	0.710
0.52	1.814	1.440	0.52	1.632	1.637	0.26	0.784	0.780
0.56	1.934	1.593	0.56	1.739	1.813	0.28	0.840	0.851
0.60	2.052	1.753	0.60	1.843	1.998	0.30	0.895	0.925
0.64	2.166	1.921	0.64	1.945	2.193	0.32	0.949	1.001
0.68	2.278	2.098	0.68	2.045	2.398	0.34	1.003	1.078
0.72	2.388	2.283	0.72	2.142	2.615	0.36	1.056	1.158
0.76	2.495	2.478	0.76	2.237	2.842	0.38	1.109	1.240
0.80	2.599	2.683	0.80	2.329	3.082	0.40	1.161	1.324
0.84	2.701	2.898	0.84	2.419	3.335	0.42	1.212	1.410
0.88	2.801	3.125	0.88	2.507	3.602	0.44	1.263	1.498
0.92	2.898	3.363	0.92	2.593	3.884	0.46	1.313	1.589
0.96	2.993	3.613	0.96	2.676	4.181	0.48	1.362	1.683
1.00	3.085	3.877	1.00	2.757	4.494	0.50	1.411	1.779
1.04	3.175	4.155	1.04	2.836	4.825	0.52	1.459	1.877
1.08	3.263	4.447	1.08	2.913	5.175	0.54	1.507	1.979
1.12	3.349	4.755	1.12	2.988	5.545	0.56	1.554	2.083
1.16	3.432	5.080	1.16	3.060	5.936	0.58	1.601	2.189

Appendix B: B-factors for parahydrogen, calculated from eq (5).

B FACTORS FOR PARAHYDROGEN

56.00 142.026			55.50 136.069			55.00 130.298		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.55	6.543	0.123	0.55	6.338	0.119	0.55	6.139	0.117
1.10	12.861	0.252	1.10	12.457	0.245	1.10	12.063	0.241
1.65	18.960	0.389	1.65	18.362	0.379	1.65	17.780	0.373
2.20	24.846	0.533	2.20	24.060	0.521	2.20	23.294	0.514
2.75	30.525	0.686	2.75	29.557	0.673	2.75	28.614	0.665
3.30	36.004	0.850	3.30	34.859	0.835	3.30	33.746	0.827
3.85	41.289	1.024	3.85	39.974	1.009	3.85	38.693	1.001
4.40	46.387	1.210	4.40	44.905	1.195	4.40	43.461	1.188
4.95	51.302	1.409	4.95	49.656	1.394	4.95	48.052	1.388
5.50	56.037	1.622	5.50	54.232	1.608	5.50	52.471	1.604
6.05	60.596	1.851	6.05	58.635	1.838	6.05	56.721	1.836
6.60	64.984	2.096	6.60	62.870	2.085	6.60	60.805	2.087
7.15	69.204	2.360	7.15	66.939	2.352	7.15	64.728	2.357
7.70	73.258	2.643	7.70	70.848	2.638	7.70	68.493	2.648
8.25	77.152	2.948	8.25	74.598	2.948	8.25	72.103	2.963
8.80	80.889	3.277	8.80	78.195	3.281	8.80	75.563	3.303
9.35	84.472	3.631	9.35	81.641	3.642	9.35	78.875	3.671
9.90	87.904	4.014	9.90	84.940	4.032	9.90	82.044	4.071
10.45	91.190	4.428	10.45	88.096	4.455	10.45	85.073	4.504
11.00	94.333	4.875	11.00	91.112	4.913	11.00	87.964	4.974
11.55	97.337	5.360	11.55	93.992	5.409	11.55	90.723	5.485
12.10	100.204	5.886	12.10	96.739	5.949	12.10	93.352	6.042
12.65	102.939	6.457	12.65	99.356	6.537	12.65	95.855	6.648
13.20	105.545	7.078	13.20	101.848	7.176	13.20	98.235	7.310
13.75	108.025	7.754	13.75	104.217	7.874	13.75	100.496	8.033
14.30	110.383	8.491	14.30	106.467	8.636	14.30	102.641	8.825
14.85	112.623	9.295	14.85	108.601	9.470	14.85	104.674	9.693
15.40	114.747	10.174	15.40	110.624	10.384	15.40	106.597	10.645
15.95	116.760	11.137	15.95	112.538	11.386	15.95	108.415	11.692

54.50 124.709			54.00 119.297			53.50 114.057		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.55	5.944	0.115	0.55	5.754	0.114	0.55	5.569	0.114
1.10	11.679	0.238	1.10	11.305	0.236	1.10	10.941	0.236
1.65	17.212	0.369	1.65	16.659	0.368	1.65	16.124	0.368
2.20	22.549	0.510	2.20	21.825	0.509	2.20	21.121	0.510
2.75	27.697	0.662	2.75	26.805	0.661	2.75	25.937	0.664
3.30	32.661	0.824	3.30	31.606	0.825	3.30	30.576	0.829
3.85	37.445	0.999	3.85	36.229	1.002	3.85	35.042	1.008
4.40	42.052	1.187	4.40	40.678	1.192	4.40	39.337	1.201
4.95	46.487	1.390	4.95	44.959	1.397	4.95	43.466	1.410
5.50	50.752	1.608	5.50	49.073	1.619	5.50	47.433	1.636
6.05	54.851	1.844	6.05	53.025	1.859	6.05	51.241	1.880
6.60	58.788	2.098	6.60	56.818	2.118	6.60	54.893	2.145
7.15	62.567	2.373	7.15	60.457	2.398	7.15	58.393	2.433
7.70	66.192	2.670	7.70	63.943	2.702	7.70	61.746	2.744
8.25	69.665	2.991	8.25	67.282	3.031	8.25	64.953	3.083
8.80	72.991	3.339	8.80	70.477	3.389	8.80	68.019	3.451
9.35	76.172	3.717	9.35	73.531	3.777	9.35	70.948	3.851
9.90	79.213	4.127	9.90	76.447	4.199	9.90	73.743	4.287
10.45	82.118	4.572	10.45	79.230	4.659	10.45	76.407	4.763
11.00	84.888	5.057	11.00	81.882	5.160	11.00	78.944	5.282
11.55	87.529	5.585	11.55	84.408	5.706	11.55	81.357	5.849
12.10	90.043	6.160	12.10	86.810	6.303	12.10	83.650	6.470
12.65	92.434	6.788	12.65	89.092	6.956	12.65	85.826	7.151
13.20	94.706	7.476	13.20	91.258	7.672	13.20	87.889	7.899
13.75	96.861	8.228	13.75	93.311	8.457	13.75	89.842	8.720
14.30	98.904	9.053	14.30	95.254	9.319	14.30	91.689	9.625
14.85	100.837	9.959	14.85	97.091	10.269	14.85	93.432	10.622
15.40	102.665	10.956	15.40	98.825	11.315	15.40	95.075	11.723
15.95	104.389	12.054	15.95	100.459	12.469	15.95	96.616	12.941

B FACTORS FOR PARAHYDROGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		
53.00	108.986		52.50	104.079		52.00	99.329		
	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
	0.55	5.390	0.114	0.50	4.750	0.104	0.50	4.596	0.105
	1.10	10.589	0.237	1.00	9.346	0.216	1.00	9.042	0.218
	1.65	15.603	0.370	1.50	13.791	0.336	1.50	13.339	0.339
	2.20	20.436	0.514	2.00	18.089	0.464	2.00	17.491	0.470
	2.75	25.091	0.669	2.50	22.241	0.603	2.50	21.501	0.611
	3.30	29.572	0.837	3.00	26.251	0.752	3.00	25.372	0.763
	3.85	33.883	1.018	3.50	30.121	0.913	3.50	29.105	0.927
	4.40	38.027	1.215	4.00	33.855	1.085	4.00	32.704	1.103
	4.95	42.008	1.428	4.50	37.454	1.271	4.50	36.172	1.293
	5.50	45.830	1.659	5.00	40.922	1.471	5.00	39.512	1.498
	6.05	49.496	1.909	5.50	44.261	1.687	5.50	42.725	1.719
	6.60	53.010	2.180	6.00	47.475	1.919	6.00	45.815	1.958
	7.15	56.376	2.475	6.50	50.565	2.170	6.50	48.784	2.217
	7.70	59.596	2.796	7.00	53.534	2.440	7.00	51.635	2.496
	8.25	62.675	3.145	7.50	56.385	2.733	7.50	54.372	2.798
	8.80	65.617	3.524	8.00	59.121	3.049	8.00	56.995	3.125
	9.35	68.423	3.938	8.50	61.745	3.391	8.50	59.508	3.479
	9.90	71.099	4.390	9.00	64.258	3.761	9.00	61.914	3.863
	10.45	73.647	4.883	9.50	66.664	4.162	9.50	64.215	4.280
	11.00	76.072	5.423	10.00	68.965	4.597	10.00	66.414	4.733
	11.55	78.376	6.014	10.50	71.164	5.068	10.50	68.513	5.226
	12.10	80.562	6.662	11.00	73.263	5.583	11.00	70.516	5.762
	12.65	82.635	7.374	11.50	75.266	6.141	11.50	72.423	6.346
	13.20	84.598	8.156	12.00	77.173	6.750	12.00	74.239	6.984
	13.75	86.454	9.018	12.50	78.989	7.413	12.50	75.966	7.681
	14.30	88.207	9.969	13.00	80.716	8.137	13.00	77.606	8.443
	14.85	89.859	11.020	13.50	82.355	8.929	13.50	79.161	9.278
	15.40	91.408	12.183	14.00	83.911	9.796	14.00	80.635	10.193
	15.95	92.874	13.472	14.50	85.385	10.746	14.50	82.024	11.198

51.50	94.733		51.00	90.287		50.50	85.990		
	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
	0.50	4.445	0.106	0.50	4.297	0.108	0.50	4.152	0.110
	1.00	8.743	0.221	1.00	8.450	0.224	1.00	8.162	0.228
	1.50	12.895	0.344	1.50	12.460	0.350	1.50	12.033	0.357
	2.00	16.905	0.477	2.00	16.330	0.486	2.00	15.766	0.495
	2.50	20.775	0.621	2.50	20.063	0.632	2.50	19.365	0.646
	3.00	24.509	0.776	3.00	23.663	0.791	3.00	22.833	0.808
	3.50	28.108	0.943	3.50	27.131	0.963	3.50	26.172	0.984
	4.00	31.576	1.124	4.00	30.470	1.148	4.00	29.386	1.175
	4.50	34.915	1.319	4.50	33.683	1.348	4.50	32.476	1.382
	5.00	38.129	1.530	5.00	36.773	1.565	5.00	35.445	1.605
	5.50	41.219	1.757	5.50	39.743	1.800	5.50	38.296	1.848
	6.00	44.188	2.004	6.00	42.594	2.054	6.00	41.032	2.111
	6.50	47.039	2.270	6.50	45.330	2.330	6.50	43.656	2.397
	7.00	49.775	2.559	7.00	47.953	2.629	7.00	46.169	2.707
	7.50	52.399	2.871	7.50	50.467	2.953	7.50	48.575	3.044
	8.00	54.912	3.210	8.00	52.873	3.306	8.00	50.876	3.411
	8.50	57.318	3.578	8.50	55.174	3.688	8.50	53.075	3.810
	9.00	59.619	3.978	9.00	57.373	4.105	9.00	55.174	4.246
	9.50	61.818	4.412	9.50	59.472	4.559	9.50	57.177	4.720
	10.00	63.917	4.885	10.00	61.474	5.053	10.00	59.084	5.239
	10.50	65.919	5.400	10.50	63.382	5.593	10.50	60.900	5.805
	11.00	67.827	5.961	11.00	65.198	6.182	11.00	62.627	6.425
	11.50	69.643	6.575	11.50	66.924	6.827	11.50	64.267	7.105
	12.00	71.370	7.245	12.00	68.564	7.533	12.00	65.822	7.850
	12.50	73.009	7.978	12.50	70.120	8.307	12.50	67.296	8.669
	13.00	74.565	8.782	13.00	71.593	9.156	13.00	68.685	9.569
	13.50	76.039	9.664	13.50	72.982	10.090	13.50	70.006	10.561
	14.00	77.428	10.632	14.00	74.303	11.118	14.00	71.253	11.654
	14.50	78.749	11.698	14.50	75.550	12.251	14.50	72.428	12.840

B FACTORS FOR PARAHYDROGEN

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
50.00	81.837		49.50	77.827		49.00	73.957	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.45	3.615	0.100	0.45	3.489	0.102	0.45	3.366	0.105
0.90	7.117	0.208	0.90	6.868	0.212	0.90	6.624	0.218
1.35	10.508	0.324	1.35	10.137	0.331	1.35	9.774	0.339
1.80	13.789	0.448	1.80	13.299	0.459	1.80	12.820	0.470
2.25	16.963	0.582	2.25	16.357	0.596	2.25	15.762	0.612
2.70	20.032	0.726	2.70	19.311	0.744	2.70	18.604	0.764
3.15	22.997	0.880	3.15	22.163	0.903	3.15	21.347	0.929
3.60	25.861	1.047	3.60	24.917	1.075	3.60	23.992	1.106
4.05	28.626	1.226	4.05	27.573	1.260	4.05	26.543	1.297
4.50	31.293	1.418	4.50	30.134	1.459	4.50	29.000	1.504
4.95	33.864	1.626	4.95	32.602	1.674	4.95	31.366	1.726
5.40	36.342	1.849	5.40	34.978	1.905	5.40	33.643	1.967
5.85	38.728	2.090	5.85	37.264	2.155	5.85	35.832	2.227
6.30	41.025	2.349	6.30	39.463	2.424	6.30	37.936	2.507
6.75	43.233	2.628	6.75	41.576	2.716	6.75	39.956	2.811
7.20	45.356	2.930	7.20	43.606	3.030	7.20	41.894	3.140
7.65	47.394	3.256	7.65	45.553	3.370	7.65	43.753	3.496
8.10	49.351	3.608	8.10	47.420	3.738	8.10	45.533	3.882
8.55	51.227	3.988	8.55	49.209	4.137	8.55	47.238	4.300
9.00	53.024	4.400	9.00	50.922	4.569	9.00	48.868	4.754
9.45	54.745	4.846	9.45	52.561	5.038	9.45	50.426	5.248
9.90	56.392	5.329	9.90	54.126	5.547	9.90	51.913	5.785
10.35	57.966	5.854	10.35	55.621	6.100	10.35	53.332	6.369
10.80	59.469	6.424	10.80	57.048	6.701	10.80	54.683	7.005
11.25	60.902	7.043	11.25	58.407	7.356	11.25	55.963	7.700
11.70	62.269	7.717	11.70	59.701	8.070	11.70	57.190	8.457
12.15	63.570	8.450	12.15	60.927	8.849	12.15	58.355	9.286
12.60	64.803	9.251	12.60	62.099	9.699	12.60	59.461	10.173
13.05	65.982	10.124	13.05	63.211	10.610	13.05	60.510	11.165
48.50	70.224		48.00	66.624		47.50	63.156	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.45	3.245	0.107	0.45	3.127	0.110	0.45	3.011	0.113
0.90	6.384	0.223	0.90	6.150	0.229	0.90	5.920	0.236
1.35	9.418	0.348	1.35	9.070	0.358	1.35	8.728	0.369
1.80	12.349	0.483	1.80	11.889	0.497	1.80	11.438	0.513
2.25	15.180	0.629	2.25	14.610	0.648	2.25	14.052	0.668
2.70	17.912	0.787	2.70	17.234	0.811	2.70	16.571	0.837
3.15	20.547	0.956	3.15	19.764	0.987	3.15	18.998	1.019
3.60	23.087	1.140	3.60	22.201	1.177	3.60	21.334	1.217
4.05	25.534	1.338	4.05	24.547	1.383	4.05	23.581	1.431
4.50	27.890	1.552	4.50	26.804	1.605	4.50	25.742	1.662
4.95	30.157	1.784	4.95	28.974	1.846	4.95	27.818	1.914
5.40	32.336	2.034	5.40	31.059	2.107	5.40	29.810	2.186
5.85	34.431	2.305	5.85	33.061	2.390	5.85	31.722	2.482
6.30	36.442	2.598	6.30	34.981	2.696	6.30	33.554	2.803
6.75	38.371	2.915	6.75	36.822	3.029	6.75	35.309	3.152
7.20	40.221	3.259	7.20	38.586	3.390	7.20	36.988	3.531
7.65	41.993	3.633	7.65	40.273	3.782	7.65	38.594	3.944
8.10	43.689	4.038	8.10	41.887	4.208	8.10	40.128	4.394
8.55	45.311	4.478	8.55	43.429	4.672	8.55	41.593	4.883
9.00	46.861	4.957	9.00	44.901	5.177	9.00	42.989	5.418
9.45	48.340	5.478	9.45	46.305	5.728	9.45	44.319	6.001
9.90	49.752	6.045	9.90	47.642	6.329	9.90	45.578	6.639
10.35	51.096	6.663	10.35	48.988	6.985	10.35	46.784	7.336
10.80	52.369	7.338	10.80	50.121	7.702	10.80	47.930	8.100
11.25	53.589	8.076	11.25	51.273	8.487	11.25	49.016	8.922
11.70	54.748	8.882	11.70	52.366	9.330	11.70	50.046	9.840
12.15	55.847	9.747	12.15	53.402	10.273	12.15	51.020	10.851
12.60	56.889	10.714	12.60	54.382	11.309	12.60	51.941	11.964
13.05	57.876	11.776	13.05	55.309	12.449	13.05	52.810	13.192

B FACTORS FOR PARAHYDROGEN

47.00			46.50			46.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.45	2.898	0.117	0.45	2.786	0.120	0.40	2.385	0.110
0.90	5.695	0.243	0.90	5.475	0.251	0.80	4.694	0.229
1.35	8.394	0.381	1.35	8.067	0.393	1.20	6.929	0.356
1.80	10.997	0.529	1.80	10.566	0.547	1.60	9.090	0.494
2.25	13.506	0.690	2.25	12.972	0.714	2.00	11.180	0.642
2.70	15.923	0.865	2.70	15.289	0.896	2.40	13.199	0.802
3.15	18.249	1.055	3.15	17.516	1.093	2.80	15.150	0.973
3.60	20.486	1.260	3.60	19.658	1.307	3.20	17.032	1.158
4.05	22.637	1.483	4.05	21.715	1.540	3.60	18.848	1.358
4.50	24.704	1.725	4.50	23.689	1.792	4.00	20.599	1.573
4.95	26.687	1.987	4.95	25.583	2.067	4.40	22.287	1.805
5.40	28.590	2.272	5.40	27.398	2.366	4.80	23.911	2.055
5.85	30.413	2.582	5.85	29.136	2.691	5.20	25.475	2.324
6.30	32.160	2.919	6.30	30.799	3.046	5.60	26.979	2.616
6.75	33.831	3.286	6.75	32.389	3.432	6.00	28.425	2.930
7.20	35.429	3.685	7.20	33.907	3.853	6.40	29.813	3.270
7.65	36.955	4.121	7.65	35.356	4.313	6.80	31.145	3.638
8.10	38.412	4.596	8.10	36.738	4.816	7.20	32.423	4.035
8.55	39.801	5.114	8.55	38.053	5.365	7.60	33.648	4.466
9.00	41.123	5.680	9.00	39.299	5.966	8.00	34.820	4.932
9.45	42.376	6.300	9.45	40.491	6.625	8.40	35.936	5.438
9.90	43.575	6.978	9.90	41.624	7.348	8.80	37.011	5.987
10.35	44.714	7.721	10.35	42.697	8.127	9.20	38.038	6.583
10.80	45.794	8.521	10.80	43.714	8.998	9.60	39.018	7.217
11.25	46.817	9.416	11.25	44.677	9.959	10.00	39.953	7.921
11.70	47.786	10.401	11.70	45.586	11.018	10.40	40.843	8.687
12.15	48.701	11.487	12.15	46.444	12.188	10.80	41.690	9.523
12.60	49.564	12.686	12.60	47.252	13.483	11.20	42.496	10.436
13.05	50.378	14.011	13.05	48.013	14.918	11.60	43.261	11.434

45.50			45.00			44.50		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.40	2.290	0.114	0.40	2.198	0.118	0.40	2.108	0.122
0.80	4.507	0.237	0.80	4.323	0.245	0.80	4.144	0.255
1.20	6.650	0.369	1.20	6.378	0.383	1.20	6.112	0.398
1.60	8.722	0.512	1.60	8.362	0.531	1.60	8.011	0.552
2.00	10.724	0.666	2.00	10.279	0.692	2.00	9.844	0.719
2.40	12.657	0.832	2.40	12.128	0.865	2.40	11.611	0.900
2.80	14.523	1.011	2.80	13.911	1.052	2.80	13.314	1.096
3.20	16.323	1.204	3.20	15.630	1.254	3.20	14.954	1.307
3.60	18.058	1.413	3.60	17.286	1.472	3.60	16.533	1.536
4.00	19.729	1.638	4.00	18.880	1.708	4.00	18.052	1.784
4.40	21.339	1.881	4.40	20.414	1.963	4.40	19.512	2.052
4.80	22.887	2.143	4.80	21.888	2.239	4.80	20.914	2.343
5.20	24.377	2.427	5.20	23.305	2.538	5.20	22.260	2.658
5.60	25.808	2.733	5.60	24.665	2.861	5.60	23.552	3.000
6.00	27.182	3.065	6.00	25.970	3.211	6.00	24.790	3.370
6.40	28.500	3.424	6.40	27.221	3.591	6.40	25.975	3.772
6.80	29.765	3.812	6.80	28.420	4.003	6.80	27.103	4.209
7.20	30.976	4.234	7.20	29.567	4.449	7.20	28.190	4.684
7.60	32.136	4.690	7.60	30.659	4.935	7.60	29.229	5.201
8.00	33.240	5.186	8.00	31.709	5.462	8.00	30.220	5.763
8.40	34.303	5.724	8.40	32.713	6.036	8.40	31.166	6.365
8.80	35.318	6.309	8.80	33.670	6.648	8.80	32.068	7.032
9.20	36.287	6.932	9.20	34.583	7.328	9.20	32.926	7.762
9.60	37.210	7.624	9.60	35.451	8.069	9.60	33.742	8.559
10.00	38.090	8.378	10.00	36.278	8.879	10.00	34.517	9.432
10.40	38.926	9.201	10.40	37.063	9.766	10.40	35.252	10.388
10.80	39.722	10.100	10.80	37.808	10.736	10.80	35.949	11.438
11.20	40.477	11.084	11.20	38.514	11.800	11.20	36.609	12.591
11.60	41.193	12.162	11.60	39.183	12.968	11.60	37.233	13.861

B FACTORS FOR PARAHYDROGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
44.00	42.334		43.50	39.820		43.00	37.415	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.35	1.771	0.111	0.35	1.695	0.115	0.35	1.622	0.120
0.70	3.488	0.229	0.70	3.339	0.238	0.70	3.193	0.248
1.05	5.154	0.356	1.05	4.931	0.371	1.05	4.714	0.387
1.40	6.768	0.493	1.40	6.474	0.513	1.40	6.187	0.535
1.75	8.332	0.639	1.75	7.968	0.666	1.75	7.612	0.695
2.10	9.847	0.795	2.10	9.413	0.830	2.10	8.991	0.867
2.45	11.313	0.963	2.45	10.811	1.006	2.45	10.323	1.052
2.80	12.731	1.143	2.80	12.163	1.195	2.80	11.610	1.250
3.15	14.103	1.336	3.15	13.469	1.398	3.15	12.852	1.464
3.50	15.429	1.544	3.50	14.731	1.616	3.50	14.052	1.694
3.85	16.709	1.766	3.85	15.949	1.850	3.85	15.208	1.941
4.20	17.946	2.005	4.20	17.124	2.102	4.20	16.324	2.207
4.55	19.139	2.261	4.55	18.257	2.372	4.55	17.398	2.493
4.90	20.296	2.536	4.90	19.348	2.663	4.90	18.432	2.801
5.25	21.399	2.832	5.25	20.400	2.976	5.25	19.421	3.133
5.60	22.467	3.150	5.60	21.412	3.314	5.60	20.380	3.492
5.95	23.496	3.492	5.95	22.379	3.677	5.95	21.302	3.878
6.30	24.479	3.860	6.30	23.317	4.068	6.30	22.188	4.295
6.65	25.433	4.256	6.65	24.218	4.489	6.65	23.038	4.736
7.00	26.350	4.682	7.00	25.084	4.944	7.00	23.853	5.221
7.35	27.231	5.142	7.35	25.914	5.425	7.35	24.635	5.746
7.70	28.076	5.627	7.70	26.710	5.935	7.70	25.383	6.314
8.05	28.886	6.161	8.05	27.472	6.527	8.05	26.099	6.929
8.40	29.663	6.737	8.40	28.202	7.147	8.40	26.784	7.596
8.75	30.407	7.361	8.75	28.900	7.817	8.75	27.438	8.320
9.10	31.118	8.036	9.10	29.568	8.545	9.10	28.063	9.106
9.45	31.799	8.766	9.45	30.205	9.333	9.45	28.658	9.960
9.80	32.449	9.558	9.80	30.812	10.190	9.80	29.226	10.889
10.15	33.069	10.417	10.15	31.392	11.121	10.15	29.766	11.902

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
42.50	35.113		42.00	32.915		41.50	30.815	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.35	1.550	0.125	0.35	1.480	0.130	0.35	1.412	0.136
0.70	3.050	0.259	0.70	2.912	0.271	0.70	2.777	0.283
1.05	4.503	0.404	1.05	4.296	0.422	1.05	4.096	0.442
1.40	5.908	0.560	1.40	5.635	0.585	1.40	5.370	0.614
1.75	7.266	0.727	1.75	6.929	0.761	1.75	6.600	0.799
2.10	8.579	0.907	2.10	8.178	0.951	2.10	7.787	0.998
2.45	9.847	1.101	2.45	9.383	1.155	2.45	8.932	1.214
2.80	11.071	1.310	2.80	10.546	1.376	2.80	10.035	1.446
3.15	12.252	1.536	3.15	11.667	1.613	3.15	11.098	1.697
3.50	13.390	1.778	3.50	12.747	1.869	3.50	12.121	1.969
3.85	14.488	2.039	3.85	13.787	2.146	3.85	13.099	2.262
4.20	15.545	2.320	4.20	14.788	2.444	4.20	14.048	2.579
4.55	16.563	2.624	4.55	15.745	2.766	4.55	14.960	2.921
4.90	17.535	2.951	4.90	16.673	3.114	4.90	15.835	3.292
5.25	18.479	3.304	5.25	17.563	3.490	5.25	16.675	3.687
5.60	19.385	3.685	5.60	18.419	3.890	5.60	17.481	4.120
5.95	20.255	4.097	5.95	19.239	4.329	5.95	18.253	4.591
6.30	21.090	4.534	6.30	20.025	4.804	6.30	18.992	5.101
6.65	21.891	5.014	6.65	20.778	5.320	6.65	19.699	5.655
7.00	22.658	5.535	7.00	21.499	5.878	7.00	20.375	6.257
7.35	23.393	6.098	7.35	22.188	6.485	7.35	21.020	6.911
7.70	24.096	6.709	7.70	22.847	7.143	7.70	21.637	7.623
8.05	24.767	7.372	8.05	23.475	7.860	8.05	22.224	8.398
8.40	25.408	8.092	8.40	24.075	8.639	8.40	22.783	9.244
8.75	26.020	8.874	8.75	24.646	9.487	8.75	23.316	10.166
9.10	26.604	9.726	9.10	25.190	10.412	9.10	23.822	11.175
9.45	27.159	10.653	9.45	25.707	11.422	9.45	24.302	12.277
9.80	27.688	11.664	9.80	26.199	12.526	9.80	24.758	13.485
10.15	28.190	12.768	10.15	26.665	13.733	10.15	25.190	14.809

B FACTORS FOR PARAHYDROGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
41.00	28.813		40.50	26.905		40.00	25.089	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.35	1.345	0.143	0.30	1.100	0.128	0.30	1.046	0.134
0.70	2.645	0.297	0.60	2.168	0.264	0.60	2.061	0.277
1.05	3.900	0.464	0.90	3.204	0.410	0.90	3.045	0.431
1.40	5.112	0.644	1.20	4.209	0.566	1.20	3.998	0.596
1.75	6.281	0.839	1.50	5.182	0.734	1.50	4.922	0.772
2.10	7.408	1.049	1.80	6.125	0.913	1.80	5.816	0.962
2.45	8.494	1.277	2.10	7.039	1.104	2.10	6.681	1.164
2.80	9.539	1.523	2.40	7.923	1.309	2.40	7.511	1.382
3.15	10.546	1.789	2.70	8.779	1.529	2.70	8.322	1.615
3.50	11.508	2.077	3.00	9.600	1.764	3.00	9.106	1.864
3.85	12.441	2.388	3.30	10.402	2.016	3.30	9.863	2.132
4.20	13.337	2.725	3.60	11.177	2.286	3.60	10.593	2.415
4.55	14.197	3.085	3.90	11.925	2.575	3.90	11.299	2.723
4.90	15.022	3.480	4.20	12.647	2.880	4.20	11.979	3.054
5.25	15.813	3.908	4.50	13.344	3.211	4.50	12.634	3.409
5.60	16.571	4.373	4.80	14.016	3.568	4.80	13.266	3.791
5.95	17.296	4.878	5.10	14.663	3.950	5.10	13.874	4.201
6.30	17.990	5.427	5.40	15.287	4.360	5.40	14.459	4.643
6.65	18.653	6.024	5.70	15.887	4.801	5.70	15.022	5.118
7.00	19.286	6.673	6.00	16.465	5.275	6.00	15.562	5.629
7.35	19.890	7.381	6.30	17.020	5.785	6.30	16.081	6.181
7.70	20.465	8.152	6.60	17.553	6.334	6.60	16.580	6.775
8.05	21.013	8.994	6.90	18.066	6.926	6.90	17.057	7.417
8.40	21.534	9.914	7.20	18.557	7.563	7.20	17.515	8.109
8.75	22.029	10.921	7.50	19.028	8.251	7.50	17.954	8.858
9.10	22.498	12.023	7.80	19.480	8.992	7.80	18.374	9.667
9.45	22.944	13.231	8.10	19.912	9.794	8.10	18.775	10.543
9.80	23.366	14.557	8.40	20.325	10.660	8.40	19.158	11.491
10.15	23.765	16.014	8.70	20.720	11.597	8.70	19.524	12.520
39.50	23.363		39.00	21.723		38.50	20.168	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.30	0.994	0.141	0.30	0.943	0.148	0.25	0.747	0.129
0.60	1.958	0.292	0.60	1.857	0.307	0.50	1.474	0.267
0.90	2.891	0.454	0.90	2.741	0.478	0.75	2.174	0.413
1.20	3.794	0.628	1.20	3.596	0.662	1.00	2.863	0.569
1.50	4.669	0.814	1.50	4.418	0.860	1.25	3.533	0.734
1.80	5.508	1.014	1.80	5.220	1.072	1.50	4.184	0.909
2.10	6.328	1.229	2.10	5.995	1.300	1.75	4.816	1.096
2.40	7.121	1.460	2.40	6.743	1.546	2.00	5.431	1.295
2.70	7.887	1.708	2.70	7.465	1.806	2.25	6.027	1.503
3.00	8.626	1.974	3.00	8.162	2.089	2.50	6.606	1.727
3.30	9.340	2.255	3.30	8.834	2.394	2.75	7.168	1.966
3.60	10.028	2.561	3.60	9.481	2.722	3.00	7.713	2.220
3.90	10.692	2.891	3.90	10.105	3.075	3.25	8.240	2.490
4.20	11.331	3.245	4.20	10.705	3.455	3.50	8.752	2.777
4.50	11.947	3.626	4.50	11.283	3.864	3.75	9.247	3.083
4.80	12.540	4.036	4.80	11.838	4.306	4.00	9.727	3.409
5.10	13.110	4.478	5.10	12.371	4.783	4.25	10.191	3.757
5.40	13.658	4.954	5.40	12.883	5.297	4.50	10.640	4.127
5.70	14.184	5.467	5.70	13.375	5.853	4.75	11.075	4.522
6.00	14.689	6.020	6.00	13.846	6.453	5.00	11.494	4.943
6.30	15.174	6.618	6.30	14.297	7.103	5.25	11.899	5.393
6.60	15.638	7.264	6.60	14.730	7.805	5.50	12.290	5.873
6.90	16.083	7.961	6.90	15.143	8.567	5.75	12.668	6.386
7.20	16.509	8.716	7.20	15.538	9.392	6.00	13.032	6.934
7.50	16.916	9.533	7.50	15.916	10.286	6.25	13.383	7.519
7.80	17.306	10.418	7.80	16.276	11.258	6.50	13.721	8.146
8.10	17.677	11.378	8.10	16.619	12.314	6.75	14.047	8.817
8.40	18.032	12.420	8.40	16.946	13.462	7.00	14.360	9.535
8.70	18.370	13.552	8.70	17.257	14.713	7.25	14.661	10.304

B FACTORS FOR PARAHYDROGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
38.00	18.694		37.50	17.305		37.00	15.984	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.25	0.700	0.137	0.25	0.670	0.144	0.25	0.633	0.153
0.50	1.389	0.282	0.50	1.321	0.298	0.50	1.247	0.316
0.75	2.059	0.437	0.75	1.954	0.463	0.75	1.844	0.430
1.00	2.710	0.602	1.00	2.568	0.638	1.00	2.422	0.676
1.25	3.343	0.777	1.25	3.165	0.822	1.25	2.984	0.874
1.50	3.957	0.964	1.50	3.744	1.021	1.50	3.529	1.085
1.75	4.554	1.160	1.75	4.305	1.232	1.75	4.057	1.311
2.00	5.133	1.371	2.00	4.850	1.458	2.00	4.568	1.552
2.25	5.694	1.596	2.25	5.378	1.698	2.25	5.064	1.810
2.50	6.239	1.836	2.50	5.889	1.955	2.50	5.543	2.085
2.75	6.767	2.091	2.75	6.385	2.228	2.75	6.008	2.379
3.00	7.278	2.363	3.00	6.864	2.520	3.00	6.457	2.693
3.25	7.774	2.652	3.25	7.329	2.832	3.25	6.891	3.029
3.50	8.253	2.961	3.50	7.778	3.164	3.50	7.310	3.388
3.75	8.718	3.291	3.75	8.212	3.519	3.75	7.715	3.772
4.00	9.167	3.642	4.00	8.631	3.899	4.00	8.107	4.184
4.25	9.601	4.017	4.25	9.037	4.305	4.25	8.484	4.624
4.50	10.020	4.417	4.50	9.428	4.739	4.50	8.848	5.095
4.75	10.425	4.845	4.75	9.805	5.203	4.75	9.199	5.600
5.00	10.817	5.302	5.00	10.169	5.699	5.00	9.537	6.141
5.25	11.194	5.790	5.25	10.520	6.231	5.25	9.863	6.722
5.50	11.558	6.312	5.50	10.858	6.800	5.50	10.176	7.344
5.75	11.909	6.870	5.75	11.184	7.410	5.75	10.477	8.013
6.00	12.247	7.468	6.00	11.497	8.064	6.00	10.767	8.731
6.25	12.573	8.108	6.25	11.799	8.766	6.25	11.045	9.503
6.50	12.886	8.794	6.50	12.088	9.520	6.50	11.312	10.333
6.75	13.188	9.530	6.75	12.366	10.329	6.75	11.569	11.227
7.00	13.477	10.319	7.00	12.633	11.198	7.00	11.814	12.189
7.25	13.755	11.166	7.25	12.890	12.134	7.25	12.049	13.225

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
36.50	14.737		36.00	13.561		35.50	12.455	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.25	0.597	0.162	0.25	0.562	0.172	0.20	0.424	0.146
0.50	1.175	0.335	0.50	1.106	0.357	0.40	0.837	0.300
0.75	1.737	0.520	0.75	1.634	0.554	0.60	1.240	0.463
1.00	2.282	0.718	1.00	2.146	0.765	0.80	1.632	0.635
1.25	2.810	0.930	1.25	2.641	0.992	1.00	2.015	0.817
1.50	3.321	1.156	1.50	3.121	1.234	1.20	2.387	1.010
1.75	3.817	1.398	1.75	3.585	1.493	1.40	2.750	1.213
2.00	4.296	1.656	2.00	4.034	1.771	1.60	3.103	1.429
2.25	4.760	1.933	2.25	4.468	2.069	1.80	3.447	1.657
2.50	5.209	2.229	2.50	4.888	2.388	2.00	3.781	1.898
2.75	5.644	2.546	2.75	5.293	2.730	2.20	4.107	2.153
3.00	6.063	2.884	3.00	5.684	3.096	2.40	4.423	2.423
3.25	6.468	3.247	3.25	6.062	3.490	2.60	4.731	2.709
3.50	6.860	3.636	3.50	6.426	3.911	2.80	5.029	3.011
3.75	7.237	4.053	3.75	6.777	4.364	3.00	5.320	3.331
4.00	7.601	4.499	4.00	7.115	4.850	3.20	5.601	3.671
4.25	7.952	4.978	4.25	7.440	5.372	3.40	5.875	4.030
4.50	8.290	5.491	4.50	7.754	5.934	3.60	6.140	4.411
4.75	8.616	6.042	4.75	8.055	6.537	3.80	6.398	4.814
5.00	8.929	6.634	5.00	8.345	7.186	4.00	6.647	5.242
5.25	9.230	7.270	5.25	8.623	7.885	4.20	6.889	5.696
5.50	9.520	7.954	5.50	8.890	8.637	4.40	7.124	6.177
5.75	9.798	8.689	5.75	9.146	9.448	4.60	7.351	6.688
6.00	10.065	9.480	6.00	9.392	10.323	4.80	7.571	7.230
6.25	10.321	10.332	6.25	9.627	11.266	5.00	7.784	7.806
6.50	10.567	11.250	6.50	9.852	12.285	5.20	7.989	8.417
6.75	10.802	12.239	6.75	10.068	13.386	5.40	8.188	9.067
7.00	11.028	13.308	7.00	10.274	14.576	5.60	8.381	9.758
7.25	11.243	14.461	7.25	10.470	15.865	5.80	8.567	10.493

B FACTORS FOR PARAHYDROGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
35.00	11.416		34.50	10.440		34.00	9.527	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.20	0.398	0.155	0.20	0.373	0.166	0.20	0.348	0.178
0.40	0.785	0.320	0.40	0.735	0.342	0.40	0.688	0.367
0.60	1.163	0.494	0.60	1.089	0.529	0.60	1.017	0.567
0.80	1.530	0.679	0.80	1.432	0.727	0.80	1.338	0.780
1.00	1.888	0.874	1.00	1.767	0.937	1.00	1.650	1.007
1.20	2.237	1.081	1.20	2.092	1.160	1.20	1.953	1.247
1.40	2.576	1.300	1.40	2.408	1.396	1.40	2.248	1.502
1.60	2.906	1.532	1.60	2.716	1.646	1.60	2.534	1.773
1.80	3.227	1.778	1.80	3.015	1.912	1.80	2.811	2.061
2.00	3.538	2.038	2.00	3.305	2.194	2.00	3.081	2.367
2.20	3.842	2.314	2.20	3.587	2.493	2.20	3.342	2.692
2.40	4.136	2.606	2.40	3.860	2.810	2.40	3.596	3.038
2.60	4.422	2.916	2.60	4.126	3.147	2.60	3.842	3.406
2.80	4.700	3.245	2.80	4.383	3.505	2.80	4.080	3.796
3.00	4.969	3.593	3.00	4.633	3.885	3.00	4.311	4.212
3.20	5.231	3.963	3.20	4.875	4.289	3.20	4.534	4.654
3.40	5.484	4.355	3.40	5.109	4.718	3.40	4.750	5.125
3.60	5.730	4.770	3.60	5.336	5.173	3.60	4.960	5.626
3.80	5.968	5.212	3.80	5.556	5.658	3.80	5.162	6.160
4.00	6.199	5.681	4.00	5.769	6.173	4.00	5.358	6.728
4.20	6.422	6.179	4.20	5.975	6.722	4.20	5.547	7.334
4.40	6.639	6.708	4.40	6.174	7.305	4.40	5.729	7.980
4.60	6.848	7.270	4.60	6.366	7.926	4.60	5.905	8.668
4.80	7.050	7.868	4.80	6.552	8.588	4.80	6.076	9.403
5.00	7.246	8.504	5.00	6.731	9.293	5.00	6.240	10.187
5.20	7.435	9.180	5.20	6.905	10.044	5.20	6.398	11.025
5.40	7.618	9.901	5.40	7.072	10.845	5.40	6.550	11.920
5.60	7.794	10.668	5.60	7.233	11.700	5.60	6.697	12.876
5.80	7.964	11.485	5.80	7.388	12.612	5.80	6.838	13.899

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
33.50	8.674		33.00	7.877		32.50	7.136	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.20	0.325	0.191	0.20	0.303	0.205	0.20	0.282	0.221
0.40	0.642	0.394	0.40	0.598	0.424	0.40	0.555	0.458
0.60	0.949	0.610	0.60	0.884	0.657	0.60	0.821	0.710
0.80	1.248	0.840	0.80	1.161	0.906	0.80	1.078	0.979
1.00	1.538	1.084	1.00	1.431	1.170	1.00	1.328	1.266
1.20	1.820	1.344	1.20	1.692	1.452	1.20	1.570	1.573
1.40	2.093	1.620	1.40	1.946	1.752	1.40	1.804	1.900
1.60	2.359	1.915	1.60	2.191	2.072	1.60	2.031	2.249
1.80	2.616	2.228	1.80	2.430	2.414	1.80	2.251	2.622
2.00	2.866	2.561	2.00	2.660	2.777	2.00	2.464	3.020
2.20	3.108	2.915	2.20	2.884	3.165	2.20	2.670	3.446
2.40	3.342	3.293	2.40	3.100	3.578	2.40	2.869	3.900
2.60	3.570	3.695	2.60	3.309	4.019	2.60	3.061	4.386
2.80	3.789	4.123	2.80	3.512	4.490	2.80	3.247	4.905
3.00	4.002	4.579	3.00	3.707	4.992	3.00	3.426	5.460
3.20	4.208	5.065	3.20	3.897	5.529	3.20	3.600	6.054
3.40	4.407	5.584	3.40	4.079	6.102	3.40	3.767	6.689
3.60	4.599	6.136	3.60	4.255	6.714	3.60	3.928	7.369
3.80	4.785	6.726	3.80	4.425	7.368	3.80	4.083	8.098
4.00	4.964	7.355	4.00	4.589	8.067	4.00	4.232	8.878
4.20	5.138	8.027	4.20	4.748	8.815	4.20	4.376	9.714
4.40	5.305	8.744	4.40	4.900	9.615	4.40	4.515	10.611
4.60	5.466	9.511	4.60	5.047	10.472	4.60	4.648	11.572
4.80	5.621	10.330	4.80	5.188	11.390	4.80	4.776	12.605
5.00	5.771	11.207	5.00	5.324	12.373	5.00	4.899	13.713
5.20	5.914	12.144	5.20	5.454	13.427	5.20	5.017	14.904
5.40	6.053	13.148	5.40	5.580	14.558	5.40	5.131	16.185
5.60	6.186	14.223	5.60	5.700	15.772	5.60	5.239	17.562
5.80	6.314	15.376	5.80	5.816	17.076	5.80	5.343	19.044

B FACTORS FOR PARAHYDROGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
32.00	6.446		31.50	5.808		31.00	5.217	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.15	0.197	0.178	0.15	0.182	0.193	0.15	0.168	0.209
0.30	0.389	0.365	0.30	0.360	0.396	0.30	0.332	0.430
0.45	0.577	0.562	0.45	0.534	0.610	0.45	0.493	0.663
0.60	0.761	0.769	0.60	0.704	0.835	0.60	0.649	0.909
0.75	0.940	0.986	0.75	0.869	1.072	0.75	0.801	1.168
0.90	1.115	1.215	0.90	1.031	1.321	0.90	0.950	1.441
1.05	1.286	1.455	1.05	1.188	1.584	1.05	1.095	1.729
1.20	1.453	1.708	1.20	1.342	1.860	1.20	1.236	2.032
1.35	1.616	1.974	1.35	1.492	2.152	1.35	1.374	2.353
1.50	1.775	2.254	1.50	1.638	2.459	1.50	1.508	2.691
1.65	1.930	2.548	1.65	1.780	2.782	1.65	1.638	3.047
1.80	2.081	2.857	1.80	1.919	3.122	1.80	1.765	3.423
1.95	2.229	3.182	1.95	2.054	3.481	1.95	1.889	3.820
2.10	2.372	3.525	2.10	2.186	3.859	2.10	2.009	4.238
2.25	2.512	3.885	2.25	2.314	4.257	2.25	2.126	4.680
2.40	2.648	4.264	2.40	2.439	4.676	2.40	2.240	5.147
2.55	2.781	4.663	2.55	2.560	5.119	2.55	2.350	5.639
2.70	2.910	5.083	2.70	2.678	5.585	2.70	2.458	6.159
2.85	3.036	5.525	2.85	2.793	6.077	2.85	2.562	6.709
3.00	3.159	5.991	3.00	2.905	6.596	3.00	2.663	7.289
3.15	3.278	6.482	3.15	3.013	7.143	3.15	2.762	7.902
3.30	3.394	6.998	3.30	3.118	7.721	3.30	2.857	8.551
3.45	3.507	7.543	3.45	3.221	8.331	3.45	2.950	9.236
3.60	3.616	8.117	3.60	3.320	8.974	3.60	3.040	9.961
3.75	3.722	8.723	3.75	3.417	9.654	3.75	3.127	10.728
3.90	3.826	9.361	3.90	3.510	10.372	3.90	3.212	11.539
4.05	3.926	10.034	4.05	3.601	11.131	4.05	3.294	12.397
4.20	4.024	10.745	4.20	3.689	11.932	4.20	3.373	13.306
4.35	4.118	11.495	4.35	3.775	12.780	4.35	3.450	14.269

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
30.50	4.671		30.00	4.170		29.50	3.709	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.15	0.155	0.228	0.15	0.142	0.249	0.15	0.130	0.273
0.30	0.306	0.469	0.30	0.281	0.513	0.30	0.257	0.563
0.45	0.454	0.724	0.45	0.416	0.792	0.45	0.381	0.870
0.60	0.597	0.993	0.60	0.548	1.087	0.60	0.501	1.195
0.75	0.737	1.276	0.75	0.676	1.400	0.75	0.618	1.540
0.90	0.873	1.576	0.90	0.801	1.730	0.90	0.732	1.905
1.05	1.006	1.893	1.05	0.922	2.079	1.05	0.843	2.292
1.20	1.135	2.227	1.20	1.040	2.449	1.20	0.950	2.703
1.35	1.261	2.581	1.35	1.155	2.841	1.35	1.054	3.138
1.50	1.384	2.954	1.50	1.267	3.255	1.50	1.156	3.599
1.65	1.503	3.349	1.65	1.375	3.693	1.65	1.254	4.089
1.80	1.619	3.765	1.80	1.480	4.157	1.80	1.350	4.608
1.95	1.731	4.206	1.95	1.583	4.649	1.95	1.442	5.158
2.10	1.841	4.672	2.10	1.682	5.169	2.10	1.532	5.742
2.25	1.947	5.164	2.25	1.779	5.720	2.25	1.620	6.361
2.40	2.051	5.685	2.40	1.872	6.304	2.40	1.704	7.018
2.55	2.151	6.235	2.55	1.963	6.922	2.55	1.786	7.716
2.70	2.249	6.818	2.70	2.051	7.577	2.70	1.865	8.457
2.85	2.343	7.434	2.85	2.137	8.272	2.85	1.942	9.243
3.00	2.435	8.086	3.00	2.220	9.008	3.00	2.017	10.079
3.15	2.524	8.777	3.15	2.300	9.789	3.15	2.089	10.966
3.30	2.610	9.508	3.30	2.377	10.617	3.30	2.158	11.910
3.45	2.694	10.282	3.45	2.453	11.496	3.45	2.225	12.913
3.60	2.775	11.102	3.60	2.525	12.429	3.60	2.290	13.980
3.75	2.854	11.971	3.75	2.596	13.419	3.75	2.353	15.115
3.90	2.930	12.893	3.90	2.664	14.471	3.90	2.414	16.323
4.05	3.003	13.869	4.05	2.730	15.589	4.05	2.473	17.609
4.20	3.074	14.905	4.20	2.793	16.776	4.20	2.529	18.977
4.35	3.143	16.005	4.35	2.855	18.039	4.35	2.584	20.435

B FACTORS FOR PARAHYDROGEN

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
29.00	3.288		28.50	2.903		28.00	2.553	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.10	0.080	0.198	0.10	0.073	0.219	0.10	0.066	0.243
0.20	0.158	0.405	0.20	0.144	0.447	0.20	0.131	0.496
0.30	0.235	0.620	0.30	0.214	0.685	0.30	0.194	0.760
0.40	0.310	0.843	0.40	0.282	0.933	0.40	0.256	1.036
0.50	0.385	1.076	0.50	0.350	1.191	0.50	0.317	1.323
0.60	0.457	1.318	0.60	0.416	1.460	0.60	0.377	1.623
0.70	0.529	1.571	0.70	0.480	1.741	0.70	0.435	1.937
0.80	0.598	1.833	0.80	0.544	2.033	0.80	0.492	2.264
0.90	0.667	2.106	0.90	0.606	2.338	0.90	0.548	2.605
1.00	0.734	2.390	1.00	0.667	2.655	1.00	0.603	2.961
1.10	0.800	2.686	1.10	0.726	2.986	1.10	0.657	3.333
1.20	0.865	2.995	1.20	0.785	3.331	1.20	0.710	3.721
1.30	0.928	3.315	1.30	0.842	3.691	1.30	0.761	4.126
1.40	0.990	3.649	1.40	0.898	4.065	1.40	0.812	4.549
1.50	1.051	3.997	1.50	0.953	4.456	1.50	0.861	4.990
1.60	1.111	4.359	1.60	1.007	4.863	1.60	0.909	5.451
1.70	1.169	4.735	1.70	1.059	5.288	1.70	0.956	5.932
1.80	1.227	5.128	1.80	1.111	5.731	1.80	1.002	6.435
1.90	1.283	5.536	1.90	1.161	6.193	1.90	1.048	6.959
2.00	1.338	5.962	2.00	1.211	6.674	2.00	1.092	7.507
2.10	1.391	6.405	2.10	1.259	7.177	2.10	1.135	8.080
2.20	1.444	6.866	2.20	1.306	7.700	2.20	1.177	8.678
2.30	1.495	7.347	2.30	1.352	8.247	2.30	1.218	9.303
2.40	1.546	7.848	2.40	1.397	8.817	2.40	1.258	9.955
2.50	1.595	8.370	2.50	1.441	9.412	2.50	1.298	10.637
2.60	1.643	8.914	2.60	1.484	10.033	2.60	1.336	11.349
2.70	1.691	9.481	2.70	1.527	10.681	2.70	1.373	12.094
2.80	1.737	10.072	2.80	1.568	11.357	2.80	1.410	12.872
2.90	1.782	10.688	2.90	1.608	12.063	2.90	1.446	13.685
27.50	2.236		27.00	1.950		26.50	1.692	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.05	0.030	0.133	0.05	0.027	0.149	0.05	0.024	0.167
0.10	0.060	0.270	0.10	0.054	0.301	0.10	0.048	0.338
0.15	0.089	0.409	0.15	0.080	0.457	0.15	0.072	0.513
0.20	0.118	0.552	0.20	0.106	0.617	0.20	0.095	0.692
0.25	0.147	0.697	0.25	0.132	0.780	0.25	0.119	0.876
0.30	0.175	0.846	0.30	0.158	0.947	0.30	0.142	1.064
0.35	0.204	0.998	0.35	0.183	1.117	0.35	0.164	1.256
0.40	0.231	1.154	0.40	0.208	1.292	0.40	0.187	1.454
0.45	0.259	1.313	0.45	0.233	1.471	0.45	0.209	1.656
0.50	0.286	1.476	0.50	0.258	1.654	0.50	0.231	1.862
0.55	0.313	1.642	0.55	0.282	1.841	0.55	0.252	2.074
0.60	0.340	1.812	0.60	0.306	2.033	0.60	0.274	2.291
0.65	0.366	1.986	0.65	0.330	2.229	0.65	0.295	2.513
0.70	0.393	2.164	0.70	0.353	2.429	0.70	0.316	2.740
0.75	0.419	2.346	0.75	0.376	2.634	0.75	0.337	2.973
0.80	0.444	2.531	0.80	0.399	2.844	0.80	0.357	3.212
0.85	0.469	2.721	0.85	0.422	3.059	0.85	0.377	3.456
0.90	0.495	2.915	0.90	0.444	3.279	0.90	0.397	3.706
0.95	0.519	3.114	0.95	0.466	3.503	0.95	0.417	3.962
1.00	0.544	3.317	1.00	0.488	3.734	1.00	0.437	4.224
1.05	0.568	3.524	1.05	0.510	3.969	1.05	0.456	4.493
1.10	0.592	3.737	1.10	0.531	4.210	1.10	0.475	4.767
1.15	0.616	3.953	1.15	0.553	4.456	1.15	0.494	5.049
1.20	0.639	4.175	1.20	0.574	4.709	1.20	0.512	5.337
1.25	0.662	4.402	1.25	0.594	4.967	1.25	0.531	5.632
1.30	0.685	4.634	1.30	0.615	5.231	1.30	0.549	5.934
1.35	0.708	4.871	1.35	0.635	5.501	1.35	0.567	6.244
1.40	0.731	5.113	1.40	0.655	5.778	1.40	0.585	6.561
1.45	0.753	5.361	1.45	0.675	6.061	1.45	0.602	6.886

Appendix C: B-factors for nitrogen, calculated from eq (5).

B FACTORS FOR NITROGEN

216.00			214.00			212.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.30	13.004	0.118	1.30	12.474	0.117	1.30	11.961	0.117
2.60	25.662	0.244	2.60	24.612	0.242	2.60	23.599	0.243
3.90	37.980	0.378	3.90	36.423	0.376	3.90	34.919	0.379
5.20	49.966	0.522	5.20	47.913	0.520	5.20	45.929	0.524
6.50	61.628	0.675	6.50	59.090	0.674	6.50	56.634	0.681
7.80	72.973	0.838	7.80	69.958	0.839	7.80	67.040	0.849
9.10	84.006	1.013	9.10	80.525	1.016	9.10	77.155	1.029
10.40	94.734	1.200	10.40	90.796	1.206	10.40	86.981	1.222
11.70	105.164	1.399	11.70	100.776	1.406	11.70	96.527	1.430
13.00	115.300	1.612	13.00	110.473	1.626	13.00	105.795	1.653
14.30	125.149	1.840	14.30	119.889	1.858	14.30	114.792	1.892
15.60	134.716	2.084	15.60	129.032	2.107	15.60	123.523	2.148
16.90	144.005	2.344	16.90	137.906	2.374	16.90	131.992	2.423
18.20	153.023	2.623	18.20	146.515	2.660	18.20	140.204	2.718
19.50	161.774	2.920	19.50	154.865	2.965	19.50	148.165	3.034
20.80	170.263	3.238	20.80	162.960	3.293	20.80	155.877	3.373
22.10	178.495	3.579	22.10	170.806	3.644	22.10	163.347	3.736
23.40	186.474	3.942	23.40	178.406	4.019	23.40	170.579	4.126
24.70	194.206	4.332	24.70	185.765	4.422	24.70	177.576	4.545
26.00	201.695	4.748	26.00	192.888	4.853	26.00	184.345	4.994
27.30	208.944	5.193	27.30	199.779	5.315	27.30	190.888	5.476
28.60	215.960	5.670	28.60	206.443	5.811	28.60	197.210	5.994
29.90	222.745	6.181	29.90	212.884	6.343	29.90	203.316	6.550
31.20	229.306	6.728	31.20	219.106	6.913	31.20	209.211	7.148
32.50	235.645	7.315	32.50	225.114	7.525	32.50	214.897	7.791
33.80	241.766	7.943	33.80	230.912	8.182	33.80	220.380	8.482
35.10	247.678	8.618	35.10	236.504	8.889	35.10	225.664	9.226
36.40	253.380	9.341	36.40	241.895	9.648	36.40	230.754	10.026
37.70	258.879	10.118	37.70	247.088	10.464	37.70	235.652	10.889

210.00			208.00			206.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.30	11.466	0.119	1.30	10.986	0.121	1.30	10.521	0.124
2.60	22.618	0.246	2.60	21.668	0.251	2.60	20.747	0.258
3.90	33.463	0.384	3.90	32.052	0.393	3.90	30.683	0.403
5.20	44.007	0.533	5.20	42.144	0.545	5.20	40.336	0.560
6.50	54.255	0.693	6.50	51.949	0.709	6.50	49.711	0.730
7.80	64.214	0.864	7.80	61.472	0.886	7.80	58.812	0.913
9.10	73.888	1.049	9.10	70.720	1.077	9.10	67.644	1.110
10.40	83.284	1.248	10.40	79.696	1.282	10.40	76.213	1.323
11.70	92.406	1.462	11.70	88.407	1.503	11.70	84.524	1.553
13.00	101.259	1.692	13.00	96.856	1.741	13.00	92.588	1.800
14.30	109.848	1.938	14.30	105.049	1.997	14.30	100.388	2.066
15.60	118.178	2.203	15.60	112.990	2.272	15.60	107.951	2.354
16.90	126.254	2.488	16.90	120.684	2.568	16.90	115.273	2.663
18.20	134.081	2.794	18.20	128.135	2.887	18.20	122.360	2.996
19.50	141.662	3.122	19.50	135.348	3.229	19.50	129.216	3.354
20.80	149.003	3.475	20.80	142.328	3.598	20.80	135.845	3.741
22.10	156.108	3.854	22.10	149.079	3.994	22.10	142.252	4.157
23.40	162.982	4.261	23.40	155.605	4.420	23.40	148.441	4.606
24.70	169.628	4.698	24.70	161.911	4.879	24.70	154.416	5.089
26.00	176.052	5.168	26.00	168.000	5.373	26.00	160.182	5.610
27.30	182.257	5.673	27.30	173.878	5.905	27.30	165.743	6.172
28.60	188.249	6.217	28.60	179.549	6.478	28.60	171.103	6.779
29.90	194.031	6.802	29.90	185.017	7.096	29.90	176.267	7.433
31.20	199.607	7.431	31.20	190.286	7.761	31.20	181.238	8.140
32.50	204.983	8.109	32.50	195.360	8.479	32.50	186.022	8.904
33.80	210.161	8.839	33.80	200.244	9.254	33.80	190.622	9.729
35.10	215.147	9.626	35.10	204.943	10.091	35.10	195.042	10.622
36.40	219.945	10.475	36.40	209.459	10.995	36.40	199.287	11.589
37.70	224.559	11.391	37.70	213.798	11.972	37.70	203.360	12.636

B FACTORS FOR NITROGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
204.00	256.926		202.00	241.554		200.00	226.852	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.20	9.305	0.117	1.20	8.900	0.121	1.20	8.507	0.126
2.40	18.366	0.244	2.40	17.563	0.253	2.40	16.783	0.262
3.60	27.387	0.380	3.60	25.993	0.394	3.60	24.833	0.409
4.80	35.772	0.527	4.80	34.193	0.546	4.80	32.660	0.568
6.00	44.124	0.685	6.00	42.168	0.710	6.00	40.268	0.739
7.20	52.249	0.855	7.20	49.922	0.887	7.20	47.660	0.924
8.40	60.150	1.037	8.40	57.457	1.077	8.40	54.840	1.122
9.60	67.830	1.233	9.60	64.779	1.281	9.60	61.813	1.336
10.80	75.294	1.443	10.80	71.889	1.501	10.80	68.581	1.566
12.00	82.545	1.668	12.00	78.793	1.736	12.00	75.147	1.813
13.20	89.586	1.910	13.20	85.493	1.989	13.20	81.517	2.079
14.40	96.422	2.169	14.40	91.994	2.261	14.40	87.692	2.365
15.60	103.055	2.447	15.60	98.298	2.553	15.60	93.676	2.672
16.80	109.490	2.745	16.80	104.409	2.867	16.80	99.474	3.003
18.00	115.729	3.065	18.00	110.331	3.203	18.00	105.087	3.359
19.20	121.777	3.408	19.20	116.067	3.565	19.20	110.521	3.741
20.40	127.636	3.776	20.40	121.620	3.953	20.40	115.777	4.152
21.60	133.311	4.170	21.60	126.994	4.370	21.60	120.860	4.594
22.80	138.804	4.593	22.80	132.192	4.818	22.80	125.773	5.070
24.00	144.119	5.047	24.00	137.218	5.299	24.00	130.518	5.582
25.20	149.259	5.535	25.20	142.075	5.817	25.20	135.101	6.133
26.40	154.228	6.058	26.40	146.766	6.373	26.40	139.523	6.726
27.60	159.029	6.620	27.60	151.294	6.971	27.60	143.788	7.365
28.80	163.666	7.223	28.80	155.664	7.615	28.80	147.900	8.054
30.00	168.141	7.872	30.00	159.877	8.308	30.00	151.861	8.797
31.20	172.458	8.570	31.20	163.938	9.054	31.20	155.676	9.599
32.40	176.620	9.320	32.40	167.851	9.858	32.40	159.347	10.464
33.60	180.632	10.128	33.60	171.617	10.725	33.60	162.877	11.398
34.80	184.495	10.997	34.80	175.241	11.660	34.80	166.270	12.407
198.00	212.802		196.00	199.385		194.00	186.584	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.10	7.456	0.120	1.10	7.116	0.125	1.10	6.784	0.131
2.20	14.724	0.249	2.20	14.048	0.260	2.20	13.391	0.272
3.30	21.806	0.387	3.30	20.800	0.405	3.30	19.821	0.424
4.40	28.705	0.536	4.40	27.374	0.560	4.40	26.080	0.587
5.50	35.425	0.695	5.50	33.773	0.727	5.50	32.168	0.762
6.60	41.967	0.866	6.60	40.000	0.906	6.60	38.089	0.951
7.70	48.335	1.049	7.70	46.058	1.099	7.70	43.845	1.154
8.80	54.531	1.245	8.80	51.949	1.305	8.80	49.440	1.371
9.90	60.558	1.455	9.90	57.675	1.526	9.90	54.875	1.605
11.00	66.419	1.680	11.00	63.241	1.763	11.00	60.154	1.855
12.10	72.116	1.921	12.10	68.648	2.017	12.10	65.279	2.124
13.20	77.652	2.179	13.20	73.899	2.290	13.20	70.253	2.412
14.30	83.031	2.454	14.30	78.996	2.581	14.30	75.078	2.722
15.40	88.253	2.749	15.40	83.942	2.894	15.40	79.757	3.053
16.50	93.323	3.065	16.50	88.741	3.228	16.50	84.293	3.409
17.60	98.242	3.403	17.60	93.393	3.587	17.60	88.687	3.791
18.70	103.014	3.764	18.70	97.903	3.971	18.70	92.943	4.201
19.80	107.640	4.151	19.80	102.272	4.383	19.80	97.064	4.641
20.90	112.124	4.565	20.90	106.504	4.825	20.90	101.051	5.114
22.00	116.468	5.009	22.00	110.600	5.298	22.00	104.908	5.621
23.10	120.675	5.483	23.10	114.563	5.806	23.10	108.636	6.165
24.20	124.747	5.992	24.20	118.396	6.351	24.20	112.239	6.751
25.30	128.686	6.537	25.30	122.102	6.935	25.30	115.719	7.380
26.40	132.496	7.121	26.40	125.682	7.563	26.40	119.079	8.056
27.50	136.179	7.747	27.50	129.140	8.236	27.50	122.320	8.783
28.60	139.737	8.419	28.60	132.478	8.960	28.60	125.447	9.566
29.70	143.172	9.140	29.70	135.698	9.738	29.70	128.460	10.409
30.80	146.489	9.914	30.80	138.804	10.575	30.80	131.362	11.316
31.90	149.688	10.745	31.90	141.797	11.475	31.90	134.157	12.294

B FACTORS FOR NITROGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
192.00	174.382		190.00	162.761		188.00	151.705	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.00	5.882	0.124	1.00	5.598	0.131	1.00	5.321	0.138
2.00	11.621	0.257	2.00	11.056	0.271	2.00	10.507	0.285
3.00	17.219	0.400	3.00	16.377	0.421	3.00	15.560	0.444
4.00	22.677	0.553	4.00	21.563	0.582	4.00	20.482	0.613
5.00	27.998	0.716	5.00	26.616	0.754	5.00	25.275	0.795
6.00	33.184	0.890	6.00	31.538	0.938	6.00	29.940	0.990
7.00	38.237	1.076	7.00	36.331	1.135	7.00	34.480	1.199
8.00	43.159	1.275	8.00	40.996	1.345	8.00	38.897	1.423
9.00	47.952	1.487	9.00	45.536	1.570	9.00	43.193	1.662
10.00	52.617	1.714	10.00	49.953	1.811	10.00	47.369	1.918
11.00	57.157	1.956	11.00	54.249	2.068	11.00	51.428	2.192
12.00	61.574	2.215	12.00	58.425	2.343	12.00	55.371	2.485
13.00	65.870	2.491	13.00	62.484	2.637	13.00	59.201	2.799
14.00	70.046	2.785	14.00	66.427	2.951	14.00	62.919	3.135
15.00	74.105	3.099	15.00	70.257	3.286	15.00	66.527	3.494
16.00	78.048	3.434	16.00	73.975	3.645	16.00	70.028	3.878
17.00	81.878	3.792	17.00	77.583	4.028	17.00	73.423	4.290
18.00	85.596	4.174	18.00	81.084	4.437	18.00	76.714	4.730
19.00	89.204	4.582	19.00	84.479	4.875	19.00	79.903	5.202
20.00	92.705	5.018	20.00	87.770	5.344	20.00	82.991	5.707
21.00	96.100	5.483	21.00	90.959	5.845	21.00	85.982	6.248
22.00	99.391	5.980	22.00	94.047	6.380	22.00	88.876	6.828
23.00	102.580	6.511	23.00	97.038	6.954	23.00	91.675	7.449
24.00	105.668	7.079	24.00	99.932	7.568	24.00	94.382	8.115
25.00	108.659	7.686	25.00	102.732	8.225	25.00	96.999	8.829
26.00	111.553	8.335	26.00	105.439	8.930	26.00	99.526	9.596
27.00	114.353	9.030	27.00	108.055	9.684	27.00	101.966	10.419
28.00	117.060	9.774	28.00	110.582	10.493	28.00	104.321	11.302
29.00	119.676	10.570	29.00	113.022	11.361	29.00	106.593	12.251

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
186.00	141.197		184.00	131.223		182.00	121.765	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.90	4.554	0.130	0.90	4.319	0.138	0.90	4.092	0.146
1.80	9.001	0.269	1.80	8.535	0.285	1.80	8.083	0.302
2.70	13.343	0.417	2.70	12.649	0.442	2.70	11.977	0.469
3.60	17.582	0.575	3.60	16.663	0.609	3.60	15.773	0.647
4.50	21.718	0.743	4.50	20.578	0.788	4.50	19.473	0.837
5.40	25.754	0.922	5.40	24.395	0.978	5.40	23.079	1.040
6.30	29.691	1.113	6.30	28.117	1.181	6.30	26.592	1.257
7.20	33.530	1.316	7.20	31.743	1.398	7.20	30.013	1.488
8.10	37.273	1.533	8.10	35.277	1.629	8.10	33.345	1.735
9.00	40.920	1.763	9.00	38.719	1.875	9.00	36.587	1.998
9.90	44.474	2.008	9.90	42.070	2.137	9.90	39.743	2.279
10.80	47.936	2.269	10.80	45.332	2.416	10.80	42.812	2.579
11.70	51.308	2.546	11.70	48.507	2.713	11.70	45.797	2.899
12.60	54.590	2.841	12.60	51.596	3.030	12.60	48.699	3.240
13.50	57.784	3.155	13.50	54.599	3.368	13.50	51.519	3.605
14.40	60.891	3.490	14.40	57.519	3.728	14.40	54.259	3.993
15.30	63.914	3.845	15.30	60.358	4.111	15.30	56.920	4.408
16.20	66.852	4.224	16.20	63.115	4.520	16.20	59.503	4.850
17.10	69.709	4.627	17.10	65.793	4.956	17.10	62.010	5.323
18.00	72.484	5.056	18.00	68.394	5.420	18.00	64.442	5.827
18.90	75.180	5.513	18.90	70.918	5.915	18.90	66.801	6.365
19.80	77.797	6.000	19.80	73.366	6.443	19.80	69.088	6.941
20.70	80.338	6.518	20.70	75.741	7.007	20.70	71.303	7.555
21.60	82.803	7.071	21.60	78.044	7.608	21.60	73.449	8.212
22.50	85.194	7.659	22.50	80.275	8.250	22.50	75.528	8.914
23.40	87.513	8.287	23.40	82.436	8.935	23.40	77.539	9.664
24.30	89.760	8.956	24.30	84.530	9.667	24.30	79.485	10.467
25.20	91.937	9.670	25.20	86.556	10.448	25.20	81.366	11.326
26.10	94.045	10.432	26.10	88.516	11.284	26.10	83.185	12.246

B FACTORS FOR NITROGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
180.00	112.807		179.00	108.512		178.00	104.336	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.80	3.446	0.137	0.80	3.350	0.141	0.80	3.256	0.146
1.60	6.816	0.283	1.60	6.625	0.292	1.60	6.439	0.301
2.40	10.109	0.438	2.40	9.826	0.452	2.40	9.548	0.466
3.20	13.328	0.602	3.20	12.953	0.622	3.20	12.584	0.642
4.00	16.474	0.777	4.00	16.008	0.802	4.00	15.550	0.829
4.80	19.547	0.962	4.80	18.991	0.993	4.80	18.445	1.027
5.60	22.548	1.158	5.60	21.904	1.197	5.60	21.272	1.237
6.40	25.478	1.367	6.40	24.748	1.413	6.40	24.030	1.461
7.20	28.339	1.588	7.20	27.523	1.642	7.20	26.720	1.699
8.00	31.131	1.822	8.00	30.230	1.885	8.00	29.345	1.951
8.80	33.855	2.071	8.80	32.871	2.143	8.80	31.904	2.219
9.60	36.513	2.335	9.60	35.447	2.417	9.60	34.399	2.503
10.40	39.104	2.615	10.40	37.957	2.708	10.40	36.830	2.806
11.20	41.631	2.912	11.20	40.405	3.016	11.20	39.199	3.126
12.00	44.094	3.226	12.00	42.789	3.343	12.00	41.507	3.467
12.80	46.494	3.560	12.80	45.112	3.691	12.80	43.754	3.829
13.60	48.833	3.914	13.60	47.374	4.059	13.60	45.942	4.213
14.40	51.110	4.289	14.40	49.577	4.450	14.40	48.071	4.621
15.20	53.327	4.688	15.20	51.720	4.866	15.20	50.142	5.054
16.00	55.485	5.110	16.00	53.806	5.307	16.00	52.157	5.515
16.80	57.586	5.559	16.80	55.835	5.775	16.80	54.116	6.004
17.60	59.629	6.034	17.60	57.808	6.272	17.60	56.021	6.524
18.40	61.615	6.539	18.40	59.726	6.800	18.40	57.871	7.076
19.20	63.547	7.076	19.20	61.590	7.361	19.20	59.669	7.664
20.00	65.424	7.645	20.00	63.400	7.957	20.00	61.414	8.288
20.80	67.248	8.249	20.80	65.159	8.590	20.80	63.109	8.952
21.60	69.020	8.892	21.60	66.866	9.264	21.60	64.754	9.659
22.40	70.740	9.574	22.40	68.523	9.980	22.40	66.349	10.411
23.20	72.409	10.299	23.20	70.131	10.741	23.20	67.896	11.211
177.00	100.277		176.00	96.334		175.00	92.504	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.80	3.164	0.151	0.80	3.073	0.156	0.80	2.983	0.161
1.60	6.255	0.311	1.60	6.074	0.322	1.60	5.896	0.333
2.40	9.274	0.482	2.40	9.004	0.498	2.40	8.740	0.515
3.20	12.222	0.663	3.20	11.865	0.686	3.20	11.515	0.710
4.00	15.100	0.857	4.00	14.657	0.886	4.00	14.222	0.917
4.80	17.909	1.062	4.80	17.381	1.099	4.80	16.863	1.138
5.60	20.650	1.280	5.60	20.039	1.325	5.60	19.438	1.373
6.40	23.324	1.512	6.40	22.631	1.566	6.40	21.949	1.623
7.20	25.932	1.759	7.20	25.157	1.822	7.20	24.397	1.889
8.00	28.475	2.021	8.00	27.620	2.094	8.00	26.781	2.172
8.80	30.954	2.299	8.80	30.021	2.384	8.80	29.104	2.473
9.60	33.370	2.595	9.60	32.359	2.691	9.60	31.366	2.793
10.40	35.723	2.909	10.40	34.636	3.019	10.40	33.569	3.134
11.20	38.016	3.243	11.20	36.853	3.366	11.20	35.712	3.497
12.00	40.248	3.598	12.00	39.011	3.736	12.00	37.798	3.883
12.80	42.421	3.975	12.80	41.112	4.130	12.80	39.827	4.294
13.60	44.535	4.376	13.60	43.155	4.548	13.60	41.800	4.731
14.40	46.593	4.801	14.40	45.142	4.993	14.40	43.718	5.196
15.20	48.593	5.254	15.20	47.073	5.466	15.20	45.582	5.691
16.00	50.539	5.735	16.00	48.950	5.969	16.00	47.392	6.218
16.80	52.429	6.247	16.80	50.774	6.505	16.80	49.151	6.779
17.60	54.267	6.791	17.60	52.546	7.075	17.60	50.858	7.377
18.40	56.051	7.370	18.40	54.266	7.682	18.40	52.515	8.013
19.20	57.784	7.985	19.20	55.936	8.327	19.20	54.123	8.691
20.00	59.466	8.640	20.00	57.555	9.015	20.00	55.682	9.414
20.80	61.098	9.338	20.80	59.127	9.748	20.80	57.194	10.184
21.60	62.682	10.080	21.60	60.650	10.528	21.60	58.658	11.005
22.40	64.217	10.870	22.40	62.126	11.359	22.40	60.077	11.881
23.20	65.705	11.712	23.20	63.557	12.246	23.20	61.452	12.815

B FACTORS FOR NITROGEN

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
174.00	88.786		173.00	85.177		172.00	81.677	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.80	2.895	0.167	0.70	2.462	0.150	0.70	2.387	0.156
1.60	5.722	0.344	1.40	4.871	0.309	1.40	4.724	0.320
2.40	8.480	0.533	2.10	7.229	0.477	2.10	7.009	0.495
3.20	11.170	0.735	2.80	9.536	0.655	2.80	9.245	0.679
4.00	13.795	0.950	3.50	11.793	0.844	3.50	11.431	0.875
4.80	16.354	1.179	4.20	14.001	1.043	4.20	13.569	1.082
5.60	18.849	1.423	4.90	16.160	1.254	4.90	15.659	1.301
6.40	21.280	1.683	5.60	18.270	1.476	5.60	17.702	1.532
7.20	23.649	1.960	6.30	20.333	1.712	6.30	19.698	1.777
8.00	25.957	2.254	7.00	22.349	1.961	7.00	21.647	2.036
8.80	28.204	2.568	7.70	24.318	2.224	7.70	23.552	2.311
9.60	30.392	2.901	8.40	26.242	2.502	8.40	25.412	2.601
10.40	32.521	3.257	9.10	28.121	2.796	9.10	27.227	2.907
11.20	34.592	3.635	9.80	29.955	3.106	9.80	29.000	3.232
12.00	36.607	4.038	10.50	31.746	3.435	10.50	30.729	3.575
12.80	38.566	4.467	11.20	33.494	3.782	11.20	32.416	3.938
13.60	40.471	4.924	11.90	35.199	4.149	11.90	34.062	4.321
14.40	42.321	5.411	12.60	36.862	4.537	12.60	35.666	4.727
15.20	44.119	5.929	13.30	38.484	4.947	13.30	37.231	5.157
16.00	45.864	6.482	14.00	40.066	5.381	14.00	38.755	5.611
16.80	47.559	7.070	14.70	41.607	5.839	14.70	40.241	6.092
17.60	49.204	7.697	15.40	43.110	6.325	15.40	41.688	6.601
18.40	50.799	8.366	16.10	44.573	6.837	16.10	43.097	7.140
19.20	52.346	9.079	16.80	45.999	7.380	16.80	44.469	7.710
20.00	53.846	9.839	17.50	47.387	7.954	17.50	45.805	8.313
20.80	55.299	10.650	18.20	48.738	8.562	18.20	47.104	8.953
21.60	56.707	11.515	18.90	50.053	9.205	18.90	48.369	9.629
22.40	58.070	12.438	19.60	51.332	9.885	19.60	49.598	10.346
23.20	59.390	13.423	20.30	52.576	10.605	20.30	50.793	11.106
171.00	78.282		170.00	74.991		169.00	71.802	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.70	2.314	0.161	0.70	2.243	0.167	0.70	2.172	0.173
1.40	4.579	0.332	1.40	4.436	0.344	1.40	4.297	0.358
2.10	6.793	0.513	2.10	6.581	0.532	2.10	6.373	0.553
2.80	8.959	0.705	2.80	8.678	0.732	2.80	8.402	0.760
3.50	11.076	0.908	3.50	10.727	0.943	3.50	10.385	0.979
4.20	13.145	1.123	4.20	12.730	1.166	4.20	12.322	1.212
4.90	15.168	1.351	4.90	14.686	1.403	4.90	14.213	1.459
5.60	17.144	1.592	5.60	16.597	1.654	5.60	16.060	1.721
6.30	19.074	1.847	6.30	18.463	1.920	6.30	17.863	1.998
7.00	20.960	2.117	7.00	20.285	2.202	7.00	19.623	2.292
7.70	22.800	2.403	7.70	22.063	2.500	7.70	21.341	2.604
8.40	24.597	2.705	8.40	23.799	2.816	8.40	23.016	2.934
9.10	26.351	3.025	9.10	25.492	3.151	9.10	24.650	3.284
9.80	28.062	3.364	9.80	27.143	3.505	9.80	26.243	3.655
10.50	29.731	3.723	10.50	28.754	3.880	10.50	27.796	4.048
11.20	31.359	4.103	11.20	30.324	4.278	11.20	29.309	4.464
11.90	32.947	4.504	11.90	31.854	4.699	11.90	30.784	4.905
12.60	34.494	4.930	12.60	33.345	5.145	12.60	32.220	5.373
13.30	36.002	5.380	13.30	34.798	5.617	13.30	33.619	5.869
14.00	37.471	5.857	14.00	36.213	6.117	14.00	34.980	6.395
14.70	38.902	6.361	14.70	37.590	6.647	14.70	36.305	6.952
15.40	40.295	6.896	15.40	38.931	7.209	15.40	37.595	7.543
16.10	41.651	7.462	16.10	40.235	7.805	16.10	38.849	8.170
16.80	42.971	8.061	16.80	41.504	8.436	16.80	40.068	8.835
17.50	44.256	8.696	17.50	42.739	9.105	17.50	41.254	9.540
18.20	45.505	9.369	18.20	43.939	9.814	18.20	42.406	10.289
18.90	46.719	10.082	18.90	45.105	10.566	18.90	43.525	11.083
19.60	47.900	10.838	19.60	46.238	11.364	19.60	44.612	11.926
20.30	49.048	11.640	20.30	47.339	12.210	20.30	45.668	12.821

B FACTORS FOR NITROGEN

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
168.00	68.713		167.00	65.723		166.00	62.829	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.70	2.104	0.180	0.70	2.036	0.187	0.60	1.691	0.166
1.40	4.160	0.371	1.40	4.025	0.386	1.20	3.348	0.341
2.10	6.169	0.574	2.10	5.969	0.597	1.80	4.972	0.522
2.80	8.132	0.790	2.80	7.867	0.821	2.40	6.564	0.720
3.50	10.049	1.018	3.50	9.720	1.060	3.00	8.123	0.924
4.20	11.922	1.261	4.20	11.529	1.313	3.60	9.650	1.140
4.90	13.750	1.518	4.90	13.295	1.581	4.20	11.145	1.367
5.60	15.534	1.791	5.60	15.019	1.866	4.80	12.609	1.607
6.30	17.276	2.081	6.30	16.700	2.169	5.40	14.043	1.858
7.00	18.975	2.388	7.00	18.340	2.490	6.00	15.446	2.124
7.70	20.632	2.714	7.70	19.938	2.830	6.60	16.818	2.403
8.40	22.249	3.059	8.40	21.497	3.192	7.20	18.162	2.697
9.10	23.824	3.425	9.10	23.016	3.575	7.80	19.476	3.007
9.80	25.360	3.814	9.80	24.496	3.982	8.40	20.761	3.333
10.50	26.857	4.225	10.50	25.938	4.414	9.00	22.018	3.676
11.20	28.315	4.662	11.20	27.342	4.873	9.60	23.247	4.038
11.90	29.735	5.125	11.90	28.709	5.360	10.20	24.448	4.418
12.60	31.118	5.617	12.60	30.039	5.876	10.80	25.622	4.819
13.30	32.464	6.138	13.30	31.333	6.424	11.40	26.769	5.241
14.00	33.773	6.691	14.00	32.593	7.006	12.00	27.889	5.685
14.70	35.048	7.277	14.70	33.817	7.624	12.60	28.983	6.152
15.40	36.287	7.900	15.40	35.007	8.280	13.20	30.052	6.645
16.10	37.492	8.560	16.10	36.164	8.977	13.80	31.095	7.164
16.80	38.663	9.262	16.80	37.288	9.717	14.40	32.113	7.710
17.50	39.801	10.006	17.50	38.380	10.504	15.00	33.107	8.286
18.20	40.906	10.796	18.20	39.440	11.339	15.60	34.076	8.892
18.90	41.980	11.636	18.90	40.468	12.227	16.20	35.022	9.531
19.60	43.022	12.527	19.60	41.467	13.171	16.80	35.944	10.204
20.30	44.033	13.474	20.30	42.435	14.174	17.40	36.843	10.914

165.00	60.029		164.00	57.322		163.00	54.706	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.60	1.635	0.173	0.60	1.581	0.180	0.60	1.527	0.187
1.20	3.237	0.355	1.20	3.129	0.370	1.20	3.022	0.385
1.80	4.807	0.547	1.80	4.645	0.570	1.80	4.486	0.594
2.40	6.345	0.750	2.40	6.130	0.781	2.40	5.920	0.815
3.00	7.851	0.963	3.00	7.584	1.004	3.00	7.323	1.047
3.60	9.325	1.188	3.60	9.007	1.239	3.60	8.696	1.293
4.20	10.769	1.425	4.20	10.400	1.487	4.20	10.039	1.552
4.80	12.182	1.675	4.80	11.763	1.748	4.80	11.353	1.826
5.40	13.565	1.939	5.40	13.096	2.024	5.40	12.638	2.114
6.00	14.918	2.216	6.00	14.401	2.314	6.00	13.895	2.419
6.60	16.241	2.509	6.60	15.677	2.621	6.60	15.124	2.740
7.20	17.536	2.817	7.20	16.924	2.944	7.20	16.325	3.079
7.80	18.803	3.141	7.80	18.144	3.284	7.80	17.499	3.436
8.40	20.041	3.483	8.40	19.335	3.643	8.40	18.646	3.813
9.00	21.251	3.843	9.00	20.500	4.021	9.00	19.766	4.211
9.60	22.434	4.223	9.60	21.638	4.420	9.60	20.860	4.630
10.20	23.590	4.622	10.20	22.750	4.840	10.20	21.929	5.073
10.80	24.719	5.044	10.80	23.836	5.283	10.80	22.972	5.539
11.40	25.822	5.487	11.40	24.896	5.750	11.40	23.990	6.031
12.00	26.899	5.955	12.00	25.931	6.243	12.00	24.984	6.551
12.60	27.950	6.447	12.60	26.941	6.762	12.60	25.953	7.099
13.20	28.977	6.966	13.20	27.926	7.310	13.20	26.899	7.677
13.80	29.979	7.513	13.80	28.887	7.887	13.80	27.821	8.287
14.40	30.956	8.090	14.40	29.825	8.496	14.40	28.720	8.930
15.00	31.910	8.698	15.00	30.739	9.138	15.00	29.596	9.610
15.60	32.839	9.338	15.60	31.631	9.816	15.60	30.450	10.327
16.20	33.746	10.014	16.20	32.499	10.530	16.20	31.282	11.084
16.80	34.630	10.726	16.80	33.346	11.284	16.80	32.092	11.883
17.40	35.491	11.477	17.40	34.170	12.080	17.40	32.881	12.727

B FACTORS FOR NITROGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
162.00	52.179		161.00	49.738		160.00	47.383	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.60	1.475	0.195	0.60	1.423	0.204	0.50	1.146	0.176
1.20	2.918	0.402	1.20	2.816	0.419	1.00	2.272	0.362
1.80	4.331	0.620	1.80	4.179	0.647	1.50	3.377	0.555
2.40	5.714	0.850	2.40	5.513	0.888	2.00	4.462	0.759
3.00	7.067	1.094	3.00	6.817	1.143	2.50	5.527	0.972
3.60	8.391	1.351	3.60	8.093	1.412	3.00	6.572	1.195
4.20	9.686	1.622	4.20	9.340	1.696	3.50	7.598	1.429
4.80	10.952	1.908	4.80	10.560	1.996	4.00	8.605	1.673
5.40	12.190	2.211	5.40	11.752	2.313	4.50	9.593	1.930
6.00	13.400	2.530	6.00	12.916	2.649	5.00	10.561	2.199
6.60	14.583	2.867	6.60	14.054	3.003	5.50	11.512	2.480
7.20	15.739	3.223	7.20	15.166	3.376	6.00	12.443	2.775
7.80	16.868	3.598	7.80	16.252	3.771	6.50	13.357	3.083
8.40	17.971	3.995	8.40	17.312	4.188	7.00	14.253	3.407
9.00	19.048	4.413	9.00	18.347	4.629	7.50	15.131	3.745
9.60	20.100	4.854	9.60	19.357	5.094	8.00	15.992	4.099
10.20	21.126	5.320	10.20	20.342	5.585	8.50	16.835	4.471
10.80	22.128	5.812	10.80	21.304	6.104	9.00	17.661	4.859
11.40	23.106	6.332	11.40	22.241	6.652	9.50	18.471	5.266
12.00	24.059	6.880	12.00	23.156	7.231	10.00	19.264	5.692
12.60	24.989	7.458	12.60	24.047	7.843	10.50	20.040	6.139
13.20	25.895	8.069	13.20	24.915	8.489	11.00	20.800	6.606
13.80	26.779	8.714	13.80	25.762	9.172	11.50	21.545	7.095
14.40	27.640	9.395	14.40	26.586	9.893	12.00	22.273	7.608
15.00	28.479	10.115	15.00	27.389	10.656	12.50	22.986	8.145
15.60	29.297	10.874	15.60	28.171	11.462	13.00	23.684	8.707
16.20	30.093	11.677	16.20	28.932	12.314	13.50	24.367	9.296
16.80	30.867	12.525	16.80	29.673	13.214	14.00	25.034	9.913
17.40	31.622	13.421	17.40	30.393	14.166	14.50	25.687	10.560
159.00	45.111		158.00	42.921		157.00	40.811	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.50	1.105	0.184	0.50	1.065	0.193	0.50	1.026	0.202
1.00	2.190	0.378	1.00	2.110	0.395	1.00	2.033	0.414
1.50	3.255	0.581	1.50	3.136	0.608	1.50	3.020	0.636
2.00	4.301	0.793	2.00	4.143	0.830	2.00	3.989	0.870
2.50	5.327	1.016	2.50	5.131	1.064	2.50	4.939	1.115
3.00	6.333	1.250	3.00	6.099	1.309	3.00	5.871	1.372
3.50	7.321	1.495	3.50	7.050	1.567	3.50	6.785	1.643
4.00	8.290	1.752	4.00	7.982	1.836	4.00	7.681	1.926
4.50	9.240	2.022	4.50	8.895	2.119	4.50	8.559	2.223
5.00	10.172	2.304	5.00	9.791	2.416	5.00	9.419	2.536
5.50	11.085	2.600	5.50	10.669	2.727	5.50	10.263	2.863
6.00	11.981	2.909	6.00	11.530	3.053	6.00	11.089	3.206
6.50	12.859	3.234	6.50	12.373	3.395	6.50	11.898	3.567
7.00	13.720	3.574	7.00	13.199	3.753	7.00	12.691	3.945
7.50	14.563	3.931	7.50	14.009	4.129	7.50	13.468	4.341
8.00	15.390	4.304	8.00	14.802	4.523	8.00	14.228	4.757
8.50	16.199	4.696	8.50	15.578	4.936	8.50	14.972	5.193
9.00	16.992	5.105	9.00	16.339	5.369	9.00	15.701	5.651
9.50	17.768	5.535	9.50	17.083	5.823	9.50	16.414	6.131
10.00	18.529	5.985	10.00	17.811	6.299	10.00	17.112	6.634
10.50	19.273	6.457	10.50	18.524	6.797	10.50	17.794	7.163
11.00	20.002	6.951	11.00	19.222	7.320	11.00	18.462	7.717
11.50	20.715	7.469	11.50	19.905	7.869	11.50	19.115	8.298
12.00	21.412	8.011	12.00	20.572	8.444	12.00	19.753	8.908
12.50	22.095	8.580	12.50	21.225	9.047	12.50	20.378	9.547
13.00	22.763	9.176	13.00	21.864	9.679	13.00	20.988	10.219
13.50	23.416	9.800	13.50	22.488	10.342	13.50	21.584	10.923
14.00	24.054	10.455	14.00	23.098	11.037	14.00	22.166	11.662
14.50	24.678	11.141	14.50	23.694	11.766	14.50	22.735	12.438

B FACTORS FOR NITROGEN

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
156.00	38.778		155.00	36.822		154.00	34.940	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.50	0.988	0.211	0.50	0.950	0.221	0.50	0.914	0.232
1.00	1.956	0.433	1.00	1.882	0.454	1.00	1.810	0.477
1.50	2.907	0.667	1.50	2.796	0.699	1.50	2.688	0.734
2.00	3.838	0.912	2.00	3.692	0.957	2.00	3.548	1.004
2.50	4.752	1.169	2.50	4.570	1.227	2.50	4.392	1.289
3.00	5.648	1.440	3.00	5.430	1.511	3.00	5.218	1.588
3.50	6.526	1.724	3.50	6.274	1.810	3.50	6.027	1.903
4.00	7.387	2.022	4.00	7.100	2.124	4.00	6.820	2.233
4.50	8.230	2.335	4.50	7.909	2.454	4.50	7.597	2.581
5.00	9.056	2.663	5.00	8.702	2.800	5.00	8.357	2.946
5.50	9.866	3.008	5.50	9.479	3.164	5.50	9.101	3.330
6.00	10.659	3.370	6.00	10.239	3.546	6.00	9.830	3.734
6.50	11.435	3.750	6.50	10.983	3.947	6.50	10.543	4.158
7.00	12.196	4.149	7.00	11.712	4.369	7.00	11.241	4.603
7.50	12.940	4.568	7.50	12.425	4.811	7.50	11.923	5.072
8.00	13.668	5.008	8.00	13.123	5.276	8.00	12.591	5.564
8.50	14.381	5.469	8.50	13.805	5.764	8.50	13.244	6.081
9.00	15.079	5.953	9.00	14.473	6.277	9.00	13.882	6.624
9.50	15.762	6.461	9.50	15.126	6.815	9.50	14.506	7.195
10.00	16.429	6.994	10.00	15.764	7.381	10.00	15.117	7.796
10.50	17.082	7.554	10.50	16.389	7.975	10.50	15.713	8.426
11.00	17.721	8.142	11.00	16.999	8.598	11.00	16.295	9.089
11.50	18.345	8.758	11.50	17.595	9.253	11.50	16.864	9.785
12.00	18.955	9.406	12.00	18.177	9.941	12.00	17.420	10.518
12.50	19.551	10.086	12.50	18.747	10.664	12.50	17.963	11.287
13.00	20.134	10.799	13.00	19.302	11.424	13.00	18.493	12.096
13.50	20.703	11.548	13.50	19.845	12.221	13.50	19.010	12.946
14.00	21.259	12.335	14.00	20.375	13.059	14.00	19.515	13.840
14.50	21.801	13.161	14.50	20.892	13.940	14.50	20.007	14.780

153.00	33.130		152.00	31.392		151.00	29.722	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.40	0.704	0.194	0.40	0.676	0.204	0.40	0.649	0.214
0.80	1.397	0.396	0.80	1.341	0.417	0.80	1.287	0.438
1.20	2.078	0.607	1.20	1.995	0.638	1.20	1.915	0.671
1.60	2.749	0.827	1.60	2.639	0.869	1.60	2.532	0.915
2.00	3.408	1.055	2.00	3.272	1.110	2.00	3.139	1.168
2.40	4.057	1.294	2.40	3.894	1.361	2.40	3.736	1.433
2.80	4.696	1.542	2.80	4.507	1.623	2.80	4.322	1.709
3.20	5.323	1.800	3.20	5.108	1.895	3.20	4.899	1.996
3.60	5.941	2.070	3.60	5.700	2.179	3.60	5.466	2.296
4.00	6.547	2.350	4.00	6.282	2.475	4.00	6.023	2.609
4.40	7.144	2.642	4.40	6.853	2.783	4.40	6.570	2.935
4.80	7.731	2.946	4.80	7.415	3.104	4.80	7.108	3.274
5.20	8.307	3.262	5.20	7.967	3.439	5.20	7.636	3.628
5.60	8.874	3.592	5.60	8.510	3.787	5.60	8.155	3.997
6.00	9.431	3.935	6.00	9.043	4.150	6.00	8.664	4.382
6.40	9.978	4.292	6.40	9.566	4.528	6.40	9.165	4.782
6.80	10.516	4.663	6.80	10.080	4.922	6.80	9.656	5.200
7.20	11.044	5.050	7.20	10.585	5.332	7.20	10.139	5.635
7.60	11.563	5.453	7.60	11.081	5.759	7.60	10.613	6.088
8.00	12.073	5.872	8.00	11.568	6.204	8.00	11.077	6.560
8.40	12.573	6.309	8.40	12.046	6.667	8.40	11.534	7.053
8.80	13.065	6.763	8.80	12.516	7.150	8.80	11.982	7.565
9.20	13.547	7.236	9.20	12.976	7.652	9.20	12.421	8.100
9.60	14.021	7.729	9.60	13.428	8.176	9.60	12.852	8.657
10.00	14.486	8.241	10.00	13.872	8.721	10.00	13.275	9.237
10.40	14.942	8.775	10.40	14.307	9.289	10.40	13.690	9.842
10.80	15.390	9.330	10.80	14.734	9.880	10.80	14.096	10.472
11.20	15.829	9.909	11.20	15.153	10.496	11.20	14.495	11.129
11.60	16.260	10.511	11.60	15.564	11.138	11.60	14.886	11.814

B FACTORS FOR NITROGEN

150.00			149.00			148.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.40	0.622	0.226	0.40	0.597	0.238	0.40	0.572	0.250
0.80	1.235	0.461	0.80	1.183	0.486	0.80	1.133	0.512
1.20	1.836	0.707	1.20	1.760	0.745	1.20	1.686	0.785
1.60	2.428	0.963	1.60	2.327	1.015	1.60	2.228	1.071
2.00	3.010	1.231	2.00	2.884	1.298	2.00	2.761	1.369
2.40	3.581	1.510	2.40	3.431	1.593	2.40	3.285	1.681
2.80	4.143	1.801	2.80	3.969	1.900	2.80	3.799	2.007
3.20	4.695	2.105	3.20	4.497	2.222	3.20	4.304	2.346
3.60	5.238	2.422	3.60	5.016	2.557	3.60	4.800	2.701
4.00	5.771	2.753	4.00	5.525	2.907	4.00	5.287	3.072
4.40	6.294	3.097	4.40	6.026	3.272	4.40	5.765	3.459
4.80	6.808	3.457	4.80	6.517	3.652	4.80	6.234	3.863
5.20	7.313	3.832	5.20	7.000	4.050	5.20	6.695	4.284
5.60	7.809	4.222	5.60	7.473	4.464	5.60	7.147	4.725
6.00	8.296	4.630	6.00	7.938	4.897	6.00	7.590	5.184
6.40	8.774	5.055	6.40	8.395	5.348	6.40	8.026	5.664
6.80	9.244	5.498	6.80	8.842	5.819	6.80	8.453	6.164
7.20	9.704	5.960	7.20	9.282	6.310	7.20	8.871	6.687
7.60	10.156	6.441	7.60	9.713	6.822	7.60	9.282	7.232
8.00	10.600	6.944	8.00	10.136	7.356	8.00	9.685	7.801
8.40	11.035	7.467	8.40	10.551	7.914	8.40	10.080	8.395
8.80	11.462	8.013	8.80	10.957	8.495	8.80	10.467	9.015
9.20	11.881	8.582	9.20	11.356	9.101	9.20	10.847	9.662
9.60	12.292	9.175	9.60	11.747	9.734	9.60	11.219	10.337
10.00	12.695	9.794	10.00	12.131	10.394	10.00	11.583	11.042
10.40	13.089	10.439	10.40	12.506	11.082	10.40	11.940	11.777
10.80	13.477	11.111	10.80	12.875	11.800	10.80	12.290	12.545
11.20	13.856	11.812	11.20	13.235	12.550	11.20	12.633	13.347
11.60	14.228	12.543	11.60	13.589	13.331	11.60	12.968	14.184

147.00			146.00			145.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.40	0.547	0.264	0.40	0.524	0.279	0.30	0.376	0.220
0.80	1.085	0.540	0.80	1.038	0.571	0.60	0.747	0.447
1.20	1.613	0.829	1.20	1.543	0.876	0.90	1.113	0.683
1.60	2.132	1.131	1.60	2.039	1.195	1.20	1.474	0.926
2.00	2.642	1.446	2.00	2.526	1.529	1.50	1.830	1.178
2.40	3.142	1.776	2.40	3.004	1.878	1.80	2.182	1.439
2.80	3.634	2.121	2.80	3.473	2.243	2.10	2.528	1.709
3.20	4.116	2.481	3.20	3.934	2.625	2.40	2.869	1.988
3.60	4.590	2.857	3.60	4.386	3.024	2.70	3.206	2.277
4.00	5.055	3.250	4.00	4.829	3.441	3.00	3.538	2.575
4.40	5.511	3.660	4.40	5.265	3.877	3.30	3.865	2.884
4.80	5.959	4.089	4.80	5.692	4.332	3.60	4.188	3.204
5.20	6.398	4.537	5.20	6.110	4.809	3.90	4.506	3.534
5.60	6.829	5.005	5.60	6.521	5.306	4.20	4.819	3.876
6.00	7.252	5.493	6.00	6.924	5.826	4.50	5.128	4.229
6.40	7.667	6.003	6.40	7.319	6.370	4.80	5.432	4.595
6.80	8.074	6.536	6.80	7.706	6.937	5.10	5.732	4.973
7.20	8.473	7.093	7.20	8.086	7.531	5.40	6.027	5.363
7.60	8.864	7.674	7.60	8.458	8.150	5.70	6.319	5.768
8.00	9.247	8.280	8.00	8.822	8.798	6.00	6.605	6.185
8.40	9.623	8.914	8.40	9.179	9.475	6.30	6.888	6.617
8.80	9.991	9.576	8.80	9.529	10.182	6.60	7.166	7.064
9.20	10.352	10.267	9.20	9.872	10.921	6.90	7.440	7.526
9.60	10.705	10.988	9.60	10.208	11.693	7.20	7.710	8.004
10.00	11.052	11.742	10.00	10.536	12.499	7.50	7.976	8.497
10.40	11.391	12.529	10.40	10.858	13.342	7.80	8.238	9.008
10.80	11.723	13.351	10.80	11.173	14.223	8.10	8.495	9.535
11.20	12.048	14.209	11.20	11.481	15.144	8.40	8.749	10.081
11.60	12.367	15.106	11.60	11.783	16.106	8.70	8.999	10.645

B FACTORS FOR NITROGEN

144.00			143.00			142.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.30	0.359	0.232	0.30	0.343	0.246	0.30	0.327	0.261
0.60	0.714	0.473	0.60	0.681	0.501	0.60	0.650	0.531
0.90	1.063	0.722	0.90	1.015	0.765	0.90	0.968	0.811
1.20	1.408	0.980	1.20	1.344	1.038	1.20	1.281	1.101
1.50	1.748	1.247	1.50	1.668	1.321	1.50	1.590	1.401
1.80	2.083	1.524	1.80	1.987	1.615	1.80	1.894	1.713
2.10	2.413	1.810	2.10	2.302	1.918	2.10	2.194	2.036
2.40	2.739	2.106	2.40	2.612	2.233	2.40	2.489	2.370
2.70	3.060	2.412	2.70	2.918	2.559	2.70	2.781	2.716
3.00	3.376	2.730	3.00	3.219	2.896	3.00	3.067	3.075
3.30	3.688	3.058	3.30	3.516	3.245	3.30	3.350	3.446
3.60	3.995	3.397	3.60	3.809	3.606	3.60	3.628	3.831
3.90	4.298	3.749	3.90	4.097	3.980	3.90	3.902	4.230
4.20	4.597	4.112	4.20	4.381	4.367	4.20	4.172	4.643
4.50	4.891	4.488	4.50	4.661	4.768	4.50	4.438	5.070
4.80	5.180	4.878	4.80	4.936	5.183	4.80	4.700	5.513
5.10	5.466	5.280	5.10	5.208	5.612	5.10	4.957	5.971
5.40	5.747	5.697	5.40	5.475	6.056	5.40	5.211	6.445
5.70	6.024	6.127	5.70	5.738	6.516	5.70	5.461	6.937
6.00	6.296	6.573	6.00	5.997	6.992	6.00	5.707	7.445
6.30	6.565	7.034	6.30	6.252	7.485	6.30	5.949	7.972
6.60	6.829	7.511	6.60	6.503	7.994	6.60	6.187	8.517
6.90	7.090	8.004	6.90	6.750	8.522	6.90	6.421	9.082
7.20	7.346	8.515	7.20	6.993	9.068	7.20	6.652	9.666
7.50	7.599	9.042	7.50	7.233	9.632	7.50	6.879	10.272
7.80	7.847	9.588	7.80	7.469	10.217	7.80	7.102	10.898
8.10	8.092	10.153	8.10	7.700	10.822	8.10	7.322	11.547
8.40	8.332	10.737	8.40	7.929	11.448	8.40	7.538	12.218
8.70	8.569	11.341	8.70	8.153	12.095	8.70	7.751	12.914

141.00			140.00			139.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.30	0.312	0.276	0.30	0.297	0.293	0.30	0.283	0.312
0.60	0.619	0.563	0.60	0.589	0.598	0.60	0.561	0.635
0.90	0.922	0.860	0.90	0.878	0.913	0.90	0.835	0.971
1.20	1.220	1.168	1.20	1.162	1.241	1.20	1.105	1.319
1.50	1.514	1.488	1.50	1.441	1.581	1.50	1.371	1.681
1.80	1.804	1.819	1.80	1.717	1.933	1.80	1.632	2.056
2.10	2.089	2.162	2.10	1.988	2.298	2.10	1.890	2.446
2.40	2.371	2.518	2.40	2.255	2.677	2.40	2.144	2.850
2.70	2.647	2.886	2.70	2.518	3.070	2.70	2.394	3.269
3.00	2.920	3.268	3.00	2.777	3.477	3.00	2.639	3.703
3.30	3.189	3.664	3.30	3.033	3.900	3.30	2.881	4.154
3.60	3.453	4.075	3.60	3.284	4.338	3.60	3.120	4.622
3.90	3.713	4.500	3.90	3.531	4.791	3.90	3.354	5.107
4.20	3.970	4.940	4.20	3.774	5.262	4.20	3.585	5.610
4.50	4.222	5.396	4.50	4.014	5.750	4.50	3.812	6.132
4.80	4.471	5.869	4.80	4.249	6.255	4.80	4.035	6.673
5.10	4.715	6.359	5.10	4.481	6.779	5.10	4.255	7.234
5.40	4.956	6.866	5.40	4.709	7.322	5.40	4.471	7.816
5.70	5.193	7.392	5.70	4.934	7.885	5.70	4.683	8.419
6.00	5.426	7.936	6.00	5.155	8.468	6.00	4.892	9.045
6.30	5.656	8.500	6.30	5.372	9.072	6.30	5.098	9.693
6.60	5.881	9.084	6.60	5.586	9.698	6.60	5.300	10.366
6.90	6.103	9.689	6.90	5.796	10.348	6.90	5.498	11.063
7.20	6.322	10.316	7.20	6.002	11.020	7.20	5.694	11.786
7.50	6.537	10.965	7.50	6.206	11.717	7.50	5.886	12.535
7.80	6.748	11.637	7.80	6.405	12.440	7.80	6.075	13.312
8.10	6.956	12.333	8.10	6.602	13.188	8.10	6.260	14.118
8.40	7.160	13.055	8.40	6.795	13.964	8.40	6.442	14.953
8.70	7.361	13.802	8.70	6.985	14.768	8.70	6.622	15.819

B FACTORS FOR NITROGEN

138.00			137.00			136.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.30	0.269	0.331	0.30	0.255	0.353	0.20	0.162	0.249
0.60	0.533	0.676	0.60	0.506	0.719	0.40	0.322	0.504
0.90	0.793	1.033	0.90	0.753	1.100	0.60	0.480	0.767
1.20	1.050	1.404	1.20	0.997	1.496	0.80	0.637	1.036
1.50	1.302	1.789	1.50	1.236	1.907	1.00	0.792	1.312
1.80	1.551	2.190	1.80	1.472	2.334	1.20	0.945	1.595
2.10	1.795	2.605	2.10	1.704	2.777	1.40	1.097	1.886
2.40	2.036	3.036	2.40	1.932	3.238	1.60	1.247	2.184
2.70	2.273	3.484	2.70	2.156	3.716	1.80	1.395	2.490
3.00	2.506	3.948	3.00	2.377	4.213	2.00	1.542	2.804
3.30	2.735	4.430	3.30	2.594	4.729	2.20	1.688	3.127
3.60	2.961	4.930	3.60	2.808	5.265	2.40	1.831	3.457
3.90	3.183	5.449	3.90	3.018	5.821	2.60	1.973	3.796
4.20	3.402	5.988	4.20	3.225	6.398	2.80	2.114	4.144
4.50	3.617	6.547	4.50	3.428	6.997	3.00	2.253	4.501
4.80	3.828	7.127	4.80	3.628	7.619	3.20	2.390	4.867
5.10	4.036	7.728	5.10	3.824	8.265	3.40	2.526	5.242
5.40	4.240	8.352	5.40	4.018	8.935	3.60	2.660	5.627
5.70	4.441	9.000	5.70	4.207	9.631	3.80	2.793	6.022
6.00	4.639	9.671	6.00	4.394	10.353	4.00	2.925	6.428
6.30	4.833	10.368	6.30	4.577	11.102	4.20	3.054	6.843
6.60	5.024	11.091	6.60	4.758	11.880	4.40	3.183	7.269
6.90	5.212	11.840	6.90	4.935	12.687	4.60	3.310	7.706
7.20	5.396	12.618	7.20	5.109	13.525	4.80	3.435	8.154
7.50	5.577	13.425	7.50	5.280	14.394	5.00	3.559	8.614
7.80	5.755	14.262	7.80	5.447	15.296	5.20	3.682	9.085
8.10	5.930	15.130	8.10	5.612	16.233	5.40	3.803	9.569
8.40	6.102	16.030	8.40	5.774	17.204	5.60	3.923	10.065
8.70	6.271	16.964	8.70	5.933	18.213	5.80	4.041	10.573

135.00			134.00			133.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.20	0.153	0.265	0.20	0.145	0.283	0.20	0.137	0.303
0.40	0.305	0.538	0.40	0.289	0.574	0.40	0.273	0.614
0.60	0.455	0.818	0.60	0.431	0.873	0.60	0.408	0.934
0.80	0.604	1.105	0.80	0.571	1.180	0.80	0.540	1.262
1.00	0.750	1.400	1.00	0.710	1.496	1.00	0.672	1.599
1.20	0.895	1.703	1.20	0.848	1.819	1.20	0.802	1.946
1.40	1.039	2.013	1.40	0.984	2.152	1.40	0.930	2.302
1.60	1.181	2.332	1.60	1.118	2.493	1.60	1.057	2.668
1.80	1.322	2.660	1.80	1.251	2.844	1.80	1.182	3.044
2.00	1.461	2.996	2.00	1.382	3.204	2.00	1.307	3.430
2.20	1.598	3.341	2.20	1.512	3.573	2.20	1.429	3.826
2.40	1.734	3.695	2.40	1.640	3.953	2.40	1.550	4.234
2.60	1.868	4.058	2.60	1.767	4.342	2.60	1.670	4.652
2.80	2.001	4.431	2.80	1.893	4.742	2.80	1.789	5.081
3.00	2.133	4.813	3.00	2.017	5.153	3.00	1.906	5.522
3.20	2.262	5.206	3.20	2.140	5.574	3.20	2.021	5.975
3.40	2.391	5.609	3.40	2.261	6.007	3.40	2.135	6.440
3.60	2.518	6.022	3.60	2.381	6.451	3.60	2.248	6.918
3.80	2.643	6.446	3.80	2.499	6.906	3.80	2.360	7.408
4.00	2.767	6.881	4.00	2.616	7.374	4.00	2.470	7.912
4.20	2.890	7.327	4.20	2.732	7.854	4.20	2.579	8.429
4.40	3.011	7.785	4.40	2.846	8.347	4.40	2.687	8.960
4.60	3.131	8.255	4.60	2.959	8.853	4.60	2.793	9.505
4.80	3.249	8.737	4.80	3.070	9.372	4.80	2.898	10.064
5.00	3.366	9.232	5.00	3.181	9.904	5.00	3.002	10.639
5.20	3.482	9.739	5.20	3.289	10.451	5.20	3.104	11.228
5.40	3.596	10.259	5.40	3.397	11.012	5.40	3.205	11.834
5.60	3.709	10.793	5.60	3.503	11.588	5.60	3.305	12.455
5.80	3.821	11.341	5.80	3.608	12.178	5.80	3.404	13.093

B FACTORS FOR NITROGEN

TF1 (R) 132.00 PF1 (PSIA) 8.888			TF1 (R) 131.00 PF1 (PSIA) 8.253			TF1 (R) 130.00 PF1 (PSIA) 7.654		
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.20	0.130	0.324	0.20	0.123	0.347	0.20	0.116	0.372
0.40	0.258	0.657	0.40	0.244	0.703	0.40	0.230	0.754
0.60	0.385	0.999	0.60	0.364	1.070	0.60	0.343	1.148
0.80	0.511	1.351	0.80	0.482	1.447	0.80	0.454	1.553
1.00	0.635	1.712	1.00	0.599	1.835	1.00	0.565	1.969
1.20	0.757	2.084	1.20	0.715	2.234	1.20	0.674	2.398
1.40	0.878	2.466	1.40	0.829	2.644	1.40	0.781	2.838
1.60	0.998	2.858	1.60	0.942	3.066	1.60	0.887	3.291
1.80	1.117	3.262	1.80	1.053	3.499	1.80	0.993	3.758
2.00	1.234	3.676	2.00	1.164	3.944	2.00	1.096	4.237
2.20	1.349	4.102	2.20	1.273	4.402	2.20	1.199	4.730
2.40	1.464	4.539	2.40	1.380	4.873	2.40	1.300	5.237
2.60	1.576	4.989	2.60	1.486	5.357	2.60	1.400	5.758
2.80	1.688	5.451	2.80	1.591	5.854	2.80	1.499	6.294
3.00	1.798	5.925	3.00	1.695	6.365	3.00	1.596	6.845
3.20	1.907	6.413	3.20	1.798	6.890	3.20	1.693	7.411
3.40	2.015	6.913	3.40	1.899	7.429	3.40	1.788	7.994
3.60	2.121	7.428	3.60	1.999	7.984	3.60	1.882	8.592
3.80	2.226	7.956	3.80	2.098	8.554	3.80	1.974	9.208
4.00	2.330	8.499	4.00	2.195	9.139	4.00	2.066	9.840
4.20	2.432	9.056	4.20	2.292	9.741	4.20	2.156	10.491
4.40	2.534	9.628	4.40	2.387	10.359	4.40	2.246	11.159
4.60	2.634	10.216	4.60	2.481	10.995	4.60	2.334	11.847
4.80	2.732	10.820	4.80	2.573	11.647	4.80	2.421	12.553
5.00	2.830	11.441	5.00	2.665	12.318	5.00	2.507	13.279
5.20	2.926	12.078	5.20	2.755	13.007	5.20	2.591	14.025
5.40	3.021	12.732	5.40	2.845	13.715	5.40	2.675	14.793
5.60	3.115	13.404	5.60	2.933	14.442	5.60	2.757	15.581
5.80	3.208	14.094	5.80	3.020	15.190	5.80	2.839	16.391

TF1 (R) 129.00 PF1 (PSIA) 7.090			TF1 (R) 128.00 PF1 (PSIA) 6.558			TF1 (R) 127.00 PF1 (PSIA) 6.058		
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.20	0.109	0.399	0.20	0.102	0.429	0.20	0.096	0.461
0.40	0.217	0.810	0.40	0.204	0.870	0.40	0.191	0.936
0.60	0.323	1.232	0.60	0.304	1.325	0.60	0.285	1.426
0.80	0.428	1.668	0.80	0.402	1.793	0.80	0.378	1.930
1.00	0.532	2.115	1.00	0.500	2.275	1.00	0.470	2.449
1.20	0.634	2.576	1.20	0.596	2.771	1.20	0.560	2.984
1.40	0.735	3.050	1.40	0.691	3.282	1.40	0.649	3.535
1.60	0.835	3.538	1.60	0.785	3.808	1.60	0.737	4.103
1.80	0.934	4.040	1.80	0.878	4.349	1.80	0.824	4.687
2.00	1.032	4.556	2.00	0.970	4.906	2.00	0.910	5.289
2.20	1.128	5.088	2.20	1.060	5.479	2.20	0.995	5.908
2.40	1.223	5.634	2.40	1.149	6.070	2.40	1.079	6.546
2.60	1.317	6.197	2.60	1.237	6.677	2.60	1.161	7.203
2.80	1.410	6.775	2.80	1.324	7.302	2.80	1.243	7.879
3.00	1.501	7.370	3.00	1.410	7.945	3.00	1.323	8.576
3.20	1.592	7.982	3.20	1.495	8.607	3.20	1.402	9.292
3.40	1.681	8.611	3.40	1.579	9.287	3.40	1.481	10.030
3.60	1.769	9.258	3.60	1.661	9.988	3.60	1.558	10.789
3.80	1.856	9.924	3.80	1.743	10.709	3.80	1.634	11.571
4.00	1.942	10.608	4.00	1.823	11.450	4.00	1.709	12.375
4.20	2.027	11.312	4.20	1.902	12.213	4.20	1.784	13.203
4.40	2.110	12.036	4.40	1.981	12.998	4.40	1.857	14.056
4.60	2.193	12.781	4.60	2.058	13.806	4.60	1.929	14.933
4.80	2.274	13.546	4.80	2.134	14.637	4.80	2.000	15.836
5.00	2.355	14.333	5.00	2.209	15.491	5.00	2.070	16.765
5.20	2.434	15.143	5.20	2.284	16.370	5.20	2.140	17.721
5.40	2.512	15.975	5.40	2.357	17.275	5.40	2.208	18.705
5.60	2.590	16.831	5.60	2.429	18.205	5.60	2.275	19.717
5.80	2.666	17.711	5.80	2.500	19.162	5.80	2.342	20.759

B FACTORS FOR NITROGEN

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
126.00	5.589		125.00	5.148		124.00	4.735	
DTV (R)	DPV (PSIA)		DTV (R)	DPV (PSIA)		DTV (R)	DPV (PSIA)	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.20	0.090	0.497	0.20	0.085	0.536	0.20	0.079	0.578
0.40	0.180	1.009	0.40	0.168	1.088	0.40	0.158	1.175
0.60	0.268	1.936	0.60	0.251	1.657	0.60	0.235	1.790
0.80	0.355	2.080	0.80	0.332	2.245	0.80	0.311	2.425
1.00	0.441	2.641	1.00	0.413	2.850	1.00	0.386	3.080
1.20	0.525	3.218	1.20	0.492	3.474	1.20	0.460	3.756
1.40	0.609	3.813	1.40	0.570	4.118	1.40	0.534	4.453
1.60	0.692	4.426	1.60	0.648	4.781	1.60	0.606	5.171
1.80	0.773	5.058	1.80	0.724	5.465	1.80	0.677	5.913
2.00	0.853	5.709	2.00	0.799	6.170	2.00	0.747	6.677
2.20	0.933	6.379	2.20	0.873	6.896	2.20	0.816	7.465
2.40	1.011	7.070	2.40	0.946	7.645	2.40	0.885	8.277
2.60	1.088	7.781	2.60	1.019	8.416	2.60	0.952	9.115
2.80	1.165	8.514	2.80	1.090	9.211	2.80	1.019	9.979
3.00	1.240	9.268	3.00	1.160	10.030	3.00	1.084	10.869
3.20	1.314	10.045	3.20	1.229	10.874	3.20	1.149	11.787
3.40	1.387	10.846	3.40	1.298	11.743	3.40	1.212	12.733
3.60	1.459	11.670	3.60	1.365	12.639	3.60	1.275	13.708
3.80	1.530	12.519	3.80	1.431	13.562	3.80	1.337	14.713
4.00	1.601	13.393	4.00	1.497	14.513	4.00	1.398	15.749
4.20	1.670	14.293	4.20	1.561	15.493	4.20	1.458	16.817
4.40	1.738	15.219	4.40	1.625	16.502	4.40	1.517	17.918
4.60	1.806	16.174	4.60	1.688	17.541	4.60	1.576	19.052
4.80	1.872	17.156	4.80	1.750	18.612	4.80	1.633	20.221
5.00	1.937	18.168	5.00	1.811	19.715	5.00	1.690	21.425
5.20	2.002	19.209	5.20	1.871	20.851	5.20	1.746	22.667
5.40	2.066	20.281	5.40	1.930	22.022	5.40	1.801	23.946
5.60	2.128	21.385	5.60	1.988	23.227	5.60	1.855	25.264
5.80	2.190	22.522	5.80	2.046	24.468	5.80	1.908	26.622
123.00	4.349		122.00	3.988		121.00	3.651	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.10	0.037	0.310	0.10	0.035	0.336	0.10	0.032	0.364
0.20	0.074	0.625	0.20	0.069	0.677	0.20	0.065	0.733
0.30	0.111	0.945	0.30	0.104	1.023	0.30	0.097	1.109
0.40	0.147	1.270	0.40	0.138	1.375	0.40	0.128	1.491
0.50	0.184	1.601	0.50	0.171	1.733	0.50	0.160	1.880
0.60	0.220	1.936	0.60	0.205	2.097	0.60	0.191	2.274
0.70	0.255	2.277	0.70	0.238	2.467	0.70	0.222	2.676
0.80	0.291	2.624	0.80	0.271	2.842	0.80	0.253	3.084
0.90	0.326	2.976	0.90	0.304	3.224	0.90	0.283	3.498
1.00	0.361	3.333	1.00	0.337	3.612	1.00	0.314	3.920
1.10	0.396	3.697	1.10	0.369	4.006	1.10	0.344	4.348
1.20	0.430	4.066	1.20	0.401	4.407	1.20	0.374	4.783
1.30	0.464	4.440	1.30	0.433	4.814	1.30	0.404	5.226
1.40	0.499	4.821	1.40	0.465	5.227	1.40	0.433	5.676
1.50	0.532	5.208	1.50	0.497	5.647	1.50	0.462	6.133
1.60	0.566	5.601	1.60	0.528	6.074	1.60	0.492	6.597
1.70	0.599	6.000	1.70	0.559	6.508	1.70	0.520	7.069
1.80	0.632	6.405	1.80	0.590	6.949	1.80	0.549	7.549
1.90	0.665	6.817	1.90	0.620	7.396	1.90	0.578	8.036
2.00	0.698	7.235	2.00	0.651	7.851	2.00	0.606	8.532
2.10	0.730	7.660	2.10	0.681	8.313	2.10	0.634	9.035
2.20	0.762	8.091	2.20	0.711	8.783	2.20	0.662	9.547
2.30	0.794	8.530	2.30	0.740	9.260	2.30	0.689	10.067
2.40	0.826	8.975	2.40	0.770	9.744	2.40	0.717	10.595
2.50	0.857	9.427	2.50	0.799	10.237	2.50	0.744	11.132
2.60	0.889	9.886	2.60	0.828	10.737	2.60	0.771	11.678
2.70	0.920	10.352	2.70	0.857	11.245	2.70	0.798	12.232
2.80	0.951	10.825	2.80	0.886	11.761	2.80	0.824	12.795
2.90	0.981	11.306	2.90	0.914	12.285	2.90	0.851	13.367

Appendix D: B-factors for fluorine, calculated from eq (5).

B FACTORS FOR FLUORINE

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
250.00	599.358		248.00	570.787		246.00	543.279	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.50	21.530	0.125	1.50	20.728	0.120	1.50	19.958	0.119
3.00	42.455	0.256	3.00	40.876	0.249	3.00	39.359	0.246
4.50	62.795	0.395	4.50	60.461	0.386	4.50	58.215	0.384
6.00	82.565	0.543	6.00	79.497	0.533	6.00	76.542	0.531
7.50	101.783	0.701	7.50	97.999	0.690	7.50	94.351	0.688
9.00	120.461	0.870	9.00	115.979	0.858	9.00	111.654	0.857
10.50	138.614	1.050	10.50	133.450	1.038	10.50	128.463	1.038
12.00	156.253	1.242	12.00	150.422	1.230	12.00	144.788	1.232
13.50	173.398	1.446	13.50	166.907	1.435	13.50	160.640	1.439
15.00	190.037	1.664	15.00	182.916	1.654	15.00	176.028	1.661
16.50	206.203	1.896	16.50	198.458	1.888	16.50	190.963	1.899
18.00	221.899	2.144	18.00	213.543	2.139	18.00	205.453	2.154
19.50	237.135	2.409	19.50	228.180	2.407	19.50	219.507	2.427
21.00	251.921	2.691	21.00	242.378	2.693	21.00	233.134	2.720
22.50	266.264	2.993	22.50	256.147	3.000	22.50	246.343	3.033
24.00	280.175	3.316	24.00	269.494	3.328	24.00	259.142	3.369
25.50	293.662	3.660	25.50	282.429	3.679	25.50	271.538	3.729
27.00	306.733	4.028	27.00	294.958	4.054	27.00	283.541	4.115
28.50	319.397	4.421	28.50	307.092	4.457	28.50	295.158	4.529
30.00	331.662	4.842	30.00	318.836	4.887	30.00	306.396	4.973
31.50	343.535	5.292	31.50	330.199	5.349	31.50	317.263	5.449
33.00	355.024	5.774	33.00	341.189	5.844	33.00	327.767	5.960
34.50	366.138	6.289	34.50	351.813	6.374	34.50	337.915	6.509
36.00	376.883	6.841	36.00	362.079	6.943	36.00	347.714	7.099
37.50	387.268	7.432	37.50	371.994	7.553	37.50	357.172	7.732
39.00	397.299	8.066	39.00	381.565	8.208	39.00	366.296	8.413
40.50	406.983	8.746	40.50	390.799	8.912	40.50	375.092	9.146
42.00	416.329	9.475	42.00	399.704	9.667	42.00	383.568	9.934
43.50	425.343	10.257	43.50	408.286	10.480	43.50	391.732	10.782
244.00	516.793		242.00	491.290		240.00	466.737	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.50	19.218	0.119	1.50	18.502	0.120	1.40	16.637	0.113
3.00	37.896	0.247	3.00	36.482	0.249	2.80	32.834	0.234
4.50	56.049	0.385	4.50	53.953	0.389	4.20	48.598	0.365
6.00	73.688	0.533	6.00	70.925	0.539	5.60	63.939	0.505
7.50	90.825	0.692	7.50	87.410	0.700	7.00	78.866	0.655
9.00	107.472	0.863	9.00	103.419	0.874	8.40	93.386	0.817
10.50	123.638	1.047	10.50	118.961	1.061	9.80	107.507	0.990
12.00	139.334	1.243	12.00	134.046	1.262	11.20	121.238	1.175
13.50	154.570	1.455	13.50	148.683	1.478	12.60	134.584	1.373
15.00	169.356	1.681	15.00	162.881	1.710	14.00	147.554	1.586
16.50	183.699	1.924	16.50	176.650	1.959	15.40	160.195	1.814
18.00	197.610	2.185	18.00	189.997	2.227	16.80	172.393	2.057
19.50	211.097	2.465	19.50	202.932	2.515	18.20	184.276	2.319
21.00	224.168	2.765	21.00	215.461	2.824	19.60	195.809	2.598
22.50	236.832	3.087	22.50	227.595	3.157	21.00	206.999	2.898
24.00	249.097	3.433	24.00	239.339	3.514	22.40	217.853	3.218
25.50	260.970	3.804	25.50	250.702	3.898	23.80	228.377	3.562
27.00	272.459	4.203	27.00	261.692	4.311	25.20	238.577	3.929
28.50	283.573	4.631	28.50	272.316	4.755	26.60	248.459	4.323
30.00	294.318	5.090	30.00	282.582	5.233	28.00	258.029	4.746
31.50	304.703	5.584	31.50	292.497	5.747	29.40	267.294	5.198
33.00	314.734	6.115	33.00	302.068	6.300	30.80	276.258	5.683
34.50	324.418	6.685	34.50	311.302	6.896	32.20	284.929	6.203
36.00	333.764	7.299	36.00	320.207	7.537	33.60	293.311	6.761
37.50	342.778	7.960	37.50	328.789	8.229	35.00	301.411	7.360
39.00	351.467	8.671	39.00	337.056	8.974	36.40	309.234	8.002
40.50	359.838	9.437	40.50	345.014	9.778	37.80	316.785	8.692
42.00	367.898	10.262	42.00	352.671	10.646	39.20	324.071	9.433
43.50	375.655	11.152	43.50	360.033	11.583	40.60	331.098	10.230

B FACTORS FOR FLUORINE

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
238.00	443.105		236.00	420.365		234.00	398.491	
		B			B			B
DTV (R)	DPV (PSIA)		DTV (R)	DPV (PSIA)		DTV (R)	DPV (PSIA)	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.40	16.010	0.115	1.40	15.401	0.117	1.40	14.810	0.120
2.80	31.592	0.239	2.80	30.387	0.244	2.80	29.215	0.251
4.20	46.755	0.372	4.20	44.964	0.381	4.20	43.224	0.391
5.60	61.506	0.515	5.60	59.142	0.528	5.60	56.844	0.543
7.00	75.854	0.669	7.00	72.928	0.686	7.00	70.082	0.706
8.40	89.807	0.835	8.40	86.329	0.856	8.40	82.946	0.882
9.80	103.372	1.012	9.80	99.352	1.039	9.80	95.443	1.071
11.20	116.557	1.203	11.20	112.005	1.236	11.20	107.578	1.274
12.60	129.368	1.407	12.60	124.295	1.447	12.60	119.360	1.494
14.00	141.812	1.626	14.00	136.228	1.674	14.00	130.795	1.729
15.40	153.897	1.861	15.40	147.810	1.918	15.40	141.888	1.982
16.80	165.629	2.114	16.80	159.049	2.179	16.80	152.647	2.254
18.20	177.014	2.384	18.20	169.951	2.460	18.20	163.078	2.547
19.60	188.060	2.674	19.60	180.522	2.762	19.60	173.186	2.861
21.00	198.771	2.985	21.00	190.767	3.085	21.00	182.979	3.199
22.40	209.156	3.318	22.40	200.694	3.433	22.40	192.461	3.563
23.80	219.219	3.675	23.80	210.309	3.806	23.80	201.639	3.953
25.20	228.966	4.058	25.20	219.617	4.206	25.20	210.519	4.373
26.60	238.405	4.470	26.60	228.624	4.637	26.60	219.107	4.825
28.00	247.540	4.911	28.00	237.336	5.099	28.00	227.408	5.311
29.40	256.378	5.384	29.40	245.759	5.595	29.40	235.428	5.833
30.80	264.924	5.892	30.80	253.899	6.129	30.80	243.173	6.396
32.20	273.185	6.437	32.20	261.761	6.703	32.20	250.648	7.001
33.60	281.165	7.023	33.60	269.351	7.320	33.60	257.859	7.653
35.00	288.871	7.652	35.00	276.675	7.984	35.00	264.812	8.355
36.40	296.308	8.329	36.40	283.738	8.698	36.40	271.512	9.113
37.80	303.482	9.057	37.80	290.545	9.468	37.80	277.965	9.929
39.20	310.399	9.839	39.20	297.103	10.297	39.20	284.175	10.810
40.60	317.063	10.682	40.60	303.417	11.190	40.60	290.150	11.760
232.00	377.459		230.00	357.244		228.00	337.826	
		B			B			B
DTV (R)	DPV (PSIA)		DTV (R)	DPV (PSIA)		DTV (R)	DPV (PSIA)	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.40	14.235	0.124	1.30	12.711	0.119	1.30	12.205	0.123
2.80	28.076	0.258	2.60	25.091	0.246	2.60	24.089	0.255
4.20	41.532	0.403	3.90	37.147	0.384	3.90	35.656	0.397
5.60	54.609	0.560	5.20	48.884	0.531	5.20	46.913	0.551
7.00	67.314	0.729	6.50	60.308	0.690	6.50	57.865	0.716
8.40	79.655	0.911	7.80	71.424	0.860	7.80	68.517	0.893
9.80	91.639	1.107	9.10	82.237	1.043	9.10	78.875	1.084
11.20	103.271	1.318	10.40	92.752	1.240	10.40	88.942	1.288
12.60	114.559	1.546	11.70	102.975	1.450	11.70	98.725	1.508
14.00	125.508	1.791	13.00	112.910	1.676	13.00	108.228	1.744
15.40	136.125	2.055	14.30	122.564	1.918	14.30	117.457	1.997
16.80	146.417	2.339	15.60	131.939	2.177	15.60	126.415	2.269
18.20	156.390	2.645	16.90	141.043	2.455	16.90	135.109	2.561
19.60	166.048	2.974	18.20	149.878	2.753	18.20	143.542	2.874
21.00	175.400	3.328	19.50	158.451	3.073	19.50	151.719	3.210
22.40	184.449	3.709	20.80	166.765	3.415	20.80	159.645	3.570
23.80	193.203	4.119	22.10	174.826	3.782	22.10	167.325	3.957
25.20	201.667	4.560	23.40	182.638	4.176	23.40	174.763	4.372
26.60	209.847	5.035	24.70	190.206	4.597	24.70	181.964	4.817
28.00	217.748	5.547	26.00	197.533	5.049	26.00	188.931	5.295
29.40	225.377	6.099	27.30	204.626	5.534	27.30	195.671	5.809
30.80	232.739	6.693	28.60	211.488	6.055	28.60	202.187	6.360
32.20	239.838	7.334	29.90	218.124	6.613	29.90	208.483	6.953
33.60	246.682	8.024	31.20	224.538	7.212	31.20	214.564	7.589
35.00	253.275	8.770	32.50	230.734	7.855	32.50	220.435	8.274
36.40	259.624	9.574	33.80	236.718	8.546	33.80	226.099	9.010
37.80	265.732	10.443	35.10	242.493	9.289	35.10	231.562	9.802
39.20	271.607	11.381	36.40	248.063	10.087	36.40	236.827	10.655
40.60	277.253	12.396	37.70	253.434	10.945	37.70	241.899	11.573

B FACTORS FOR FLUORINE

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
226.00	319.183		224.00	301.293		222.00	284.137	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.30	11.713	0.127	1.20	10.380	0.122	1.20	9.949	0.127
2.60	23.113	0.265	2.40	20.501	0.253	2.40	19.645	0.263
3.90	34.205	0.413	3.60	30.365	0.393	3.60	29.092	0.410
5.20	44.995	0.572	4.80	39.977	0.544	4.80	38.293	0.567
6.50	55.488	0.744	6.00	49.342	0.705	6.00	47.254	0.736
7.80	65.688	0.929	7.20	58.463	0.878	7.20	55.977	0.917
9.10	75.602	1.128	8.40	67.344	1.063	8.40	64.466	1.112
10.40	85.234	1.342	9.60	75.988	1.262	9.60	72.726	1.320
11.70	94.588	1.572	10.80	84.401	1.474	10.80	80.760	1.543
13.00	103.671	1.820	12.00	92.585	1.701	12.00	88.572	1.781
14.30	112.486	2.085	13.20	100.545	1.944	13.20	96.165	2.037
15.60	121.039	2.371	14.40	108.283	2.204	14.40	103.544	2.311
16.90	129.333	2.677	15.60	115.805	2.482	15.60	110.711	2.604
18.20	137.375	3.007	16.80	123.112	2.780	16.80	117.671	2.918
19.50	145.168	3.361	18.00	130.210	3.098	18.00	124.426	3.255
20.80	152.717	3.741	19.20	137.101	3.438	19.20	130.982	3.615
22.10	160.026	4.149	20.40	143.790	3.801	20.40	137.340	4.000
23.40	167.101	4.588	21.60	150.279	4.191	21.60	143.505	4.413
24.70	173.945	5.059	22.80	156.573	4.607	22.80	149.480	4.855
26.00	180.564	5.566	24.00	162.674	5.052	24.00	155.269	5.328
27.30	186.961	6.111	25.20	168.587	5.529	25.20	160.875	5.835
28.60	193.141	6.697	26.40	174.314	6.039	26.40	166.302	6.379
29.90	199.108	7.328	27.60	179.860	6.585	27.60	171.552	6.961
31.20	204.867	8.006	28.80	185.227	7.169	28.80	176.630	7.586
32.50	210.423	8.737	30.00	190.420	7.795	30.00	181.539	8.255
33.80	215.778	9.523	31.20	195.441	8.466	31.20	186.282	8.974
35.10	220.939	10.370	32.40	200.294	9.185	32.40	190.862	9.745
36.40	225.908	11.284	33.60	204.982	9.956	33.60	195.283	10.572
37.70	230.691	12.269	34.80	209.509	10.783	34.80	199.549	11.461
220.00	267.696		218.00	251.951		216.00	236.883	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.20	9.529	0.132	1.10	8.370	0.127	1.10	8.005	0.133
2.40	18.812	0.275	2.20	16.538	0.262	2.20	15.814	0.275
3.60	27.853	0.428	3.30	24.507	0.407	3.30	23.429	0.427
4.80	36.654	0.593	4.40	32.280	0.562	4.40	30.853	0.590
6.00	45.221	0.770	5.50	39.861	0.728	5.50	38.090	0.765
7.20	53.557	0.960	6.60	47.251	0.905	6.60	45.142	0.951
8.40	61.666	1.164	7.70	54.454	1.095	7.70	52.012	1.150
9.60	69.552	1.383	8.80	61.472	1.297	8.80	58.702	1.364
10.80	77.217	1.618	9.90	68.309	1.512	9.90	65.216	1.591
12.00	84.667	1.869	11.00	74.968	1.743	11.00	71.557	1.835
13.20	91.904	2.139	12.10	81.450	1.988	12.10	77.726	2.095
14.40	98.933	2.428	13.20	87.759	2.251	13.20	83.728	2.372
15.60	105.756	2.738	14.30	93.898	2.530	14.30	89.564	2.669
16.80	112.378	3.071	15.40	99.869	2.829	15.40	95.237	2.985
18.00	118.801	3.427	16.50	105.675	3.147	16.50	100.750	3.324
19.20	125.030	3.809	17.60	111.319	3.486	17.60	106.106	3.685
20.40	131.069	4.218	18.70	116.804	3.849	18.70	111.307	4.070
21.60	136.919	4.656	19.80	122.131	4.235	19.80	116.357	4.482
22.80	142.586	5.127	20.90	127.305	4.647	20.90	121.257	4.922
24.00	148.072	5.631	22.00	132.327	5.087	22.00	126.010	5.392
25.20	153.380	6.172	23.10	137.200	5.557	23.10	130.619	5.895
26.40	158.515	6.753	24.20	141.927	6.058	24.20	135.087	6.431
27.60	163.480	7.376	25.30	146.510	6.593	25.30	139.416	7.005
28.80	168.278	8.045	26.40	150.952	7.165	26.40	143.608	7.618
30.00	172.912	8.763	27.50	155.256	7.775	27.50	147.667	8.274
31.20	177.386	9.534	28.60	159.424	8.427	28.60	151.595	8.976
32.40	181.703	10.363	29.70	163.459	9.124	29.70	155.394	9.726
33.60	185.867	11.254	30.80	167.363	9.869	30.80	159.067	10.530
34.80	189.880	12.212	31.90	171.139	10.666	31.90	162.617	11.390

B FACTORS FOR FLUORINE

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
214.00	222.475		212.00	208.708		210.00	195.565	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.10	7.650	0.139	1.00	6.649	0.133	1.00	6.343	0.140
2.20	15.109	0.289	2.00	13.143	0.274	2.00	12.536	0.289
3.30	22.360	0.449	3.00	19.486	0.425	3.00	18.582	0.448
4.40	29.465	0.620	4.00	25.679	0.586	4.00	24.482	0.618
5.50	36.366	0.804	5.00	31.725	0.757	5.00	30.239	0.799
6.60	43.091	1.001	6.00	37.625	0.940	6.00	35.854	0.992
7.70	49.637	1.211	7.00	43.382	1.134	7.00	41.331	1.198
8.80	56.009	1.437	8.00	48.997	1.341	8.00	46.670	1.417
9.90	62.209	1.678	9.00	54.474	1.561	9.00	51.875	1.651
11.00	68.241	1.935	10.00	59.813	1.796	10.00	56.946	1.900
12.10	74.107	2.211	11.00	65.018	2.045	11.00	61.886	2.165
13.20	79.809	2.505	12.00	70.089	2.310	12.00	66.697	2.447
14.30	85.352	2.820	13.00	75.029	2.592	13.00	71.381	2.748
15.40	90.736	3.157	14.00	79.840	2.893	14.00	75.941	3.068
16.50	95.965	3.517	15.00	84.524	3.212	15.00	80.377	3.409
17.60	101.042	3.902	16.00	89.084	3.552	16.00	84.692	3.772
18.70	105.969	4.314	17.00	93.520	3.913	17.00	88.888	4.158
19.80	110.748	4.754	18.00	97.835	4.297	18.00	92.967	4.570
20.90	115.384	5.224	19.00	102.031	4.706	19.00	96.931	5.008
22.00	119.877	5.728	20.00	106.110	5.141	20.00	100.781	5.475
23.10	124.231	6.266	21.00	110.074	5.604	21.00	104.520	5.972
24.20	128.448	6.842	22.00	113.924	6.096	22.00	108.150	6.502
25.30	132.531	7.458	23.00	117.663	6.620	23.00	111.673	7.067
26.40	136.482	8.118	24.00	121.293	7.179	24.00	115.090	7.668
27.50	140.305	8.825	25.00	124.816	7.773	25.00	118.404	8.310
28.60	144.001	9.581	26.00	128.233	8.405	26.00	121.616	8.993
29.70	147.573	10.392	27.00	131.547	9.079	27.00	124.728	9.723
30.80	151.024	11.261	28.00	134.759	9.798	28.00	127.742	10.501
31.90	154.355	12.192	29.00	137.871	10.563	29.00	130.661	11.331

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
206.00	183.029		206.00	171.083		204.00	159.711	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.00	6.046	0.147	0.90	5.187	0.140	0.90	4.936	0.148
2.00	11.946	0.305	1.80	10.261	0.288	1.80	9.759	0.305
3.00	17.703	0.473	2.70	15.221	0.446	2.70	14.473	0.472
4.00	23.318	0.653	3.60	20.069	0.613	3.60	19.079	0.649
5.00	28.795	0.844	4.50	24.807	0.791	4.50	23.578	0.838
6.00	34.134	1.049	5.40	29.437	0.979	5.40	27.972	1.039
7.00	39.339	1.268	6.30	33.960	1.179	6.30	32.262	1.252
8.00	44.410	1.500	7.20	38.377	1.392	7.20	36.449	1.478
9.00	49.350	1.749	8.10	42.689	1.617	8.10	40.536	1.718
10.00	54.161	2.014	9.00	46.899	1.856	9.00	44.523	1.973
11.00	58.845	2.296	9.90	51.008	2.109	9.90	48.412	2.244
12.00	63.405	2.597	10.80	55.017	2.378	10.80	52.204	2.531
13.00	67.841	2.918	11.70	58.928	2.663	11.70	55.901	2.836
14.00	72.156	3.260	12.60	62.742	2.965	12.60	59.505	3.159
15.00	76.352	3.625	13.50	66.460	3.285	13.50	63.016	3.503
16.00	80.431	4.014	14.40	70.084	3.624	14.40	66.436	3.867
17.00	84.395	4.428	15.30	73.616	3.984	15.30	69.767	4.254
18.00	88.245	4.870	16.20	77.056	4.366	16.20	73.010	4.665
19.00	91.984	5.341	17.10	80.406	4.771	17.10	76.166	5.101
20.00	95.614	5.843	18.00	83.668	5.200	18.00	79.236	5.563
21.00	99.137	6.378	18.90	86.844	5.655	18.90	82.223	6.054
22.00	102.554	6.950	19.80	89.933	6.137	19.80	85.128	6.575
23.00	105.868	7.559	20.70	92.939	6.649	20.70	87.951	7.129
24.00	109.080	8.209	21.60	95.861	7.192	21.60	90.694	7.717
25.00	112.192	8.903	22.50	98.702	7.768	22.50	93.360	8.342
26.00	115.206	9.644	23.40	101.463	8.379	23.40	95.948	8.995
27.00	118.125	10.435	24.30	104.146	9.028	24.30	98.460	9.710
28.00	120.949	11.280	25.20	106.751	9.717	25.20	100.899	10.459
29.00	123.681	12.182	26.10	109.281	10.448	26.10	103.264	11.256

B FACTORS FOR FLUORINE

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
202.00	148.895		200.00	138.619		198.00	128.868	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.90	4.690	0.157	0.90	4.452	0.166	0.80	3.758	0.156
1.80	9.272	0.323	1.80	8.799	0.343	1.60	7.435	0.322
2.70	13.748	0.501	2.70	13.043	0.532	2.40	11.033	0.498
3.60	18.118	0.689	3.60	17.186	0.733	3.20	14.552	0.684
4.50	22.385	0.890	4.50	21.228	0.947	4.00	17.995	0.880
5.40	26.550	1.104	5.40	25.171	1.175	4.80	21.361	1.089
6.30	30.614	1.331	6.30	29.017	1.417	5.60	24.652	1.309
7.20	34.579	1.572	7.20	32.767	1.675	6.40	27.869	1.542
8.10	38.447	1.829	8.10	36.422	1.950	7.20	31.013	1.789
9.00	42.218	2.101	9.00	39.985	2.242	8.00	34.084	2.050
9.90	45.894	2.391	9.90	43.455	2.553	8.80	37.084	2.326
10.80	49.477	2.699	10.80	46.835	2.883	9.60	40.014	2.617
11.70	52.968	3.026	11.70	50.127	3.235	10.40	42.875	2.926
12.60	56.368	3.373	12.60	53.331	3.609	11.20	45.668	3.252
13.50	59.679	3.743	13.50	56.449	4.006	12.00	48.393	3.597
14.40	62.902	4.135	14.40	59.482	4.429	12.80	51.052	3.961
15.30	66.039	4.551	15.30	62.432	4.879	13.60	53.646	4.347
16.20	69.091	4.994	16.20	65.300	5.358	14.40	56.176	4.755
17.10	72.060	5.464	17.10	68.088	5.867	15.20	58.642	5.186
18.00	74.946	5.964	18.00	70.796	6.408	16.00	61.045	5.642
18.90	77.751	6.496	18.90	73.427	6.984	16.80	63.388	6.124
19.80	80.477	7.060	19.80	75.982	7.597	17.60	65.670	6.634
20.70	83.125	7.660	20.70	78.461	8.250	18.40	67.892	7.173
21.60	85.697	8.299	21.60	80.867	8.944	19.20	70.056	7.743
22.50	88.193	8.977	22.50	83.201	9.684	20.00	72.162	8.347
23.40	90.615	9.699	23.40	85.463	10.471	20.80	74.212	8.986
24.30	92.964	10.467	24.30	87.656	11.310	21.60	76.206	9.662
25.20	95.243	11.284	25.20	89.781	12.203	22.40	78.145	10.377
26.10	97.451	12.154	26.10	91.839	13.156	23.20	80.030	11.134
196.00	119.624		194.00	110.873		192.00	102.598	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.80	3.558	0.167	0.80	3.366	0.178	0.70	2.786	0.166
1.60	7.039	0.343	1.60	6.657	0.367	1.40	5.517	0.340
2.40	10.443	0.531	2.40	9.874	0.567	2.10	8.193	0.524
3.20	13.772	0.729	3.20	13.018	0.779	2.80	10.814	0.719
4.00	17.026	0.940	4.00	16.089	1.005	3.50	13.382	0.923
4.80	20.206	1.163	4.80	19.089	1.244	4.20	15.897	1.139
5.60	23.313	1.399	5.60	22.019	1.497	4.90	18.359	1.366
6.40	26.349	1.649	6.40	24.880	1.766	5.60	20.769	1.605
7.20	29.314	1.913	7.20	27.673	2.050	6.30	23.128	1.858
8.00	32.209	2.194	8.00	30.398	2.352	7.00	25.437	2.123
8.80	35.036	2.491	8.80	33.057	2.672	7.70	27.696	2.403
9.60	37.795	2.804	9.60	35.651	3.011	8.40	29.906	2.697
10.40	40.487	3.137	10.40	38.181	3.370	9.10	32.067	3.008
11.20	43.113	3.489	11.20	40.647	3.751	9.80	34.180	3.334
12.00	45.675	3.861	12.00	43.050	4.154	10.50	36.247	3.678
12.80	48.173	4.255	12.80	45.393	4.581	11.20	38.266	4.040
13.60	50.607	4.673	13.60	47.675	5.033	11.90	40.240	4.422
14.40	52.980	5.114	14.40	49.897	5.513	12.60	42.168	4.823
15.20	55.292	5.582	15.20	52.061	6.021	13.30	44.052	5.246
16.00	57.544	6.077	16.00	54.167	6.560	14.00	45.892	5.691
16.80	59.737	6.601	16.80	56.217	7.131	14.70	47.689	6.160
17.60	61.872	7.155	17.60	58.211	7.736	15.40	49.442	6.653
18.40	63.950	7.743	18.40	60.150	8.377	16.10	51.154	7.173
19.20	65.972	8.365	19.20	62.035	9.057	16.80	52.824	7.721
20.00	67.938	9.024	20.00	63.868	9.778	17.50	54.454	8.297
20.80	69.850	9.722	20.80	65.648	10.543	18.20	56.043	8.905
21.60	71.709	10.461	21.60	67.378	11.354	18.90	57.592	9.545
22.40	73.515	11.245	22.40	69.057	12.214	19.60	59.103	10.219
23.20	75.270	12.075	23.20	70.687	13.128	20.30	60.575	10.930

B FACTORS FOR FLUORINE

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
190.00	94.784		189.00	91.045		188.00	87.415	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.70	2.629	0.177	0.70	2.553	0.184	0.70	2.477	0.190
1.40	5.205	0.364	1.40	5.052	0.377	1.40	4.903	0.391
2.10	7.727	0.562	2.10	7.500	0.582	2.10	7.276	0.603
2.80	10.196	0.770	2.80	9.895	0.798	2.80	9.599	0.828
3.50	12.614	0.990	3.50	12.240	1.027	3.50	11.872	1.064
4.20	14.980	1.222	4.20	14.534	1.267	4.20	14.096	1.315
4.90	17.296	1.467	4.90	16.779	1.521	4.90	16.271	1.579
5.60	19.562	1.725	5.60	18.975	1.789	5.60	18.398	1.857
6.30	21.779	1.997	6.30	21.123	2.072	6.30	20.478	2.151
7.00	23.947	2.284	7.00	23.222	2.371	7.00	22.511	2.462
7.70	26.067	2.586	7.70	25.275	2.685	7.70	24.498	2.789
8.40	28.140	2.905	8.40	27.282	3.017	8.40	26.439	3.135
9.10	30.167	3.241	9.10	29.243	3.367	9.10	28.336	3.500
9.80	32.147	3.595	9.80	31.158	3.736	9.80	30.188	3.884
10.50	34.082	3.968	10.50	33.029	4.125	10.50	31.997	4.290
11.20	35.972	4.362	11.20	34.857	4.535	11.20	33.763	4.719
11.90	37.818	4.776	11.90	36.641	4.968	11.90	35.486	5.171
12.60	39.621	5.213	12.60	38.383	5.424	12.60	37.168	5.647
13.30	41.380	5.674	13.30	40.082	5.906	13.30	38.809	6.150
14.00	43.098	6.159	14.00	41.741	6.413	14.00	40.410	6.681
14.70	44.774	6.671	14.70	43.359	6.948	14.70	41.970	7.241
15.40	46.409	7.210	15.40	44.936	7.513	15.40	43.492	7.833
16.10	48.004	7.779	16.10	46.475	8.108	16.10	44.975	8.456
16.80	49.559	8.379	16.80	47.974	8.736	16.80	46.420	9.115
17.50	51.075	9.011	17.50	49.436	9.399	17.50	47.828	9.810
18.20	52.553	9.678	18.20	50.859	10.098	18.20	49.199	10.544
18.90	53.993	10.381	18.90	52.246	10.836	18.90	50.534	11.319
19.60	55.395	11.123	19.60	53.597	11.615	19.60	51.834	12.137
20.30	56.761	11.905	20.30	54.911	12.437	20.30	53.099	13.001

187.00	83.892		186.00	80.475		185.00	77.161	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.70	2.403	0.197	0.70	2.331	0.204	0.60	1.939	0.181
1.40	4.755	0.405	1.40	4.611	0.420	1.20	3.842	0.371
2.10	7.057	0.626	2.10	6.842	0.649	1.80	5.710	0.570
2.80	9.309	0.858	2.80	9.024	0.891	2.40	7.541	0.780
3.50	11.511	1.104	3.50	11.157	1.146	3.00	9.338	0.999
4.20	13.666	1.364	4.20	13.244	1.416	3.60	11.101	1.230
4.90	15.772	1.639	4.90	15.283	1.702	4.20	12.829	1.471
5.60	17.832	1.928	5.60	17.277	2.004	4.80	14.524	1.725
6.30	19.845	2.235	6.30	19.224	2.322	5.40	16.185	1.991
7.00	21.812	2.558	7.00	21.127	2.659	6.00	17.813	2.270
7.70	23.734	2.899	7.70	22.986	3.015	6.60	19.409	2.563
8.40	25.612	3.259	8.40	24.801	3.390	7.20	20.973	2.869
9.10	27.445	3.640	9.10	26.573	3.787	7.80	22.505	3.191
9.80	29.236	4.041	9.80	28.303	4.206	8.40	24.005	3.529
10.50	30.983	4.465	10.50	29.990	4.649	9.00	25.475	3.882
11.20	32.689	4.912	11.20	31.637	5.116	9.60	26.914	4.253
11.90	34.353	5.384	11.90	33.243	5.610	10.20	28.323	4.642
12.60	35.977	5.883	12.60	34.810	6.132	10.80	29.702	5.050
13.30	37.560	6.409	13.30	36.337	6.683	11.40	31.052	5.477
14.00	39.104	6.965	14.00	37.826	7.265	12.00	32.373	5.925
14.70	40.609	7.552	14.70	39.276	7.880	12.60	33.666	6.395
15.40	42.076	8.171	15.40	40.689	8.529	13.20	34.930	6.888
16.10	43.505	8.825	16.10	42.066	9.215	13.80	36.166	7.405
16.80	44.897	9.516	16.80	43.406	9.940	14.40	37.375	7.946
17.50	46.253	10.245	17.50	44.710	10.707	15.00	38.557	8.514
18.20	47.573	11.016	18.20	45.980	11.517	15.60	39.713	9.110
18.90	48.857	11.830	18.90	47.215	12.373	16.20	40.842	9.735
19.60	50.107	12.690	19.60	48.417	13.278	16.80	41.945	10.391
20.30	51.323	13.599	20.30	49.585	14.235	17.40	43.023	11.078

B FACTORS FOR FLUORINE

184.00			183.00			182.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.60	1.879	0.188	0.60	1.820	0.195	0.60	1.763	0.203
1.20	3.723	0.385	1.20	3.606	0.400	1.20	3.491	0.415
1.80	5.531	0.592	1.80	5.357	0.615	1.80	5.186	0.639
2.40	7.305	0.810	2.40	7.074	0.841	2.40	6.847	0.875
3.00	9.045	1.038	3.00	8.757	1.079	3.00	8.475	1.122
3.60	10.751	1.278	3.60	10.407	1.328	3.60	10.071	1.382
4.20	12.423	1.529	4.20	12.025	1.590	4.20	11.635	1.655
4.80	14.062	1.793	4.80	13.610	1.866	4.80	13.167	1.942
5.40	15.669	2.071	5.40	15.163	2.154	5.40	14.667	2.243
6.00	17.243	2.361	6.00	16.684	2.458	6.00	16.137	2.559
6.60	18.786	2.666	6.60	18.175	2.776	6.60	17.576	2.891
7.20	20.297	2.986	7.20	19.634	3.110	7.20	18.985	3.240
7.80	21.777	3.322	7.80	21.063	3.461	7.80	20.364	3.607
8.40	23.226	3.675	8.40	22.462	3.829	8.40	21.714	3.992
9.00	24.645	4.044	9.00	23.832	4.215	9.00	23.035	4.396
9.60	26.034	4.432	9.60	25.172	4.620	9.60	24.328	4.820
10.20	27.394	4.838	10.20	26.483	5.046	10.20	25.592	5.265
10.80	28.724	5.265	10.80	27.766	5.492	10.80	26.828	5.733
11.40	30.026	5.712	11.40	29.021	5.961	11.40	28.037	6.224
12.00	31.300	6.181	12.00	30.248	6.453	12.00	29.219	6.740
12.60	32.545	6.674	12.60	31.448	6.969	12.60	30.375	7.281
13.20	33.763	7.190	13.20	32.621	7.510	13.20	31.504	7.850
13.80	34.954	7.732	13.80	33.768	8.079	13.80	32.607	8.447
14.40	36.118	8.300	14.40	34.888	8.676	14.40	33.685	9.074
15.00	37.256	8.897	15.00	35.983	9.302	15.00	34.737	9.733
15.60	38.368	9.523	15.60	37.052	9.960	15.60	35.765	10.425
16.20	39.454	10.179	16.20	38.096	10.651	16.20	36.768	11.151
16.80	40.515	10.868	16.80	39.116	11.376	16.80	37.748	11.915
17.40	41.551	11.592	17.40	40.112	12.137	17.40	38.704	12.717

181.00			180.00			179.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.60	1.706	0.210	0.60	1.650	0.219	0.60	1.332	0.189
1.20	3.378	0.432	1.20	3.268	0.449	1.00	2.642	0.386
1.80	5.017	0.665	1.80	4.853	0.692	1.50	3.930	0.592
2.40	6.624	0.910	2.40	6.406	0.947	2.00	5.195	0.807
3.00	8.198	1.167	3.00	7.927	1.215	2.50	6.439	1.032
3.60	9.741	1.438	3.60	9.418	1.497	3.00	7.662	1.266
4.20	11.252	1.723	4.20	10.877	1.794	3.50	8.863	1.510
4.80	12.732	2.022	4.80	12.306	2.106	4.00	10.044	1.765
5.40	14.181	2.336	5.40	13.705	2.435	4.50	11.204	2.031
6.00	15.600	2.666	6.00	15.075	2.780	5.00	12.343	2.308
6.60	16.989	3.014	6.60	16.415	3.143	5.50	13.462	2.598
7.20	18.349	3.378	7.20	17.726	3.524	6.00	14.560	2.900
7.80	19.679	3.761	7.80	19.009	3.925	6.50	15.639	3.214
8.40	20.981	4.164	8.40	20.264	4.346	7.00	16.699	3.543
9.00	22.255	4.587	9.00	21.491	4.789	7.50	17.739	3.885
9.60	23.500	5.031	9.60	22.691	5.255	8.00	18.759	4.242
10.20	24.718	5.498	10.20	23.864	5.744	8.50	19.761	4.615
10.80	25.909	5.988	10.80	25.011	6.258	9.00	20.744	5.003
11.40	27.073	6.503	11.40	26.131	6.799	9.50	21.709	5.408
12.00	28.211	7.044	12.00	27.226	7.367	10.00	22.655	5.831
12.60	29.323	7.613	12.60	28.295	7.964	10.50	23.583	6.271
13.20	30.409	8.210	13.20	29.339	8.592	11.00	24.494	6.731
13.80	31.470	8.837	13.80	30.359	9.252	11.50	25.387	7.210
14.40	32.506	9.497	14.40	31.355	9.946	12.00	26.262	7.709
15.00	33.518	10.190	15.00	32.326	10.675	12.50	27.120	8.231
15.60	34.505	10.918	15.60	33.274	11.442	13.00	27.962	8.774
16.20	35.469	11.683	16.20	34.199	12.249	13.50	28.786	9.341
16.80	36.409	12.488	16.80	35.101	13.097	14.00	29.594	9.932
17.40	37.326	13.333	17.40	35.981	13.989	14.50	30.386	10.549

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B FACTORS FOR FLUORINE

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
178.00	56.706		177.00	54.153		176.00	51.686	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.50	1.288	0.197	0.50	1.244	0.205	0.50	1.201	0.213
1.00	2.553	0.402	1.00	2.467	0.419	1.00	2.382	0.437
1.50	3.797	0.617	1.50	3.668	0.643	1.50	3.542	0.670
2.00	5.020	0.841	2.00	4.849	0.876	2.00	4.681	0.914
2.50	6.221	1.075	2.50	6.009	1.120	2.50	5.800	1.169
3.00	7.402	1.319	3.00	7.148	1.375	3.00	6.898	1.435
3.50	8.562	1.574	3.50	8.267	1.642	3.50	7.977	1.713
4.00	9.701	1.840	4.00	9.365	1.920	4.00	9.037	2.004
4.50	10.820	2.118	4.50	10.444	2.210	4.50	10.077	2.308
5.00	11.918	2.408	5.00	11.504	2.513	5.00	11.097	2.625
5.50	12.997	2.711	5.50	12.544	2.830	5.50	12.099	2.957
6.00	14.057	3.026	6.00	13.564	3.161	6.00	13.082	3.303
6.50	15.097	3.356	6.50	14.566	3.506	6.50	14.047	3.664
7.00	16.117	3.700	7.00	15.549	3.866	7.00	14.993	4.042
7.50	17.119	4.058	7.50	16.514	4.242	7.50	15.921	4.436
8.00	18.102	4.433	8.00	17.460	4.634	8.00	16.832	4.848
8.50	19.067	4.823	8.50	18.388	5.044	8.50	17.725	5.278
9.00	20.013	5.230	9.00	19.299	5.471	9.00	18.600	5.727
9.50	20.941	5.655	9.50	20.192	5.918	9.50	19.458	6.196
10.00	21.852	6.099	10.00	21.067	6.383	10.00	20.300	6.686
10.50	22.745	6.562	10.50	21.925	6.870	10.50	21.124	7.197
11.00	23.620	7.044	11.00	22.767	7.377	11.00	21.932	7.731
11.50	24.478	7.548	11.50	23.591	7.907	11.50	22.724	8.289
12.00	25.320	8.073	12.00	24.399	8.460	12.00	23.499	8.871
12.50	26.144	8.621	12.50	25.191	9.037	12.50	24.259	9.479
13.00	26.952	9.193	13.00	25.966	9.640	13.00	25.003	10.114
13.50	27.744	9.790	13.50	26.726	10.269	13.50	25.731	10.778
14.00	28.519	10.413	14.00	27.470	10.925	14.00	26.444	11.471
14.50	29.279	11.063	14.50	28.198	11.611	14.50	27.143	12.194
175.00	49.304		174.00	47.005		173.00	44.788	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.50	1.160	0.223	0.50	1.119	0.232	0.50	1.079	0.242
1.00	2.299	0.455	1.00	2.217	0.475	1.00	2.139	0.496
1.50	3.418	0.699	1.50	3.296	0.729	1.50	3.179	0.762
2.00	4.516	0.954	2.00	4.356	0.996	2.00	4.199	1.040
2.50	5.595	1.220	2.50	5.396	1.274	2.50	5.201	1.331
3.00	6.655	1.498	3.00	6.416	1.565	3.00	6.184	1.636
3.50	7.695	1.789	3.50	7.418	1.869	3.50	7.149	1.954
4.00	8.715	2.093	4.00	8.401	2.188	4.00	8.095	2.288
4.50	9.717	2.411	4.50	9.366	2.521	4.50	9.023	2.637
5.00	10.700	2.743	5.00	10.312	2.869	5.00	9.934	3.002
5.50	11.665	3.091	5.50	11.240	3.233	5.50	10.827	3.384
6.00	12.611	3.453	6.00	12.151	3.613	6.00	11.702	3.783
6.50	13.539	3.832	6.50	13.044	4.011	6.50	12.560	4.201
7.00	14.450	4.229	7.00	13.919	4.427	7.00	13.402	4.637
7.50	15.343	4.642	7.50	14.777	4.861	7.50	14.226	5.094
8.00	16.218	5.075	8.00	15.619	5.316	8.00	15.034	5.572
8.50	17.076	5.527	8.50	16.443	5.791	8.50	15.826	6.072
9.00	17.918	5.999	9.00	17.251	6.287	9.00	16.601	6.594
9.50	18.742	6.492	9.50	18.043	6.806	9.50	17.361	7.140
10.00	19.550	7.007	10.00	18.818	7.348	10.00	18.105	7.712
10.50	20.342	7.545	10.50	19.578	7.915	10.50	18.833	8.309
11.00	21.117	8.107	11.00	20.322	8.508	11.00	19.546	8.934
11.50	21.877	8.695	11.50	21.050	9.127	11.50	20.245	9.588
12.00	22.621	9.309	12.00	21.763	9.775	12.00	20.928	10.271
12.50	23.349	9.950	12.50	22.462	10.452	12.50	21.597	10.986
13.00	24.062	10.620	13.00	23.145	11.159	13.00	22.251	11.734
13.50	24.761	11.320	13.50	23.814	11.899	13.50	22.891	12.516
14.00	25.444	12.052	14.00	24.468	12.672	14.00	23.517	13.334
14.50	26.113	12.817	14.50	25.108	13.481	14.50	24.129	14.190

B FACTORS FOR FLUORINE

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
172.00	42.649		171.00	40.589		170.00	38.604	
DTV (R)	DPV (PSIA)		DTV (R)	DPV (PSIA)		DTV (R)	DPV (PSIA)	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.40	0.833	0.202	0.40	0.803	0.211	0.40	0.773	0.220
0.80	1.654	0.411	0.80	1.594	0.429	0.80	1.535	0.449
1.20	2.463	0.628	1.20	2.373	0.656	1.20	2.285	0.687
1.60	3.260	0.853	1.60	3.141	0.892	1.60	3.023	0.934
2.00	4.045	1.087	2.00	3.896	1.137	2.00	3.750	1.190
2.40	4.818	1.330	2.40	4.640	1.391	2.40	4.466	1.456
2.80	5.580	1.581	2.80	5.373	1.655	2.80	5.170	1.732
3.20	6.330	1.842	3.20	6.094	1.928	3.20	5.863	2.019
3.60	7.068	2.113	3.60	6.804	2.212	3.60	6.546	2.317
4.00	7.795	2.394	4.00	7.503	2.507	4.00	7.218	2.627
4.40	8.511	2.685	4.40	8.191	2.813	4.40	7.879	2.948
4.80	9.215	2.988	4.80	8.868	3.130	4.80	8.529	3.281
5.20	9.908	3.301	5.20	9.534	3.459	5.20	9.169	3.627
5.60	10.591	3.626	5.60	10.190	3.800	5.60	9.798	3.986
6.00	11.263	3.963	6.00	10.835	4.155	6.00	10.417	4.358
6.40	11.924	4.313	6.40	11.470	4.522	6.40	11.026	4.745
6.80	12.574	4.675	6.80	12.094	4.903	6.80	11.625	5.146
7.20	13.214	5.051	7.20	12.708	5.299	7.20	12.214	5.563
7.60	13.843	5.440	7.60	13.312	5.709	7.60	12.793	5.995
8.00	14.462	5.844	8.00	13.906	6.134	8.00	13.362	6.443
8.40	15.071	6.263	8.40	14.490	6.576	8.40	13.922	6.909
8.80	15.670	6.698	8.80	15.064	7.033	8.80	14.472	7.391
9.20	16.259	7.148	9.20	15.629	7.508	9.20	15.013	7.893
9.60	16.838	7.615	9.60	16.183	8.001	9.60	15.545	8.413
10.00	17.407	8.099	10.00	16.729	8.512	10.00	16.067	8.952
10.40	17.967	8.601	10.40	17.265	9.042	10.40	16.580	9.512
10.80	18.517	9.122	10.80	17.792	9.592	10.80	17.084	10.093
11.20	19.058	9.661	11.20	18.310	10.162	11.20	17.579	10.697
11.60	19.590	10.221	11.60	18.818	10.754	11.60	18.066	11.322
169.00	36.693		168.00	34.854		167.00	33.086	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.40	0.744	0.230	0.40	0.716	0.241	0.40	0.688	0.253
0.80	1.477	0.470	0.80	1.420	0.492	0.80	1.365	0.516
1.20	2.198	0.719	1.20	2.113	0.753	1.20	2.031	0.789
1.60	2.908	0.977	1.60	2.796	1.024	1.60	2.687	1.074
2.00	3.607	1.246	2.00	3.468	1.306	2.00	3.332	1.369
2.40	4.295	1.525	2.40	4.129	1.599	2.40	3.967	1.677
2.80	4.972	1.815	2.80	4.779	1.903	2.80	4.591	1.996
3.20	5.638	2.116	3.20	5.419	2.219	3.20	5.205	2.329
3.60	6.294	2.429	3.60	6.048	2.548	3.60	5.809	2.674
4.00	6.939	2.754	4.00	6.667	2.889	4.00	6.403	3.033
4.40	7.574	3.091	4.40	7.276	3.244	4.40	6.987	3.407
4.80	8.198	3.441	4.80	7.875	3.612	4.80	7.561	3.795
5.20	8.812	3.805	5.20	8.464	3.995	5.20	8.126	4.198
5.60	9.416	4.183	5.60	9.043	4.393	5.60	8.680	4.617
6.00	10.010	4.575	6.00	9.612	4.806	6.00	9.226	5.052
6.40	10.594	4.982	6.40	10.172	5.235	6.40	9.762	5.505
6.80	11.168	5.405	6.80	10.722	5.681	6.80	10.289	5.975
7.20	11.733	5.844	7.20	11.263	6.144	7.20	10.807	6.464
7.60	12.287	6.299	7.60	11.795	6.624	7.60	11.315	6.971
8.00	12.833	6.772	8.00	12.317	7.124	8.00	11.815	7.499
8.40	13.369	7.264	8.40	12.830	7.642	8.40	12.306	8.047
8.80	13.896	7.773	8.80	13.334	8.181	8.80	12.788	8.617
9.20	14.414	8.303	9.20	13.829	8.740	9.20	13.261	9.208
9.60	14.922	8.852	9.60	14.316	9.321	9.60	13.726	9.823
10.00	15.422	9.423	10.00	14.793	9.925	10.00	14.182	10.462
10.40	15.913	10.015	10.40	15.263	10.552	10.40	14.631	11.126
10.80	16.395	10.630	10.80	15.723	11.203	10.80	15.071	11.816
11.20	16.868	11.268	11.20	16.176	11.879	11.20	15.502	12.533
11.60	17.333	11.931	11.60	16.620	12.581	11.60	15.926	13.278

B FACTORS FOR FLUORINE

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
166.00	31.386		165.00	29.754		164.00	28.187	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.40	0.661	0.265	0.40	0.635	0.278	0.40	0.609	0.292
0.80	1.311	0.541	0.80	1.259	0.567	0.80	1.208	0.596
1.20	1.951	0.828	1.20	1.873	0.869	1.20	1.797	0.912
1.60	2.580	1.126	1.60	2.477	1.182	1.60	2.376	1.242
2.00	3.199	1.437	2.00	3.071	1.509	2.00	2.945	1.585
2.40	3.808	1.760	2.40	3.655	1.848	2.40	3.505	1.943
2.80	4.407	2.096	2.80	4.229	2.202	2.80	4.055	2.315
3.20	4.996	2.445	3.20	4.794	2.570	3.20	4.596	2.702
3.60	5.575	2.809	3.60	5.348	2.952	3.60	5.128	3.106
4.00	6.144	3.187	4.00	5.894	3.351	4.00	5.650	3.525
4.40	6.704	3.580	4.40	6.430	3.765	4.40	6.163	3.962
4.80	7.254	3.989	4.80	6.957	4.196	4.80	6.667	4.417
5.20	7.795	4.414	5.20	7.475	4.644	5.20	7.162	4.890
5.60	8.327	4.856	5.60	7.983	5.111	5.60	7.649	5.383
6.00	8.849	5.315	6.00	8.483	5.596	6.00	8.126	5.895
6.40	9.362	5.793	6.40	8.974	6.100	6.40	8.596	6.429
6.80	9.866	6.289	6.80	9.456	6.625	6.80	9.056	6.984
7.20	10.361	6.805	7.20	9.929	7.171	7.20	9.509	7.561
7.60	10.848	7.342	7.60	10.394	7.738	7.60	9.953	8.162
8.00	11.325	7.900	8.00	10.850	8.326	8.00	10.388	8.787
8.40	11.795	8.480	8.40	11.299	8.942	8.40	10.816	9.438
8.80	12.255	9.082	8.80	11.739	9.581	8.80	11.236	10.115
9.20	12.708	9.709	9.20	12.170	10.245	9.20	11.648	10.819
9.60	13.152	10.360	9.60	12.594	10.935	9.60	12.052	11.552
10.00	13.587	11.037	10.00	13.010	11.654	10.00	12.448	12.314
10.40	14.015	11.741	10.40	13.418	12.401	10.40	12.837	13.108
10.80	14.435	12.473	10.80	13.818	13.178	10.80	13.219	13.933
11.20	14.847	13.234	11.20	14.211	13.986	11.20	13.592	14.792
11.60	15.251	14.025	11.60	14.596	14.826	11.60	13.959	15.686
163.00	26.683		162.00	25.242		161.00	23.860	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.40	0.584	0.306	0.30	0.421	0.240	0.30	0.403	0.253
0.80	1.158	0.626	0.60	0.836	0.488	0.60	0.801	0.514
1.20	1.723	0.959	0.90	1.246	0.744	0.90	1.193	0.783
1.60	2.277	1.305	1.20	1.651	1.008	1.20	1.581	1.061
2.00	2.823	1.667	1.50	2.051	1.281	1.50	1.963	1.348
2.40	3.359	2.043	1.80	2.445	1.562	1.80	2.340	1.644
2.80	3.886	2.435	2.10	2.834	1.852	2.10	2.712	1.950
3.20	4.404	2.844	2.40	3.218	2.151	2.40	3.080	2.265
3.60	4.912	3.269	2.70	3.597	2.459	2.70	3.442	2.591
4.00	5.412	3.712	3.00	3.971	2.777	3.00	3.799	2.926
4.40	5.903	4.173	3.30	4.340	3.105	3.30	4.152	3.273
4.80	6.385	4.653	3.60	4.704	3.444	3.60	4.500	3.630
5.20	6.858	5.153	3.90	5.063	3.793	3.90	4.843	3.999
5.60	7.323	5.674	4.20	5.417	4.152	4.20	5.182	4.379
6.00	7.779	6.216	4.50	5.767	4.524	4.50	5.515	4.772
6.40	8.228	6.781	4.80	6.111	4.906	4.80	5.845	5.177
6.80	8.668	7.368	5.10	6.451	5.301	5.10	6.169	5.594
7.20	9.099	7.980	5.40	6.787	5.708	5.40	6.489	6.025
7.60	9.523	8.616	5.70	7.117	6.127	5.70	6.805	6.469
8.00	9.939	9.279	6.00	7.443	6.560	6.00	7.116	6.927
8.40	10.347	9.969	6.30	7.765	7.005	6.30	7.423	7.400
8.80	10.747	10.687	6.60	8.082	7.465	6.60	7.725	7.887
9.20	11.140	11.435	6.90	8.395	7.939	6.90	8.023	8.390
9.60	11.525	12.213	7.20	8.703	8.428	7.20	8.317	8.909
10.00	11.902	13.024	7.50	9.007	8.932	7.50	8.606	9.444
10.40	12.273	13.867	7.80	9.306	9.451	7.80	8.892	9.995
10.80	12.636	14.745	8.10	9.601	9.987	8.10	9.173	10.564
11.20	12.992	15.659	8.40	9.892	10.539	8.40	9.450	11.151
11.60	13.341	16.611	8.70	10.179	11.108	8.70	9.723	11.756

B FACTORS FOR FLUORINE

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
160.00	22.537		159.00	21.271		158.00	20.061	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.30	0.386	0.266	0.30	0.369	0.280	0.30	0.353	0.295
0.60	0.766	0.541	0.60	0.733	0.570	0.60	0.701	0.601
0.90	1.142	0.825	0.90	1.092	0.869	0.90	1.044	0.917
1.20	1.512	1.118	1.20	1.446	1.178	1.20	1.383	1.243
1.50	1.878	1.420	1.50	1.796	1.497	1.50	1.716	1.580
1.80	2.239	1.733	1.80	2.140	1.827	1.80	2.046	1.928
2.10	2.595	2.055	2.10	2.480	2.167	2.10	2.370	2.288
2.40	2.946	2.388	2.40	2.816	2.519	2.40	2.690	2.660
2.70	3.292	2.732	2.70	3.146	2.882	2.70	3.006	3.044
3.00	3.633	3.086	3.00	3.472	3.257	3.00	3.317	3.441
3.30	3.970	3.452	3.30	3.794	3.644	3.30	3.624	3.850
3.60	4.303	3.830	3.60	4.111	4.044	3.60	3.926	4.274
3.90	4.630	4.220	3.90	4.424	4.457	3.90	4.224	4.711
4.20	4.953	4.623	4.20	4.732	4.883	4.20	4.518	5.163
4.50	5.272	5.038	4.50	5.036	5.323	4.50	4.807	5.629
4.80	5.586	5.466	4.80	5.335	5.777	4.80	5.093	6.111
5.10	5.896	5.909	5.10	5.630	6.246	5.10	5.374	6.608
5.40	6.201	6.365	5.40	5.921	6.730	5.40	5.651	7.122
5.70	6.502	6.836	5.70	6.208	7.230	5.70	5.924	7.653
6.00	6.798	7.322	6.00	6.490	7.745	6.00	6.193	8.200
6.30	7.091	7.823	6.30	6.769	8.278	6.30	6.458	8.766
6.60	7.379	8.341	6.60	7.043	8.827	6.60	6.719	9.350
6.90	7.663	8.874	6.90	7.313	9.394	6.90	6.976	9.953
7.20	7.942	9.425	7.20	7.580	9.980	7.20	7.229	10.576
7.50	8.218	9.993	7.50	7.842	10.584	7.50	7.478	11.219
7.80	8.490	10.579	7.80	8.100	11.208	7.80	7.724	11.884
8.10	8.757	11.184	8.10	8.355	11.851	8.10	7.966	12.569
8.40	9.021	11.808	8.40	8.606	12.516	8.40	8.204	13.277
8.70	9.281	12.452	8.70	8.852	13.201	8.70	8.438	14.008
157.00	18.904		156.00	17.799		155.00	16.744	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.30	0.337	0.312	0.30	0.322	0.329	0.30	0.307	0.348
0.60	0.670	0.634	0.60	0.639	0.670	0.60	0.609	0.708
0.90	0.997	0.967	0.90	0.952	1.022	0.90	0.907	1.080
1.20	1.320	1.312	1.20	1.260	1.386	1.20	1.201	1.466
1.50	1.639	1.668	1.50	1.564	1.763	1.50	1.490	1.864
1.80	1.953	2.036	1.80	1.863	2.152	1.80	1.776	2.277
2.10	2.263	2.417	2.10	2.158	2.555	2.10	2.057	2.704
2.40	2.568	2.810	2.40	2.449	2.972	2.40	2.334	3.146
2.70	2.869	3.217	2.70	2.736	3.403	2.70	2.607	3.602
3.00	3.165	3.637	3.00	3.018	3.848	3.00	2.876	4.075
3.30	3.458	4.071	3.30	3.297	4.309	3.30	3.141	4.563
3.60	3.746	4.520	3.60	3.571	4.784	3.60	3.402	5.069
3.90	4.030	4.984	3.90	3.841	5.277	3.90	3.659	5.592
4.20	4.309	5.463	4.20	4.108	5.785	4.20	3.912	6.132
4.50	4.585	5.958	4.50	4.370	6.311	4.50	4.161	6.691
4.80	4.857	6.469	4.80	4.628	6.854	4.80	4.407	7.269
5.10	5.124	6.997	5.10	4.883	7.416	5.10	4.649	7.867
5.40	5.388	7.543	5.40	5.134	7.996	5.40	4.887	8.484
5.70	5.648	8.107	5.70	5.380	8.596	5.70	5.121	9.123
6.00	5.903	8.690	6.00	5.623	9.216	6.00	5.352	9.784
6.30	6.155	9.291	6.30	5.863	9.857	6.30	5.579	10.467
6.60	6.404	9.913	6.60	6.098	10.519	6.60	5.803	11.173
6.90	6.648	10.555	6.90	6.330	11.204	6.90	6.023	11.903
7.20	6.888	11.219	7.20	6.559	11.911	7.20	6.240	12.658
7.50	7.125	11.904	7.50	6.784	12.642	7.50	6.453	13.438
7.80	7.359	12.612	7.80	7.005	13.397	7.80	6.663	14.245
8.10	7.588	13.343	8.10	7.223	14.178	8.10	6.869	15.079
8.40	7.814	14.098	8.40	7.437	14.984	8.40	7.072	15.941
8.70	8.037	14.878	8.70	7.648	15.818	8.70	7.272	16.833

B FACTORS FOR FLUORINE

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
154.00	15.739		153.00	14.781		152.00	13.868	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.30	0.293	0.368	0.20	0.186	0.258	0.20	0.177	0.273
0.60	0.581	0.749	0.40	0.371	0.522	0.40	0.352	0.553
0.90	0.865	1.143	0.60	0.553	0.793	0.60	0.526	0.840
1.20	1.144	1.551	0.80	0.734	1.069	0.80	0.697	1.133
1.50	1.420	1.974	1.00	0.913	1.353	1.00	0.867	1.434
1.80	1.692	2.411	1.20	1.090	1.643	1.20	1.036	1.742
2.10	1.959	2.864	1.40	1.265	1.940	1.40	1.203	2.057
2.40	2.223	3.332	1.60	1.439	2.244	1.60	1.368	2.380
2.70	2.483	3.817	1.80	1.610	2.555	1.80	1.531	2.710
3.00	2.738	4.319	2.00	1.780	2.873	2.00	1.692	3.048
3.30	2.990	4.838	2.20	1.949	3.199	2.20	1.852	3.395
3.60	3.239	5.375	2.40	2.116	3.533	2.40	2.011	3.749
3.90	3.483	5.931	2.60	2.281	3.874	2.60	2.167	4.112
4.20	3.723	6.506	2.80	2.444	4.224	2.80	2.323	4.484
4.50	3.960	7.100	3.00	2.605	4.581	3.00	2.476	4.864
4.80	4.194	7.716	3.20	2.765	4.947	3.20	2.628	5.253
5.10	4.423	8.352	3.40	2.924	5.321	3.40	2.778	5.652
5.40	4.649	9.011	3.60	3.080	5.705	3.60	2.927	6.060
5.70	4.872	9.692	3.80	3.236	6.097	3.80	3.074	6.478
6.00	5.091	10.396	4.00	3.389	6.498	4.00	3.220	6.905
6.30	5.306	11.125	4.20	3.541	6.908	4.20	3.364	7.342
6.60	5.518	11.879	4.40	3.691	7.328	4.40	3.506	7.790
6.90	5.727	12.658	4.60	3.840	7.758	4.60	3.647	8.249
7.20	5.932	13.465	4.80	3.987	8.197	4.80	3.787	8.718
7.50	6.134	14.298	5.00	4.133	8.647	5.00	3.925	9.198
7.80	6.333	15.161	5.20	4.277	9.107	5.20	4.061	9.689
8.10	6.528	16.053	5.40	4.419	9.578	5.40	4.196	10.192
8.40	6.721	16.976	5.60	4.560	10.060	5.60	4.330	10.706
8.70	6.910	17.930	5.80	4.700	10.553	5.80	4.462	11.233

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
151.00	13.001		150.00	12.176		149.00	11.392	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.20	0.169	0.290	0.20	0.160	0.307	0.20	0.152	0.327
0.40	0.336	0.587	0.40	0.319	0.623	0.40	0.302	0.661
0.60	0.501	0.891	0.60	0.475	0.945	0.60	0.451	1.004
0.80	0.664	1.202	0.80	0.631	1.276	0.80	0.598	1.356
1.00	0.825	1.521	1.00	0.784	1.615	1.00	0.744	1.717
1.20	0.985	1.848	1.20	0.936	1.963	1.20	0.888	2.087
1.40	1.144	2.183	1.40	1.086	2.319	1.40	1.030	2.465
1.60	1.300	2.526	1.60	1.235	2.683	1.60	1.171	2.854
1.80	1.456	2.877	1.80	1.382	3.057	1.80	1.311	3.252
2.00	1.609	3.237	2.00	1.528	3.440	2.00	1.449	3.659
2.20	1.761	3.605	2.20	1.672	3.832	2.20	1.585	4.077
2.40	1.911	3.982	2.40	1.814	4.234	2.40	1.720	4.506
2.60	2.060	4.369	2.60	1.955	4.645	2.60	1.854	4.945
2.80	2.207	4.764	2.80	2.095	5.067	2.80	1.986	5.394
3.00	2.353	5.169	3.00	2.233	5.499	3.00	2.117	5.855
3.20	2.497	5.584	3.20	2.369	5.941	3.20	2.246	6.327
3.40	2.639	6.009	3.40	2.504	6.394	3.40	2.374	6.811
3.60	2.780	6.444	3.60	2.638	6.858	3.60	2.500	7.307
3.80	2.920	6.889	3.80	2.770	7.334	3.80	2.625	7.815
4.00	3.058	7.345	4.00	2.901	7.820	4.00	2.749	8.335
4.20	3.194	7.812	4.20	3.030	8.319	4.20	2.871	8.868
4.40	3.329	8.290	4.40	3.158	8.829	4.40	2.992	9.414
4.60	3.463	8.779	4.60	3.284	9.352	4.60	3.111	9.973
4.80	3.595	9.280	4.80	3.409	9.888	4.80	3.229	10.547
5.00	3.726	9.793	5.00	3.533	10.436	5.00	3.346	11.134
5.20	3.855	10.318	5.20	3.655	10.998	5.20	3.462	11.735
5.40	3.983	10.855	5.40	3.776	11.573	5.40	3.576	12.351
5.60	4.109	11.405	5.60	3.895	12.162	5.60	3.689	12.982
5.80	4.234	11.968	5.80	4.013	12.765	5.80	3.801	13.629

B FACTORS FOR FLUORINE

148.00			147.00			146.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.20	0.144	0.347	0.20	0.136	0.369	0.20	0.129	0.393
0.40	0.286	0.703	0.40	0.271	0.748	0.40	0.257	0.797
0.60	0.427	1.068	0.60	0.405	1.137	0.60	0.383	1.212
0.80	0.567	1.443	0.80	0.537	1.536	0.80	0.508	1.637
1.00	0.705	1.827	1.00	0.668	1.945	1.00	0.632	2.073
1.20	0.841	2.220	1.20	0.797	2.365	1.20	0.754	2.521
1.40	0.976	2.624	1.40	0.925	2.795	1.40	0.875	2.981
1.60	1.110	3.038	1.60	1.051	3.237	1.60	0.994	3.452
1.80	1.242	3.462	1.80	1.176	3.689	1.80	1.112	3.936
2.00	1.373	3.897	2.00	1.300	4.154	2.00	1.229	4.432
2.20	1.502	4.343	2.20	1.422	4.630	2.20	1.345	4.941
2.40	1.630	4.800	2.40	1.543	5.118	2.40	1.459	5.463
2.60	1.756	5.268	2.60	1.662	5.619	2.60	1.572	5.998
2.80	1.881	5.748	2.80	1.780	6.132	2.80	1.684	6.548
3.00	2.005	6.241	3.00	1.897	6.658	3.00	1.794	7.111
3.20	2.127	6.745	3.20	2.013	7.198	3.20	1.903	7.689
3.40	2.248	7.262	3.40	2.127	7.751	3.40	2.011	8.282
3.60	2.367	7.792	3.60	2.240	8.319	3.60	2.117	8.890
3.80	2.485	8.336	3.80	2.352	8.901	3.80	2.223	9.514
4.00	2.602	8.892	4.00	2.462	9.497	4.00	2.327	10.153
4.20	2.718	9.463	4.20	2.571	10.108	4.20	2.429	10.809
4.40	2.832	10.048	4.40	2.679	10.735	4.40	2.531	11.482
4.60	2.945	10.647	4.60	2.785	11.378	4.60	2.632	12.172
4.80	3.057	11.261	4.80	2.891	12.036	4.80	2.731	12.879
5.00	3.167	11.890	5.00	2.995	12.712	5.00	2.829	13.604
5.20	3.276	12.535	5.20	3.097	13.404	5.20	2.926	14.348
5.40	3.384	13.196	5.40	3.199	14.113	5.40	3.022	15.111
5.60	3.490	13.873	5.60	3.300	14.840	5.60	3.116	15.893
5.80	3.596	14.567	5.80	3.399	15.586	5.80	3.210	16.695

145.00			144.00			143.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.20	0.122	0.420	0.20	0.116	0.448	0.20	0.109	0.478
0.40	0.243	0.850	0.40	0.230	0.908	0.40	0.217	0.970
0.60	0.362	1.292	0.60	0.343	1.380	0.60	0.323	1.475
0.80	0.480	1.746	0.80	0.455	1.865	0.80	0.429	1.994
1.00	0.597	2.212	1.00	0.565	2.363	1.00	0.533	2.527
1.20	0.713	2.691	1.20	0.674	2.875	1.20	0.635	3.074
1.40	0.827	3.182	1.40	0.782	3.400	1.40	0.737	3.637
1.60	0.940	3.686	1.60	0.888	3.939	1.60	0.838	4.215
1.80	1.052	4.203	1.80	0.994	4.493	1.80	0.937	4.808
2.00	1.162	4.734	2.00	1.098	5.061	2.00	1.035	5.418
2.20	1.271	5.278	2.20	1.200	5.645	2.20	1.132	6.044
2.40	1.379	5.837	2.40	1.302	6.244	2.40	1.228	6.686
2.60	1.485	6.411	2.60	1.403	6.859	2.60	1.322	7.347
2.80	1.591	6.999	2.80	1.502	7.490	2.80	1.416	8.024
3.00	1.695	7.603	3.00	1.600	8.138	3.00	1.508	8.721
3.20	1.797	8.223	3.20	1.697	8.803	3.20	1.599	9.435
3.40	1.899	8.859	3.40	1.793	9.486	3.40	1.689	10.169
3.60	2.000	9.511	3.60	1.887	10.187	3.60	1.778	10.923
3.80	2.099	10.181	3.80	1.981	10.906	3.80	1.866	11.697
4.00	2.197	10.867	4.00	2.073	11.644	4.00	1.953	12.491
4.20	2.294	11.572	4.20	2.164	12.402	4.20	2.039	13.306
4.40	2.390	12.294	4.40	2.254	13.179	4.40	2.123	14.144
4.60	2.484	13.036	4.60	2.343	13.977	4.60	2.207	15.003
4.80	2.578	13.796	4.80	2.431	14.795	4.80	2.289	15.886
5.00	2.670	14.576	5.00	2.518	15.636	5.00	2.371	16.791
5.20	2.761	15.377	5.20	2.604	16.498	5.20	2.452	17.721
5.40	2.851	16.198	5.40	2.688	17.382	5.40	2.531	18.676
5.60	2.940	17.040	5.60	2.772	18.290	5.60	2.610	19.656
5.80	3.028	17.903	5.80	2.854	19.222	5.80	2.687	20.662

B FACTORS FOR FLUORINE

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
142.00	6.948		141.00	6.446		140.00	5.973	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.20	0.102	0.512	0.20	0.097	0.548	0.20	0.091	0.587
0.40	0.204	1.038	0.40	0.193	1.111	0.40	0.181	1.191
0.60	0.305	1.578	0.60	0.287	1.691	0.60	0.270	1.813
0.80	0.404	2.134	0.80	0.381	2.286	0.80	0.358	2.452
1.00	0.502	2.705	1.00	0.473	2.899	1.00	0.445	3.110
1.20	0.599	3.292	1.20	0.564	3.528	1.20	0.531	3.786
1.40	0.695	3.895	1.40	0.654	4.176	1.40	0.615	4.482
1.60	0.789	4.514	1.60	0.743	4.841	1.60	0.699	5.197
1.80	0.883	5.151	1.80	0.831	5.525	1.80	0.781	5.933
2.00	0.975	5.805	2.00	0.918	6.228	2.00	0.863	6.690
2.20	1.066	6.478	2.20	1.004	6.951	2.20	0.944	7.467
2.40	1.156	7.168	2.40	1.088	7.694	2.40	1.023	8.267
2.60	1.245	7.878	2.60	1.172	8.457	2.60	1.102	9.090
2.80	1.333	8.606	2.80	1.254	9.241	2.80	1.179	9.935
3.00	1.420	9.355	3.00	1.335	10.048	3.00	1.256	10.804
3.20	1.506	10.124	3.20	1.417	10.876	3.20	1.331	11.698
3.40	1.590	10.914	3.40	1.496	11.727	3.40	1.406	12.617
3.60	1.674	11.726	3.60	1.575	12.602	3.60	1.479	13.561
3.80	1.756	12.559	3.80	1.652	13.501	3.80	1.552	14.531
4.00	1.838	13.415	4.00	1.729	14.425	4.00	1.624	15.529
4.20	1.919	14.294	4.20	1.804	15.373	4.20	1.694	16.555
4.40	1.998	15.197	4.40	1.879	16.348	4.40	1.764	17.609
4.60	2.077	16.124	4.60	1.952	17.350	4.60	1.833	18.692
4.80	2.154	17.076	4.80	2.025	18.379	4.80	1.901	19.805
5.00	2.231	18.054	5.00	2.097	19.436	5.00	1.968	20.950
5.20	2.306	19.059	5.20	2.167	20.522	5.20	2.034	22.126
5.40	2.381	20.090	5.40	2.237	21.638	5.40	2.100	23.335
5.60	2.454	21.149	5.60	2.306	22.784	5.60	2.164	24.577
5.80	2.527	22.236	5.80	2.374	23.961	5.80	2.228	25.853

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
139.00	5.528		138.00	5.110		137.00	4.717	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.10	0.043	0.313	0.10	0.040	0.336	0.10	0.037	0.361
0.20	0.086	0.630	0.20	0.081	0.677	0.20	0.075	0.728
0.30	0.128	0.952	0.30	0.120	1.023	0.30	0.112	1.101
0.40	0.170	1.279	0.40	0.160	1.374	0.40	0.150	1.479
0.50	0.212	1.610	0.50	0.199	1.731	0.50	0.187	1.862
0.60	0.254	1.946	0.60	0.239	2.092	0.60	0.223	2.252
0.70	0.295	2.287	0.70	0.277	2.459	0.70	0.260	2.647
0.80	0.336	2.633	0.80	0.316	2.831	0.80	0.296	3.048
0.90	0.377	2.984	0.90	0.354	3.209	0.90	0.332	3.455
1.00	0.418	3.340	1.00	0.393	3.592	1.00	0.368	3.868
1.10	0.458	3.702	1.10	0.430	3.981	1.10	0.403	4.287
1.20	0.499	4.068	1.20	0.468	4.376	1.20	0.438	4.712
1.30	0.538	4.439	1.30	0.505	4.776	1.30	0.473	5.144
1.40	0.578	4.816	1.40	0.543	5.182	1.40	0.508	5.582
1.50	0.617	5.199	1.50	0.580	5.594	1.50	0.543	6.027
1.60	0.657	5.586	1.60	0.616	6.012	1.60	0.577	6.478
1.70	0.695	5.980	1.70	0.653	6.436	1.70	0.611	6.936
1.80	0.734	6.379	1.80	0.689	6.866	1.80	0.645	7.400
1.90	0.772	6.783	1.90	0.725	7.303	1.90	0.679	7.871
2.00	0.811	7.194	2.00	0.761	7.745	2.00	0.712	8.350
2.10	0.848	7.610	2.10	0.796	8.194	2.10	0.745	8.835
2.20	0.886	8.032	2.20	0.831	8.650	2.20	0.778	9.327
2.30	0.923	8.460	2.30	0.866	9.112	2.30	0.811	9.827
2.40	0.961	8.894	2.40	0.901	9.581	2.40	0.844	10.334
2.50	0.998	9.335	2.50	0.936	10.057	2.50	0.876	10.848
2.60	1.034	9.782	2.60	0.970	10.539	2.60	0.908	11.370
2.70	1.071	10.235	2.70	1.004	11.029	2.70	0.940	11.900
2.80	1.107	10.694	2.80	1.038	11.525	2.80	0.972	12.437
2.90	1.143	11.160	2.90	1.072	12.029	2.90	1.003	12.982

B FACTORS FOR FLUORINE

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
136.00	4.349		135.00	4.005		134.00	3.683	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.10	0.035	0.389	0.10	0.033	0.420	0.10	0.032	0.453
0.20	0.070	0.784	0.20	0.066	0.846	0.20	0.062	0.913
0.30	0.105	1.186	0.30	0.099	1.279	0.30	0.093	1.381
0.40	0.140	1.593	0.40	0.132	1.718	0.40	0.123	1.856
0.50	0.175	2.007	0.50	0.164	2.165	0.50	0.154	2.338
0.60	0.209	2.426	0.60	0.196	2.618	0.60	0.184	2.828
0.70	0.243	2.852	0.70	0.228	3.078	0.70	0.213	3.326
0.80	0.277	3.285	0.80	0.260	3.545	0.80	0.243	3.831
0.90	0.311	3.724	0.90	0.291	4.020	0.90	0.272	4.344
1.00	0.344	4.170	1.00	0.322	4.501	1.00	0.302	4.865
1.10	0.377	4.622	1.10	0.354	4.990	1.10	0.331	5.395
1.20	0.410	5.082	1.20	0.384	5.487	1.20	0.359	5.932
1.30	0.443	5.548	1.30	0.415	5.991	1.30	0.388	6.478
1.40	0.476	6.021	1.40	0.445	6.503	1.40	0.416	7.033
1.50	0.508	6.501	1.50	0.476	7.022	1.50	0.445	7.595
1.60	0.540	6.989	1.60	0.506	7.550	1.60	0.473	8.167
1.70	0.572	7.484	1.70	0.535	8.086	1.70	0.500	8.748
1.80	0.604	7.986	1.80	0.565	8.629	1.80	0.528	9.337
1.90	0.635	8.496	1.90	0.594	9.181	1.90	0.555	9.935
2.00	0.666	9.013	2.00	0.624	9.741	2.00	0.583	10.543
2.10	0.698	9.538	2.10	0.653	10.310	2.10	0.610	11.160
2.20	0.728	10.071	2.20	0.681	10.888	2.20	0.636	11.787
2.30	0.759	10.611	2.30	0.710	11.474	2.30	0.663	12.423
2.40	0.789	11.160	2.40	0.738	12.069	2.40	0.689	13.069
2.50	0.820	11.717	2.50	0.767	12.673	2.50	0.716	13.725
2.60	0.850	12.282	2.60	0.795	13.286	2.60	0.742	14.391
2.70	0.879	12.856	2.70	0.822	13.908	2.70	0.768	15.067
2.80	0.909	13.438	2.80	0.850	14.540	2.80	0.793	15.753
2.90	0.938	14.029	2.90	0.877	15.181	2.90	0.819	16.450

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
133.00	3.381		132.00	3.100		131.00	2.839	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.10	0.029	0.490	0.10	0.027	0.530	0.10	0.025	0.575
0.20	0.057	0.988	0.20	0.053	1.069	0.20	0.050	1.159
0.30	0.086	1.493	0.30	0.080	1.617	0.30	0.075	1.753
0.40	0.114	2.007	0.40	0.106	2.174	0.40	0.100	2.357
0.50	0.143	2.529	0.50	0.133	2.739	0.50	0.124	2.971
0.60	0.171	3.059	0.60	0.159	3.314	0.60	0.149	3.595
0.70	0.198	3.598	0.70	0.185	3.898	0.70	0.173	4.229
0.80	0.226	4.145	0.80	0.210	4.492	0.80	0.197	4.874
0.90	0.253	4.701	0.90	0.236	5.095	0.90	0.220	5.529
1.00	0.281	5.266	1.00	0.261	5.708	1.00	0.244	6.195
1.10	0.308	5.840	1.10	0.286	6.330	1.10	0.267	6.872
1.20	0.334	6.423	1.20	0.311	6.963	1.20	0.290	7.560
1.30	0.361	7.014	1.30	0.336	7.606	1.30	0.314	8.259
1.40	0.387	7.616	1.40	0.361	8.259	1.40	0.336	8.969
1.50	0.414	8.226	1.50	0.385	8.922	1.50	0.359	9.691
1.60	0.440	8.847	1.60	0.410	9.596	1.60	0.382	10.425
1.70	0.466	9.477	1.70	0.434	10.281	1.70	0.404	11.170
1.80	0.491	10.117	1.80	0.458	10.977	1.80	0.426	11.928
1.90	0.517	10.767	1.90	0.481	11.684	1.90	0.448	12.698
2.00	0.542	11.427	2.00	0.505	12.402	2.00	0.470	13.480
2.10	0.567	12.097	2.10	0.528	13.132	2.10	0.492	14.275
2.20	0.592	12.778	2.20	0.551	13.873	2.20	0.513	15.083
2.30	0.617	13.470	2.30	0.575	14.625	2.30	0.535	15.904
2.40	0.642	14.172	2.40	0.597	15.390	2.40	0.556	16.738
2.50	0.666	14.885	2.50	0.620	16.167	2.50	0.577	17.585
2.60	0.691	15.610	2.60	0.643	16.956	2.60	0.598	18.446
2.70	0.715	16.345	2.70	0.665	17.758	2.70	0.619	19.321
2.80	0.739	17.092	2.80	0.687	18.572	2.80	0.639	20.210
2.90	0.762	17.851	2.90	0.709	19.399	2.90	0.660	21.113

Appendix E: B-factors for oxygen, calculated from eq (5).

B FACTORS FOR OXYGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
272.00	639.301		270.00	611.917		268.00	585.486	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.70	23.339	0.151	1.70	22.525	0.139	1.70	21.747	0.131
3.40	45.983	0.305	3.40	44.387	0.285	3.40	42.859	0.270
5.10	67.960	0.465	5.10	65.609	0.434	5.10	63.356	0.415
6.80	89.294	0.631	6.80	86.213	0.594	6.80	83.258	0.570
8.50	110.005	0.809	8.50	106.219	0.765	8.50	102.582	0.735
10.20	130.116	0.992	10.20	125.644	0.944	10.20	121.345	0.912
11.90	149.642	1.189	11.90	144.505	1.135	11.90	139.561	1.099
13.60	168.601	1.396	13.60	162.817	1.337	13.60	157.245	1.302
15.30	187.009	1.614	15.30	180.593	1.555	15.30	174.408	1.515
17.00	204.879	1.849	17.00	197.848	1.785	17.00	191.064	1.747
18.70	222.224	2.097	18.70	214.592	2.030	18.70	207.224	1.989
20.40	239.058	2.360	20.40	230.839	2.293	20.40	222.898	2.253
22.10	255.391	2.643	22.10	246.598	2.570	22.10	238.097	2.528
23.80	271.236	2.940	23.80	261.880	2.868	23.80	252.831	2.828
25.50	286.601	3.259	25.50	276.696	3.188	25.50	267.110	3.147
27.20	301.499	3.600	27.20	291.054	3.526	27.20	280.943	3.493
28.90	315.937	3.966	28.90	304.965	3.888	28.90	294.338	3.861
30.60	329.926	4.352	30.60	318.437	4.277	30.60	307.305	4.250
32.30	343.475	4.765	32.30	331.479	4.692	32.30	319.852	4.673
34.00	356.592	5.208	34.00	344.099	5.139	34.00	331.988	5.119
35.70	369.286	5.676	35.70	356.307	5.611	35.70	343.721	5.605
37.40	381.567	6.183	37.40	368.111	6.126	37.40	355.059	6.120
39.10	393.441	6.718	39.10	379.518	6.668	39.10	366.010	6.674
40.80	404.917	7.298	40.80	390.537	7.243	40.80	376.583	7.262
42.50	416.004	7.906	42.50	401.175	7.866	42.50	386.784	7.898
44.20	426.709	8.568	44.20	411.442	8.538	44.20	396.622	8.586
45.90	437.041	9.272	45.90	421.343	9.255	45.90	406.105	9.321
47.60	447.006	10.032	47.60	430.888	10.029	47.60	415.241	10.115
49.30	456.614	10.842	49.30	440.084	10.857	49.30	424.036	10.966

266.00	559.968		264.00	535.324		262.00	511.521	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.70	21.002	0.129	1.70	20.285	0.124	1.70	19.594	0.124
3.40	41.393	0.262	3.40	39.982	0.254	3.40	38.620	0.256
5.10	61.192	0.406	5.10	59.106	0.398	5.10	57.091	0.400
6.80	80.416	0.560	6.80	77.674	0.551	6.80	75.024	0.550
8.50	99.081	0.721	8.50	95.701	0.712	8.50	92.430	0.715
10.20	117.202	0.897	10.20	113.199	0.887	10.20	109.324	0.894
11.90	134.793	1.087	11.90	130.182	1.077	11.90	125.715	1.084
13.60	151.866	1.285	13.60	146.662	1.278	13.60	141.617	1.287
15.30	168.434	1.500	15.30	162.649	1.492	15.30	157.038	1.506
17.00	184.507	1.731	17.00	178.154	1.728	17.00	171.990	1.743
18.70	200.096	1.976	18.70	193.188	1.973	18.70	186.482	1.994
20.40	215.213	2.241	20.40	207.761	2.243	20.40	200.523	2.270
22.10	229.866	2.526	22.10	221.881	2.528	22.10	214.123	2.562
23.80	244.065	2.825	23.80	235.558	2.834	23.80	227.291	2.878
25.50	257.820	3.150	25.50	248.801	3.166	25.50	240.035	3.213
27.20	271.139	3.497	27.20	261.619	3.520	27.20	252.363	3.579
28.90	284.032	3.872	28.90	274.020	3.897	28.90	264.285	3.966
30.60	296.506	4.268	30.60	286.013	4.310	30.60	275.807	4.384
32.30	308.570	4.700	32.30	297.606	4.746	32.30	286.940	4.834
34.00	320.233	5.159	34.00	308.806	5.216	34.00	297.689	5.320
35.70	331.502	5.649	35.70	319.623	5.720	35.70	308.064	5.841
37.40	342.385	6.179	37.40	330.063	6.265	37.40	318.072	6.404
39.10	352.892	6.745	39.10	340.136	6.849	39.10	327.722	7.009
40.80	363.029	7.349	40.80	349.848	7.472	40.80	337.019	7.655
42.50	372.804	8.004	42.50	359.207	8.148	42.50	345.974	8.357
44.20	382.225	8.712	44.20	368.221	8.880	44.20	354.592	9.118
45.90	391.299	9.470	45.90	376.898	9.665	45.90	362.882	9.936
47.60	400.035	10.291	47.60	385.245	10.517	47.60	370.851	10.820
49.30	408.440	11.171	49.30	393.270	11.431	49.30	378.506	11.775

B FACTORS FOR OXYGEN

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
260.00	488.528		258.00	466.320		256.00	444.870	
DTV (R)	DPV (PSIA)	B	DTV (R)	OPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.60	17.828	0.116	1.60	17.220	0.114	1.60	16.629	0.118
3.20	35.168	0.240	3.20	33.965	0.242	3.20	32.797	0.243
4.80	52.031	0.373	4.80	50.248	0.375	4.80	48.515	0.380
6.40	68.428	0.517	6.40	66.077	0.519	6.40	63.792	0.530
8.00	84.369	0.669	8.00	81.463	0.676	8.00	78.637	0.688
9.60	99.866	0.835	9.60	96.416	0.842	9.60	93.060	0.859
11.20	114.926	1.010	11.20	110.943	1.022	11.20	107.068	1.041
12.80	129.559	1.199	12.80	125.054	1.217	12.80	120.669	1.241
14.40	143.773	1.403	14.40	138.757	1.422	14.40	133.872	1.453
16.00	157.577	1.618	16.00	152.058	1.644	16.00	146.684	1.682
17.60	170.978	1.855	17.60	164.968	1.882	17.60	159.113	1.923
19.20	183.985	2.104	19.20	177.491	2.139	19.20	171.165	2.188
20.80	196.604	2.367	20.80	189.637	2.416	20.80	182.848	2.469
22.40	208.844	2.656	22.40	201.412	2.708	22.40	194.169	2.777
24.00	220.710	2.965	24.00	212.822	3.022	24.00	205.135	3.102
25.60	232.211	3.293	25.60	223.876	3.365	25.60	215.752	3.451
27.20	243.354	3.644	27.20	234.580	3.726	27.20	226.027	3.827
28.80	254.144	4.025	28.80	244.940	4.110	28.80	235.967	4.224
30.40	264.589	4.424	30.40	254.963	4.528	30.40	245.578	4.659
32.00	274.696	4.857	32.00	264.656	4.977	32.00	254.868	5.126
33.60	284.471	5.323	33.60	274.025	5.460	33.60	263.841	5.628
35.20	293.921	5.822	35.20	283.077	5.979	35.20	272.506	6.169
36.80	303.052	6.350	36.80	291.818	6.528	36.80	280.868	6.742
38.40	311.870	6.926	38.40	300.255	7.127	38.40	288.933	7.367
40.00	320.382	7.544	40.00	308.394	7.771	40.00	296.708	8.041
41.60	328.595	8.209	41.60	316.241	8.465	41.60	304.200	8.764
43.20	336.515	8.923	43.20	323.803	9.208	43.20	311.413	9.547
44.80	344.147	9.688	44.80	331.085	10.012	44.80	318.355	10.387
46.40	351.499	10.516	46.40	338.095	10.874	46.40	325.032	11.294

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
254.00	424.156		252.00	404.159		250.00	384.857	
DTV (R)	DPV (PSIA)	B	DTV (R)	OPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.60	16.054	0.119	1.50	14.541	0.116	1.50	14.031	0.117
3.20	31.661	0.249	3.00	28.698	0.238	3.00	27.687	0.244
4.80	46.829	0.387	4.50	42.478	0.371	4.50	40.977	0.378
6.40	61.568	0.541	6.00	55.889	0.512	6.00	53.906	0.523
8.00	75.886	0.700	7.50	68.938	0.667	7.50	66.481	0.680
9.60	89.792	0.878	9.00	81.630	0.831	9.00	78.709	0.850
11.20	103.293	1.065	10.50	93.973	1.008	10.50	90.596	1.032
12.80	116.398	1.268	12.00	105.973	1.198	12.00	102.148	1.230
14.40	129.113	1.487	13.50	117.636	1.399	13.50	113.371	1.437
16.00	141.447	1.723	15.00	128.968	1.619	15.00	124.270	1.666
17.60	153.406	1.973	16.50	139.974	1.851	16.50	134.852	1.906
19.20	164.998	2.248	18.00	150.661	2.099	18.00	145.122	2.165
20.80	176.229	2.539	19.50	161.035	2.371	19.50	155.085	2.442
22.40	187.107	2.851	21.00	171.100	2.658	21.00	164.748	2.740
24.00	197.638	3.189	22.50	180.862	2.959	22.50	174.115	3.053
25.60	207.829	3.552	24.00	190.327	3.290	24.00	183.193	3.397
27.20	217.686	3.942	25.50	199.501	3.643	25.50	191.986	3.765
28.80	227.217	4.356	27.00	208.388	4.023	27.00	200.500	4.154
30.40	236.426	4.808	28.50	216.995	4.421	28.50	208.740	4.577
32.00	245.322	5.295	30.00	225.325	4.858	30.00	216.711	5.034
33.60	253.911	5.819	31.50	233.386	5.325	31.50	224.419	5.522
35.20	262.198	6.384	33.00	241.181	5.819	33.00	231.869	6.049
36.80	270.190	6.983	34.50	248.717	6.356	34.50	239.066	6.603
38.40	277.893	7.636	36.00	255.997	6.935	36.00	246.016	7.209
40.00	285.315	8.343	37.50	263.029	7.554	37.50	252.722	7.859
41.60	292.460	9.105	39.00	269.815	8.219	39.00	259.191	8.559
43.20	299.335	9.935	40.50	276.363	8.934	40.50	265.427	9.323
44.80	305.946	10.820	42.00	282.676	9.702	42.00	271.436	10.134
46.40	312.299	11.777	43.50	288.760	10.525	43.50	277.222	11.004

B FACTORS FOR OXYGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
248.00	366.233		246.00	348.270		244.00	330.951	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.50	13.533	0.118	1.40	12.190	0.114	1.40	11.748	0.119
3.00	26.702	0.249	2.80	24.069	0.242	2.80	23.193	0.248
4.50	39.513	0.388	4.20	35.643	0.372	4.20	34.340	0.387
6.00	51.971	0.539	5.60	46.918	0.516	5.60	45.194	0.532
7.50	64.085	0.702	7.00	57.897	0.671	7.00	55.760	0.694
9.00	75.860	0.878	8.40	68.586	0.833	8.40	66.043	0.862
10.50	87.301	1.063	9.80	78.989	1.007	9.80	76.047	1.044
12.00	98.415	1.268	11.20	89.112	1.200	11.20	85.777	1.239
13.50	109.208	1.484	12.60	98.959	1.401	12.60	95.237	1.448
15.00	119.685	1.716	14.00	108.535	1.617	14.00	104.433	1.673
16.50	129.853	1.966	15.40	117.843	1.847	15.40	113.368	1.914
18.00	139.715	2.235	16.80	126.890	2.089	16.80	122.048	2.166
19.50	149.279	2.523	18.20	135.678	2.355	18.20	130.476	2.443
21.00	158.549	2.834	19.60	144.213	2.639	19.60	138.656	2.740
22.50	167.531	3.161	21.00	152.499	2.942	21.00	146.594	3.051
24.00	176.231	3.520	22.40	160.540	3.261	22.40	154.293	3.391
25.50	184.653	3.904	23.80	168.341	3.609	23.80	161.758	3.756
27.00	192.803	4.311	25.20	175.906	3.981	25.20	168.993	4.146
28.50	200.686	4.754	26.60	183.239	4.372	26.60	176.002	4.556
30.00	208.307	5.233	28.00	190.344	4.798	28.00	182.789	5.004
31.50	215.672	5.745	29.40	197.226	5.255	29.40	189.359	5.483
33.00	222.786	6.296	30.80	203.889	5.742	30.80	195.716	5.998
34.50	229.654	6.889	32.20	210.337	6.256	32.20	201.864	6.547
36.00	236.281	7.529	33.60	216.574	6.817	33.60	207.807	7.139
37.50	242.671	8.212	35.00	222.604	7.415	35.00	213.549	7.772
39.00	248.831	8.951	36.40	228.432	8.056	36.40	219.094	8.450
40.50	254.765	9.747	37.80	234.061	8.758	37.80	224.447	9.179
42.00	260.478	10.613	39.20	239.495	9.496	39.20	229.611	9.974
43.50	265.975	11.535	40.60	244.740	10.289	40.60	234.590	10.815

242.00	314.262		240.00	298.186		238.00	282.709	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.40	11.317	0.124	1.40	10.896	0.125	1.40	10.485	0.130
2.80	22.338	0.253	2.80	21.503	0.264	2.80	20.687	0.271
4.20	33.068	0.398	4.20	31.826	0.410	4.20	30.613	0.428
5.60	43.512	0.549	5.60	41.869	0.568	5.60	40.265	0.592
7.00	53.675	0.717	7.00	51.638	0.738	7.00	49.650	0.770
8.40	63.561	0.893	8.40	61.137	0.921	8.40	58.770	0.956
9.80	73.175	1.083	9.80	70.371	1.118	9.80	67.632	1.162
11.20	82.522	1.286	11.20	79.343	1.330	11.20	76.239	1.383
12.60	91.605	1.499	12.60	88.058	1.552	12.60	84.596	1.616
14.00	100.430	1.733	14.00	96.522	1.797	14.00	92.707	1.872
15.40	109.001	1.985	15.40	104.737	2.060	15.40	100.576	2.147
16.80	117.323	2.248	16.80	112.710	2.335	16.80	108.207	2.436
18.20	125.398	2.538	18.20	120.443	2.638	18.20	115.606	2.754
19.60	133.233	2.848	19.60	127.941	2.963	19.60	122.776	3.095
21.00	140.832	3.174	21.00	135.208	3.305	21.00	129.721	3.462
22.40	148.197	3.530	22.40	142.249	3.679	22.40	136.446	3.847
23.80	155.335	3.913	23.80	149.068	4.081	23.80	142.955	4.270
25.20	162.249	4.323	25.20	155.669	4.511	25.20	149.252	4.725
26.60	168.942	4.753	26.60	162.056	4.974	26.60	155.341	5.212
28.00	175.421	5.224	28.00	168.234	5.471	28.00	161.226	5.737
29.40	181.687	5.730	29.40	174.205	6.003	29.40	166.911	6.300
30.80	187.747	6.270	30.80	179.976	6.575	30.80	172.401	6.905
32.20	193.603	6.853	32.20	185.549	7.189	32.20	177.699	7.568
33.60	199.261	7.476	33.60	190.929	7.851	33.60	182.810	8.269
35.00	204.723	8.157	35.00	196.119	8.570	35.00	187.737	9.033
36.40	209.994	8.876	36.40	201.125	9.334	36.40	192.485	9.847
37.80	215.078	9.650	37.80	205.949	10.169	37.80	197.057	10.733
39.20	219.979	10.491	39.20	210.596	11.051	39.20	201.457	11.689
40.60	224.702	11.399	40.60	215.069	12.016	40.60	205.690	12.721

B FACTORS FOR OXYGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		
236.00	267.818		234.00	253.498		232.00	239.735		
	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
	1.30	9.373	0.126	1.30	9.008	0.132	1.30	8.652	0.137
	2.60	18.507	0.262	2.60	17.784	0.273	2.60	17.078	0.280
	3.90	27.407	0.407	3.90	26.332	0.426	3.90	25.281	0.440
	5.20	36.078	0.564	5.20	34.655	0.590	5.20	33.265	0.611
	6.50	44.521	0.727	6.50	42.756	0.760	6.50	41.033	0.789
	7.80	52.741	0.908	7.80	50.640	0.949	7.80	48.589	0.987
	9.10	60.742	1.101	9.10	58.310	1.152	9.10	55.936	1.199
	10.40	68.526	1.303	10.40	65.768	1.363	10.40	63.077	1.421
	11.70	76.098	1.524	11.70	73.020	1.596	11.70	70.016	1.665
	13.00	83.461	1.756	13.00	80.068	1.839	13.00	76.757	1.920
	14.30	90.618	2.010	14.30	86.915	2.106	14.30	83.303	2.200
	15.60	97.573	2.282	15.60	93.565	2.392	15.60	89.656	2.502
	16.90	104.329	2.566	16.90	100.022	2.691	16.90	95.822	2.824
	18.20	110.889	2.878	18.20	106.288	3.018	18.20	101.802	3.161
	19.50	117.257	3.210	19.50	112.368	3.370	19.50	107.600	3.531
	20.80	123.437	3.566	20.80	118.263	3.746	20.80	113.220	3.927
	22.10	129.431	3.940	22.10	123.979	4.148	22.10	118.665	4.352
	23.40	135.243	4.347	23.40	129.517	4.579	23.40	123.937	4.807
	24.70	140.877	4.782	24.70	134.882	5.040	24.70	129.041	5.296
	26.00	146.335	5.248	26.00	140.077	5.534	26.00	133.980	5.829
	27.30	151.621	5.747	27.30	145.104	6.062	27.30	138.757	6.391
	28.60	156.738	6.279	28.60	149.968	6.629	28.60	143.374	6.992
	29.90	161.689	6.862	29.90	154.670	7.235	29.90	147.836	7.649
	31.20	166.478	7.473	31.20	159.215	7.897	31.20	152.145	8.342
	32.50	171.107	8.127	32.50	163.606	8.595	32.50	156.304	9.100
	33.80	175.581	8.844	33.80	167.846	9.356	33.80	160.317	9.911
	35.10	179.901	9.596	35.10	171.937	10.174	35.10	164.187	10.771
	36.40	184.072	10.414	36.40	175.884	11.034	36.40	167.917	11.707
	37.70	188.097	11.280	37.70	179.689	11.977	37.70	171.510	12.731
230.00	226.518		228.00	213.832		226.00	201.664		
	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
	1.20	7.675	0.133	1.20	7.362	0.139	1.10	6.476	0.133
	2.40	15.161	0.270	2.40	14.540	0.282	2.20	12.800	0.270
	3.60	22.461	0.422	3.60	21.537	0.442	3.30	18.977	0.422
	4.80	29.579	0.579	4.80	28.356	0.607	4.40	25.006	0.577
	6.00	36.516	0.753	6.00	34.998	0.789	5.50	30.891	0.749
	7.20	43.275	0.939	7.20	41.468	0.985	6.60	36.633	0.926
	8.40	49.860	1.132	8.40	47.767	1.187	7.70	42.235	1.120
	9.60	56.273	1.345	9.60	53.899	1.411	8.80	47.698	1.321
	10.80	62.516	1.565	10.80	59.866	1.642	9.90	53.025	1.541
	12.00	68.592	1.807	12.00	65.670	1.897	11.00	58.217	1.775
	13.20	74.505	2.065	13.20	71.315	2.169	12.10	63.277	2.017
	14.40	80.255	2.333	14.40	76.803	2.460	13.20	68.207	2.281
	15.60	85.848	2.627	15.60	82.136	2.763	14.30	73.008	2.563
	16.80	91.283	2.941	16.80	87.317	3.093	15.40	77.683	2.862
	18.00	96.566	3.276	18.00	92.349	3.448	16.50	82.234	3.180
	19.20	101.697	3.633	19.20	97.234	3.825	17.60	86.663	3.508
	20.40	106.680	4.004	20.40	101.975	4.228	18.70	90.970	3.867
	21.60	111.517	4.411	21.60	106.575	4.660	19.80	95.160	4.248
	22.80	116.210	4.843	22.80	111.035	5.120	20.90	99.233	4.654
	24.00	120.763	5.316	24.00	115.359	5.621	22.00	103.191	5.095
	25.20	125.178	5.810	25.20	119.549	6.147	23.10	107.037	5.555
	26.40	129.457	6.337	26.40	123.608	6.709	24.20	110.772	6.041
	27.60	133.603	6.900	27.60	127.537	7.320	25.30	114.399	6.559
	28.80	137.618	7.512	28.80	131.340	7.962	26.40	117.918	7.123
	30.00	141.505	8.154	30.00	135.019	8.661	27.50	121.333	7.710
	31.20	145.266	8.853	31.20	138.576	9.409	28.60	124.645	8.349
	32.40	148.904	9.585	32.40	142.014	10.195	29.70	127.855	9.015
	33.60	152.421	10.383	33.60	145.336	11.048	30.80	130.966	9.736
	34.80	155.820	11.237	34.80	148.543	11.966	31.90	133.980	10.505

B FACTORS FOR OXYGEN

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
224.00	190.002		222.00	178.834		220.00	168.146	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.10	6.203	0.140	1.10	5.937	0.140	1.00	5.168	0.134
2.20	12.259	0.283	2.20	11.731	0.297	2.00	10.220	0.283
3.30	18.169	0.442	3.30	17.384	0.464	3.00	15.158	0.441
4.40	23.937	0.605	4.40	22.897	0.636	4.00	19.984	0.602
5.50	29.564	0.786	5.50	28.273	0.826	5.00	24.699	0.780
6.60	35.053	0.972	6.60	33.514	1.021	6.00	29.305	0.961
7.70	40.404	1.177	7.70	38.622	1.238	7.00	33.802	1.161
8.80	45.621	1.395	8.80	43.599	1.468	8.00	38.194	1.374
9.90	50.705	1.620	9.90	48.447	1.713	9.00	42.480	1.590
11.00	55.658	1.867	11.00	53.168	1.966	10.00	46.663	1.829
12.10	60.483	2.130	12.10	57.764	2.244	11.00	50.744	2.081
13.20	65.181	2.410	13.20	62.236	2.540	12.00	54.725	2.349
14.30	69.754	2.699	14.30	66.588	2.855	13.00	58.607	2.633
15.40	74.204	3.015	15.40	70.820	3.191	14.00	62.391	2.933
16.50	78.534	3.352	16.50	74.935	3.548	15.00	66.079	3.252
17.60	82.745	3.711	17.60	78.935	3.929	16.00	69.673	3.589
18.70	86.839	4.091	18.70	82.822	4.333	17.00	73.174	3.947
19.80	90.818	4.497	19.80	86.597	4.777	18.00	76.583	4.326
20.90	94.684	4.939	20.90	90.263	5.236	19.00	79.902	4.727
22.00	98.439	5.397	22.00	93.821	5.726	20.00	83.133	5.153
23.10	102.085	5.887	23.10	97.273	6.260	21.00	86.276	5.616
24.20	105.624	6.407	24.20	100.622	6.816	22.00	89.333	6.095
25.30	109.058	6.974	25.30	103.869	7.421	23.00	92.306	6.601
26.40	112.388	7.561	26.40	107.016	8.053	24.00	95.195	7.154
27.50	115.617	8.204	27.50	110.065	8.741	25.00	98.004	7.723
28.60	118.746	8.886	28.60	113.018	9.474	26.00	100.731	8.343
29.70	121.777	9.616	29.70	115.877	10.256	27.00	103.380	8.999
30.80	124.713	10.376	30.80	118.643	11.091	28.00	105.952	9.697
31.90	127.554	11.203	31.90	121.318	11.983	29.00	108.448	10.421

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
218.00	157.926		216.00	148.162		214.00	138.841	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.00	4.938	0.148	1.00	4.715	0.155	0.90	4.052	0.147
2.00	9.764	0.297	2.00	9.321	0.313	1.80	8.019	0.303
3.00	14.479	0.464	3.00	13.818	0.488	2.70	11.900	0.460
4.00	19.085	0.633	4.00	18.210	0.675	3.60	15.697	0.635
5.00	23.582	0.821	5.00	22.496	0.865	4.50	19.411	0.819
6.00	27.974	1.020	6.00	26.679	1.075	5.40	23.043	1.005
7.00	32.260	1.223	7.00	30.760	1.299	6.30	26.595	1.210
8.00	36.443	1.448	8.00	34.741	1.536	7.20	30.066	1.428
9.00	40.524	1.685	9.00	38.623	1.788	8.10	33.459	1.657
10.00	44.505	1.938	10.00	42.407	2.056	9.00	36.774	1.900
11.00	48.387	2.206	11.00	46.095	2.340	9.90	40.013	2.145
12.00	52.171	2.490	12.00	49.689	2.642	10.80	43.176	2.416
13.00	55.859	2.791	13.00	53.190	2.962	11.70	46.265	2.701
14.00	59.453	3.110	14.00	56.599	3.302	12.60	49.281	3.014
15.00	62.954	3.449	15.00	59.918	3.663	13.50	52.224	3.332
16.00	66.363	3.808	16.00	63.149	4.046	14.40	55.095	3.668
17.00	69.682	4.189	17.00	66.292	4.464	15.30	57.897	4.024
18.00	72.913	4.593	18.00	69.349	4.896	16.20	60.629	4.399
19.00	76.056	5.033	19.00	72.322	5.353	17.10	63.293	4.794
20.00	79.113	5.489	20.00	75.211	5.855	18.00	65.890	5.226
21.00	82.086	5.970	21.00	78.020	6.371	18.90	68.421	5.667
22.00	84.975	6.497	22.00	80.747	6.935	19.80	70.887	6.149
23.00	87.784	7.040	23.00	83.396	7.532	20.70	73.289	6.643
24.00	90.511	7.631	24.00	85.968	8.169	21.60	75.628	7.179
25.00	93.160	8.257	25.00	88.464	8.828	22.50	77.904	7.729
26.00	95.732	8.924	26.00	90.885	9.545	23.40	80.120	8.329
27.00	98.228	9.616	27.00	93.232	10.307	24.30	82.276	8.962
28.00	100.649	10.366	28.00	95.508	11.117	25.20	84.372	9.632
29.00	102.996	11.163	29.00	97.713	11.999	26.10	86.411	10.340

B FACTORS FOR OXYGEN

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
212.00	129.952		210.00	121.483		208.00	113.421	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.90	3.862	0.147	0.90	3.678	0.164	0.90	3.498	0.173
1.80	7.641	0.311	1.80	7.274	0.338	1.80	6.917	0.347
2.70	11.336	0.485	2.70	10.789	0.513	2.70	10.258	0.542
3.60	14.951	0.661	3.60	14.226	0.707	3.60	13.522	0.748
4.50	18.484	0.855	4.50	17.584	0.913	4.50	16.710	0.966
5.40	21.938	1.061	5.40	20.865	1.132	5.40	19.824	1.198
6.30	25.314	1.278	6.30	24.070	1.363	6.30	22.864	1.443
7.20	28.612	1.509	7.20	27.200	1.607	7.20	25.831	1.703
8.10	31.834	1.752	8.10	30.256	1.866	8.10	28.726	1.977
9.00	34.980	2.009	9.00	33.239	2.140	9.00	31.551	2.280
9.90	38.053	2.281	9.90	36.151	2.430	9.90	34.306	2.590
10.80	41.052	2.568	10.80	38.991	2.736	10.80	36.993	2.917
11.70	43.979	2.873	11.70	41.762	3.060	11.70	39.612	3.263
12.60	46.835	3.193	12.60	44.464	3.415	12.60	42.165	3.642
13.50	49.621	3.532	13.50	47.098	3.778	13.50	44.652	4.030
14.40	52.338	3.891	14.40	49.665	4.162	14.40	47.075	4.456
15.30	54.987	4.283	15.30	52.167	4.582	15.30	49.435	4.891
16.20	57.570	4.684	16.20	54.605	5.011	16.20	51.732	5.368
17.10	60.086	5.122	17.10	56.978	5.481	17.10	53.968	5.872
18.00	62.537	5.570	18.00	59.289	5.977	18.00	56.144	6.390
18.90	64.925	6.058	18.90	61.539	6.487	18.90	58.260	6.956
19.80	67.250	6.560	19.80	63.727	7.044	19.80	60.318	7.555
20.70	69.513	7.105	20.70	65.857	7.632	20.70	62.318	8.190
21.60	71.715	7.682	21.60	67.927	8.255	21.60	64.262	8.861
22.50	73.858	8.275	22.50	69.940	8.895	22.50	66.150	9.575
23.40	75.941	8.921	23.40	71.897	9.593	23.40	67.985	10.330
24.30	77.967	9.604	24.30	73.798	10.353	24.30	69.765	11.130
25.20	79.936	10.327	25.20	75.644	11.135	25.20	71.494	12.002
26.10	81.849	11.091	26.10	77.436	11.965	26.10	73.170	12.904

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
206.00	105.755		204.00	98.473		202.00	91.563	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.80	2.958	0.154	0.80	2.808	0.163	0.80	2.663	0.183
1.60	5.856	0.325	1.60	5.558	0.345	1.60	5.268	0.376
2.40	8.694	0.507	2.40	8.249	0.537	2.40	7.817	0.581
3.20	11.472	0.698	3.20	10.883	0.739	3.20	10.311	0.796
4.00	14.192	0.899	4.00	13.460	0.953	4.00	12.750	1.024
4.80	16.855	1.111	4.80	15.981	1.178	4.80	15.135	1.264
5.60	19.460	1.334	5.60	18.447	1.416	5.60	17.466	1.517
6.40	22.009	1.570	6.40	20.859	1.666	6.40	19.745	1.785
7.20	24.503	1.818	7.20	23.217	1.943	7.20	21.973	2.060
8.00	26.942	2.079	8.00	25.522	2.222	8.00	24.148	2.379
8.80	29.327	2.354	8.80	27.775	2.516	8.80	26.274	2.693
9.60	31.658	2.643	9.60	29.977	2.825	9.60	28.350	3.039
10.40	33.937	2.948	10.40	32.127	3.166	10.40	30.376	3.389
11.20	36.165	3.282	11.20	34.228	3.510	11.20	32.355	3.773
12.00	38.340	3.621	12.00	36.279	3.887	12.00	34.286	4.163
12.80	40.466	3.977	12.80	38.282	4.270	12.80	36.170	4.591
13.60	42.542	4.367	13.60	40.236	4.689	13.60	38.007	5.043
14.40	44.568	4.762	14.40	42.143	5.114	14.40	39.799	5.500
15.20	46.547	5.194	15.20	44.004	5.579	15.20	41.547	6.003
16.00	48.478	5.633	16.00	45.819	6.051	16.00	43.250	6.531
16.80	50.362	6.112	16.80	47.589	6.568	16.80	44.910	7.089
17.60	52.199	6.616	17.60	49.314	7.111	17.60	46.527	7.678
18.40	53.991	7.128	18.40	50.995	7.686	18.40	48.102	8.300
19.20	55.739	7.688	19.20	52.634	8.291	19.20	49.636	8.956
20.00	57.442	8.277	20.00	54.230	8.929	20.00	51.129	9.649
20.80	59.102	8.897	20.80	55.784	9.602	20.80	52.581	10.382
21.60	60.719	9.550	21.60	57.297	10.312	21.60	53.995	11.153
22.40	62.294	10.239	22.40	58.770	11.060	22.40	55.370	11.970
23.20	63.828	10.966	23.20	60.203	11.851	23.20	56.707	12.856

B FACTORS FOR OXYGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
200.00	85.013		199.00	81.870		198.00	78.813	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.70	2.209	0.171	0.70	2.149	0.164	0.70	2.090	0.181
1.40	4.376	0.350	1.40	4.256	0.349	1.40	4.139	0.372
2.10	6.501	0.538	2.10	6.322	0.543	2.10	6.147	0.572
2.80	8.585	0.736	2.80	8.348	0.759	2.80	8.115	0.783
3.50	10.628	0.943	3.50	10.334	0.972	3.50	10.044	1.003
4.20	12.631	1.161	4.20	12.280	1.197	4.20	11.935	1.235
4.90	14.593	1.389	4.90	14.186	1.433	4.90	13.786	1.493
5.60	16.517	1.628	5.60	16.054	1.680	5.60	15.600	1.749
6.30	18.401	1.893	6.30	17.884	1.939	6.30	17.376	2.018
7.00	20.247	2.156	7.00	19.676	2.226	7.00	19.115	2.300
7.70	22.056	2.433	7.70	21.431	2.512	7.70	20.817	2.611
8.40	23.826	2.723	8.40	23.149	2.812	8.40	22.483	2.922
9.10	25.560	3.042	9.10	24.831	3.127	9.10	24.114	3.265
9.80	27.257	3.362	9.80	26.477	3.473	9.80	25.710	3.608
10.50	28.919	3.696	10.50	28.087	3.820	10.50	27.270	3.968
11.20	30.544	4.064	11.20	29.663	4.201	11.20	28.797	4.364
11.90	32.135	4.432	11.90	31.204	4.583	11.90	30.290	4.779
12.60	33.690	4.836	12.60	32.711	5.001	12.60	31.749	5.196
13.30	35.212	5.241	13.30	34.185	5.442	13.30	33.176	5.652
14.00	36.700	5.684	14.00	35.625	5.883	14.00	34.570	6.132
14.70	38.155	6.130	14.70	37.033	6.367	14.70	35.932	6.615
15.40	39.577	6.618	15.40	38.409	6.872	15.40	37.263	7.144
16.10	40.966	7.129	16.10	39.753	7.384	16.10	38.562	7.697
16.80	42.324	7.666	16.80	41.066	7.942	16.80	39.831	8.279
17.50	43.650	8.208	17.50	42.348	8.529	17.50	41.070	8.890
18.20	44.946	8.796	18.20	43.600	9.142	18.20	42.280	9.533
18.90	46.210	9.416	18.90	44.822	9.787	18.90	43.460	10.206
19.60	47.445	10.065	19.60	46.015	10.466	19.60	44.611	10.914
20.30	48.650	10.748	20.30	47.178	11.177	20.30	45.734	11.657

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
197.00	75.840		196.00	72.951		195.00	70.142	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.70	2.031	0.187	0.70	1.975	0.193	0.70	1.917	0.212
1.40	4.022	0.384	1.40	3.909	0.396	1.40	3.796	0.422
2.10	5.974	0.603	2.10	5.805	0.609	2.10	5.637	0.643
2.80	7.886	0.821	2.80	7.662	0.833	2.80	7.440	0.875
3.50	9.760	1.049	3.50	9.481	1.083	3.50	9.205	1.119
4.20	11.595	1.289	4.20	11.262	1.331	4.20	10.934	1.391
4.90	13.392	1.542	4.90	13.007	1.592	4.90	12.626	1.661
5.60	15.152	1.821	5.60	14.714	1.881	5.60	14.282	1.944
6.30	16.876	2.099	6.30	16.386	2.170	6.30	15.902	2.259
7.00	18.563	2.392	7.00	18.021	2.472	7.00	17.488	2.573
7.70	20.214	2.715	7.70	19.622	2.807	7.70	19.039	2.921
8.40	21.829	3.038	8.40	21.187	3.141	8.40	20.556	3.268
9.10	23.410	3.394	9.10	22.719	3.509	9.10	22.039	3.651
9.80	24.956	3.750	9.80	24.216	3.879	9.80	23.489	4.053
10.50	26.468	4.141	10.50	25.680	4.286	10.50	24.906	4.457
11.20	27.946	4.534	11.20	27.112	4.713	11.20	26.291	4.901
11.90	29.391	4.965	11.90	28.510	5.142	11.90	27.644	5.368
12.60	30.804	5.418	12.60	29.877	5.613	12.60	28.966	5.859
13.30	32.184	5.874	13.30	31.212	6.106	13.30	30.257	6.374
14.00	33.533	6.374	14.00	32.517	6.626	14.00	31.518	6.894
14.70	34.850	6.898	14.70	33.790	7.173	14.70	32.748	7.462
15.40	36.137	7.448	15.40	35.033	7.746	15.40	33.949	8.062
16.10	37.393	8.027	16.10	36.247	8.350	16.10	35.121	8.690
16.80	38.619	8.633	16.80	37.431	8.982	16.80	36.264	9.376
17.50	39.816	9.273	17.50	38.586	9.648	17.50	37.379	10.072
18.20	40.984	9.943	18.20	39.713	10.348	18.20	38.466	10.804
18.90	42.123	10.647	18.90	40.812	11.083	18.90	39.526	11.574
19.60	43.234	11.387	19.60	41.884	11.857	19.60	40.559	12.382
20.30	44.317	12.165	20.30	42.928	12.668	20.30	41.565	13.264

B FACTORS FOR OXYGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
194.00	67.415		193.00	64.766		192.00	62.194	
	DTV (R)	DPV (PSIA)	B		DTV (R)	DPV (PSIA)	B	
	0.00	0.000	0.000		0.00	0.000	0.000	
	0.70	1.863	0.206		0.60	1.553	0.183	
	1.40	3.687	0.422		1.20	3.077	0.375	
	2.10	5.474	0.664		1.80	4.575	0.575	
	2.80	7.224	0.904		2.40	6.045	0.784	
	3.50	8.936	1.156		3.00	7.489	1.002	
	4.20	10.613	1.437		3.60	8.906	1.231	
	4.90	12.254	1.716		4.20	10.297	1.485	
	5.60	13.859	2.027		4.80	11.663	1.735	
	6.30	15.430	2.336		5.40	13.002	1.995	
	7.00	16.966	2.679		6.00	14.317	2.265	
	7.70	18.468	3.022		6.60	15.607	2.569	
	8.40	19.937	3.400		7.20	16.872	2.867	
	9.10	21.373	3.779		7.80	18.113	3.196	
	9.80	22.777	4.197		8.40	19.330	3.520	
	10.50	24.148	4.637		9.00	20.523	3.879	
	11.20	25.488	5.098		9.60	21.692	4.233	
	11.90	26.796	5.563		10.20	22.839	4.623	
	12.60	28.074	6.074		10.80	23.962	5.010	
	13.30	29.322	6.609		11.40	25.063	5.435	
	14.00	30.539	7.173		12.00	26.142	5.858	
	14.70	31.728	7.767		12.60	27.198	6.321	
	15.40	32.887	8.391		13.20	28.233	6.806	
	16.10	34.018	9.047		13.80	29.246	7.311	
	16.80	35.121	9.764		14.40	30.238	7.815	
	17.50	36.196	10.491		15.00	31.209	8.366	
	18.20	37.245	11.254		15.60	32.160	8.942	
	18.90	38.266	12.060		16.20	33.090	9.544	
	19.60	39.261	12.937		16.80	34.000	10.173	
	20.30	40.231	13.829		17.40	34.890	10.828	

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
191.00	59.698		190.00	57.277		189.00	54.930	
	0.00	0.000	0.000		0.00	0.000	0.000	
	0.60	1.461	0.211		0.60	1.417	0.202	
	1.20	2.896	0.416		1.20	2.808	0.430	
	1.80	4.305	0.630		1.80	4.174	0.651	
	2.40	5.687	0.854		2.40	5.513	0.883	
	3.00	7.044	1.088		3.00	6.828	1.143	
	3.60	8.375	1.350		3.60	8.118	1.397	
	4.20	9.682	1.607		4.20	9.383	1.663	
	4.80	10.963	1.875		4.80	10.624	1.959	
	5.40	12.220	2.174		5.40	11.841	2.250	
	6.00	13.453	2.467		6.00	13.034	2.574	
	6.60	14.662	2.792		6.60	14.203	2.893	
	7.20	15.847	3.114		7.20	15.350	3.246	
	7.80	17.009	3.469		7.80	16.473	3.596	
	8.40	18.148	3.821		8.40	17.574	3.981	
	9.00	19.264	4.208		9.00	18.653	4.364	
	9.60	20.357	4.592		9.60	19.709	4.785	
	10.20	21.428	5.015		10.20	20.744	5.226	
	10.80	22.477	5.457		10.80	21.757	5.687	
	11.40	23.505	5.897		11.40	22.749	6.145	
	12.00	24.511	6.379		12.00	23.720	6.648	
	12.60	25.496	6.884		12.60	24.671	7.175	
	13.20	26.460	7.411		13.20	25.601	7.726	
	13.80	27.404	7.963		13.80	26.511	8.302	
	14.40	28.327	8.539		14.40	27.401	8.903	
	15.00	29.231	9.115		15.00	28.272	9.534	
	15.60	30.115	9.743		15.60	29.123	10.194	
	16.20	30.979	10.402		16.20	29.956	10.882	
	16.80	31.824	11.119		16.80	30.769	11.602	
	17.40	32.650	11.841		17.40	31.565	12.359	

B FACTORS FOR OXYGEN

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
188.00	52.654		187.00	50.449		186.00	48.313	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.60	1.331	0.233	0.50	1.077	0.189	0.50	1.042	0.195
1.20	2.638	0.460	1.00	2.136	0.385	1.00	2.066	0.398
1.80	3.919	0.697	1.50	3.178	0.588	1.50	3.077	0.609
2.40	5.176	0.964	2.00	4.204	0.800	2.00	4.070	0.848
3.00	6.409	1.225	2.50	5.213	1.020	2.50	5.046	1.077
3.60	7.618	1.516	3.00	6.206	1.268	3.00	6.006	1.314
4.20	8.803	1.803	3.50	7.182	1.507	3.50	6.950	1.562
4.80	9.965	2.122	4.00	8.142	1.754	4.00	7.879	1.839
5.40	11.104	2.437	4.50	9.086	2.012	4.50	8.791	2.107
6.00	12.220	2.786	5.00	10.015	2.300	5.00	9.689	2.385
6.60	13.313	3.131	5.50	10.927	2.578	5.50	10.570	2.696
7.20	14.384	3.512	6.00	11.825	2.867	6.00	11.437	2.997
7.80	15.433	3.912	6.50	12.706	3.189	6.50	12.289	3.333
8.40	16.461	4.309	7.00	13.573	3.502	7.00	13.126	3.659
9.00	17.467	4.746	7.50	14.425	3.850	7.50	13.948	4.021
9.60	18.452	5.204	8.00	15.262	4.188	8.00	14.756	4.373
10.20	19.416	5.683	8.50	16.084	4.562	8.50	15.550	4.764
10.80	20.360	6.185	9.00	16.892	4.928	9.00	16.329	5.145
11.40	21.283	6.710	9.50	17.686	5.332	9.50	17.094	5.567
12.00	22.187	7.233	10.00	18.465	5.727	10.00	17.846	5.980
12.60	23.071	7.806	10.50	19.230	6.163	10.50	18.584	6.434
13.20	23.935	8.408	11.00	19.982	6.589	11.00	19.308	6.907
13.80	24.780	9.065	11.50	20.720	7.058	11.50	20.019	7.400
14.40	25.606	9.726	12.00	21.444	7.548	12.00	20.716	7.882
15.00	26.414	10.416	12.50	22.155	8.056	12.50	21.401	8.414
15.60	27.203	11.138	13.00	22.852	8.554	13.00	22.073	8.965
16.20	27.974	11.895	13.50	23.537	9.102	13.50	22.731	9.539
16.80	28.727	12.690	14.00	24.209	9.671	14.00	23.378	10.105
17.40	29.463	13.551	14.50	24.867	10.262	14.50	24.012	10.725
185.00	46.245		184.00	44.243		183.00	42.307	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.50	1.009	0.202	0.50	0.976	0.209	0.50	0.944	0.217
1.00	2.002	0.431	1.00	1.936	0.427	1.00	1.873	0.463
1.50	2.978	0.651	1.50	2.880	0.654	1.50	2.785	0.699
2.00	3.938	0.879	2.00	3.809	0.911	2.00	3.683	0.945
2.50	4.882	1.116	2.50	4.721	1.157	2.50	4.564	1.222
3.00	5.811	1.383	3.00	5.619	1.413	3.00	5.431	1.488
3.50	6.723	1.640	3.50	6.500	1.701	3.50	6.283	1.788
4.00	7.621	1.908	4.00	7.367	1.979	4.00	7.120	2.078
4.50	8.502	2.207	4.50	8.219	2.291	4.50	7.942	2.402
5.00	9.369	2.497	5.00	9.056	2.592	5.00	8.750	2.716
5.50	10.221	2.821	5.50	9.878	2.929	5.50	9.544	3.067
6.00	11.058	3.135	6.00	10.686	3.255	6.00	10.323	3.407
6.50	11.880	3.484	6.50	11.480	3.619	6.50	11.088	3.787
7.00	12.688	3.824	7.00	12.259	3.973	7.00	11.840	4.156
7.50	13.482	4.201	7.50	13.024	4.366	7.50	12.578	4.566
8.00	14.261	4.569	8.00	13.776	4.749	8.00	13.302	4.994
8.50	15.026	4.977	8.50	14.514	5.174	8.50	14.013	5.439
9.00	15.778	5.375	9.00	15.238	5.616	9.00	14.710	5.873
9.50	16.516	5.815	9.50	15.949	6.077	9.50	15.395	6.355
10.00	17.240	6.273	10.00	16.646	6.526	10.00	16.067	6.855
10.50	17.951	6.750	10.50	17.331	7.024	10.50	16.725	7.375
11.00	18.648	7.216	11.00	18.003	7.541	11.00	17.372	7.887
11.50	19.333	7.731	11.50	18.661	8.079	11.50	18.006	8.451
12.00	20.005	8.266	12.00	19.308	8.609	12.00	18.627	9.037
12.50	20.663	8.822	12.50	19.942	9.191	12.50	19.237	9.648
13.00	21.310	9.370	13.00	20.563	9.796	13.00	19.834	10.283
13.50	21.944	9.971	13.50	21.173	10.426	13.50	20.420	10.945
14.00	22.565	10.596	14.00	21.770	11.081	14.00	20.994	11.634
14.50	23.175	11.247	14.50	22.356	11.764	14.50	21.556	12.352

B FACTORS FOR OXYGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
182.00	40.434		181.00	38.624		180.00	36.876	
	DTV (R)	DPV (PSIA)	B		DTV (R)	DPV (PSIA)	B	
	0.00	0.000	0.000		0.00	0.000	0.000	
	0.50	0.912	0.225		0.50	0.881	0.255	
	1.00	1.810	0.460		1.00	1.748	0.499	
	1.50	2.691	0.725		1.50	2.600	0.775	
	2.00	3.558	0.980		2.00	3.437	1.040	
	2.50	4.410	1.268		2.50	4.259	1.340	
	3.00	5.247	1.545		3.00	5.067	1.629	
	3.50	6.069	1.857		3.50	5.861	1.953	
	4.00	6.877	2.158		4.00	6.640	2.267	
	4.50	7.671	2.495		4.50	7.405	2.619	
	5.00	8.450	2.822		5.00	8.157	2.960	
	5.50	9.215	3.187		5.50	8.895	3.341	
	6.00	9.967	3.542		6.00	9.619	3.738	
	6.50	10.705	3.937		6.50	10.330	4.152	
	7.00	11.429	4.349		7.00	11.027	4.554	
	7.50	12.140	4.778		7.50	11.712	5.003	
	8.00	12.837	5.196		8.00	12.384	5.469	
	8.50	13.522	5.661		8.50	13.042	5.955	
	9.00	14.194	6.143		9.00	13.689	6.431	
	9.50	14.852	6.646		9.50	14.323	6.958	
	10.00	15.499	7.140		10.00	14.944	7.506	
	10.50	16.133	7.684		10.50	15.554	8.077	
	11.00	16.754	8.251		11.00	16.151	8.672	
	11.50	17.364	8.841		11.50	16.737	9.292	
	12.00	17.961	9.456		12.00	17.311	9.939	
	12.50	18.547	10.097		12.50	17.873	10.612	
	13.00	19.121	10.764		13.00	18.424	11.313	
	13.50	19.683	11.459		13.50	18.964	12.042	
	14.00	20.234	12.182		14.00	19.493	12.804	
	14.50	20.774	12.934		14.50	20.010	13.635	

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
179.00	35.187		178.00	33.557		177.00	31.984	
	DTV (R)	DPV (PSIA)	B		DTV (R)	DPV (PSIA)	B	
	0.00	0.000	0.000		0.00	0.000	0.000	
	0.40	0.659	0.205		0.40	0.636	0.213	
	0.80	1.309	0.440		0.80	1.263	0.458	
	1.20	1.949	0.660		1.20	1.881	0.686	
	1.60	2.581	0.888		1.60	2.490	0.923	
	2.00	3.203	1.123		2.00	3.090	1.167	
	2.40	3.816	1.391		2.40	3.681	1.446	
	2.80	4.421	1.643		2.80	4.264	1.709	
	3.20	5.017	1.903		3.20	4.838	1.980	
	3.60	5.604	2.172		3.60	5.403	2.288	
	4.00	6.182	2.478		4.00	5.960	2.578	
	4.40	6.752	2.766		4.40	6.509	2.907	
	4.80	7.313	3.092		4.80	7.049	3.219	
	5.20	7.866	3.401		5.20	7.582	3.541	
	5.60	8.410	3.720		5.60	8.106	3.904	
	6.00	8.947	4.079		6.00	8.622	4.249	
	6.40	9.475	4.421		6.40	9.130	4.636	
	6.80	9.995	4.803		6.80	9.630	5.006	
	7.20	10.507	5.169		7.20	10.122	5.420	
	7.60	11.011	5.578		7.60	10.607	5.816	
	8.00	11.507	5.969		8.00	11.084	6.258	
	8.40	11.996	6.406		8.40	11.553	6.715	
	8.80	12.476	6.825		8.80	12.015	7.155	
	9.20	12.950	7.291		9.20	12.470	7.644	
	9.60	13.415	7.739		9.60	12.917	8.150	
	10.00	13.874	8.236		10.00	13.357	8.636	
	10.40	14.324	8.751		10.40	13.790	9.177	
	10.80	14.768	9.247		10.80	14.215	9.736	
	11.20	15.204	9.797		11.20	14.634	10.273	
	11.60	15.633	10.365		11.60	15.046	10.871	

B FACTORS FOR OXYGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
176.00	30.467		175.00	29.005		174.00	27.597	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.40	0.591	0.256	0.40	0.570	0.240	0.40	0.549	0.277
0.80	1.174	0.495	0.80	1.131	0.515	0.80	1.089	0.536
1.20	1.748	0.742	1.20	1.684	0.772	1.20	1.622	0.805
1.60	2.313	1.026	1.60	2.228	1.039	1.60	2.146	1.112
2.00	2.870	1.291	2.00	2.765	1.344	2.00	2.662	1.401
2.40	3.419	1.594	2.40	3.293	1.631	2.40	3.170	1.730
2.80	3.959	1.879	2.80	3.813	1.958	2.80	3.670	2.041
3.20	4.492	2.175	3.20	4.325	2.265	3.20	4.162	2.394
3.60	5.016	2.510	3.60	4.829	2.615	3.60	4.647	2.727
4.00	5.532	2.827	4.00	5.325	2.946	4.00	5.124	3.105
4.40	6.040	3.186	4.40	5.814	3.320	4.40	5.593	3.497
4.80	6.540	3.526	4.80	6.294	3.676	4.80	6.055	3.870
5.20	7.032	3.909	5.20	6.768	4.077	5.20	6.510	4.290
5.60	7.517	4.274	5.60	7.233	4.458	5.60	6.957	4.725
6.00	7.994	4.684	6.00	7.692	4.887	6.00	7.397	5.140
6.40	8.463	5.109	6.40	8.142	5.332	6.40	7.830	5.606
6.80	8.925	5.515	6.80	8.586	5.756	6.80	8.255	6.089
7.20	9.380	5.970	7.20	9.022	6.232	7.20	8.674	6.550
7.60	9.827	6.440	7.60	9.451	6.725	7.60	9.086	7.067
8.00	10.267	6.891	8.00	9.874	7.197	8.00	9.490	7.603
8.40	10.700	7.394	8.40	10.289	7.725	8.40	9.888	8.159
8.80	11.125	7.915	8.80	10.697	8.272	8.80	10.280	8.691
9.20	11.544	8.415	9.20	11.098	8.836	9.20	10.664	9.287
9.60	11.956	8.973	9.60	11.493	9.381	9.60	11.042	9.902
10.00	12.360	9.550	10.00	11.881	9.988	10.00	11.414	10.541
10.40	12.758	10.148	10.40	12.262	10.614	10.40	11.779	11.201
10.80	13.150	10.723	10.80	12.637	11.264	10.80	12.137	11.887
11.20	13.534	11.363	11.20	13.005	11.936	11.20	12.490	12.595
11.60	13.912	12.023	11.60	13.367	12.631	11.60	12.836	13.330

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
173.00	26.240		172.00	24.935		171.00	23.680	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.40	0.528	0.260	0.40	0.508	0.301	0.40	0.489	0.314
0.80	1.048	0.558	0.80	1.008	0.582	0.80	0.969	0.607
1.20	1.560	0.838	1.20	1.500	0.905	1.20	1.443	0.944
1.60	2.064	1.159	1.60	1.985	1.208	1.60	1.908	1.261
2.00	2.560	1.460	2.00	2.462	1.555	2.00	2.367	1.623
2.40	3.049	1.803	2.40	2.931	1.914	2.40	2.817	1.998
2.80	3.529	2.128	2.80	3.393	2.254	2.80	3.261	2.353
3.20	4.003	2.496	3.20	3.848	2.640	3.20	3.697	2.756
3.60	4.468	2.845	3.60	4.295	3.040	3.60	4.126	3.175
4.00	4.927	3.240	4.00	4.735	3.420	4.00	4.549	3.572
4.40	5.377	3.650	4.40	5.168	3.849	4.40	4.964	4.022
4.80	5.821	4.039	4.80	5.593	4.295	4.80	5.372	4.489
5.20	6.257	4.479	5.20	6.012	4.718	5.20	5.773	4.972
5.60	6.686	4.934	5.60	6.424	5.196	5.60	6.168	5.433
6.00	7.109	5.369	6.00	6.828	5.691	6.00	6.556	5.953
6.40	7.524	5.857	6.40	7.226	6.205	6.40	6.937	6.491
6.80	7.932	6.363	6.80	7.618	6.696	6.80	7.312	7.051
7.20	8.333	6.887	7.20	8.002	7.247	7.20	7.680	7.629
7.60	8.728	7.390	7.60	8.380	7.818	7.60	8.042	8.230
8.00	9.116	7.953	8.00	8.752	8.411	8.00	8.397	8.854
8.40	9.497	8.534	8.40	9.117	9.024	8.40	8.747	9.499
8.80	9.872	9.139	8.80	9.475	9.661	8.80	9.090	10.169
9.20	10.240	9.764	9.20	9.828	10.320	9.20	9.427	10.866
9.60	10.602	10.411	9.60	10.174	11.003	9.60	9.758	11.586
10.00	10.957	11.084	10.00	10.514	11.712	10.00	10.083	12.333
10.40	11.307	11.779	10.40	10.848	12.449	10.40	10.402	13.109
10.80	11.650	12.500	10.80	11.176	13.210	10.80	10.715	13.913
11.20	11.987	13.250	11.20	11.498	14.000	11.20	11.023	14.747
11.60	12.318	14.024	11.60	11.814	14.819	11.60	11.325	15.610

B FACTORS FOR OXYGEN

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
170.00	22.473		169.00	21.313		168.00	20.200	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.30	0.353	0.228	0.30	0.338	0.238	0.30	0.325	0.248
0.60	0.701	0.462	0.60	0.673	0.517	0.60	0.646	0.540
0.90	1.046	0.737	0.90	1.004	0.769	0.90	0.964	0.804
1.20	1.386	0.985	1.20	1.330	1.029	1.20	1.277	1.075
1.50	1.722	1.241	1.50	1.653	1.296	1.50	1.586	1.392
1.80	2.054	1.503	1.80	1.971	1.607	1.80	1.892	1.680
2.10	2.382	1.809	2.10	2.286	1.890	2.10	2.194	1.976
2.40	2.706	2.087	2.40	2.597	2.181	2.40	2.491	2.320
2.70	3.026	2.373	2.70	2.903	2.480	2.70	2.785	2.634
3.00	3.342	2.667	3.00	3.206	2.827	3.00	3.076	2.957
3.30	3.654	3.007	3.30	3.506	3.144	3.30	3.362	3.330
3.60	3.962	3.318	3.60	3.801	3.470	3.60	3.645	3.673
3.90	4.266	3.638	3.90	4.092	3.846	3.90	3.924	4.026
4.20	4.566	4.007	4.20	4.380	4.192	4.20	4.200	4.431
4.50	4.863	4.346	4.50	4.664	4.589	4.50	4.472	4.805
4.80	5.156	4.694	4.80	4.945	4.955	4.80	4.740	5.234
5.10	5.445	5.093	5.10	5.221	5.331	5.10	5.005	5.629
5.40	5.730	5.462	5.40	5.495	5.762	5.40	5.267	6.082
5.70	6.012	5.841	5.70	5.764	6.160	5.70	5.525	6.502
6.00	6.290	6.274	6.00	6.030	6.616	6.00	5.779	6.980
6.30	6.564	6.675	6.30	6.293	7.038	6.30	6.030	7.425
6.60	6.835	7.130	6.60	6.552	7.517	6.60	6.278	7.931
6.90	7.102	7.555	6.90	6.808	7.965	6.90	6.522	8.402
7.20	7.366	8.037	7.20	7.060	8.473	7.20	6.763	8.937
7.50	7.626	8.487	7.50	7.308	8.945	7.50	7.001	9.435
7.80	7.883	8.994	7.80	7.554	9.482	7.80	7.235	10.001
8.10	8.136	9.470	8.10	7.796	9.982	8.10	7.466	10.529
8.40	8.386	10.007	8.40	8.035	10.549	8.40	7.694	11.126
8.70	8.632	10.509	8.70	8.270	11.078	8.70	7.919	11.687

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
167.00	19.131		166.00	18.107		165.00	17.124	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.30	0.312	0.297	0.30	0.300	0.271	0.30	0.286	0.325
0.60	0.620	0.565	0.60	0.595	0.551	0.60	0.569	0.618
0.90	0.924	0.840	0.90	0.886	0.879	0.90	0.848	0.920
1.20	1.224	1.163	1.20	1.174	1.176	1.20	1.124	1.274
1.50	1.521	1.456	1.50	1.458	1.523	1.50	1.396	1.595
1.80	1.814	1.757	1.80	1.739	1.839	1.80	1.664	1.970
2.10	2.103	2.108	2.10	2.015	2.163	2.10	1.929	2.311
2.40	2.388	2.427	2.40	2.289	2.541	2.40	2.191	2.708
2.70	2.670	2.757	2.70	2.558	2.886	2.70	2.449	3.071
3.00	2.948	3.138	3.00	2.824	3.286	3.00	2.703	3.491
3.30	3.222	3.487	3.30	3.087	3.653	3.30	2.954	3.877
3.60	3.493	3.890	3.60	3.346	4.076	3.60	3.202	4.322
3.90	3.760	4.261	3.90	3.602	4.465	3.90	3.446	4.731
4.20	4.024	4.687	4.20	3.854	4.913	4.20	3.687	5.203
4.50	4.284	5.080	4.50	4.102	5.325	4.50	3.925	5.638
4.80	4.541	5.531	4.80	4.348	5.800	4.80	4.159	6.138
5.10	4.794	5.948	5.10	4.590	6.237	5.10	4.390	6.599
5.40	5.044	6.425	5.40	4.829	6.739	5.40	4.618	7.127
5.70	5.290	6.866	5.70	5.064	7.204	5.70	4.843	7.619
6.00	5.534	7.371	6.00	5.297	7.735	6.00	5.065	8.178
6.30	5.774	7.839	6.30	5.526	8.228	6.30	5.283	8.754
6.60	6.010	8.373	6.60	5.752	8.789	6.60	5.499	9.293
6.90	6.244	8.869	6.90	5.974	9.314	6.90	5.711	9.903
7.20	6.474	9.434	7.20	6.194	9.907	7.20	5.921	10.531
7.50	6.701	9.960	7.50	6.410	10.518	7.50	6.127	11.119
7.80	6.924	10.556	7.80	6.624	11.090	7.80	6.331	11.784
8.10	7.145	11.171	8.10	6.834	11.739	8.10	6.531	12.470
8.40	7.363	11.745	8.40	7.042	12.405	8.40	6.729	13.113
8.70	7.577	12.394	8.70	7.246	13.031	8.70	6.923	13.839

B FACTORS FOR OXYGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
164.00	16.183		163.00	15.283		162.00	14.421	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.30	0.274	0.297	0.30	0.263	0.312	0.30	0.251	0.327
0.60	0.545	0.647	0.60	0.522	0.678	0.60	0.499	0.711
0.90	0.812	0.963	0.90	0.778	1.010	0.90	0.743	1.059
1.20	1.076	1.334	1.20	1.030	1.399	1.20	0.984	1.467
1.50	1.336	1.671	1.50	1.278	1.752	1.50	1.222	1.838
1.80	1.593	2.064	1.80	1.524	2.164	1.80	1.456	2.271
2.10	1.846	2.422	2.10	1.766	2.540	2.10	1.687	2.667
2.40	2.096	2.839	2.40	2.005	2.978	2.40	1.915	3.126
2.70	2.342	3.220	2.70	2.240	3.378	2.70	2.140	3.548
3.00	2.586	3.661	3.00	2.473	3.843	3.00	2.362	4.036
3.30	2.826	4.066	3.30	2.702	4.269	3.30	2.580	4.539
3.60	3.062	4.535	3.60	2.928	4.761	3.60	2.796	5.003
3.90	3.296	4.965	3.90	3.150	5.215	3.90	3.008	5.537
4.20	3.526	5.461	4.20	3.370	5.736	4.20	3.218	6.087
4.50	3.753	5.919	4.50	3.586	6.274	4.50	3.424	6.596
4.80	3.976	6.444	4.80	3.800	6.771	4.80	3.628	7.181
5.10	4.197	6.986	5.10	4.010	7.343	5.10	3.828	7.783
5.40	4.415	7.488	5.40	4.218	7.930	5.40	4.026	8.343
5.70	4.629	8.061	5.70	4.422	8.477	5.70	4.220	8.982
6.00	4.840	8.595	6.00	4.624	9.100	6.00	4.412	9.641
6.30	5.049	9.202	6.30	4.822	9.742	6.30	4.601	10.257
6.60	5.254	9.830	6.60	5.018	10.342	6.60	4.788	10.956
6.90	5.457	10.414	6.90	5.211	11.023	6.90	4.971	11.678
7.20	5.656	11.078	7.20	5.401	11.726	7.20	5.152	12.422
7.50	5.853	11.761	7.50	5.588	12.449	7.50	5.330	13.189
7.80	6.047	12.466	7.80	5.772	13.128	7.80	5.505	13.907
8.10	6.238	13.127	8.10	5.954	13.896	8.10	5.678	14.721
8.40	6.426	13.873	8.40	6.133	14.685	8.40	5.848	15.560
8.70	6.611	14.640	8.70	6.309	15.500	8.70	6.015	16.423

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
161.00	13.597		160.00	12.810		159.00	12.059	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.30	0.240	0.343	0.20	0.153	0.256	0.20	0.146	0.268
0.60	0.476	0.746	0.40	0.304	0.517	0.40	0.291	0.543
0.90	0.710	1.111	0.60	0.455	0.783	0.60	0.434	0.823
1.20	0.940	1.540	0.80	0.603	1.055	0.80	0.576	1.109
1.50	1.167	1.930	1.00	0.751	1.334	1.00	0.716	1.402
1.80	1.390	2.385	1.20	0.897	1.618	1.20	0.856	1.707
2.10	1.611	2.855	1.40	1.042	1.908	1.40	0.994	2.063
2.40	1.829	3.285	1.60	1.185	2.204	1.60	1.130	2.376
2.70	2.043	3.784	1.80	1.327	2.506	1.80	1.266	2.695
3.00	2.254	4.242	2.00	1.467	2.816	2.00	1.400	3.021
3.30	2.463	4.771	2.20	1.607	3.188	2.20	1.532	3.354
3.60	2.668	5.319	2.40	1.745	3.511	2.40	1.664	3.694
3.90	2.871	5.823	2.60	1.881	3.841	2.60	1.794	4.042
4.20	3.070	6.404	2.80	2.017	4.177	2.80	1.923	4.459
4.50	3.267	7.003	3.00	2.151	4.521	3.00	2.050	4.822
4.80	3.461	7.620	3.20	2.283	4.873	3.20	2.177	5.193
5.10	3.652	8.194	3.40	2.415	5.230	3.40	2.302	5.573
5.40	3.840	8.850	3.60	2.545	5.597	3.60	2.426	5.959
5.70	4.025	9.525	3.80	2.674	6.033	3.80	2.548	6.355
6.00	4.208	10.223	4.00	2.801	6.415	4.00	2.670	6.824
6.30	4.387	10.875	4.20	2.928	6.805	4.20	2.790	7.238
6.60	4.565	11.617	4.40	3.053	7.204	4.40	2.909	7.659
6.90	4.739	12.382	4.60	3.177	7.611	4.60	3.027	8.091
7.20	4.911	13.168	4.80	3.299	8.027	4.80	3.143	8.530
7.50	5.080	13.982	5.00	3.421	8.517	5.00	3.259	9.050
7.80	5.247	14.818	5.20	3.541	8.951	5.20	3.373	9.509
8.10	5.411	15.609	5.40	3.660	9.393	5.40	3.486	9.980
8.40	5.572	16.500	5.60	3.778	9.846	5.60	3.598	10.458
8.70	5.731	17.417	5.80	3.894	10.307	5.80	3.709	11.021

B FACTORS FOR OXYGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		
158.00	11.343		157.00	10.659		156.00	10.009		
	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
	0.20	0.140	0.339	0.20	0.132	0.297	0.20	0.127	0.313
	0.40	0.278	0.628	0.40	0.264	0.600	0.40	0.252	0.632
	0.60	0.414	0.923	0.60	0.394	0.911	0.60	0.376	0.959
	0.80	0.550	1.225	0.80	0.523	1.289	0.80	0.498	1.293
	1.00	0.684	1.534	1.00	0.650	1.614	1.00	0.620	1.700
	1.20	0.816	1.849	1.20	0.777	1.946	1.20	0.740	2.051
	1.40	0.948	2.171	1.40	0.902	2.286	1.40	0.859	2.409
	1.60	1.078	2.500	1.60	1.026	2.633	1.60	0.977	2.775
	1.80	1.207	2.898	1.80	1.148	2.988	1.80	1.093	3.149
	2.00	1.334	3.243	2.00	1.270	3.416	2.00	1.209	3.601
	2.20	1.461	3.595	2.20	1.390	3.787	2.20	1.323	3.993
	2.40	1.586	3.954	2.40	1.509	4.166	2.40	1.436	4.394
	2.60	1.710	4.321	2.60	1.627	4.555	2.60	1.548	4.804
	2.80	1.832	4.697	2.80	1.743	4.951	2.80	1.659	5.295
	3.00	1.954	5.146	3.00	1.859	5.426	3.00	1.768	5.725
	3.20	2.074	5.539	3.20	1.973	5.840	3.20	1.877	6.163
	3.40	2.193	5.939	3.40	2.086	6.264	3.40	1.984	6.612
	3.60	2.311	6.350	3.60	2.198	6.697	3.60	2.090	7.146
	3.80	2.427	6.768	3.80	2.309	7.212	3.80	2.195	7.615
	4.00	2.543	7.266	4.00	2.418	7.666	4.00	2.300	8.094
	4.20	2.657	7.703	4.20	2.527	8.128	4.20	2.403	8.585
	4.40	2.770	8.150	4.40	2.634	8.602	4.40	2.504	9.166
	4.60	2.882	8.606	4.60	2.740	9.162	4.60	2.605	9.679
	4.80	2.993	9.145	4.80	2.845	9.656	4.80	2.705	10.203
	5.00	3.102	9.624	5.00	2.950	10.161	5.00	2.804	10.823
	5.20	3.211	10.111	5.20	3.053	10.679	5.20	2.901	11.372
	5.40	3.318	10.610	5.40	3.154	11.287	5.40	2.998	11.933
	5.60	3.424	11.195	5.60	3.255	11.827	5.60	3.093	12.592
	5.80	3.529	11.715	5.80	3.355	12.378	5.80	3.188	13.178

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		
155.00	9.389		154.00	8.800		153.00	8.241		
	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
	0.20	0.120	0.329	0.20	0.114	0.347	0.20	0.109	0.367
	0.40	0.239	0.666	0.40	0.227	0.703	0.40	0.216	0.742
	0.60	0.357	1.011	0.60	0.339	1.066	0.60	0.322	1.201
	0.80	0.473	1.363	0.80	0.450	1.510	0.80	0.427	1.595
	1.00	0.589	1.793	1.00	0.559	1.892	1.00	0.532	1.998
	1.20	0.703	2.162	1.20	0.668	2.282	1.20	0.635	2.411
	1.40	0.816	2.541	1.40	0.775	2.682	1.40	0.736	2.912
	1.60	0.928	2.927	1.60	0.881	3.166	1.60	0.837	3.345
	1.80	1.039	3.394	1.80	0.986	3.584	1.80	0.937	3.788
	2.00	1.148	3.800	2.00	1.091	4.013	2.00	1.036	4.324
	2.20	1.257	4.214	2.20	1.194	4.452	2.20	1.133	4.789
	2.40	1.364	4.638	2.40	1.295	4.979	2.40	1.230	5.264
	2.60	1.470	5.147	2.60	1.396	5.438	2.60	1.325	5.836
	2.80	1.575	5.591	2.80	1.496	5.908	2.80	1.420	6.335
	3.00	1.680	6.045	3.00	1.595	6.472	3.00	1.513	6.846
	3.20	1.783	6.510	3.20	1.692	6.965	3.20	1.606	7.456
	3.40	1.884	7.064	3.40	1.789	7.468	3.40	1.697	7.992
	3.60	1.985	7.590	3.60	1.884	8.069	3.60	1.788	8.540
	3.80	2.085	8.047	3.80	1.979	8.597	3.80	1.877	9.192
	4.00	2.184	8.638	4.00	2.072	9.137	4.00	1.966	9.767
	4.20	2.281	9.159	4.20	2.165	9.778	4.20	2.053	10.448
	4.40	2.378	9.691	4.40	2.256	10.344	4.40	2.140	11.051
	4.60	2.473	10.321	4.60	2.347	10.923	4.60	2.226	11.668
	4.80	2.568	10.878	4.80	2.436	11.607	4.80	2.310	12.396
	5.00	2.661	11.448	5.00	2.525	12.213	5.00	2.394	13.042
	5.20	2.754	12.119	5.20	2.612	12.927	5.20	2.477	13.803
	5.40	2.845	12.716	5.40	2.699	13.563	5.40	2.558	14.481
	5.60	2.936	13.326	5.60	2.785	14.214	5.60	2.639	15.175
	5.80	3.025	14.042	5.80	2.869	14.976	5.80	2.719	15.988

B FACTORS FOR OXYGEN

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
152.00	7.709		151.00	7.205		150.00	6.728	
	DTV (R)	B		DTV (R)	B		DTV (R)	B
	DPV (PSIA)			DPV (PSIA)			DPV (PSIA)	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.20	0.103	0.387	0.20	0.097	0.409	0.20	0.093	0.520
0.40	0.204	0.862	0.40	0.194	0.829	0.40	0.184	0.965
0.60	0.305	1.269	0.60	0.289	1.342	0.60	0.275	1.420
0.80	0.405	1.685	0.80	0.384	1.783	0.80	0.364	1.977
1.00	0.504	2.193	1.00	0.477	2.234	1.00	0.453	2.457
1.20	0.601	2.631	1.20	0.570	2.783	1.20	0.540	3.040
1.40	0.698	3.079	1.40	0.661	3.258	1.40	0.627	3.544
1.60	0.793	3.622	1.60	0.752	3.744	1.60	0.713	4.061
1.80	0.888	4.092	1.80	0.841	4.332	1.80	0.797	4.686
2.00	0.981	4.574	2.00	0.930	4.842	2.00	0.881	5.229
2.20	1.074	5.154	2.20	1.017	5.458	2.20	0.964	5.884
2.40	1.165	5.659	2.40	1.104	5.994	2.40	1.045	6.456
2.60	1.256	6.177	2.60	1.190	6.544	2.60	1.126	7.041
2.80	1.345	6.797	2.80	1.274	7.202	2.80	1.206	7.742
3.00	1.434	7.341	3.00	1.358	7.779	3.00	1.285	8.356
3.20	1.521	7.989	3.20	1.441	8.469	3.20	1.364	9.090
3.40	1.608	8.560	3.40	1.522	9.075	3.40	1.441	9.737
3.60	1.694	9.143	3.60	1.603	9.696	3.60	1.517	10.507
3.80	1.778	9.837	3.80	1.683	10.433	3.80	1.593	11.184
4.00	1.862	10.449	4.00	1.762	11.083	4.00	1.667	11.990
4.20	1.945	11.175	4.20	1.841	11.855	4.20	1.741	12.704
4.40	2.026	11.818	4.40	1.918	12.540	4.40	1.814	13.546
4.60	2.107	12.476	4.60	1.994	13.348	4.60	1.886	14.297
4.80	2.187	13.251	4.80	2.070	14.065	4.80	1.957	15.178
5.00	2.266	13.939	5.00	2.144	14.911	5.00	2.028	15.966
5.20	2.345	14.751	5.20	2.218	15.665	5.20	2.097	16.892
5.40	2.422	15.475	5.40	2.291	16.548	5.40	2.166	17.718
5.60	2.498	16.324	5.60	2.363	17.340	5.60	2.234	18.688
5.80	2.574	17.081	5.80	2.434	18.265	5.80	2.301	19.554

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
149.00	6.275		148.00	5.847		147.00	5.443	
	DTV (R)	B		DTV (R)	B		DTV (R)	B
	DPV (PSIA)			DPV (PSIA)			DPV (PSIA)	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.20	0.087	0.550	0.20	0.083	0.583	0.20	0.079	0.619
0.40	0.174	1.022	0.40	0.164	1.083	0.40	0.156	1.150
0.60	0.260	1.505	0.60	0.245	1.596	0.60	0.232	1.800
0.80	0.344	2.095	0.80	0.325	2.222	0.80	0.308	2.359
1.00	0.428	2.604	1.00	0.404	2.762	1.00	0.382	3.042
1.20	0.511	3.223	1.20	0.483	3.419	1.20	0.456	3.632
1.40	0.592	3.758	1.40	0.560	3.988	1.40	0.529	4.348
1.60	0.673	4.307	1.60	0.636	4.678	1.60	0.601	4.970
1.80	0.753	4.971	1.80	0.712	5.276	1.80	0.672	5.721
2.00	0.832	5.547	2.00	0.786	6.000	2.00	0.743	6.377
2.20	0.911	6.243	2.20	0.860	6.631	2.20	0.812	7.167
2.40	0.988	6.851	2.40	0.933	7.388	2.40	0.881	7.856
2.60	1.064	7.580	2.60	1.005	8.053	2.60	0.949	8.685
2.80	1.140	8.218	2.80	1.076	8.847	2.80	1.016	9.412
3.00	1.214	8.982	3.00	1.147	9.547	3.00	1.083	10.282
3.20	1.288	9.655	3.20	1.216	10.362	3.20	1.148	11.047
3.40	1.361	10.454	3.40	1.285	11.116	3.40	1.213	11.959
3.60	1.433	11.162	3.60	1.353	11.992	3.60	1.277	12.895
3.80	1.504	12.000	3.80	1.420	12.765	3.80	1.340	13.723
4.00	1.575	12.743	4.00	1.487	13.683	4.00	1.402	14.705
4.20	1.644	13.623	4.20	1.552	14.496	4.20	1.464	15.577
4.40	1.713	14.403	4.40	1.617	15.457	4.40	1.525	16.606
4.60	1.781	15.326	4.60	1.681	16.444	4.60	1.585	17.661
4.80	1.848	16.145	4.80	1.744	17.322	4.80	1.644	18.606
5.00	1.915	17.112	5.00	1.806	18.358	5.00	1.703	19.713
5.20	1.980	17.974	5.20	1.868	19.281	5.20	1.761	20.704
5.40	2.045	18.984	5.40	1.929	20.364	5.40	1.818	21.866
5.60	2.109	20.023	5.60	1.989	21.474	5.60	1.875	23.057
5.80	2.172	20.952	5.80	2.048	22.475	5.80	1.930	24.132

B FACTORS FOR OXYGEN

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
146.00	5.061		145.00	4.700		144.00	4.360	
DTV (R)	DPV (PSIA)		DTV (R)	DPV (PSIA)		DTV (R)	DPV (PSIA)	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.10	0.037	0.218	0.10	0.035	0.347	0.10	0.032	0.369
0.20	0.074	0.546	0.20	0.069	0.699	0.20	0.065	0.620
0.30	0.111	0.882	0.30	0.104	1.055	0.30	0.097	0.998
0.40	0.147	1.221	0.40	0.138	1.298	0.40	0.130	1.382
0.50	0.183	1.452	0.50	0.172	1.664	0.50	0.162	1.771
0.60	0.219	1.799	0.60	0.206	2.034	0.60	0.194	2.165
0.70	0.255	2.151	0.70	0.240	2.408	0.70	0.225	2.436
0.80	0.290	2.507	0.80	0.273	2.667	0.80	0.257	2.839
0.90	0.326	2.752	0.90	0.306	3.051	0.90	0.288	3.249
1.00	0.361	3.117	1.00	0.340	3.440	1.00	0.319	3.663
1.10	0.396	3.486	1.10	0.372	3.833	1.10	0.350	4.083
1.20	0.430	3.860	1.20	0.405	4.108	1.20	0.381	4.376
1.30	0.465	4.239	1.30	0.437	4.512	1.30	0.411	4.807
1.40	0.499	4.504	1.40	0.470	4.920	1.40	0.442	5.243
1.50	0.533	4.892	1.50	0.502	5.335	1.50	0.472	5.685
1.60	0.567	5.285	1.60	0.534	5.755	1.60	0.502	6.132
1.70	0.601	5.682	1.70	0.565	6.051	1.70	0.532	6.449
1.80	0.634	5.964	1.80	0.597	6.480	1.80	0.561	6.908
1.90	0.667	6.371	1.90	0.628	6.916	1.90	0.591	7.372
2.00	0.701	6.784	2.00	0.659	7.358	2.00	0.620	7.844
2.10	0.733	7.201	2.10	0.690	7.804	2.10	0.649	8.321
2.20	0.766	7.500	2.20	0.721	8.123	2.20	0.678	8.662
2.30	0.798	7.928	2.30	0.751	8.582	2.30	0.707	9.152
2.40	0.831	8.361	2.40	0.782	9.044	2.40	0.735	9.646
2.50	0.863	8.800	2.50	0.812	9.514	2.50	0.763	10.149
2.60	0.895	9.245	2.60	0.842	9.989	2.60	0.792	10.656
2.70	0.926	9.566	2.70	0.872	10.334	2.70	0.820	11.172
2.80	0.958	10.021	2.80	0.901	10.822	2.80	0.847	11.547
2.90	0.989	10.482	2.90	0.931	11.314	2.90	0.875	12.074

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
143.00	4.041		142.00	3.740		141.00	3.458	
DTV (R)	DPV (PSIA)		DTV (R)	DPV (PSIA)		DTV (R)	DPV (PSIA)	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.10	0.031	0.393	0.10	0.029	0.420	0.10	0.028	0.448
0.20	0.062	0.660	0.20	0.058	0.704	0.20	0.055	0.902
0.30	0.092	1.064	0.30	0.087	1.134	0.30	0.082	1.363
0.40	0.123	1.472	0.40	0.115	1.571	0.40	0.109	1.677
0.50	0.153	1.887	0.50	0.143	2.013	0.50	0.135	2.150
0.60	0.183	2.307	0.60	0.172	2.461	0.60	0.162	2.629
0.70	0.213	2.596	0.70	0.200	2.916	0.70	0.188	3.114
0.80	0.242	3.027	0.80	0.227	3.230	0.80	0.214	3.607
0.90	0.272	3.463	0.90	0.255	3.696	0.90	0.240	4.107
1.00	0.301	3.905	1.00	0.282	4.169	1.00	0.266	4.613
1.10	0.330	4.354	1.10	0.310	4.647	1.10	0.291	4.966
1.20	0.359	4.667	1.20	0.337	5.133	1.20	0.317	5.486
1.30	0.388	5.126	1.30	0.364	5.625	1.30	0.342	6.012
1.40	0.416	5.592	1.40	0.391	5.971	1.40	0.367	6.547
1.50	0.444	6.064	1.50	0.417	6.475	1.50	0.392	7.088
1.60	0.473	6.542	1.60	0.444	6.987	1.60	0.417	7.638
1.70	0.501	7.027	1.70	0.470	7.505	1.70	0.441	8.194
1.80	0.528	7.371	1.80	0.496	8.032	1.80	0.466	8.590
1.90	0.556	7.868	1.90	0.522	8.564	1.90	0.490	9.161
2.00	0.583	8.372	2.00	0.548	9.105	2.00	0.514	9.739
2.10	0.611	8.881	2.10	0.573	9.491	2.10	0.538	10.327
2.20	0.638	9.399	2.20	0.599	10.045	2.20	0.562	10.921
2.30	0.665	9.922	2.30	0.624	10.606	2.30	0.585	11.525
2.40	0.692	10.300	2.40	0.649	11.175	2.40	0.609	12.136
2.50	0.718	10.837	2.50	0.674	11.751	2.50	0.632	12.755
2.60	0.745	11.382	2.60	0.699	12.337	2.60	0.655	13.206
2.70	0.771	11.933	2.70	0.723	12.929	2.70	0.678	13.841
2.80	0.797	12.492	2.80	0.748	13.361	2.80	0.701	14.487
2.90	0.823	13.058	2.90	0.772	13.968	2.90	0.724	15.140

Appendix F: B-factors for refrigerant 114, calculated from eq (5).

B FACTORS FOR REFRIGERANT 114

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
750.00	454.906		745.00	432.903		740.00	412.077	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
2.00	8.950	0.227	2.10	8.882	0.155	2.20	8.828	0.140
4.00	17.702	0.434	4.20	17.568	0.315	4.40	17.466	0.289
6.00	26.258	0.638	6.30	26.067	0.482	6.60	25.920	0.448
8.00	34.631	0.844	8.40	34.389	0.656	8.80	34.201	0.616
10.00	42.829	1.055	10.50	42.541	0.840	11.00	42.314	0.794
12.00	50.863	1.274	12.60	50.531	1.034	13.20	50.266	0.983
14.00	58.738	1.502	14.70	58.366	1.238	15.40	58.062	1.185
16.00	66.461	1.740	16.80	66.050	1.454	17.60	65.707	1.399
18.00	74.038	1.990	18.90	73.590	1.681	19.80	73.207	1.627
20.00	81.475	2.252	21.00	80.988	1.922	22.00	80.564	1.870
22.00	88.778	2.527	23.10	88.250	2.176	24.20	87.784	2.129
24.00	95.948	2.815	25.20	95.381	2.446	26.40	94.870	2.402
26.00	102.991	3.120	27.30	102.382	2.733	28.60	101.825	2.693
28.00	109.911	3.439	29.40	109.259	3.035	30.80	108.652	3.002
30.00	116.710	3.777	31.50	116.015	3.354	33.00	115.356	3.330
32.00	123.393	4.135	33.60	122.651	3.691	35.20	121.938	3.679
34.00	129.962	4.510	35.70	129.171	4.049	37.40	128.400	4.048
36.00	136.420	4.904	37.80	135.578	4.426	39.60	134.746	4.441
38.00	142.770	5.320	39.90	141.873	4.826	41.80	140.979	4.857
40.00	149.014	5.759	42.00	148.060	5.250	44.00	147.100	5.298
42.00	155.154	6.221	44.10	154.140	5.697	46.20	153.111	5.765
44.00	161.192	6.709	46.20	160.116	6.170	48.40	159.014	6.261
46.00	167.130	7.223	48.30	165.991	6.669	50.60	164.812	6.787
48.00	172.971	7.767	50.40	171.764	7.197	52.80	170.586	7.342
50.00	178.717	8.339	52.50	177.438	7.755	55.00	176.099	7.932
52.00	184.369	8.942	54.60	183.015	8.345	57.20	181.591	8.556
54.00	189.929	9.577	56.70	188.498	8.968	59.40	186.985	9.219
56.00	195.398	10.247	58.80	193.887	9.626	61.60	192.282	9.921
58.00	200.778	10.954	60.90	199.184	10.321	63.80	197.483	10.665

735.00	392.288		730.00	373.431		725.00	355.421	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
2.20	8.407	0.132	2.20	8.025	0.127	2.20	7.672	0.127
4.40	16.641	0.273	4.40	15.892	0.264	4.40	15.198	0.263
6.60	24.710	0.423	6.60	23.605	0.411	6.60	22.581	0.410
8.80	32.619	0.583	8.80	31.169	0.568	8.80	29.825	0.568
11.00	40.373	0.753	11.00	38.591	0.736	11.00	36.935	0.736
13.20	47.978	0.935	13.20	45.873	0.917	13.20	43.914	0.916
15.40	55.438	1.130	15.40	53.019	1.109	15.40	50.765	1.109
17.60	62.758	1.338	17.60	60.033	1.313	17.60	57.491	1.315
19.80	69.941	1.559	19.80	66.919	1.532	19.80	64.094	1.534
22.00	76.991	1.794	22.00	73.678	1.765	22.00	70.578	1.768
24.20	83.911	2.045	24.20	80.315	2.013	24.20	76.945	2.017
26.40	90.705	2.311	26.40	86.831	2.277	26.40	83.198	2.282
28.60	97.374	2.594	28.60	93.230	2.558	28.60	89.339	2.565
30.80	103.923	2.895	30.80	99.513	2.856	30.80	95.370	2.865
33.00	110.353	3.215	33.00	105.685	3.173	33.00	101.293	3.184
35.20	116.669	3.555	35.20	111.746	3.511	35.20	107.109	3.523
37.40	122.871	3.915	37.40	117.698	3.869	37.40	112.822	3.882
39.60	128.962	4.298	39.60	123.543	4.248	39.60	118.433	4.264
41.80	134.943	4.703	41.80	129.284	4.651	41.80	123.944	4.669
44.00	140.817	5.134	44.00	134.923	5.078	44.00	129.356	5.100
46.20	146.586	5.590	46.20	140.461	5.531	46.20	134.670	5.557
48.40	152.253	6.073	48.40	145.899	6.012	48.40	139.888	6.041
50.60	157.818	6.586	50.60	151.240	6.522	50.60	145.013	6.554
52.80	163.283	7.129	52.80	156.484	7.063	52.80	150.045	7.098
55.00	168.650	7.705	55.00	161.634	7.636	55.00	154.986	7.673
57.20	173.921	8.316	57.20	166.692	8.241	57.20	159.836	8.282
59.40	179.097	8.963	59.40	171.657	8.883	59.40	164.598	8.928
61.60	184.179	9.647	61.60	176.532	9.562	61.60	169.274	9.613
63.80	189.169	10.372	63.80	181.318	10.281	63.80	173.863	10.337

B FACTORS FOR REFRIGERANT 114

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
720.00	338.196		715.00	321.702		710.00	305.893	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
2.20	7.345	0.129	2.20	7.038	0.130	2.20	6.748	0.134
4.40	14.553	0.267	4.40	13.947	0.271	4.40	13.374	0.279
6.60	21.627	0.415	6.60	20.729	0.422	6.60	19.879	0.434
8.80	28.570	0.574	8.80	27.388	0.585	8.80	26.267	0.600
11.00	35.387	0.745	11.00	33.926	0.759	11.00	32.541	0.779
13.20	42.079	0.927	13.20	40.346	0.944	13.20	38.703	0.970
15.40	48.649	1.122	15.40	46.650	1.143	15.40	44.753	1.174
17.60	55.101	1.331	17.60	52.842	1.356	17.60	50.695	1.392
19.80	61.436	1.553	19.80	58.923	1.583	19.80	56.531	1.625
22.00	67.659	1.790	22.00	64.894	1.825	22.00	62.263	1.873
24.20	73.770	2.042	24.20	70.759	2.082	24.20	67.892	2.137
26.40	79.771	2.312	26.40	76.519	2.357	26.40	73.421	2.419
28.60	85.665	2.598	28.60	82.176	2.648	28.60	78.851	2.718
30.80	91.452	2.902	30.80	87.732	2.959	30.80	84.182	3.038
33.00	97.138	3.225	33.00	93.189	3.289	33.00	89.418	3.377
35.20	102.721	3.569	35.20	98.547	3.640	35.20	94.560	3.738
37.40	108.205	3.934	37.40	103.809	4.014	37.40	99.609	4.120
39.60	113.590	4.322	39.60	108.976	4.410	39.60	104.566	4.527
41.80	118.878	4.734	41.80	114.050	4.830	41.80	109.432	4.958
44.00	124.070	5.171	44.00	119.032	5.276	44.00	114.210	5.415
46.20	129.170	5.634	46.20	123.923	5.748	46.20	118.902	5.901
48.40	134.177	6.125	48.40	128.725	6.249	48.40	123.507	6.416
50.60	139.092	6.645	50.60	133.439	6.781	50.60	128.026	6.958
52.80	143.918	7.197	52.80	138.068	7.345	52.80	132.461	7.535
55.00	148.657	7.780	55.00	142.610	7.939	55.00	136.814	8.150
57.20	153.309	8.401	57.20	147.069	8.570	57.20	141.085	8.798
59.40	157.875	9.055	59.40	151.443	9.240	59.40	145.276	9.484
61.60	162.356	9.746	61.60	155.737	9.947	61.60	149.387	10.210
63.80	166.753	10.480	63.80	159.950	10.696	63.80	153.420	10.982
705.00	290.733		700.00	276.189		695.00	262.231	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
2.10	6.181	0.131	2.10	5.933	0.136	2.10	5.693	0.142
4.20	12.257	0.273	4.20	11.763	0.283	4.20	11.289	0.294
6.30	18.228	0.424	6.30	17.494	0.440	6.30	16.789	0.456
8.40	24.098	0.586	8.40	23.126	0.607	8.40	22.196	0.630
10.50	29.866	0.759	10.50	28.663	0.786	10.50	27.510	0.815
12.60	35.536	0.944	12.60	34.105	0.977	12.60	32.734	1.013
14.70	41.109	1.141	14.70	39.454	1.180	14.70	37.868	1.225
16.80	46.586	1.350	16.80	44.712	1.397	16.80	42.913	1.450
18.90	51.971	1.573	18.90	49.880	1.628	18.90	47.872	1.689
21.00	57.264	1.810	21.00	54.959	1.874	21.00	52.745	1.944
23.10	62.466	2.063	23.10	59.951	2.135	23.10	57.535	2.215
25.20	67.578	2.331	25.20	64.856	2.412	25.20	62.241	2.502
27.30	72.603	2.616	27.30	69.678	2.707	27.30	66.865	2.807
29.40	77.541	2.918	29.40	74.416	3.019	29.40	71.408	3.131
31.50	82.395	3.238	31.50	79.070	3.350	31.50	75.874	3.475
33.60	87.164	3.578	33.60	83.645	3.701	33.60	80.260	3.839
35.70	91.850	3.938	35.70	88.139	4.073	35.70	84.568	4.222
37.80	96.455	4.318	37.80	92.556	4.468	37.80	88.800	4.630
39.90	100.980	4.722	39.90	96.894	4.884	39.90	92.956	5.065
42.00	105.427	5.149	42.00	101.155	5.324	42.00	97.039	5.522
44.10	109.794	5.601	44.10	105.339	5.791	44.10	101.048	6.005
46.20	114.084	6.075	46.20	109.450	6.284	46.20	104.984	6.517
48.30	118.297	6.580	48.30	113.487	6.806	48.30	108.849	7.060
50.40	122.437	7.117	50.40	117.451	7.360	50.40	112.644	7.632
52.50	126.501	7.681	52.50	121.343	7.945	52.50	116.368	8.238
54.60	130.493	8.277	54.60	125.165	8.562	54.60	120.025	8.881
56.70	134.412	8.907	56.70	128.915	9.214	56.70	123.612	9.558
58.80	138.261	9.575	58.80	132.598	9.904	58.80	127.133	10.274
60.90	142.038	10.277	60.90	136.211	10.633	60.90	130.588	11.029

B FACTORS FOR REFRIGERANT 114

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
690.00	248.836		685.00	235.978		680.00	223.638	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
2.00	5.207	0.140	2.00	4.998	0.146	1.90	4.557	0.145
4.00	10.328	0.290	4.00	9.913	0.302	3.80	9.044	0.299
6.00	15.367	0.449	6.00	14.748	0.469	5.70	13.460	0.463
8.00	20.323	0.620	8.00	19.504	0.647	7.60	17.808	0.638
10.00	25.198	0.801	10.00	24.182	0.836	9.50	22.088	0.823
12.00	29.994	0.994	12.00	28.783	1.037	11.40	26.299	1.019
14.00	34.710	1.199	14.00	33.309	1.251	13.30	30.445	1.226
16.00	39.350	1.417	16.00	37.759	1.478	15.20	34.525	1.446
18.00	43.913	1.648	18.00	42.135	1.719	17.10	38.542	1.680
20.00	48.401	1.894	20.00	46.439	1.974	19.00	42.493	1.925
22.00	52.814	2.153	22.00	50.672	2.245	20.90	46.381	2.183
24.00	57.154	2.429	24.00	54.833	2.532	22.80	50.206	2.458
26.00	61.423	2.720	26.00	58.924	2.833	24.70	53.970	2.750
28.00	65.620	3.029	28.00	62.946	3.154	26.60	57.673	3.056
30.00	69.745	3.354	30.00	66.900	3.496	28.50	61.316	3.378
32.00	73.802	3.699	32.00	70.786	3.855	30.40	64.900	3.721
34.00	77.789	4.063	34.00	74.606	4.234	32.30	68.424	4.081
36.00	81.709	4.448	36.00	78.359	4.635	34.20	71.891	4.461
38.00	85.562	4.855	38.00	82.048	5.060	36.10	75.299	4.860
40.00	89.349	5.286	40.00	85.674	5.507	38.00	78.651	5.281
42.00	93.069	5.739	42.00	89.235	5.981	39.90	81.948	5.726
44.00	96.727	6.220	44.00	92.734	6.481	41.80	85.188	6.194
46.00	100.319	6.724	46.00	96.170	7.009	43.70	88.373	6.687
48.00	103.850	7.257	48.00	99.546	7.566	45.60	91.505	7.205
50.00	107.318	7.821	50.00	102.862	8.152	47.50	94.582	7.749
52.00	110.724	8.415	52.00	106.118	8.770	49.40	97.607	8.323
54.00	114.070	9.041	54.00	109.315	9.423	51.30	100.579	8.925
56.00	117.356	9.700	56.00	112.454	10.108	53.20	103.499	9.561
58.00	120.581	10.393	58.00	115.535	10.835	55.10	106.368	10.232

675.00	211.797		670.00	200.435		665.00	189.539	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.90	4.373	0.152	1.80	3.975	0.150	1.80	3.813	0.158
3.80	8.678	0.313	3.60	7.891	0.309	3.60	7.568	0.325
5.70	12.914	0.485	5.40	11.748	0.478	5.40	11.265	0.500
7.60	17.084	0.667	7.20	15.549	0.657	7.20	14.907	0.688
9.50	21.188	0.860	9.00	19.290	0.846	9.00	18.492	0.885
11.40	25.228	1.065	10.80	22.975	1.044	10.80	22.023	1.095
13.30	29.203	1.282	12.60	26.604	1.255	12.60	25.500	1.316
15.20	33.114	1.511	14.40	30.177	1.478	14.40	28.923	1.549
17.10	36.963	1.754	16.20	33.696	1.713	16.20	32.292	1.795
19.00	40.749	2.011	18.00	37.161	1.960	18.00	35.609	2.056
20.90	44.475	2.283	19.80	40.572	2.223	19.80	38.875	2.330
22.80	48.140	2.570	21.60	43.930	2.498	21.60	42.088	2.619
24.70	51.745	2.874	23.40	47.235	2.789	23.40	45.251	2.924
26.60	55.291	3.193	25.20	50.490	3.094	25.20	48.365	3.245
28.50	58.779	3.533	27.00	53.692	3.416	27.00	51.427	3.584
30.40	62.209	3.888	28.80	56.844	3.756	28.80	54.441	3.939
32.30	65.582	4.265	30.60	59.945	4.113	30.60	57.406	4.313
34.20	68.899	4.663	32.40	62.997	4.489	32.40	60.323	4.706
36.10	72.159	5.082	34.20	66.000	4.883	34.20	63.193	5.120
38.00	75.364	5.523	36.00	68.955	5.297	36.00	66.015	5.553
39.90	78.516	5.987	37.80	71.861	5.732	37.80	68.790	6.013
41.80	81.613	6.476	39.60	74.720	6.190	39.60	71.520	6.494
43.70	84.658	6.991	41.40	77.532	6.670	41.40	74.204	6.998
45.60	87.649	7.532	43.20	80.297	7.177	43.20	76.843	7.531
47.50	90.588	8.105	45.00	83.016	7.709	45.00	79.437	8.089
49.40	93.476	8.705	46.80	85.690	8.265	46.80	81.987	8.674
51.30	96.313	9.337	48.60	88.319	8.851	48.60	84.493	9.288
53.20	99.100	10.004	50.40	90.903	9.467	50.40	86.956	9.933
55.10	101.837	10.705	52.20	93.444	10.111	52.20	89.376	10.614

B FACTORS FOR REFRIGERANT 114

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
660.00	179.091		655.00	169.079		650.00	159.488	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.70	3.452	0.155	1.70	3.308	0.163	1.70	3.167	0.171
3.40	6.854	0.319	3.40	6.567	0.335	3.40	6.287	0.354
5.10	10.208	0.495	5.10	9.779	0.519	5.10	9.362	0.545
6.80	13.513	0.678	6.80	12.943	0.711	6.80	12.390	0.748
8.50	16.770	0.870	8.50	16.061	0.915	8.50	15.374	0.963
10.20	19.979	1.076	10.20	19.133	1.128	10.20	18.313	1.189
11.90	23.140	1.289	11.90	22.159	1.354	11.90	21.206	1.427
13.60	26.255	1.517	13.60	25.139	1.593	13.60	24.057	1.677
15.30	29.324	1.753	15.30	28.076	1.844	15.30	26.863	1.940
17.00	32.347	2.005	17.00	30.967	2.108	17.00	29.627	2.217
18.70	35.326	2.269	18.70	33.814	2.385	18.70	32.349	2.508
20.40	38.259	2.547	20.40	36.619	2.676	20.40	35.027	2.814
22.10	41.148	2.839	22.10	39.380	2.982	22.10	37.665	3.138
23.80	43.993	3.145	23.80	42.099	3.303	23.80	40.260	3.476
25.50	46.794	3.466	25.50	44.775	3.640	25.50	42.815	3.834
27.20	49.553	3.803	27.20	47.410	3.997	27.20	45.330	4.206
28.90	52.270	4.157	28.90	50.003	4.368	28.90	47.805	4.599
30.60	54.943	4.527	30.60	52.556	4.762	30.60	50.240	5.013
32.30	57.576	4.920	32.30	55.068	5.170	32.30	52.636	5.446
34.00	60.167	5.327	34.00	57.541	5.601	34.00	54.992	5.900
35.70	62.717	5.758	35.70	59.973	6.054	35.70	57.311	6.375
37.40	65.227	6.207	37.40	62.367	6.529	37.40	59.591	6.877
39.10	67.697	6.678	39.10	64.721	7.025	39.10	61.834	7.399
40.80	70.127	7.174	40.80	67.038	7.545	40.80	64.040	7.950
42.50	72.518	7.692	42.50	69.315	8.094	42.50	66.208	8.529
44.20	74.871	8.235	44.20	71.556	8.663	44.20	68.340	9.129
45.90	77.185	8.803	45.90	73.760	9.264	45.90	70.436	9.763
47.60	79.460	9.403	47.60	75.926	9.895	47.60	72.495	10.427
49.30	81.699	10.023	49.30	78.056	10.550	49.30	74.521	11.122
645.00	150.305		640.00	141.518		635.00	133.116	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.60	2.854	0.171	1.60	2.729	0.180	1.50	2.448	0.177
3.20	5.668	0.351	3.20	5.420	0.369	3.00	4.862	0.362
4.80	8.443	0.540	4.80	8.073	0.568	4.50	7.243	0.557
6.40	11.177	0.739	6.40	10.688	0.777	6.00	9.592	0.761
8.00	13.873	0.949	8.00	13.263	0.997	7.50	11.908	0.978
9.60	16.530	1.168	9.60	15.803	1.228	9.00	14.192	1.202
11.20	19.150	1.399	11.20	18.304	1.470	10.50	16.444	1.440
12.80	21.730	1.641	12.80	20.769	1.728	12.00	18.665	1.685
14.40	24.274	1.895	14.40	23.198	1.996	13.50	20.855	1.945
16.00	26.780	2.161	16.00	25.590	2.279	15.00	23.014	2.217
17.60	29.250	2.444	17.60	27.946	2.574	16.50	25.142	2.500
19.20	31.683	2.737	19.20	30.268	2.884	18.00	27.239	2.797
20.80	34.080	3.047	20.80	32.554	3.210	19.50	29.307	3.108
22.40	36.440	3.369	22.40	34.806	3.552	21.00	31.345	3.432
24.00	38.767	3.708	24.00	37.023	3.910	22.50	33.352	3.774
25.60	41.057	4.064	25.60	39.206	4.283	24.00	35.332	4.127
27.20	43.313	4.437	27.20	41.355	4.678	25.50	37.282	4.499
28.80	45.534	4.826	28.80	43.471	5.089	27.00	39.203	4.888
30.40	47.722	5.232	30.40	45.555	5.520	28.50	41.095	5.293
32.00	49.875	5.661	32.00	47.604	5.972	30.00	42.959	5.713
33.60	51.995	6.108	33.60	49.622	6.444	31.50	44.796	6.156
35.20	54.083	6.575	35.20	51.607	6.936	33.00	46.604	6.618
36.80	56.137	7.066	36.80	53.561	7.454	34.50	48.386	7.100
38.40	58.159	7.578	38.40	55.484	7.996	36.00	50.139	7.606
40.00	60.148	8.110	40.00	57.375	8.566	37.50	51.867	8.131
41.60	62.106	8.671	41.60	59.235	9.159	39.00	53.567	8.677
43.20	64.032	9.257	43.20	61.065	9.778	40.50	55.241	9.253
44.80	65.927	9.872	44.80	62.865	10.429	42.00	56.888	9.847
46.40	67.791	10.514	46.40	64.634	11.108	43.50	58.510	10.474

B FACTORS FOR REFRIGERANT 114

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
630.00	125.087		625.00	117.420		620.00	110.103	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.50	2.338	0.187	1.40	2.084	0.183	1.40	1.988	0.193
3.00	4.643	0.384	2.80	4.140	0.376	2.80	3.948	0.397
4.50	6.917	0.590	4.20	6.170	0.577	4.20	5.882	0.612
6.00	9.159	0.807	5.60	8.172	0.789	5.60	7.791	0.833
7.50	11.369	1.033	7.00	10.148	1.011	7.00	9.673	1.069
9.00	13.549	1.271	8.40	12.096	1.240	8.40	11.530	1.314
10.50	15.697	1.522	9.80	14.020	1.481	9.80	13.362	1.567
12.00	17.815	1.784	11.20	15.918	1.733	11.20	15.168	1.835
13.50	19.902	2.056	12.60	17.789	1.999	12.60	16.950	2.116
15.00	21.960	2.342	14.00	19.635	2.272	14.00	18.706	2.404
16.50	23.988	2.644	15.40	21.456	2.559	15.40	20.438	2.708
18.00	25.986	2.960	16.80	23.251	2.860	16.80	22.146	3.026
19.50	27.956	3.286	18.20	25.022	3.174	18.20	23.830	3.358
21.00	29.896	3.631	19.60	26.768	3.497	19.60	25.490	3.705
22.50	31.807	3.992	21.00	28.490	3.838	21.00	27.126	4.068
24.00	33.691	4.365	22.40	30.187	4.192	22.40	28.739	4.444
25.50	35.545	4.758	23.80	31.861	4.562	23.80	30.328	4.836
27.00	37.372	5.169	25.20	33.511	4.953	25.20	31.895	5.249
28.50	39.172	5.598	26.60	35.137	5.355	26.60	33.438	5.674
30.00	40.944	6.050	28.00	36.739	5.773	28.00	34.959	6.122
31.50	42.689	6.519	29.40	38.319	6.209	29.40	36.457	6.585
33.00	44.407	7.007	30.80	39.875	6.668	30.80	37.934	7.069
34.50	46.098	7.519	32.20	41.409	7.139	32.20	39.388	7.573
36.00	47.763	8.055	33.60	42.920	7.637	33.60	40.820	8.099
37.50	49.402	8.611	35.00	44.410	8.149	35.00	42.231	8.648
39.00	51.015	9.194	36.40	45.876	8.687	36.40	43.621	9.215
40.50	52.604	9.800	37.80	47.321	9.246	37.80	44.988	9.814
42.00	54.166	10.435	39.20	48.744	9.825	39.20	46.336	10.429
43.50	55.703	11.098	40.60	50.146	10.432	40.60	47.662	11.077
635.00	103.127		610.00	96.481		605.00	90.157	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.30	1.759	0.192	1.30	1.675	0.203	1.20	1.472	0.198
2.60	3.496	0.393	2.60	3.328	0.416	2.40	2.925	0.404
3.90	5.211	0.600	3.90	4.960	0.634	3.60	4.361	0.618
5.20	6.905	0.817	5.20	6.570	0.864	4.80	5.780	0.843
6.50	8.576	1.045	6.50	8.161	1.104	6.00	7.180	1.077
7.80	10.226	1.282	7.80	9.729	1.355	7.20	8.564	1.317
9.10	11.855	1.525	9.10	11.278	1.615	8.40	9.931	1.567
10.40	13.462	1.782	10.40	12.806	1.892	9.60	11.281	1.828
11.70	15.049	2.049	11.70	14.314	2.175	10.80	12.613	2.101
13.00	16.614	2.328	13.00	15.801	2.470	12.00	13.929	2.381
14.30	18.160	2.618	14.30	17.269	2.777	13.20	15.229	2.676
15.60	19.685	2.924	15.60	18.716	3.101	14.40	16.512	2.978
16.90	21.189	3.238	16.90	20.144	3.433	15.60	17.779	3.294
18.20	22.673	3.564	18.20	21.552	3.785	16.80	19.029	3.622
19.50	24.138	3.905	19.50	22.942	4.145	18.00	20.264	3.964
20.80	25.582	4.262	20.80	24.312	4.522	19.20	21.482	4.315
22.10	27.008	4.629	22.10	25.663	4.914	20.40	22.685	4.684
23.40	28.413	5.016	23.40	26.996	5.324	21.60	23.872	5.062
24.70	29.800	5.412	24.70	28.309	5.748	22.80	25.043	5.460
26.00	31.167	5.829	26.00	29.604	6.188	24.00	26.199	5.867
27.30	32.515	6.259	27.30	30.881	6.650	25.20	27.340	6.293
28.60	33.844	6.709	28.60	32.139	7.128	26.40	28.466	6.736
29.90	35.155	7.176	29.90	33.380	7.624	27.60	29.576	7.196
31.20	36.447	7.658	31.20	34.603	8.143	28.80	30.671	7.668
32.50	37.721	8.166	32.50	35.808	8.683	30.00	31.752	8.158
33.80	38.977	8.688	33.80	36.995	9.239	31.20	32.818	8.670
35.10	40.215	9.233	35.10	38.165	9.818	32.40	33.869	9.199
36.40	41.435	9.800	36.40	39.318	10.424	33.60	34.906	9.748
37.70	42.637	10.391	37.70	40.454	11.052	34.80	35.928	10.317

B FACTORS FOR REFRIGERANT 114

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		
600.00	84.143		595.00	78.431		590.00	73.010		
	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
	1.20	1.398	0.210	1.10	1.217	0.204	1.10	1.154	0.219
	2.40	2.779	0.428	2.20	2.420	0.414	2.20	2.295	0.443
	3.60	4.143	0.654	3.30	3.609	0.637	3.30	3.422	0.660
	4.80	5.490	0.893	4.40	4.785	0.863	4.40	4.536	0.920
	6.00	6.819	1.140	5.50	5.947	1.099	5.50	5.637	1.174
	7.20	8.133	1.395	6.60	7.095	1.346	6.60	6.724	1.434
	8.40	9.429	1.664	7.70	8.230	1.601	7.70	7.799	1.708
	9.60	10.710	1.939	8.80	9.351	1.864	8.80	8.860	1.988
	10.80	11.974	2.228	9.90	10.459	2.139	9.90	9.908	2.279
	12.00	13.222	2.527	11.00	11.554	2.420	11.00	10.944	2.584
	13.20	14.454	2.841	12.10	12.635	2.716	12.10	11.967	2.899
	14.40	15.670	3.162	13.20	13.703	3.023	13.20	12.978	3.226
	15.60	16.870	3.499	14.30	14.759	3.335	14.30	13.976	3.558
	16.80	18.054	3.847	15.40	15.802	3.663	15.40	14.961	3.908
	18.00	19.222	4.213	16.50	16.832	4.004	16.50	15.934	4.270
	19.20	20.376	4.586	17.60	17.849	4.356	17.60	16.896	4.646
	20.40	21.514	4.978	18.70	18.854	4.717	18.70	17.844	5.034
	21.60	22.637	5.386	19.80	19.846	5.091	19.80	18.781	5.436
	22.80	23.745	5.809	20.90	20.826	5.482	20.90	19.705	5.853
	24.00	24.838	6.243	22.00	21.794	5.885	22.00	20.619	6.283
	25.20	25.916	6.696	23.10	22.749	6.303	23.10	21.521	6.728
	26.40	26.980	7.168	24.20	23.692	6.734	24.20	22.410	7.196
	27.60	28.029	7.657	25.30	24.623	7.182	25.30	23.288	7.674
	28.80	29.063	8.164	26.40	25.543	7.644	26.40	24.155	8.169
	30.00	30.083	8.690	27.50	26.451	8.121	27.50	25.010	8.681
	31.20	31.089	9.236	28.60	27.347	8.618	28.60	25.854	9.215
	32.40	32.082	9.800	29.70	28.232	9.133	29.70	26.687	9.761
	33.60	33.060	10.389	30.80	29.104	9.662	30.80	27.509	10.332
	34.80	34.024	11.000	31.90	29.966	10.208	31.90	28.319	10.921
585.00	67.871		580.00	63.007		575.00	58.406		
	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
	1.00	0.995	0.208	1.00	0.941	0.225	1.00	0.889	0.239
	2.00	1.978	0.426	2.00	1.872	0.458	2.00	1.769	0.467
	3.00	2.951	0.653	3.00	2.792	0.700	3.00	2.638	0.744
	4.00	3.913	0.883	4.00	3.702	0.944	4.00	3.496	1.009
	5.00	4.865	1.124	5.00	4.601	1.201	5.00	4.345	1.264
	6.00	5.806	1.374	6.00	5.490	1.467	6.00	5.185	1.568
	7.00	6.737	1.633	7.00	6.370	1.743	7.00	6.015	1.861
	8.00	7.657	1.901	8.00	7.239	2.028	8.00	6.835	2.164
	9.00	8.567	2.173	9.00	8.098	2.322	9.00	7.645	2.484
	10.00	9.466	2.457	10.00	8.947	2.626	10.00	8.446	2.810
	11.00	10.355	2.752	11.00	9.786	2.941	11.00	9.237	3.146
	12.00	11.234	3.056	12.00	10.616	3.266	12.00	10.019	3.493
	13.00	12.104	3.371	13.00	11.436	3.601	13.00	10.791	3.857
	14.00	12.962	3.696	14.00	12.247	3.953	14.00	11.554	4.230
	15.00	13.811	4.031	15.00	13.047	4.313	15.00	12.308	4.612
	16.00	14.651	4.378	16.00	13.838	4.683	16.00	13.053	5.014
	17.00	15.481	4.735	17.00	14.620	5.065	17.00	13.788	5.425
	18.00	16.301	5.104	18.00	15.392	5.466	18.00	14.515	5.847
	19.00	17.111	5.491	19.00	16.155	5.875	19.00	15.233	6.289
	20.00	17.911	5.885	20.00	16.909	6.295	20.00	15.942	6.741
	21.00	18.702	6.292	21.00	17.654	6.736	21.00	16.642	7.214
	22.00	19.484	6.711	22.00	18.389	7.186	22.00	17.332	7.696
	23.00	20.257	7.149	23.00	19.116	7.649	23.00	18.015	8.199
	24.00	21.020	7.597	24.00	19.834	8.133	24.00	18.689	8.721
	25.00	21.774	8.057	25.00	20.543	8.628	25.00	19.355	9.252
	26.00	22.519	8.539	26.00	21.243	9.144	26.00	20.012	9.806
	27.00	23.254	9.031	27.00	21.934	9.671	27.00	20.660	10.381
	28.00	23.981	9.536	28.00	22.616	10.221	28.00	21.301	10.964
	29.00	24.698	10.064	29.00	23.290	10.789	29.00	21.933	11.574

B FACTORS FOR REFRIGERANT 114

570.00			565.00			560.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.90	0.756	0.229	0.90	0.712	0.244	0.80	0.597	0.236
1.80	1.504	0.465	1.80	1.417	0.496	1.60	1.187	0.477
2.70	2.245	0.709	2.70	2.115	0.760	2.40	1.772	0.722
3.60	2.977	0.963	3.60	2.804	1.031	3.20	2.351	0.974
4.50	3.701	1.226	4.50	3.486	1.308	4.00	2.925	1.239
5.40	4.418	1.494	5.40	4.161	1.595	4.80	3.493	1.506
6.30	5.127	1.770	6.30	4.829	1.896	5.60	4.055	1.784
7.20	5.828	2.054	7.20	5.488	2.200	6.40	4.611	2.070
8.10	6.522	2.354	8.10	6.141	2.514	7.20	5.162	2.360
9.00	7.208	2.657	9.00	6.787	2.843	8.00	5.707	2.664
9.90	7.887	2.968	9.90	7.426	3.178	8.80	6.247	2.978
10.80	8.559	3.295	10.80	8.057	3.527	9.60	6.782	3.295
11.70	9.223	3.629	11.70	8.681	3.884	10.40	7.311	3.621
12.60	9.879	3.970	12.60	9.298	4.253	11.20	7.834	3.960
13.50	10.529	4.324	13.50	9.908	4.637	12.00	8.353	4.311
14.40	11.172	4.692	14.40	10.511	5.032	12.80	8.866	4.663
15.30	11.807	5.065	15.30	11.107	5.433	13.60	9.373	5.028
16.20	12.435	5.457	16.20	11.696	5.853	14.40	9.876	5.407
17.10	13.056	5.854	17.10	12.279	6.287	15.20	10.373	5.796
18.00	13.670	6.268	18.00	12.855	6.725	16.00	10.864	6.197
18.90	14.277	6.697	18.90	13.425	7.183	16.80	11.352	6.601
19.80	14.877	7.132	19.80	13.987	7.656	17.60	11.834	7.019
20.70	15.470	7.582	20.70	14.543	8.145	18.40	12.310	7.452
21.60	16.056	8.050	21.60	15.093	8.643	19.20	12.782	7.897
22.50	16.636	8.529	22.50	15.636	9.155	20.00	13.248	8.354
23.40	17.209	9.017	23.40	16.173	9.688	20.80	13.710	8.824
24.30	17.775	9.527	24.30	16.702	10.237	21.60	14.166	9.305
25.20	18.335	10.051	25.20	17.226	10.803	22.40	14.618	9.800
26.10	18.888	10.593	26.10	17.744	11.385	23.20	15.065	10.308

555.00			550.00			545.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.80	0.561	0.252	0.80	0.526	0.269	0.70	0.432	0.255
1.60	1.116	0.509	1.60	1.047	0.549	1.40	0.860	0.513
2.40	1.665	0.773	2.40	1.563	0.834	2.10	1.284	0.774
3.20	2.209	1.048	3.20	2.073	1.123	2.80	1.705	1.047
4.00	2.747	1.333	4.00	2.578	1.427	3.50	2.121	1.328
4.80	3.281	1.619	4.80	3.078	1.740	4.20	2.533	1.616
5.60	3.808	1.916	5.60	3.572	2.063	4.90	2.941	1.912
6.40	4.330	2.225	6.40	4.062	2.393	5.60	3.346	2.216
7.20	4.847	2.543	7.20	4.547	2.726	6.30	3.747	2.527
8.00	5.359	2.862	8.00	5.026	3.077	7.00	4.144	2.846
8.80	5.866	3.196	8.80	5.500	3.437	7.70	4.537	3.173
9.60	6.366	3.541	9.60	5.968	3.808	8.40	4.927	3.509
10.40	6.862	3.897	10.40	6.432	4.190	9.10	5.313	3.853
11.20	7.353	4.262	11.20	6.892	4.583	9.80	5.695	4.206
12.00	7.839	4.630	12.00	7.346	4.987	10.50	6.074	4.568
12.80	8.320	5.013	12.80	7.795	5.402	11.20	6.449	4.939
13.60	8.795	5.410	13.60	8.239	5.829	11.90	6.820	5.318
14.40	9.265	5.817	14.40	8.679	6.268	12.60	7.187	5.713
15.20	9.730	6.236	15.20	9.114	6.719	13.30	7.552	6.119
16.00	10.190	6.666	16.00	9.544	7.184	14.00	7.912	6.529
16.80	10.646	7.108	16.80	9.969	7.659	14.70	8.269	6.949
17.60	11.096	7.562	17.60	10.389	8.155	15.40	8.623	7.379
18.40	11.542	8.029	18.40	10.805	8.666	16.10	8.974	7.820
19.20	11.983	8.510	19.20	11.216	9.184	16.80	9.320	8.271
20.00	12.419	9.002	20.00	11.623	9.717	17.50	9.663	8.739
20.80	12.850	9.509	20.80	12.026	10.265	18.20	10.003	9.221
21.60	13.276	10.028	21.60	12.423	10.827	18.90	10.340	9.709
22.40	13.698	10.565	22.40	12.816	11.407	19.60	10.673	10.206
23.20	14.115	11.123	23.20	13.205	12.012	20.30	11.002	10.718

B FACTORS FOR REFRIGERANT 114

540.00			535.00			530.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.70	0.404	0.272	0.60	0.324	0.251	0.60	0.302	0.270
1.40	0.805	0.552	1.20	0.645	0.507	1.20	0.602	0.547
2.10	1.201	0.839	1.80	0.963	0.768	1.80	0.899	0.828
2.80	1.594	1.134	2.40	1.279	1.039	2.40	1.193	1.120
3.50	1.983	1.436	3.00	1.592	1.320	3.00	1.485	1.423
4.20	2.369	1.747	3.60	1.903	1.603	3.60	1.775	1.729
4.90	2.750	2.065	4.20	2.211	1.891	4.20	2.062	2.039
5.60	3.128	2.392	4.80	2.517	2.184	4.80	2.346	2.355
6.30	3.503	2.727	5.40	2.820	2.485	5.40	2.627	2.682
7.00	3.873	3.070	6.00	3.120	2.792	6.00	2.907	3.022
7.70	4.241	3.429	6.60	3.418	3.105	6.60	3.184	3.363
8.40	4.604	3.796	7.20	3.713	3.427	7.20	3.459	3.711
9.10	4.964	4.168	7.80	4.006	3.763	7.80	3.731	4.074
9.80	5.321	4.549	8.40	4.296	4.103	8.40	4.001	4.442
10.50	5.675	4.939	9.00	4.584	4.447	9.00	4.269	4.814
11.20	6.024	5.340	9.60	4.869	4.797	9.60	4.534	5.193
11.90	6.370	5.750	10.20	5.152	5.156	10.20	4.797	5.583
12.60	6.713	6.177	10.80	5.432	5.530	10.80	5.057	5.989
13.30	7.052	6.616	11.40	5.710	5.910	11.40	5.316	6.401
14.00	7.389	7.060	12.00	5.986	6.293	12.00	5.572	6.822
14.70	7.721	7.512	12.60	6.259	6.690	12.60	5.825	7.249
15.40	8.050	7.981	13.20	6.529	7.097	13.20	6.076	7.688
16.10	8.376	8.467	13.80	6.798	7.508	13.80	6.325	8.142
16.80	8.699	8.958	14.40	7.064	7.926	14.40	6.572	8.601
17.50	9.018	9.464	15.00	7.328	8.353	15.00	6.817	9.065
18.20	9.334	9.987	15.60	7.589	8.795	15.60	7.059	9.545
18.90	9.647	10.516	16.20	7.848	9.250	16.20	7.300	10.039
19.60	9.957	11.056	16.80	8.105	9.710	16.80	7.537	10.546
20.30	10.263	11.612	17.40	8.359	10.177	17.40	7.773	11.058

525.00			520.00			515.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.60	0.281	0.297	0.50	0.218	0.265	0.46	0.186	0.264
1.20	0.560	0.601	1.00	0.434	0.539	0.92	0.371	0.536
1.80	0.836	0.907	1.50	0.649	0.818	1.38	0.554	0.813
2.40	1.110	1.222	2.00	0.862	1.103	1.84	0.736	1.097
3.00	1.381	1.550	2.50	1.074	1.388	2.30	0.917	1.383
3.60	1.651	1.880	3.00	1.283	1.678	2.76	1.097	1.668
4.20	1.918	2.216	3.50	1.492	1.979	3.22	1.275	1.961
4.80	2.182	2.558	4.00	1.698	2.287	3.68	1.452	2.264
5.40	2.444	2.912	4.50	1.903	2.596	4.14	1.628	2.573
6.00	2.704	3.280	5.00	2.107	2.909	4.60	1.803	2.888
6.60	2.961	3.655	5.50	2.310	3.232	5.06	1.976	3.209
7.20	3.217	4.035	6.00	2.510	3.565	5.52	2.148	3.536
7.80	3.469	4.423	6.50	2.709	3.905	5.98	2.318	3.870
8.40	3.720	4.822	7.00	2.906	4.251	6.44	2.488	4.205
9.00	3.968	5.234	7.50	3.102	4.599	6.90	2.656	4.542
9.60	4.214	5.649	8.00	3.297	4.950	7.36	2.824	4.889
10.20	4.458	6.072	8.50	3.490	5.314	7.82	2.990	5.246
10.80	4.700	6.511	9.00	3.682	5.687	8.28	3.155	5.610
11.40	4.940	6.961	9.50	3.872	6.068	8.74	3.318	5.981
12.00	5.176	7.423	10.00	4.060	6.456	9.20	3.480	6.359
12.60	5.411	7.887	10.50	4.247	6.852	9.66	3.641	6.743
13.20	5.645	8.360	11.00	4.433	7.256	10.12	3.801	7.134
13.80	5.876	8.852	11.50	4.617	7.661	10.58	3.960	7.532
14.40	6.104	9.356	12.00	4.800	8.072	11.04	4.118	7.937
15.00	6.330	9.870	12.50	4.982	8.496	11.50	4.274	8.350
15.60	6.555	10.398	13.00	5.162	8.931	11.96	4.430	8.770
16.20	6.777	10.936	13.50	5.340	9.374	12.42	4.584	9.198
16.80	6.997	11.477	14.00	5.517	9.826	12.88	4.736	9.634
17.40	7.215	12.034	14.50	5.692	10.286	13.34	4.888	10.077

B FACTORS FOR REFRIGERANT 114

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		
510.00	18.658		505.00	16.851		500.00	15.183		
	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
	0.44	0.165	0.278	0.40	0.138	0.274	0.38	0.121	0.283
	0.88	0.328	0.561	0.80	0.276	0.552	0.76	0.241	0.571
	1.32	0.491	0.846	1.20	0.413	0.835	1.14	0.361	0.863
	1.76	0.652	1.131	1.60	0.549	1.122	1.52	0.480	1.161
	2.20	0.812	1.423	2.00	0.684	1.415	1.90	0.598	1.463
	2.64	0.972	1.725	2.40	0.818	1.712	2.28	0.716	1.770
	3.08	1.130	2.033	2.80	0.950	2.015	2.66	0.832	2.082
	3.52	1.287	2.348	3.20	1.082	2.322	3.04	0.948	2.398
	3.96	1.442	2.667	3.60	1.214	2.635	3.42	1.063	2.720
	4.40	1.597	2.993	4.00	1.345	2.952	3.80	1.178	3.048
	4.84	1.751	3.324	4.40	1.475	3.275	4.18	1.292	3.380
	5.28	1.903	3.661	4.80	1.604	3.604	4.56	1.405	3.718
	5.72	2.055	4.004	5.20	1.732	3.938	4.94	1.518	4.061
	6.16	2.206	4.353	5.60	1.859	4.277	5.32	1.629	4.410
	6.60	2.355	4.709	6.00	1.985	4.622	5.70	1.740	4.762
	7.04	2.503	5.071	6.40	2.110	4.972	6.08	1.850	5.122
	7.48	2.650	5.439	6.80	2.235	5.329	6.46	1.960	5.493
	7.92	2.796	5.814	7.20	2.359	5.691	6.84	2.069	5.873
	8.36	2.941	6.195	7.60	2.482	6.059	7.22	2.177	6.256
	8.80	3.086	6.583	8.00	2.604	6.433	7.60	2.284	6.640
	9.24	3.229	6.978	8.40	2.725	6.813	7.98	2.391	7.030
	9.68	3.372	7.380	8.80	2.846	7.200	8.36	2.497	7.426
	10.12	3.513	7.790	9.20	2.966	7.592	8.74	2.602	7.827
	10.56	3.652	8.206	9.60	3.085	7.992	9.12	2.707	8.235
	11.00	3.791	8.629	10.00	3.203	8.397	9.50	2.811	8.648
	11.44	3.929	9.060	10.40	3.321	8.809	9.88	2.914	9.068
	11.88	4.066	9.499	10.80	3.437	9.226	10.26	3.016	9.498
	12.32	4.202	9.945	11.20	3.553	9.653	10.64	3.118	9.942
	12.76	4.337	10.399	11.60	3.668	10.094	11.02	3.219	10.391

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		
495.00	13.648		490.00	12.237		485.00	10.943		
	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
	0.36	0.106	0.293	0.32	0.086	0.287	0.30	0.074	0.295
	0.72	0.211	0.588	0.64	0.172	0.584	0.60	0.148	0.600
	1.08	0.315	0.891	0.96	0.257	0.883	0.90	0.221	0.907
	1.44	0.419	1.202	1.28	0.342	1.185	1.20	0.294	1.217
	1.80	0.522	1.522	1.60	0.426	1.487	1.50	0.367	1.527
	2.16	0.625	1.844	1.92	0.510	1.792	1.80	0.439	1.839
	2.52	0.727	2.168	2.24	0.594	2.102	2.10	0.511	2.157
	2.88	0.828	2.494	2.56	0.676	2.415	2.40	0.582	2.483
	3.24	0.928	2.826	2.88	0.759	2.733	2.70	0.653	2.818
	3.60	1.028	3.163	3.20	0.841	3.058	3.00	0.723	3.155
	3.96	1.127	3.505	3.52	0.922	3.392	3.30	0.793	3.495
	4.32	1.226	3.852	3.84	1.004	3.732	3.60	0.863	3.832
	4.68	1.324	4.203	4.16	1.084	4.075	3.90	0.933	4.176
	5.04	1.422	4.561	4.48	1.164	4.418	4.20	1.002	4.526
	5.40	1.519	4.929	4.80	1.244	4.763	4.50	1.070	4.886
	5.76	1.615	5.307	5.12	1.323	5.115	4.80	1.138	5.253
	6.12	1.710	5.689	5.44	1.402	5.477	5.10	1.206	5.622
	6.48	1.806	6.072	5.76	1.480	5.847	5.40	1.273	5.992
	6.84	1.900	6.459	6.08	1.558	6.220	5.70	1.340	6.363
	7.20	1.994	6.851	6.40	1.636	6.594	6.00	1.407	6.741
	7.56	2.087	7.248	6.72	1.713	6.969	6.30	1.474	7.126
	7.92	2.180	7.652	7.04	1.790	7.351	6.60	1.540	7.520
	8.28	2.272	8.065	7.36	1.866	7.741	6.90	1.606	7.920
	8.64	2.364	8.491	7.68	1.942	8.143	7.20	1.671	8.326
	9.00	2.455	8.922	8.00	2.017	8.549	7.50	1.736	8.738
	9.36	2.546	9.357	8.32	2.092	8.957	7.80	1.800	9.156
	9.72	2.635	9.791	8.64	2.166	9.364	8.10	1.864	9.577
	10.08	2.724	10.234	8.96	2.240	9.778	8.40	1.928	9.999
	10.44	2.813	10.690	9.28	2.313	10.201	8.70	1.992	10.422

B FACTORS FOR REFRIGERANT 114

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
480.00	9.760		475.00	8.680		470.00	7.698	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.28	0.063	0.305	0.26	0.053	0.314	0.24	0.045	0.320
0.56	0.126	0.608	0.52	0.106	0.632	0.48	0.089	0.644
0.84	0.188	0.915	0.78	0.159	0.954	0.72	0.134	0.972
1.12	0.251	1.228	1.04	0.211	1.279	0.96	0.178	1.304
1.40	0.313	1.548	1.30	0.264	1.609	1.20	0.222	1.639
1.68	0.374	1.875	1.56	0.316	1.945	1.44	0.266	1.978
1.96	0.436	2.206	1.82	0.368	2.284	1.68	0.309	2.321
2.24	0.497	2.542	2.08	0.419	2.625	1.92	0.353	2.668
2.52	0.557	2.883	2.34	0.471	2.968	2.16	0.396	3.019
2.80	0.617	3.229	2.60	0.522	3.309	2.40	0.439	3.374
3.08	0.677	3.576	2.86	0.572	3.655	2.64	0.482	3.733
3.36	0.737	3.926	3.12	0.623	4.008	2.88	0.524	4.096
3.64	0.796	4.274	3.38	0.673	4.367	3.12	0.567	4.463
3.92	0.855	4.628	3.64	0.724	4.734	3.36	0.609	4.835
4.20	0.914	4.989	3.90	0.774	5.106	3.60	0.651	5.210
4.48	0.973	5.358	4.16	0.823	5.483	3.84	0.692	5.590
4.76	1.031	5.734	4.42	0.873	5.863	4.08	0.734	5.974
5.04	1.089	6.115	4.68	0.922	6.248	4.32	0.775	6.363
5.32	1.146	6.500	4.94	0.971	6.638	4.56	0.816	6.755
5.60	1.203	6.890	5.20	1.020	7.032	4.80	0.857	7.153
5.88	1.260	7.285	5.46	1.068	7.432	5.04	0.898	7.555
6.16	1.316	7.685	5.72	1.116	7.835	5.28	0.939	7.961
6.44	1.372	8.092	5.98	1.164	8.244	5.52	0.980	8.372
6.72	1.428	8.504	6.24	1.211	8.658	5.76	1.020	8.787
7.00	1.484	8.919	6.50	1.259	9.077	6.00	1.060	9.207
7.28	1.539	9.337	6.76	1.306	9.500	6.24	1.100	9.632
7.56	1.594	9.753	7.02	1.353	9.929	6.48	1.139	10.062
7.84	1.649	10.175	7.28	1.400	10.363	6.72	1.179	10.496
8.12	1.704	10.605	7.54	1.446	10.802	6.96	1.218	10.935
465.00	6.806		460.00	5.999		455.00	5.270	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.22	0.037	0.325	0.20	0.031	0.329	0.18	0.025	0.331
0.44	0.075	0.654	0.40	0.061	0.659	0.36	0.050	0.668
0.66	0.112	0.986	0.60	0.092	0.992	0.54	0.074	1.013
0.88	0.148	1.322	0.80	0.122	1.330	0.72	0.098	1.361
1.10	0.185	1.662	1.00	0.152	1.672	0.90	0.123	1.710
1.32	0.221	2.005	1.20	0.182	2.019	1.08	0.147	2.061
1.54	0.257	2.352	1.40	0.212	2.374	1.26	0.171	2.414
1.76	0.293	2.702	1.60	0.242	2.736	1.44	0.195	2.767
1.98	0.329	3.057	1.80	0.272	3.100	1.62	0.219	3.122
2.20	0.365	3.415	2.00	0.301	3.466	1.80	0.243	3.479
2.42	0.401	3.777	2.20	0.330	3.834	1.98	0.267	3.841
2.64	0.436	4.143	2.40	0.360	4.203	2.16	0.291	4.205
2.86	0.471	4.512	2.60	0.389	4.574	2.34	0.315	4.573
3.08	0.506	4.886	2.80	0.417	4.947	2.52	0.338	4.941
3.30	0.541	5.263	3.00	0.446	5.325	2.70	0.362	5.314
3.52	0.576	5.645	3.20	0.475	5.706	2.88	0.385	5.691
3.74	0.611	6.031	3.40	0.504	6.091	3.06	0.409	6.073
3.96	0.645	6.420	3.60	0.532	6.480	3.24	0.432	6.461
4.18	0.680	6.814	3.80	0.561	6.873	3.42	0.455	6.856
4.40	0.714	7.212	4.00	0.589	7.269	3.60	0.478	7.258
4.62	0.748	7.614	4.20	0.617	7.670	3.78	0.502	7.662
4.84	0.782	8.021	4.40	0.645	8.073	3.96	0.525	8.069
5.06	0.816	8.432	4.60	0.673	8.478	4.14	0.547	8.477
5.28	0.849	8.847	4.80	0.701	8.889	4.32	0.570	8.888
5.50	0.883	9.263	5.00	0.729	9.306	4.50	0.593	9.295
5.72	0.916	9.686	5.20	0.757	9.729	4.68	0.615	9.707
5.94	0.949	10.114	5.40	0.784	10.159	4.86	0.637	10.124
6.16	0.983	10.548	5.60	0.811	10.599	5.04	0.660	10.546
6.38	1.015	10.991	5.80	0.838	11.041	5.22	0.682	10.973

B FACTORS FOR REFRIGERANT 114

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
450.00	4.616		445.00	4.028		440.00	3.503	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.16	0.020	0.329	0.14	0.016	0.323	0.14	0.014	0.369
0.32	0.039	0.662	0.28	0.031	0.649	0.28	0.028	0.741
0.48	0.059	1.004	0.42	0.047	0.980	0.42	0.042	1.115
0.64	0.079	1.349	0.56	0.062	1.315	0.56	0.055	1.493
0.80	0.098	1.695	0.70	0.077	1.653	0.70	0.069	1.873
0.96	0.118	2.043	0.84	0.092	1.994	0.84	0.083	2.257
1.12	0.137	2.393	0.98	0.108	2.336	0.98	0.097	2.643
1.28	0.157	2.745	1.12	0.123	2.682	1.12	0.110	3.032
1.44	0.176	3.094	1.26	0.138	3.030	1.26	0.124	3.424
1.60	0.195	3.444	1.40	0.153	3.382	1.40	0.137	3.819
1.76	0.214	3.799	1.54	0.168	3.737	1.54	0.151	4.217
1.92	0.233	4.158	1.68	0.183	4.095	1.68	0.164	4.619
2.08	0.252	4.521	1.82	0.198	4.460	1.82	0.177	5.023
2.24	0.271	4.888	1.96	0.213	4.820	1.96	0.191	5.430
2.40	0.290	5.261	2.10	0.228	5.177	2.10	0.204	5.840
2.56	0.309	5.639	2.24	0.243	5.541	2.24	0.217	6.254
2.72	0.328	6.020	2.38	0.258	5.904	2.38	0.230	6.672
2.88	0.346	6.405	2.52	0.273	6.266	2.52	0.243	7.094
3.04	0.365	6.793	2.66	0.287	6.628	2.66	0.257	7.527
3.20	0.384	7.184	2.80	0.302	6.997	2.80	0.270	7.954
3.36	0.402	7.578	2.94	0.316	7.370	2.94	0.283	8.382
3.52	0.421	7.979	3.08	0.331	7.750	3.08	0.296	8.811
3.68	0.439	8.381	3.22	0.345	8.130	3.22	0.308	9.240
3.84	0.457	8.785	3.36	0.360	8.516	3.36	0.321	9.673
4.00	0.475	9.192	3.50	0.374	8.907	3.50	0.334	10.104
4.16	0.493	9.600	3.64	0.389	9.301	3.64	0.347	10.535
4.32	0.512	10.011	3.78	0.403	9.698	3.78	0.359	10.974
4.48	0.530	10.417	3.92	0.417	10.098	3.92	0.372	11.419
4.64	0.548	10.828	4.06	0.431	10.501	4.06	0.384	11.868

435.00	3.034		430.00	2.619		425.00	2.251	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.12	0.010	0.357	0.10	0.008	0.337	0.10	0.007	0.387
0.24	0.021	0.716	0.20	0.016	0.676	0.20	0.014	0.777
0.36	0.032	1.077	0.30	0.023	1.016	0.30	0.021	1.172
0.48	0.042	1.438	0.40	0.031	1.359	0.40	0.027	1.574
0.60	0.052	1.795	0.50	0.039	1.704	0.50	0.034	1.981
0.72	0.063	2.162	0.60	0.047	2.050	0.60	0.041	2.389
0.84	0.073	2.534	0.70	0.054	2.399	0.70	0.048	2.796
0.96	0.083	2.909	0.80	0.062	2.749	0.80	0.055	3.204
1.08	0.094	3.289	0.90	0.070	3.102	0.90	0.062	3.613
1.20	0.104	3.675	1.00	0.077	3.456	1.00	0.068	4.023
1.32	0.114	4.060	1.10	0.085	3.813	1.10	0.075	4.434
1.44	0.124	4.455	1.20	0.093	4.172	1.20	0.082	4.846
1.56	0.135	4.855	1.30	0.100	4.532	1.30	0.089	5.258
1.68	0.145	5.255	1.40	0.108	4.893	1.40	0.095	5.667
1.80	0.155	5.655	1.50	0.116	5.248	1.50	0.102	6.076
1.92	0.166	6.057	1.60	0.123	5.611	1.60	0.109	6.490
2.04	0.176	6.460	1.70	0.131	5.978	1.70	0.115	6.908
2.16	0.186	6.864	1.80	0.138	6.348	1.80	0.122	7.331
2.28	0.196	7.270	1.90	0.146	6.722	1.90	0.129	7.758
2.40	0.206	7.677	2.00	0.153	7.100	2.00	0.135	8.188
2.52	0.216	8.085	2.10	0.161	7.481	2.10	0.142	8.623
2.64	0.225	8.496	2.20	0.168	7.865	2.20	0.148	9.061
2.76	0.235	8.909	2.30	0.175	8.253	2.30	0.155	9.504
2.88	0.245	9.325	2.40	0.183	8.645	2.40	0.161	9.956
3.00	0.255	9.744	2.50	0.190	9.045	2.50	0.168	10.413
3.12	0.265	10.166	2.60	0.198	9.444	2.60	0.174	10.869
3.24	0.275	10.590	2.70	0.205	9.844	2.70	0.180	11.327
3.36	0.284	11.017	2.80	0.212	10.245	2.80	0.187	11.785
3.48	0.294	11.447	2.90	0.219	10.647	2.90	0.193	12.244

Appendix G: B-factors for water, calculated from eq (5).

B FACTORS FOR WATER

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
1160.00	3101.091		1150.00	2902.068		1140.00	2714.595	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
4.80	97.056	0.264	5.00	95.141	0.160	5.00	89.665	0.139
9.60	191.286	0.479	10.00	187.473	0.321	10.00	176.740	0.287
14.40	282.906	0.682	15.00	277.138	0.489	15.00	261.395	0.449
19.20	371.917	0.882	20.00	364.212	0.667	20.00	343.553	0.617
24.00	458.428	1.087	25.00	448.868	0.858	25.00	423.447	0.788
28.80	542.601	1.301	30.00	531.026	1.056	30.00	501.147	0.969
33.60	624.436	1.529	35.00	610.920	1.257	35.00	576.578	1.161
38.40	704.033	1.766	40.00	688.620	1.469	40.00	649.931	1.366
43.20	781.473	2.001	45.00	764.050	1.693	45.00	721.253	1.583
48.00	856.780	2.249	50.00	837.403	1.930	50.00	790.585	1.813
52.80	930.100	2.508	55.00	908.726	2.180	55.00	857.951	2.056
57.60	1001.506	2.779	60.00	978.058	2.445	60.00	923.435	2.314
62.40	1070.890	3.066	65.00	1045.423	2.724	65.00	987.148	2.589
67.20	1138.465	3.365	70.00	1110.908	3.019	70.00	1048.966	2.880
72.00	1204.240	3.680	75.00	1174.621	3.333	75.00	1109.168	3.188
76.80	1268.274	4.013	80.00	1236.439	3.664	80.00	1167.604	3.515
81.60	1330.556	4.361	85.00	1296.640	4.014	85.00	1224.332	3.861
86.40	1391.158	4.728	90.00	1355.077	4.384	90.00	1279.519	4.230
91.20	1450.110	5.115	95.00	1411.805	4.776	95.00	1333.041	4.618
96.00	1507.501	5.523	100.00	1466.991	5.192	100.00	1385.051	5.032
100.80	1563.267	5.949	105.00	1520.514	5.628	105.00	1435.529	5.471
105.60	1617.549	6.398	110.00	1572.524	6.093	110.00	1484.532	5.934
110.40	1670.345	6.875	115.00	1623.002	6.586	115.00	1532.085	6.430
115.20	1721.638	7.372	120.00	1672.005	7.104	120.00	1578.220	6.951
120.00	1771.547	7.899	125.00	1719.558	7.658	125.00	1622.962	7.507
124.80	1820.035	8.455	130.00	1765.692	8.240	130.00	1666.349	8.094
129.60	1867.162	9.038	135.00	1810.435	8.860	135.00	1708.406	8.724
134.40	1912.949	9.656	140.00	1853.821	9.512	140.00	1749.161	9.385
139.20	1957.428	10.305	145.00	1895.878	10.212	145.00	1788.642	10.092
1130.00	2537.855		1120.00	2371.042		1110.00	2213.448	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
5.00	84.655	0.137	5.00	79.894	0.125	4.90	73.943	0.124
10.00	166.814	0.282	10.00	157.594	0.260	9.80	145.892	0.257
15.00	246.708	0.428	15.00	233.025	0.405	14.70	215.876	0.400
20.00	324.408	0.585	20.00	306.377	0.561	19.60	283.956	0.552
25.00	399.838	0.752	25.00	377.700	0.726	24.50	350.124	0.716
30.00	473.191	0.930	30.00	447.032	0.903	29.40	414.529	0.891
35.00	544.513	1.120	35.00	514.397	1.092	34.30	477.170	1.079
40.00	613.845	1.321	40.00	579.882	1.294	39.20	538.030	1.279
45.00	681.211	1.536	45.00	643.595	1.510	44.10	597.309	1.491
50.00	746.696	1.764	50.00	705.413	1.740	49.00	654.919	1.720
55.00	810.408	2.007	55.00	765.615	1.985	53.90	710.805	1.964
60.00	872.227	2.266	60.00	824.051	2.246	58.80	765.298	2.223
65.00	932.428	2.540	65.00	880.779	2.524	63.70	818.150	2.498
70.00	990.865	2.832	70.00	935.965	2.821	68.60	869.531	2.791
75.00	1047.593	3.142	75.00	989.488	3.135	73.50	919.396	3.106
80.00	1102.779	3.473	80.00	1041.498	3.471	78.40	967.870	3.439
85.00	1156.301	3.821	85.00	1091.976	3.829	83.30	1014.931	3.794
90.00	1208.312	4.194	90.00	1140.979	4.207	88.20	1060.624	4.172
95.00	1258.790	4.590	95.00	1188.532	4.614	93.10	1104.970	4.575
100.00	1307.793	5.008	100.00	1234.666	5.043	98.00	1148.006	5.005
105.00	1355.345	5.456	105.00	1279.409	5.502	102.90	1189.750	5.462
110.00	1401.480	5.928	110.00	1322.796	5.988	107.80	1230.243	5.949
115.00	1446.222	6.433	115.00	1364.853	6.511	112.70	1269.489	6.464
120.00	1489.609	6.966	120.00	1405.607	7.061	117.60	1307.540	7.014
125.00	1531.666	7.540	125.00	1445.089	7.652	122.50	1344.397	7.602
130.00	1572.421	8.141	130.00	1483.332	8.279	127.40	1380.108	8.224
135.00	1611.902	8.787	135.00	1520.354	8.949	132.30	1414.689	8.894
140.00	1650.145	9.471	140.00	1556.188	9.662	137.20	1448.162	9.603
145.00	1687.167	10.201	145.00	1590.861	10.421	142.10	1480.553	10.361

B FACTORS FOR WATER

TF1 (R)			PF1 (PSIA)			TF1 (R)			PF1 (PSIA)			TF1 (R)			PF1 (PSIA)		
1100.00			2064.664			1090.00			1924.010			1080.00			1791.160		
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B			
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000			
4.80	68.504	0.123	4.70	63.361	0.123	4.70	63.361	0.123	4.50	57.409	0.123	4.50	57.409	0.123			
9.60	135.173	0.255	9.40	125.091	0.256	9.40	125.091	0.256	9.00	113.290	0.254	9.00	113.290	0.254			
14.40	200.002	0.396	14.10	185.211	0.399	14.10	185.211	0.399	13.50	167.866	0.394	13.50	167.866	0.394			
19.20	263.155	0.549	18.80	243.685	0.552	18.80	243.685	0.552	18.00	221.019	0.545	18.00	221.019	0.545			
24.00	324.604	0.712	23.50	300.716	0.716	23.50	300.716	0.716	22.50	272.689	0.708	22.50	272.689	0.708			
28.80	384.340	0.867	28.20	356.198	0.891	28.20	356.198	0.891	27.00	323.197	0.879	27.00	323.197	0.879			
33.60	442.564	1.073	32.90	410.071	1.080	32.90	410.071	1.080	31.50	372.249	1.065	31.50	372.249	1.065			
38.40	499.178	1.273	37.60	462.678	1.280	37.60	462.678	1.280	36.00	420.102	1.260	36.00	420.102	1.260			
43.20	554.120	1.467	42.30	513.688	1.496	42.30	513.688	1.496	40.50	466.727	1.469	40.50	466.727	1.469			
48.00	607.739	1.714	47.00	563.453	1.723	47.00	563.453	1.723	45.00	512.094	1.693	45.00	512.094	1.693			
52.80	659.729	1.957	51.70	611.791	1.967	51.70	611.791	1.967	49.50	556.264	1.929	49.50	556.264	1.929			
57.60	710.379	2.215	56.40	658.811	2.228	56.40	658.811	2.228	54.00	599.253	2.184	54.00	599.253	2.184			
62.40	759.532	2.491	61.10	704.535	2.504	61.10	704.535	2.504	58.50	641.090	2.451	58.50	641.090	2.451			
67.20	807.344	2.786	65.80	748.977	2.803	65.80	748.977	2.803	63.00	681.791	2.739	63.00	681.791	2.739			
72.00	853.799	3.097	70.50	792.170	3.115	70.50	792.170	3.115	67.50	721.387	3.045	67.50	721.387	3.045			
76.80	898.925	3.433	75.20	834.139	3.451	75.20	834.139	3.451	72.00	759.888	3.369	72.00	759.888	3.369			
81.60	942.751	3.786	79.90	874.909	3.807	79.90	874.909	3.807	76.50	797.335	3.714	76.50	797.335	3.714			
86.40	985.316	4.166	84.60	914.504	4.191	84.60	914.504	4.191	81.00	833.722	4.080	81.00	833.722	4.080			
91.20	1026.628	4.568	89.30	952.948	4.594	89.30	952.948	4.594	85.50	869.086	4.471	85.50	869.086	4.471			
96.00	1066.731	4.998	94.00	990.262	5.025	94.00	990.262	5.025	90.00	903.450	4.886	90.00	903.450	4.886			
100.80	1105.631	5.453	98.70	1026.480	5.484	98.70	1026.480	5.484	94.50	936.823	5.329	94.50	936.823	5.329			
105.60	1143.365	5.941	103.40	1061.604	5.976	103.40	1061.604	5.976	99.00	969.233	5.797	99.00	969.233	5.797			
110.40	1179.960	6.459	108.10	1095.679	6.492	108.10	1095.679	6.492	103.50	1000.699	6.295	103.50	1000.699	6.295			
115.20	1215.433	7.011	112.80	1128.717	7.050	112.80	1128.717	7.050	108.00	1031.236	6.825	108.00	1031.236	6.825			
120.00	1249.810	7.600	117.50	1160.738	7.640	117.50	1160.738	7.640	112.50	1060.863	7.392	112.50	1060.863	7.392			
124.80	1283.119	8.225	122.20	1191.766	8.272	122.20	1191.766	8.272	117.00	1089.604	7.986	117.00	1089.604	7.986			
129.60	1315.379	8.886	126.90	1221.825	8.936	126.90	1221.825	8.936	121.50	1117.463	8.627	121.50	1117.463	8.627			
134.40	1346.612	9.601	131.60	1250.923	9.652	131.60	1250.923	9.652	126.00	1144.482	9.301	126.00	1144.482	9.301			
139.20	1376.835	10.357	136.30	1279.103	10.409	136.30	1279.103	10.409	130.50	1170.653	10.027	130.50	1170.653	10.027			

TF1 (R)			PF1 (PSIA)			TF1 (R)			PF1 (PSIA)			TF1 (R)			PF1 (PSIA)		
1070.00			1665.629			1060.00			1546.991			1050.00			1435.076		
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B			
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000			
4.40	53.063	0.124	4.30	48.853	0.127	4.30	48.853	0.127	4.20	45.097	0.129	4.20	45.097	0.129			
8.80	104.784	0.258	8.60	96.651	0.263	8.60	96.651	0.263	8.40	89.098	0.269	8.40	89.098	0.269			
13.20	155.084	0.401	12.90	143.131	0.409	12.90	143.131	0.409	12.60	131.964	0.419	12.60	131.964	0.419			
17.60	204.297	0.554	17.20	188.528	0.564	17.20	188.528	0.564	16.80	173.822	0.579	16.80	173.822	0.579			
22.00	252.088	0.719	21.50	232.742	0.731	21.50	232.742	0.731	21.00	214.642	0.748	21.00	214.642	0.748			
26.40	298.766	0.893	25.80	275.862	0.910	25.80	275.862	0.910	25.20	254.439	0.933	25.20	254.439	0.933			
30.80	344.257	1.079	30.10	317.893	1.099	30.10	317.893	1.099	29.40	293.239	1.125	29.40	293.239	1.125			
35.20	388.551	1.279	34.40	358.849	1.304	34.40	358.849	1.304	33.60	331.051	1.333	33.60	331.051	1.333			
39.60	431.701	1.490	38.70	398.754	1.517	38.70	398.754	1.517	37.80	367.904	1.554	37.80	367.904	1.554			
44.00	473.722	1.718	43.00	437.622	1.748	43.00	437.622	1.748	42.00	403.805	1.788	42.00	403.805	1.788			
48.40	514.641	1.956	47.30	475.482	1.994	47.30	475.482	1.994	46.20	438.788	2.038	46.20	438.788	2.038			
52.80	554.474	2.213	51.60	512.341	2.254	51.60	512.341	2.254	50.40	472.847	2.302	50.40	472.847	2.302			
57.20	593.250	2.488	55.90	548.235	2.531	55.90	548.235	2.531	54.60	506.011	2.586	54.60	506.011	2.586			
61.60	630.979	2.777	60.20	583.160	2.825	60.20	583.160	2.825	58.80	538.304	2.887	58.80	538.304	2.887			
66.00	667.696	3.086	64.50	617.147	3.139	64.50	617.147	3.139	63.00	569.722	3.208	63.00	569.722	3.208			
70.40	703.399	3.413	68.80	650.219	3.473	68.80	650.219	3.473	67.20	600.302	3.545	67.20	600.302	3.545			
74.80	738.121	3.764	73.10	682.374	3.830	73.10	682.374	3.830	71.40	630.049	3.909	71.40	630.049	3.909			
79.20	771.885	4.135	77.40	713.652	4.203	77.40	713.652	4.203	75.60	658.980	4.294	75.60	658.980	4.294			
83.60	804.694	4.532	81.70	744.058	4.607	81.70	744.058	4.607	79.80	687.113	4.698	79.80	687.113	4.698			
88.00	836.584	4.948	86.00	773.608	5.035	86.00	773.608	5.035	84.00	714.460	5.135	84.00	714.460	5.135			
92.40	867.564	5.397	90.30	802.323	5.483	90.30	802.323	5.483	88.20	741.036	5.592	88.20	741.036	5.592			
96.80	897.651	5.873	94.60	830.218	5.967	94.60	830.218	5.967	92.40	766.850	6.083	92.40	766.850	6.083			
101.20	926.865	6.376	98.90	857.303	6.478	98.90	857.303	6.478	96.60	791.935	6.600	96.60	791.935	6.600			
105.60	955.226	6.910	103.20	883.598	7.021	103.20	883.598	7.021	100.80	816.284	7.155	100.80	816.284	7.155			
110.00	982.739	7.485	107.50	909.124	7.598	107.50	909.124	7.598	105.00	839.928	7.739	105.00	839.928	7.739			
114.40	1009.438	8.088	111.80	933.890	8.211	111.80	933.890	8.211	109.20	862.871	8.365	109.20	862.871	8.365			
118.80	1035.328	8.732	116.10	957.917	8.863	116.10	957.917	8.863	113.40	885.129	9.027	113.40	885.129	9.027			
123.20	1060.435	9.412	120.40	981.215	9.557	120.40	981.215	9.557	117.60	906.721	9.728	117.60	906.721	9.728			
127.60	1084.765	10.145	124.70	1003.798	10.296	124.70	1003.798	10.296	121.80	927.651	10.479	121.80	927.651	10.479			

B FACTORS FOR WATER

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
1040.00	1329.544		1030.00	1230.063		1020.00	1136.375	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
4.00	40.504	0.131	3.90	37.213	0.137	3.70	33.239	0.136
8.00	80.062	0.270	7.80	73.559	0.279	7.40	65.734	0.283
12.00	118.679	0.418	11.70	109.049	0.433	11.10	97.491	0.434
16.00	156.374	0.580	15.60	143.708	0.597	14.80	128.529	0.599
20.00	193.168	0.747	19.50	177.538	0.771	18.50	158.853	0.773
24.00	229.070	0.929	23.40	210.555	0.958	22.20	188.467	0.957
28.00	264.102	1.122	27.30	242.784	1.155	25.90	217.397	1.152
32.00	298.272	1.326	31.20	274.218	1.364	29.60	245.652	1.360
36.00	331.611	1.543	35.10	304.886	1.587	33.30	273.233	1.581
40.00	364.109	1.773	39.00	334.806	1.824	37.00	300.164	1.812
44.00	395.795	2.018	42.90	363.970	2.076	40.70	326.446	2.062
48.00	426.690	2.279	46.80	392.412	2.342	44.40	352.095	2.322
52.00	456.785	2.557	50.70	420.133	2.628	48.10	377.120	2.601
56.00	486.118	2.851	54.60	447.150	2.927	51.80	401.528	2.896
60.00	514.690	3.164	58.50	473.476	3.245	55.50	425.337	3.205
64.00	542.521	3.493	62.40	499.117	3.587	59.20	448.546	3.536
68.00	569.620	3.845	66.30	524.093	3.942	62.90	471.173	3.884
72.00	595.999	4.219	70.20	548.403	4.326	66.60	493.234	4.251
76.00	621.677	4.611	74.10	572.076	4.727	70.30	514.723	4.644
80.00	646.654	5.034	78.00	595.112	5.155	74.00	535.664	5.053
84.00	670.958	5.476	81.90	617.529	5.607	77.70	556.056	5.495
88.00	694.594	5.947	85.80	639.336	6.088	81.40	575.916	5.953
92.00	717.576	6.445	89.70	660.542	6.597	85.10	595.250	6.446
96.00	739.919	6.975	93.60	681.158	7.138	88.80	614.070	6.960
100.00	761.630	7.537	97.50	701.201	7.708	92.50	632.377	7.511
104.00	782.721	8.135	101.40	720.673	8.316	96.20	650.198	8.082
108.00	803.210	8.763	105.30	739.597	8.951	99.90	667.523	8.700
112.00	823.099	9.437	109.20	757.971	9.639	103.60	684.377	9.346
116.00	842.416	10.138	113.10	775.814	10.357	107.30	700.757	10.028

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
1010.00	1048.246		1000.00	965.434		990.00	887.710	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
3.60	30.410	0.142	3.50	27.769	0.146	3.30	24.568	0.147
7.20	60.151	0.291	7.00	54.930	0.301	6.60	48.618	0.301
10.80	89.213	0.449	10.50	81.480	0.467	9.90	72.151	0.467
14.40	117.622	0.617	14.00	107.437	0.642	13.20	95.181	0.640
18.00	145.393	0.796	17.50	132.812	0.825	16.50	117.709	0.827
21.60	172.512	0.987	21.00	157.609	1.023	19.80	139.746	1.019
25.20	199.014	1.190	24.50	181.838	1.230	23.10	161.298	1.229
28.80	224.900	1.402	28.00	205.511	1.451	26.40	182.372	1.444
32.40	250.182	1.629	31.50	228.631	1.686	29.70	202.971	1.677
36.00	274.863	1.871	35.00	251.215	1.932	33.00	223.111	1.920
39.60	298.961	2.122	38.50	273.262	2.192	36.30	242.803	2.175
43.20	322.480	2.395	42.00	294.781	2.471	39.60	262.034	2.449
46.80	345.432	2.676	45.50	315.796	2.761	42.90	280.828	2.733
50.40	367.816	2.982	49.00	336.293	3.074	46.20	299.186	3.039
54.00	389.661	3.299	52.50	356.296	3.400	49.50	317.117	3.357
57.60	410.963	3.636	56.00	375.810	3.748	52.80	334.626	3.693
61.20	431.735	3.993	59.50	394.841	4.114	56.10	351.724	4.049
64.80	451.989	4.369	63.00	413.397	4.500	59.40	368.410	4.421
68.40	471.725	4.771	66.50	431.492	4.910	62.70	384.688	4.820
72.00	490.958	5.190	70.00	449.125	5.339	66.00	400.582	5.231
75.60	509.695	5.640	73.50	466.303	5.798	69.30	416.082	5.675
79.20	527.946	6.108	77.00	483.047	6.280	72.60	431.203	6.134
82.80	545.712	6.611	80.50	499.347	6.790	75.90	445.946	6.627
86.40	563.018	7.133	84.00	515.229	7.330	79.20	460.323	7.140
90.00	579.856	7.695	87.50	530.688	7.895	82.50	474.333	7.681
93.60	596.247	8.284	91.00	545.733	8.499	85.80	487.990	8.253
97.20	612.191	8.904	94.50	560.376	9.138	89.10	501.296	8.860
100.80	627.695	9.565	98.00	574.621	9.811	92.40	514.261	9.497
104.40	642.775	10.266	101.50	588.485	10.518	95.70	526.877	10.169

B FACTORS FOR WATER

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
980.00	814.854		970.00	746.644		960.00	682.890	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
3.20	22.325	0.150	3.00	19.585	0.156	2.90	17.688	0.159
6.40	44.177	0.314	6.00	38.777	0.317	5.80	35.029	0.325
9.60	65.569	0.483	9.00	57.576	0.488	8.70	52.010	0.506
12.80	86.502	0.667	12.00	75.991	0.670	11.60	68.654	0.692
16.00	106.987	0.856	15.00	94.034	0.858	14.50	84.966	0.888
19.20	127.025	1.059	18.00	111.694	1.062	17.40	100.937	1.099
22.40	146.628	1.272	21.00	128.993	1.272	20.30	116.580	1.316
25.60	165.809	1.495	24.00	145.933	1.493	23.20	131.899	1.548
28.80	184.554	1.737	27.00	162.507	1.731	26.10	146.904	1.791
32.00	202.867	1.986	30.00	178.730	1.977	29.00	161.588	2.043
35.20	220.814	2.252	33.00	194.607	2.237	31.90	175.955	2.315
38.40	238.333	2.532	36.00	210.145	2.512	34.80	190.029	2.594
41.60	255.454	2.824	39.00	225.342	2.797	37.70	203.799	2.894
44.80	272.179	3.140	42.00	240.199	3.104	40.60	217.262	3.204
48.00	288.521	3.465	45.00	254.742	3.419	43.50	230.442	3.533
51.20	304.480	3.812	48.00	268.960	3.759	46.40	243.328	3.877
54.40	320.071	4.175	51.00	282.851	4.108	49.30	255.932	4.239
57.60	335.293	4.561	54.00	296.438	4.482	52.20	268.254	4.617
60.80	350.144	4.964	57.00	309.714	4.869	55.10	280.302	5.020
64.00	364.649	5.394	60.00	322.685	5.282	58.00	292.077	5.443
67.20	378.799	5.839	63.00	335.359	5.713	60.90	303.592	5.882
70.40	392.602	6.317	66.00	347.740	6.164	63.80	314.834	6.345
73.60	406.069	6.818	69.00	359.832	6.644	66.70	325.820	6.833
76.80	419.201	7.342	72.00	371.643	7.145	69.60	336.555	7.346
80.00	432.011	7.896	75.00	383.162	7.672	72.50	347.035	7.879
83.20	444.494	8.481	78.00	394.422	8.221	75.40	357.269	8.448
86.40	456.657	9.098	81.00	405.399	8.806	78.30	367.259	9.035
89.60	468.519	9.747	84.00	416.112	9.417	81.20	377.011	9.666
92.80	480.069	10.426	87.00	426.564	10.060	84.10	386.528	10.315

950.00	623.374		940.00	567.913		930.00	516.309	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
2.80	15.928	0.165	2.60	13.781	0.167	2.50	12.310	0.179
5.60	31.545	0.343	5.20	27.304	0.345	5.00	24.407	0.359
8.40	46.853	0.527	7.80	40.570	0.528	7.50	36.278	0.554
11.20	61.855	0.720	10.40	53.590	0.720	10.00	47.918	0.755
14.00	76.551	0.928	13.00	66.353	0.927	12.50	59.349	0.964
16.80	90.960	1.142	15.60	78.880	1.137	15.00	70.562	1.189
19.60	105.073	1.366	18.20	91.166	1.365	17.50	81.563	1.417
22.40	118.886	1.609	20.80	103.204	1.597	20.00	92.351	1.664
25.20	132.430	1.856	23.40	115.016	1.845	22.50	102.932	1.917
28.00	145.690	2.124	26.00	126.590	2.103	25.00	113.310	2.185
30.80	158.665	2.398	28.60	137.941	2.371	27.50	123.484	2.467
33.60	171.375	2.692	31.20	149.059	2.656	30.00	133.466	2.757
36.40	183.812	2.997	33.80	159.959	2.957	32.50	143.247	3.067
39.20	195.987	3.318	36.40	170.638	3.265	35.00	152.827	3.387
42.00	207.897	3.654	39.00	181.101	3.594	37.50	162.229	3.720
44.80	219.553	4.011	41.60	191.354	3.937	40.00	171.434	4.075
47.60	230.952	4.386	44.20	201.387	4.293	42.50	180.453	4.438
50.40	242.110	4.774	46.80	211.219	4.669	45.00	189.291	4.828
53.20	253.014	5.185	49.40	220.847	5.063	47.50	197.946	5.226
56.00	263.673	5.618	52.00	230.269	5.470	50.00	206.423	5.648
58.80	274.106	6.067	54.60	239.493	5.904	52.50	214.725	6.094
61.60	284.293	6.541	57.20	248.521	6.353	55.00	222.853	6.550
64.40	294.251	7.041	59.80	257.356	6.824	57.50	230.811	7.035
67.20	303.982	7.563	62.40	266.001	7.325	60.00	238.599	7.542
70.00	313.488	8.111	65.00	274.458	7.837	62.50	246.222	8.072
72.80	322.775	8.692	67.60	282.730	8.381	65.00	253.681	8.614
75.60	331.844	9.294	70.20	290.820	8.951	67.50	260.979	9.191
78.40	340.699	9.932	72.80	298.730	9.545	70.00	268.119	9.795
81.20	349.344	10.603	75.40	306.464	10.158	72.50	275.102	10.429

B FACTORS FOR WATER

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
920.00	468.391		910.00	423.958		900.00	382.843	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
2.40	10.978	0.180	2.20	9.322	0.179	2.10	8.230	0.193
4.80	21.754	0.374	4.40	18.488	0.373	4.20	16.317	0.387
7.20	32.335	0.571	6.60	27.495	0.569	6.30	24.270	0.597
9.60	42.720	0.783	8.80	36.348	0.778	8.40	32.101	0.809
12.00	52.914	1.000	11.00	45.053	0.995	10.50	39.786	1.036
14.40	62.920	1.234	13.20	53.598	1.220	12.60	47.344	1.267
16.80	72.738	1.474	15.40	61.992	1.457	14.70	54.773	1.515
19.20	82.375	1.726	17.60	70.251	1.700	16.80	62.075	1.769
21.60	91.831	1.991	19.80	78.354	1.961	18.90	69.249	2.032
24.00	101.100	2.265	22.00	86.314	2.224	21.00	76.299	2.313
26.40	110.194	2.556	24.20	94.132	2.506	23.10	83.225	2.599
28.80	119.123	2.856	26.40	101.809	2.801	25.20	90.030	2.897
31.20	127.868	3.171	28.60	109.347	3.100	27.30	96.714	3.213
33.60	136.446	3.501	30.80	116.748	3.421	29.40	103.279	3.541
36.00	144.856	3.851	33.00	124.014	3.751	31.50	109.727	3.884
38.40	153.100	4.206	35.20	131.146	4.094	33.60	116.058	4.231
40.80	161.180	4.588	37.40	138.145	4.456	35.70	122.275	4.596
43.20	169.100	4.982	39.60	145.014	4.833	37.80	128.378	4.980
45.60	176.860	5.393	41.80	151.754	5.227	39.90	134.370	5.381
48.00	184.463	5.827	44.00	158.366	5.626	42.00	140.252	5.798
50.40	191.912	6.281	46.20	164.854	6.048	44.10	146.024	6.231
52.80	199.207	6.751	48.40	171.217	6.492	46.20	151.689	6.683
55.20	206.353	7.236	50.60	177.459	6.954	48.30	157.248	7.149
57.60	213.349	7.750	52.80	183.579	7.436	50.40	162.702	7.638
60.00	220.201	8.289	55.00	189.580	7.937	52.50	168.052	8.158
62.40	226.907	8.853	57.20	195.465	8.457	54.60	173.301	8.686
64.80	233.472	9.441	59.40	201.233	8.997	56.70	178.448	9.232
67.20	239.897	10.053	61.60	206.887	9.575	58.80	183.497	9.804
69.60	246.184	10.690	63.80	212.429	10.169	60.90	188.448	10.403
890.00	344.875		880.00	309.886		870.00	277.710	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
2.00	7.230	0.193	1.90	6.325	0.210	1.70	5.201	0.205
4.00	14.343	0.402	3.80	12.550	0.418	3.40	10.327	0.410
6.00	21.340	0.620	5.70	18.676	0.643	5.10	15.377	0.626
8.00	28.221	0.838	7.60	24.702	0.877	6.80	20.353	0.853
10.00	34.989	1.073	9.50	30.632	1.121	8.50	25.255	1.088
12.00	41.644	1.320	11.40	36.465	1.376	10.20	30.084	1.332
14.00	48.189	1.567	13.30	42.203	1.632	11.90	34.841	1.585
16.00	54.623	1.831	15.20	47.848	1.901	13.60	39.526	1.847
18.00	60.948	2.108	17.10	53.399	2.185	15.30	44.141	2.118
20.00	67.165	2.395	19.00	58.859	2.480	17.00	48.686	2.398
22.00	73.277	2.695	20.90	64.228	2.787	18.70	53.162	2.687
24.00	79.283	2.996	22.80	69.506	3.106	20.40	57.569	2.990
26.00	85.186	3.317	24.70	74.696	3.437	22.10	61.908	3.312
28.00	90.986	3.652	26.60	79.799	3.780	23.80	66.180	3.636
30.00	96.685	4.001	28.50	84.815	4.135	25.50	70.386	3.969
32.00	102.284	4.365	30.40	89.745	4.507	27.20	74.526	4.314
34.00	107.784	4.742	32.30	94.590	4.904	28.90	78.602	4.671
36.00	113.186	5.135	34.20	99.352	5.304	30.60	82.613	5.045
38.00	118.492	5.541	36.10	104.031	5.717	32.30	86.561	5.437
40.00	123.703	5.963	38.00	108.629	6.147	34.00	90.446	5.835
42.00	128.820	6.416	39.90	113.146	6.594	35.70	94.269	6.241
44.00	133.844	6.876	41.80	117.582	7.068	37.40	98.030	6.677
46.00	138.776	7.348	43.70	121.941	7.553	39.10	101.730	7.121
48.00	143.618	7.843	45.60	126.222	8.048	40.80	105.371	7.582
50.00	148.370	8.356	47.50	130.425	8.579	42.50	108.952	8.061
52.00	153.034	8.900	49.40	134.554	9.122	44.20	112.475	8.549
54.00	157.611	9.457	51.30	138.607	9.690	45.90	115.939	9.063
56.00	162.102	10.028	53.20	142.586	10.275	47.60	119.347	9.586
58.00	166.508	10.642	55.10	146.492	10.885	49.30	122.697	10.135

B FACTORS FOR WATER

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
860.00	248.190		850.00	221.172		840.00	196.505	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.60	4.487	0.211	1.50	3.846	0.227	1.40	3.274	0.233
3.20	8.910	0.430	3.00	7.640	0.455	2.80	6.505	0.469
4.80	13.271	0.656	4.50	11.382	0.688	4.20	9.694	0.708
6.40	17.570	0.890	6.00	15.073	0.928	5.60	12.840	0.953
8.00	21.807	1.131	7.50	18.712	1.177	7.00	15.945	1.214
9.60	25.983	1.380	9.00	22.302	1.432	8.40	19.009	1.484
11.20	30.099	1.647	10.50	25.841	1.700	9.80	22.032	1.754
12.80	34.155	1.921	12.00	29.331	1.984	11.20	25.014	2.042
14.40	38.152	2.199	13.50	32.771	2.268	12.60	27.956	2.335
16.00	42.091	2.484	15.00	36.164	2.558	14.00	30.858	2.633
17.60	45.971	2.781	16.50	39.508	2.863	15.40	33.721	2.949
19.20	49.795	3.086	18.00	42.805	3.186	16.80	36.545	3.269
20.80	53.561	3.409	19.50	46.055	3.508	18.20	39.331	3.596
22.40	57.271	3.745	21.00	49.257	3.848	19.60	42.077	3.941
24.00	60.926	4.084	22.50	52.414	4.198	21.00	44.786	4.300
25.60	64.525	4.431	24.00	55.525	4.552	22.40	47.458	4.665
27.20	68.070	4.803	25.50	58.591	4.928	23.80	50.093	5.032
28.80	71.562	5.183	27.00	61.613	5.309	25.20	52.691	5.420
30.40	75.000	5.572	28.50	64.590	5.702	26.60	55.252	5.823
32.00	78.385	5.984	30.00	67.522	6.116	28.00	57.777	6.240
33.60	81.718	6.398	31.50	70.412	6.543	29.40	60.266	6.667
35.20	85.000	6.834	33.00	73.259	6.975	30.80	62.721	7.107
36.80	88.231	7.280	34.50	76.063	7.421	32.20	65.140	7.560
38.40	91.411	7.740	36.00	78.826	7.889	33.60	67.524	8.031
40.00	94.540	8.223	37.50	81.546	8.275	35.00	69.874	8.513
41.60	97.621	8.723	39.00	84.226	8.875	36.40	72.190	9.009
43.20	100.653	9.229	40.50	86.865	9.389	37.80	74.472	9.519
44.80	103.637	9.755	42.00	89.463	9.918	39.20	76.721	10.049
46.40	106.573	10.305	43.50	92.022	10.470	40.60	78.938	10.595
830.00	174.044		820.00	153.649		810.00	135.182	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
1.30	2.765	0.240	1.20	2.315	0.247	1.10	1.919	0.249
2.60	5.496	0.482	2.40	4.603	0.496	2.20	3.817	0.505
3.90	8.192	0.726	3.60	6.864	0.743	3.30	5.694	0.769
5.20	10.854	0.987	4.80	9.097	1.005	4.40	7.549	1.039
6.50	13.483	1.252	6.00	11.303	1.279	5.50	9.382	1.316
7.80	16.079	1.519	7.20	13.483	1.560	6.60	11.195	1.600
9.10	18.640	1.801	8.40	15.636	1.850	7.70	12.988	1.891
10.40	21.170	2.095	9.60	17.764	2.147	8.80	14.760	2.191
11.70	23.667	2.398	10.80	19.865	2.452	9.90	16.511	2.500
13.00	26.132	2.701	12.00	21.941	2.766	11.00	18.242	2.815
14.30	28.564	3.012	13.20	23.991	3.090	12.10	19.954	3.139
15.60	30.966	3.341	14.40	26.016	3.422	13.20	21.645	3.471
16.90	33.335	3.681	15.60	28.015	3.763	14.30	23.317	3.811
18.20	35.674	4.031	16.80	29.990	4.112	15.40	24.969	4.161
19.50	37.982	4.390	18.00	31.940	4.472	16.50	26.601	4.519
20.80	40.260	4.759	19.20	33.866	4.844	17.60	28.215	4.886
22.10	42.508	5.139	20.40	35.768	5.225	18.70	29.809	5.263
23.40	44.725	5.533	21.60	37.646	5.615	19.80	31.385	5.651
24.70	46.913	5.937	22.80	39.500	6.017	20.90	32.941	6.060
26.00	49.071	6.351	24.00	41.330	6.429	22.00	34.479	6.479
27.30	51.200	6.776	25.20	43.137	6.852	23.10	35.999	6.897
28.60	53.301	7.216	26.40	44.921	7.287	24.20	37.500	7.327
29.90	55.373	7.671	27.60	46.682	7.733	25.30	38.983	7.782
31.20	57.417	8.136	28.80	48.421	8.192	26.40	40.449	8.243
32.50	59.433	8.613	30.00	50.136	8.666	27.50	41.897	8.706
33.80	61.422	9.105	31.20	51.830	9.166	28.60	43.326	9.179
35.10	63.382	9.610	32.40	53.501	9.673	29.70	44.738	9.665
36.40	65.316	10.131	33.60	55.151	10.182	30.80	46.133	10.172
37.70	67.223	10.664	34.80	56.779	10.718	31.90	47.511	10.698

B FACTORS FOR WATER

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		
800.00	118.513		790.00	103.513		780.00	90.062		
	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
	1.00	1.573	0.253	0.90	1.272	0.264	0.80	1.013	0.261
	2.00	3.130	0.512	1.80	2.532	0.535	1.60	2.017	0.530
	3.00	4.670	0.778	2.70	3.779	0.803	2.40	3.011	0.805
	4.00	6.194	1.050	3.60	5.014	1.075	3.20	3.997	1.089
	5.00	7.701	1.328	4.50	6.237	1.359	4.00	4.974	1.374
	6.00	9.192	1.614	5.40	7.448	1.657	4.80	5.942	1.656
	7.00	10.668	1.906	6.30	8.647	1.956	5.60	6.901	1.943
	8.00	12.128	2.206	7.20	9.834	2.255	6.40	7.852	2.241
	9.00	13.572	2.511	8.10	11.010	2.560	7.20	8.793	2.551
	10.00	15.000	2.828	9.00	12.172	2.869	8.00	9.726	2.868
	11.00	16.413	3.161	9.90	13.324	3.189	8.80	10.651	3.191
	12.00	17.810	3.502	10.80	14.464	3.523	9.60	11.567	3.521
	13.00	19.192	3.840	11.70	15.593	3.867	10.40	12.474	3.858
	14.00	20.559	4.187	12.60	16.710	4.222	11.20	13.373	4.204
	15.00	21.911	4.554	13.50	17.815	4.585	12.00	14.264	4.553
	16.00	23.249	4.928	14.40	18.910	4.950	12.80	15.146	4.900
	17.00	24.572	5.303	15.30	19.993	5.313	13.60	16.020	5.252
	18.00	25.880	5.685	16.20	21.066	5.688	14.40	16.886	5.617
	19.00	27.172	6.073	17.10	22.127	6.080	15.20	17.745	5.997
	20.00	28.451	6.474	18.00	23.178	6.482	16.00	18.595	6.384
	21.00	29.716	6.893	18.90	24.217	6.894	16.80	19.436	6.779
	22.00	30.966	7.325	19.80	25.245	7.314	17.60	20.270	7.182
	23.00	32.202	7.773	20.70	26.263	7.745	18.40	21.096	7.594
	24.00	33.425	8.228	21.60	27.271	8.185	19.20	21.914	8.013
	25.00	34.633	8.679	22.50	28.267	8.627	20.00	22.725	8.441
	26.00	35.829	9.142	23.40	29.254	9.070	20.80	23.527	8.875
	27.00	37.010	9.625	24.30	30.230	9.529	21.60	24.322	9.320
	28.00	38.178	10.123	25.20	31.196	10.008	22.40	25.109	9.780
	29.00	39.332	10.633	26.10	32.151	10.497	23.20	25.889	10.260
770.00	78.041		760.00	67.337		750.00	57.844		
	0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
	0.80	0.903	0.300	0.70	0.703	0.292	0.60	0.533	0.295
	1.60	1.798	0.604	1.40	1.399	0.590	1.20	1.063	0.598
	2.40	2.685	0.909	2.10	2.090	0.897	1.80	1.588	0.904
	3.20	3.563	1.212	2.80	2.775	1.220	2.40	2.110	1.211
	4.00	4.433	1.525	3.50	3.455	1.550	3.00	2.627	1.516
	4.80	5.295	1.852	4.20	4.129	1.882	3.60	3.141	1.827
	5.60	6.149	2.189	4.90	4.796	2.213	4.20	3.651	2.144
	6.40	6.995	2.534	5.60	5.459	2.549	4.80	4.157	2.462
	7.20	7.833	2.885	6.30	6.115	2.891	5.40	4.659	2.788
	8.00	8.663	3.244	7.00	6.766	3.239	6.00	5.157	3.122
	8.80	9.485	3.610	7.70	7.411	3.594	6.60	5.652	3.468
	9.60	10.299	3.984	8.40	8.051	3.955	7.20	6.143	3.823
	10.40	11.106	4.366	9.10	8.685	4.320	7.80	6.631	4.185
	11.20	11.904	4.753	9.80	9.314	4.697	8.40	7.114	4.552
	12.00	12.695	5.153	10.50	9.938	5.088	9.00	7.594	4.929
	12.80	13.479	5.572	11.20	10.556	5.494	9.60	8.070	5.309
	13.60	14.255	6.001	11.90	11.168	5.903	10.20	8.542	5.691
	14.40	15.024	6.433	12.60	11.776	6.313	10.80	9.011	6.069
	15.20	15.784	6.867	13.30	12.378	6.726	11.40	9.477	6.453
	16.00	16.538	7.309	14.00	12.975	7.147	12.00	9.938	6.848
	16.80	17.284	7.758	14.70	13.566	7.573	12.60	10.396	7.256
	17.60	18.023	8.216	15.40	14.152	8.008	13.20	10.851	7.675
	18.40	18.754	8.684	16.10	14.733	8.455	13.80	11.301	8.100
	19.20	19.479	9.160	16.80	15.309	8.919	14.40	11.749	8.532
	20.00	20.197	9.652	17.50	15.881	9.395	15.00	12.193	8.972
	20.80	20.907	10.166	18.20	16.447	9.879	15.60	12.635	9.418
	21.60	21.610	10.692	18.90	17.007	10.376	16.20	13.072	9.872
	22.40	22.306	11.222	19.60	17.563	10.878	16.80	13.505	10.337
	23.20	22.996	11.754	20.30	18.114	11.385	17.40	13.935	10.807

B FACTORS FOR WATER

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
740.00	49.459		730.00	42.083		720.00	35.626	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.60	0.470	0.327	0.46	0.316	0.292	0.40	0.241	0.296
1.20	0.937	0.656	0.92	0.631	0.592	0.80	0.480	0.595
1.80	1.400	0.994	1.38	0.943	0.896	1.20	0.717	0.899
2.40	1.859	1.343	1.84	1.254	1.204	1.60	0.954	1.206
3.00	2.315	1.705	2.30	1.563	1.517	2.00	1.189	1.516
3.60	2.767	2.073	2.76	1.870	1.834	2.40	1.423	1.830
4.20	3.215	2.447	3.22	2.176	2.155	2.80	1.656	2.145
4.80	3.661	2.828	3.68	2.479	2.481	3.20	1.888	2.465
5.40	4.103	3.215	4.14	2.780	2.811	3.60	2.118	2.792
6.00	4.541	3.609	4.60	3.080	3.143	4.00	2.347	3.124
6.60	4.976	4.012	5.06	3.378	3.479	4.40	2.574	3.465
7.20	5.407	4.422	5.52	3.673	3.822	4.80	2.800	3.819
7.80	5.835	4.836	5.98	3.967	4.173	5.20	3.025	4.175
8.40	6.259	5.251	6.44	4.259	4.534	5.60	3.249	4.532
9.00	6.681	5.662	6.90	4.549	4.907	6.00	3.471	4.892
9.60	7.099	6.084	7.36	4.837	5.283	6.40	3.692	5.252
10.20	7.514	6.517	7.82	5.124	5.661	6.80	3.912	5.608
10.80	7.925	6.967	8.28	5.408	6.041	7.20	4.131	5.970
11.40	8.333	7.425	8.74	5.691	6.420	7.60	4.349	6.338
12.00	8.738	7.891	9.20	5.973	6.803	8.00	4.565	6.714
12.60	9.139	8.366	9.66	6.252	7.191	8.40	4.780	7.098
13.20	9.538	8.849	10.12	6.530	7.585	8.80	4.994	7.497
13.80	9.933	9.339	10.58	6.806	7.983	9.20	5.206	7.897
14.40	10.326	9.837	11.04	7.080	8.387	9.60	5.418	8.300
15.00	10.715	10.339	11.50	7.353	8.796	10.00	5.628	8.706
15.60	11.100	10.854	11.96	7.624	9.211	10.40	5.837	9.112
16.20	11.483	11.382	12.42	7.893	9.630	10.80	6.045	9.513
16.80	11.862	11.933	12.88	8.160	10.052	11.20	6.252	9.921
17.40	12.238	12.493	13.34	8.426	10.483	11.60	6.458	10.337

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
710.00	29.998		700.00	25.117		690.00	20.907	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.34	0.178	0.296	0.30	0.136	0.304	0.26	0.101	0.317
0.68	0.355	0.586	0.60	0.271	0.601	0.52	0.202	0.648
1.02	0.531	0.880	0.90	0.405	0.901	0.78	0.302	0.980
1.36	0.706	1.179	1.20	0.539	1.206	1.04	0.402	1.309
1.70	0.881	1.483	1.50	0.672	1.515	1.30	0.502	1.636
2.04	1.054	1.793	1.80	0.805	1.830	1.56	0.601	1.964
2.38	1.227	2.108	2.10	0.937	2.148	1.82	0.700	2.299
2.72	1.399	2.432	2.40	1.069	2.472	2.08	0.798	2.582
3.06	1.569	2.759	2.70	1.200	2.800	2.34	0.896	2.914
3.40	1.740	3.090	3.00	1.330	3.134	2.60	0.994	3.262
3.74	1.909	3.424	3.30	1.460	3.472	2.86	1.091	3.613
4.08	2.077	3.762	3.60	1.589	3.815	3.12	1.187	3.968
4.42	2.245	4.104	3.90	1.718	4.163	3.38	1.284	4.327
4.76	2.412	4.449	4.20	1.846	4.516	3.64	1.380	4.695
5.10	2.578	4.797	4.50	1.973	4.881	3.90	1.476	5.060
5.44	2.743	5.150	4.80	2.100	5.252	4.16	1.571	5.423
5.78	2.907	5.506	5.10	2.226	5.625	4.42	1.666	5.775
6.12	3.071	5.866	5.40	2.352	6.000	4.68	1.761	6.119
6.46	3.234	6.230	5.70	2.477	6.377	4.94	1.855	6.471
6.80	3.396	6.598	6.00	2.602	6.756	5.20	1.949	6.833
7.14	3.557	6.970	6.30	2.726	7.137	5.46	2.042	7.209
7.48	3.717	7.345	6.60	2.849	7.515	5.72	2.135	7.595
7.82	3.877	7.725	6.90	2.972	7.896	5.98	2.227	7.984
8.16	4.036	8.109	7.20	3.094	8.281	6.24	2.320	8.376
8.50	4.193	8.499	7.50	3.216	8.670	6.50	2.411	8.772
8.84	4.350	8.895	7.80	3.337	9.062	6.76	2.502	9.172
9.18	4.507	9.292	8.10	3.458	9.458	7.02	2.593	9.574
9.52	4.662	9.692	8.40	3.578	9.856	7.28	2.684	9.981
9.86	4.817	10.094	8.70	3.698	10.253	7.54	2.775	10.391

B FACTORS FOR WATER

TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
680.00	17.296		675.00	15.693		670.00	14.216	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.22	0.073	0.305	0.20	0.061	0.316	0.20	0.057	0.344
0.44	0.146	0.621	0.40	0.123	0.634	0.40	0.113	0.690
0.66	0.219	0.946	0.60	0.184	0.955	0.60	0.169	1.038
0.88	0.291	1.274	0.80	0.244	1.277	0.80	0.226	1.389
1.10	0.364	1.604	1.00	0.305	1.602	1.00	0.281	1.743
1.32	0.436	1.936	1.20	0.365	1.930	1.20	0.337	2.099
1.54	0.507	2.271	1.40	0.425	2.259	1.40	0.393	2.458
1.76	0.579	2.609	1.60	0.486	2.591	1.60	0.448	2.819
1.98	0.650	2.949	1.80	0.545	2.925	1.80	0.503	3.183
2.20	0.721	3.292	2.00	0.605	3.262	2.00	0.558	3.549
2.42	0.792	3.637	2.20	0.665	3.601	2.20	0.613	3.919
2.64	0.862	3.985	2.40	0.724	3.942	2.40	0.667	4.290
2.86	0.933	4.336	2.60	0.783	4.286	2.60	0.722	4.665
3.08	1.003	4.689	2.80	0.842	4.632	2.80	0.776	5.042
3.30	1.072	5.045	3.00	0.901	4.981	3.00	0.830	5.421
3.52	1.142	5.404	3.20	0.959	5.332	3.20	0.884	5.804
3.74	1.211	5.765	3.40	1.018	5.685	3.40	0.938	6.189
3.96	1.280	6.129	3.60	1.076	6.041	3.60	0.992	6.577
4.18	1.348	6.496	3.80	1.134	6.400	3.80	1.045	6.968
4.40	1.417	6.866	4.00	1.191	6.761	4.00	1.098	7.361
4.62	1.485	7.238	4.20	1.249	7.124	4.20	1.151	7.758
4.84	1.553	7.614	4.40	1.306	7.490	4.40	1.204	8.157
5.06	1.621	7.992	4.60	1.363	7.859	4.60	1.256	8.559
5.28	1.689	8.373	4.80	1.420	8.230	4.80	1.308	8.964
5.50	1.756	8.757	5.00	1.477	8.604	5.00	1.360	9.371
5.72	1.823	9.144	5.20	1.534	8.980	5.20	1.413	9.782
5.94	1.889	9.533	5.40	1.590	9.359	5.40	1.465	10.195
6.16	1.956	9.926	5.60	1.646	9.741	5.60	1.516	10.611
6.38	2.022	10.321	5.80	1.703	10.125	5.80	1.568	11.030

665.00	12.856		660.00	11.605		655.00	10.457	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.18	0.047	0.337	0.16	0.038	0.326	0.16	0.035	0.363
0.36	0.094	0.676	0.32	0.076	0.655	0.32	0.070	0.731
0.54	0.140	1.017	0.48	0.114	0.985	0.48	0.105	1.125
0.72	0.187	1.360	0.64	0.152	1.317	0.64	0.140	1.519
0.90	0.233	1.706	0.80	0.190	1.652	0.80	0.175	1.911
1.08	0.280	2.054	0.96	0.228	1.988	0.96	0.210	2.302
1.26	0.326	2.404	1.12	0.266	2.326	1.12	0.244	2.692
1.44	0.372	2.757	1.28	0.303	2.667	1.28	0.279	3.080
1.62	0.418	3.112	1.44	0.340	3.002	1.44	0.313	3.458
1.80	0.463	3.469	1.60	0.378	3.339	1.60	0.347	3.836
1.98	0.509	3.828	1.76	0.415	3.682	1.76	0.381	4.215
2.16	0.554	4.190	1.92	0.452	4.031	1.92	0.415	4.597
2.34	0.599	4.555	2.08	0.489	4.385	2.08	0.449	4.981
2.52	0.644	4.911	2.24	0.526	4.745	2.24	0.482	5.367
2.70	0.689	5.275	2.40	0.563	5.120	2.40	0.516	5.751
2.88	0.734	5.645	2.56	0.599	5.507	2.56	0.550	6.133
3.06	0.778	6.023	2.72	0.636	5.894	2.72	0.583	6.521
3.24	0.823	6.406	2.88	0.673	6.279	2.88	0.617	6.916
3.42	0.867	6.808	3.04	0.709	6.662	3.04	0.650	7.317
3.60	0.911	7.221	3.20	0.745	7.044	3.20	0.683	7.725
3.78	0.956	7.632	3.36	0.782	7.422	3.36	0.717	8.143
3.96	1.000	8.042	3.52	0.818	7.792	3.52	0.750	8.584
4.14	1.044	8.450	3.68	0.854	8.164	3.68	0.783	9.023
4.32	1.087	8.856	3.84	0.890	8.539	3.84	0.816	9.461
4.50	1.131	9.251	4.00	0.926	8.915	4.00	0.849	9.897
4.68	1.174	9.648	4.16	0.962	9.294	4.16	0.882	10.332
4.86	1.217	10.047	4.32	0.998	9.675	4.32	0.914	10.765
5.04	1.261	10.449	4.48	1.033	10.049	4.48	0.947	11.176
5.22	1.304	10.853	4.64	1.068	10.428	4.64	0.979	11.592

B FACTORS FOR WATER

650.00			645.00			640.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.14	0.028	0.347	0.12	0.022	0.337	0.12	0.020	0.376
0.28	0.056	0.699	0.24	0.044	0.674	0.24	0.040	0.753
0.42	0.084	1.070	0.36	0.066	1.004	0.36	0.060	1.136
0.56	0.112	1.447	0.48	0.088	1.320	0.48	0.080	1.527
0.70	0.140	1.824	0.60	0.110	1.641	0.60	0.100	1.917
0.84	0.168	2.200	0.72	0.131	1.966	0.72	0.120	2.306
0.98	0.196	2.574	0.84	0.153	2.295	0.84	0.140	2.694
1.12	0.224	2.947	0.96	0.175	2.628	0.96	0.159	3.081
1.26	0.251	3.319	1.08	0.196	2.965	1.08	0.179	3.467
1.40	0.279	3.679	1.20	0.218	3.307	1.20	0.199	3.852
1.54	0.306	4.031	1.32	0.240	3.652	1.32	0.218	4.236
1.68	0.333	4.389	1.44	0.261	4.011	1.44	0.238	4.599
1.82	0.361	4.752	1.56	0.283	4.373	1.56	0.258	4.965
1.96	0.388	5.120	1.68	0.304	4.736	1.68	0.277	5.335
2.10	0.415	5.493	1.80	0.325	5.101	1.80	0.297	5.710
2.24	0.442	5.872	1.92	0.347	5.468	1.92	0.316	6.090
2.38	0.469	6.264	2.04	0.368	5.836	2.04	0.335	6.474
2.52	0.496	6.671	2.16	0.389	6.206	2.16	0.355	6.864
2.66	0.522	7.078	2.28	0.411	6.578	2.28	0.374	7.258
2.80	0.549	7.483	2.40	0.432	6.957	2.40	0.393	7.663
2.94	0.576	7.887	2.52	0.453	7.341	2.52	0.413	8.076
3.08	0.603	8.289	2.64	0.474	7.724	2.64	0.432	8.491
3.22	0.629	8.691	2.76	0.495	8.105	2.76	0.451	8.908
3.36	0.656	9.086	2.88	0.516	8.486	2.88	0.470	9.326
3.50	0.682	9.466	3.00	0.537	8.866	3.00	0.489	9.747
3.64	0.709	9.851	3.12	0.558	9.245	3.12	0.508	10.170
3.78	0.735	10.241	3.24	0.579	9.623	3.24	0.527	10.595
3.92	0.762	10.637	3.36	0.600	9.994	3.36	0.546	11.022
4.06	0.788	11.039	3.48	0.620	10.352	3.48	0.565	11.451

635.00			630.00			625.00		
TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B	TF1 (R)	PF1 (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.10	0.015	0.340	0.10	0.014	0.380	0.08	0.010	0.335
0.20	0.030	0.679	0.20	0.028	0.761	0.16	0.020	0.672
0.30	0.046	1.017	0.30	0.041	1.144	0.24	0.030	1.010
0.40	0.061	1.340	0.40	0.055	1.529	0.32	0.040	1.348
0.50	0.076	1.660	0.50	0.069	1.915	0.40	0.050	1.688
0.60	0.091	1.984	0.60	0.083	2.302	0.48	0.060	2.029
0.70	0.106	2.311	0.70	0.096	2.692	0.56	0.070	2.372
0.80	0.121	2.641	0.80	0.110	3.083	0.64	0.080	2.715
0.90	0.136	2.976	0.90	0.124	3.475	0.72	0.090	3.060
1.00	0.151	3.313	1.00	0.137	3.869	0.80	0.100	3.405
1.10	0.166	3.654	1.10	0.151	4.265	0.88	0.110	3.752
1.20	0.181	3.999	1.20	0.164	4.662	0.96	0.120	4.100
1.30	0.196	4.348	1.30	0.178	5.061	1.04	0.129	4.450
1.40	0.211	4.707	1.40	0.191	5.462	1.12	0.139	4.800
1.50	0.226	5.071	1.50	0.205	5.865	1.20	0.149	5.152
1.60	0.241	5.436	1.60	0.218	6.269	1.28	0.159	5.504
1.70	0.255	5.803	1.70	0.232	6.674	1.36	0.169	5.858
1.80	0.270	6.172	1.80	0.245	7.081	1.44	0.179	6.213
1.90	0.285	6.542	1.90	0.259	7.490	1.52	0.188	6.570
2.00	0.300	6.913	2.00	0.272	7.901	1.60	0.198	6.927
2.10	0.314	7.286	2.10	0.285	8.313	1.68	0.208	7.286
2.20	0.329	7.661	2.20	0.299	8.727	1.76	0.218	7.646
2.30	0.344	8.037	2.30	0.312	9.143	1.84	0.227	8.007
2.40	0.358	8.414	2.40	0.325	9.560	1.92	0.237	8.369
2.50	0.373	8.793	2.50	0.338	9.980	2.00	0.247	8.733
2.60	0.387	9.174	2.60	0.352	10.400	2.08	0.256	9.098
2.70	0.402	9.556	2.70	0.365	10.823	2.16	0.266	9.464
2.80	0.416	9.940	2.80	0.378	11.247	2.24	0.276	9.831
2.90	0.431	10.325	2.90	0.391	11.673	2.32	0.285	10.199

B FACTORS FOR WATER

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
620.00	4.779		615.00	4.237		610.00	3.749	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.08	0.009	0.371	0.08	0.008	0.412	0.06	0.006	0.360
0.16	0.018	0.744	0.16	0.016	0.825	0.12	0.011	0.720
0.24	0.027	1.117	0.24	0.025	1.239	0.18	0.017	1.079
0.32	0.036	1.492	0.32	0.033	1.655	0.24	0.022	1.438
0.40	0.045	1.869	0.40	0.041	2.062	0.30	0.028	1.797
0.48	0.054	2.246	0.48	0.049	2.470	0.36	0.033	2.145
0.56	0.063	2.625	0.56	0.057	2.883	0.42	0.039	2.484
0.64	0.072	3.006	0.64	0.065	3.298	0.48	0.044	2.825
0.72	0.081	3.387	0.72	0.074	3.718	0.54	0.050	3.168
0.80	0.090	3.770	0.80	0.082	4.141	0.60	0.055	3.514
0.88	0.099	4.154	0.88	0.090	4.567	0.66	0.061	3.862
0.96	0.108	4.540	0.96	0.098	4.997	0.72	0.066	4.212
1.04	0.117	4.926	1.04	0.106	5.431	0.78	0.072	4.564
1.12	0.126	5.314	1.12	0.114	5.868	0.84	0.077	4.919
1.20	0.135	5.704	1.20	0.122	6.309	0.90	0.083	5.275
1.28	0.144	6.095	1.28	0.130	6.753	0.96	0.088	5.634
1.36	0.153	6.482	1.36	0.138	7.211	1.02	0.094	5.996
1.44	0.162	6.865	1.44	0.146	7.686	1.08	0.099	6.359
1.52	0.170	7.252	1.52	0.154	8.160	1.14	0.104	6.725
1.60	0.179	7.641	1.60	0.162	8.633	1.20	0.110	7.094
1.68	0.188	8.034	1.68	0.170	9.107	1.26	0.115	7.464
1.76	0.197	8.430	1.76	0.178	9.579	1.32	0.121	7.837
1.84	0.206	8.829	1.84	0.186	10.051	1.38	0.126	8.230
1.92	0.214	9.232	1.92	0.194	10.523	1.44	0.131	8.626
2.00	0.223	9.638	2.00	0.201	10.994	1.50	0.137	9.021
2.08	0.232	10.047	2.08	0.209	11.465	1.56	0.142	9.417
2.16	0.241	10.460	2.16	0.217	11.935	1.62	0.148	9.812
2.24	0.249	10.876	2.24	0.225	12.405	1.68	0.153	10.207
2.32	0.258	11.295	2.32	0.233	12.874	1.74	0.158	10.602

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
605.00	3.309		600.00	2.914		595.00	2.560	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.06	0.005	0.387	0.06	0.004	0.431	0.06	0.004	0.506
0.12	0.010	0.776	0.12	0.009	0.866	0.12	0.008	1.014
0.18	0.015	1.167	0.18	0.013	1.303	0.18	0.012	1.523
0.24	0.020	1.561	0.24	0.018	1.742	0.24	0.016	2.034
0.30	0.025	1.958	0.30	0.022	2.185	0.30	0.020	2.546
0.36	0.030	2.369	0.36	0.027	2.637	0.36	0.024	3.059
0.42	0.035	2.791	0.42	0.031	3.097	0.42	0.028	3.574
0.48	0.040	3.214	0.48	0.036	3.558	0.48	0.032	4.091
0.54	0.045	3.636	0.54	0.040	4.021	0.54	0.036	4.609
0.60	0.050	4.058	0.60	0.045	4.485	0.60	0.040	5.128
0.66	0.055	4.480	0.66	0.049	4.950	0.66	0.044	5.649
0.72	0.060	4.901	0.72	0.053	5.417	0.72	0.048	6.171
0.78	0.064	5.322	0.78	0.058	5.885	0.78	0.052	6.695
0.84	0.069	5.743	0.84	0.062	6.354	0.84	0.056	7.220
0.90	0.074	6.163	0.90	0.067	6.824	0.90	0.060	7.747
0.96	0.079	6.583	0.96	0.071	7.296	0.96	0.064	8.275
1.02	0.084	7.003	1.02	0.075	7.769	1.02	0.068	8.804
1.08	0.089	7.422	1.08	0.080	8.244	1.08	0.072	9.336
1.14	0.094	7.841	1.14	0.084	8.719	1.14	0.075	9.868
1.20	0.099	8.260	1.20	0.089	9.196	1.20	0.079	10.403
1.26	0.104	8.678	1.26	0.093	9.675	1.26	0.083	10.938
1.32	0.109	9.096	1.32	0.097	10.154	1.32	0.087	11.475
1.38	0.113	9.494	1.38	0.102	10.646	1.38	0.091	12.026
1.44	0.118	9.891	1.44	0.106	11.140	1.44	0.095	12.579
1.50	0.123	10.290	1.50	0.110	11.634	1.50	0.099	13.132
1.56	0.128	10.692	1.56	0.115	12.127	1.56	0.103	13.685
1.62	0.133	11.096	1.62	0.119	12.620	1.62	0.107	14.237
1.68	0.138	11.503	1.68	0.123	13.112	1.68	0.110	14.789
1.74	0.142	11.912	1.74	0.128	13.605	1.74	0.114	15.341

B FACTORS FOR WATER

TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)		TF1 (R)	PF1 (PSIA)	
590.00	2.243		585.00	1.960		580.00	1.708	
DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B	DTV (R)	DPV (PSIA)	B
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.04	0.002	0.378	0.04	0.002	0.425	0.04	0.002	0.479
0.08	0.005	0.757	0.08	0.004	0.851	0.08	0.004	0.958
0.12	0.007	1.137	0.12	0.006	1.278	0.12	0.006	1.439
0.16	0.010	1.517	0.16	0.009	1.705	0.16	0.008	1.921
0.20	0.012	1.898	0.20	0.011	2.133	0.20	0.009	2.403
0.24	0.014	2.280	0.24	0.013	2.563	0.24	0.011	2.887
0.28	0.017	2.663	0.28	0.015	2.993	0.28	0.013	3.372
0.32	0.019	3.046	0.32	0.017	3.424	0.32	0.015	3.857
0.36	0.021	3.430	0.36	0.019	3.846	0.36	0.017	4.333
0.40	0.024	3.815	0.40	0.021	4.267	0.40	0.019	4.808
0.44	0.026	4.201	0.44	0.023	4.690	0.44	0.021	5.285
0.48	0.029	4.587	0.48	0.025	5.115	0.48	0.023	5.764
0.52	0.031	4.974	0.52	0.028	5.542	0.52	0.024	6.245
0.56	0.033	5.362	0.56	0.030	5.971	0.56	0.026	6.728
0.60	0.036	5.750	0.60	0.032	6.401	0.60	0.028	7.213
0.64	0.038	6.140	0.64	0.034	6.833	0.64	0.030	7.700
0.68	0.040	6.530	0.68	0.036	7.268	0.68	0.032	8.189
0.72	0.043	6.920	0.72	0.038	7.704	0.72	0.034	8.681
0.76	0.045	7.312	0.76	0.040	8.141	0.76	0.036	9.175
0.80	0.047	7.704	0.80	0.042	8.581	0.80	0.038	9.670
0.84	0.050	8.097	0.84	0.044	9.023	0.84	0.039	10.168
0.88	0.052	8.491	0.88	0.046	9.466	0.88	0.041	10.668
0.92	0.055	8.885	0.92	0.049	9.912	0.92	0.043	11.171
0.96	0.057	9.281	0.96	0.051	10.359	0.96	0.045	11.675
1.00	0.059	9.677	1.00	0.053	10.808	1.00	0.047	12.182
1.04	0.062	10.073	1.04	0.055	11.259	1.04	0.049	12.690
1.08	0.064	10.471	1.08	0.057	11.712	1.08	0.050	13.201
1.12	0.066	10.869	1.12	0.059	12.167	1.12	0.052	13.714
1.16	0.069	11.268	1.16	0.061	12.624	1.16	0.054	14.229
575.00	1.485		570.00	1.287		565.00	1.113	
0.00	0.000	0.000	0.00	0.000	0.000	0.00	0.000	0.000
0.04	0.002	0.566	0.04	0.001	0.641	0.02	0.001	0.368
0.08	0.003	1.133	0.08	0.003	1.283	0.04	0.001	0.736
0.12	0.005	1.699	0.12	0.004	1.924	0.06	0.002	1.104
0.16	0.007	2.265	0.16	0.006	2.565	0.08	0.003	1.473
0.20	0.008	2.831	0.20	0.007	3.206	0.10	0.003	1.843
0.24	0.010	3.397	0.24	0.009	3.846	0.12	0.004	2.212
0.28	0.012	3.962	0.28	0.010	4.487	0.14	0.005	2.582
0.32	0.013	4.528	0.32	0.012	5.128	0.16	0.005	2.953
0.36	0.015	5.082	0.36	0.013	5.742	0.18	0.006	3.324
0.40	0.017	5.633	0.40	0.015	6.349	0.20	0.007	3.695
0.44	0.018	6.185	0.44	0.016	6.960	0.22	0.007	4.067
0.48	0.020	6.738	0.48	0.018	7.573	0.24	0.008	4.439
0.52	0.022	7.292	0.52	0.019	8.188	0.26	0.009	4.811
0.56	0.023	7.847	0.56	0.021	8.807	0.28	0.009	5.184
0.60	0.025	8.404	0.60	0.022	9.428	0.30	0.010	5.557
0.64	0.027	8.962	0.64	0.024	10.052	0.32	0.010	5.931
0.68	0.028	9.520	0.68	0.025	10.679	0.34	0.011	6.310
0.72	0.030	10.080	0.72	0.027	11.308	0.36	0.012	6.694
0.76	0.032	10.641	0.76	0.028	11.941	0.38	0.012	7.079
0.80	0.033	11.204	0.80	0.030	12.576	0.40	0.013	7.463
0.84	0.035	11.767	0.84	0.031	13.213	0.42	0.014	7.847
0.88	0.037	12.331	0.88	0.032	13.854	0.44	0.014	8.231
0.92	0.038	12.897	0.92	0.034	14.497	0.46	0.015	8.616
0.96	0.040	13.464	0.96	0.035	15.144	0.48	0.016	9.000
1.00	0.042	14.032	1.00	0.037	15.793	0.50	0.016	9.384
1.04	0.043	14.601	1.04	0.038	16.445	0.52	0.017	9.769
1.08	0.045	15.171	1.08	0.040	17.099	0.54	0.018	10.153
1.12	0.046	15.743	1.12	0.041	17.757	0.56	0.018	10.537
1.16	0.048	16.315	1.16	0.043	18.417	0.58	0.019	10.921

**Appendix H: Computer interpolation routine used to obtain property
data for water and refrigerant 114 at temperatures
intermediate to values listed in property data compilations.**

FTN5.4H

11/10/70

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FUNCTION ATKINT(X,YMAT,XMAT,NELMTS,NMAX,NESSY,ACRCY)
C THIS PROGRAM HAS BEEN CHANGED SO THAT THE OSCILLATING NATURE OF
C THE MATRIX TO BE INTERPOLATED EXISTS ONLY AT THE UPPER END OF THE
C TABLE
C THIS ROUTINE WILL TAKE INPUT MATRICES OF UP TO 999 ELEMENTS EACH,
C ARRANGED SO THAT THE X MATRIX(XMAT) IS IN EITHER ASCENDING OR
C DESCENDING ORDER,SELECT NMAX OF THESE POINTS,CHOSEN SO THAT
C SUCCESSIVE X VALUES OSCILATE ABOUT THE VALUE OF THE ARGUMENT X
C UNLESS THE ENDS OF THE XMATRIX INTERFERE (IN THIS CASE THE
C OSCILATORY NATURE IS LOST BUT THE PROGRAM WILL STILL PERFORM AN
C INTERPOLATION), INTERPOLATE ON THESE NMAX PAIRS OF DATA BY
C AN OSCILATING VARIABLE POINT AITKEN INTERPOLATION ALGORITHM
C EITHER UNTIL THE PERCENTAGE CHANGE IN THE INTERPOLANT IS LESS
C THAN THE ACRCY ARGUMENT(THE ARGUMENT NESSY INDICATES THE
C NUMBER OF THE POINT JUST BEFORE THE LAST ONE CHECKED) OR UNTIL
C THE NMAX POINTS ARE ALL USED. IT IS SUGGESTED THAT NMAX
C BE LESS THAN 10, AND OF COURSE LESS THAN NELMTS. NELMTS
C INDICATES THE NUMBER OF ELEMENTS IN XMAT OR YMAT.
C IF NESSY IS ZERO IT INDICATES THAT THE INTERPOLATION REQUIREMENT
C HAS NOT BEEN SATISFIED. IF NESSY IS 1 IT MEANS THAT THE VALUE OF
C X LIES OUT SIDE THE RANGE OF XMAT.
DIMENSION YMAT(999), XMAT(999),A(21,20)
100 FORMAT(42HINTERPOLATION REQUIREMENT NOT SATISFIED(X=,E16.8,1H)/33H
1LAST 2 APPROXIMATIONS OF Y ARE(Y=,E16.8,1H,,E16.8,1H))
200 FORMAT(55HTHIS REPRESENTS AN EXTRAPOLATION OF THE XMAT MATRIX(X=,
1E16.8,1H)/33HNO CALCULATION HAS BEEN PERFORMED)
300 FORMAT(24HNELMTS IS LESS THAN NMAX)
400 FORMAT(22HNMAX IS LARGER THAN 20)
IF(NMAX-20)71,71,69
69 WRITE OUTPUT TAPE 6,400
ATKINT=0.0
RETURN
71 IF(NMAX-NELMTS)75,75,73
73 WRITE OUTPUT TAPE 6,300
ATKINT=0.0
RETURN
75 CONTINUE
C FIRST TWO SUCCESSIVE VALUES OF THE XMATRIX THAT STRADDLE THE
C VALUE X WILL BE SOUGHT
JJ1=NELMTS-1
DO 20 I=1,JJ1
DIF1=X-XMAT(I)
DIF2=XMAT(I+1)-X
IF(DIF1)16,15,16
15 ATKINT=YMAT(I)
NESSY =NMAX
RETURN
16 IF(DIF2)18,17,18
17 ATKINT=YMAT(I+1)
NESSY =NMAX
RETURN
18 RATIO=DIF1/ DIF2
IF(RATIO)20,20,19
19 IMID=I
GO TO 32

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20 CONTINUE
C   AT THIS POINT ONE COULD PRINT THE FOLLOWING STATEMENT
C   WRITE OUTPUT TAPE 6,200,X
      NESSY=1
      ATKINT=0.0
      RETURN
32 CONTINUE
C   NOTE THAT RATIO IS POSITIVE IF THE TWO POINTS STRADDLE X
C   REGARDLESS WHICH IS LARGER
      JJJ=IMID
      JUP=IMID
      JDN=IMID
      IF(JJJ+NMAX-NELMTS+1)98,98,102
98 DO 201 J=1,NMAX
      JJJ=IMID+J-1
      A(1,J)=XMAT(JJJ)
201 A(2,J)=YMAT(JJJ)
      GO TO 203
102 DO 41 J=1,NMAX
      JJ=J/2
      JOE=J-2*JJ
C   JOE IS 0 IF J IS EVEN AND 1 IF J IS ODD
      IF(J-1)33,40,33
33 IF(JDN-1)34,36,34
34 IF(JUP-NELMTS)35,37,35
35 IF(JOE)37,36,37
36 JUP=JUP+1
      JJJ=JUP
      GO TO 40
37 JDN=JDN-1
      JJJ=JDN
      GO TO 40
40 A(1,J)=XMAT(JJJ)
      A(2,J)=YMAT(JJJ)
41 CONTINUE
203 NNN=NMAX+1
      DO 6 J=3,NNN
      L=J-1
      DO 5 K=L,NMAX
C   J IS THE COLUMN NUMBER
C   K IS THE ROW NUMBER
      BA(J,K)=(A(J-1,K)-A(J-1,J-2))*(X-A(1,J-2))/(A(1,K)-A(1,J-2))
1      +A(J-1,J-2)
      IF(K-L)3,2,3
2 IF(ABSF((A(J,L)-A(J-1,L-1))/A(J,L))-ACRCY/100.0)7,7,3
3 CONTINUE
5 CONTINUE
6 CONTINUE
      NESSY=0
C   AT THIS POINT ONE COULD PRINT OUT THE FOLLOWING STATEMENT.
C   WRITE OUTPUT TAPE 6,100,X,A(NNN,NMAX),A(NNN-1,NMAX-1)
      ATKINT=A(NNN,NMAX)
      RETURN
7 NESSY=J-1
      ATKINT=A(J,L)
      RETURN
END

```