

DuPont™ Suva®
refrigerants

**Thermodynamic
Properties
of**

DuPont™ Suva® 95
Refrigerant

(R-508B)

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Thermodynamic Properties of DuPont™ Suva® 95 Refrigerant

Engineering (I/P) Units

New tables of the thermodynamic properties of DuPont™ Suva® 95 refrigerant [ASHRAE designation: R-508B (46/54)], have been developed and are presented here. These tables are based on extensive experimental measurements. Equations have been developed, based on the Martin-Hou equation of state, which represent the data with accuracy and consistency throughout the entire range of temperature, pressure, and density. Vapor enthalpy and entropy are calculated from the standard Martin-Hou equations. Additional equations have been developed for the calculation of saturated liquid enthalpy, latent enthalpy, and saturated liquid entropy, and are presented here.

Physical Properties

Chemical Formula	CHF ₃ /CF ₃ CF ₃ (46/54% by weight)	
Molecular Weight	95.39	
Boiling Point at		
One Atmosphere	-126.89°F	(-88.27°C)
Critical Temperature	57.19°F	(14.00°C)
	516.86°R	(287.15 K)
Critical Pressure	569.40 psia	(3926.0 kPa [abs])
Critical Density	36.60 lb/ft ³	(586.20 kg/m ³)
Critical Volume	0.0277 ft ³ /lb	(0.00171 m ³ /kg)

Units and Factors

t	= temperature in °F
T	= temperature in °R = °F + 459.67
P	= pressure in lb/in ² absolute (psia)
v _f	= volume of saturated liquid in ft ³ /lb
v _g	= volume of saturated vapor in ft ³ /lb
V	= volume of superheated vapor in ft ³ /lb
d _f	= 1/v _f = density of saturated liquid in lb/ft ³
d _g	= 1/v _g = density of saturated vapor in lb/ft ³
h _f	= enthalpy of saturated liquid in Btu/lb
h _{fg}	= enthalpy of vaporization in Btu/lb
h _g	= enthalpy of saturated vapor in Btu/lb
H	= enthalpy of superheated vapor in Btu/lb
s _f	= entropy of saturated liquid in Btu/(lb) (°R)
s _g	= entropy of saturated vapor in Btu/(lb) (°R)
S	= entropy of superheated vapor in Btu/(lb) (°R)
C _p	= heat capacity at constant pressure in Btu/(lb) (°F)
C _v	= heat capacity at constant volume in Btu/(lb) (°F)
v _s	= velocity of sound in ft/sec

The gas constant, R = 10.732 (psia) (ft³)/(°R) (lb-mole)
for Suva® 95, R = 0.1125 (psia) (ft³)/lb • °R

One atmosphere = 14.696 psia

Conversion factor from Work Units to Heat Units:

$$J = 0.185053$$

$$\text{Btu/lb} = (\text{psia} \cdot \text{ft}^3)/\text{lb} \cdot J$$

Reference point for enthalpy and entropy:

$$h_f = 0.0 \text{ Btu/lb at } -40^\circ\text{F}$$

$$s_f = 0.0 \text{ Btu/lb} \cdot ^\circ\text{R at } -40^\circ\text{F}$$

Equations

1. Conversion Factors—I/P Units to SI Units

Properties listed in the following thermodynamic tables in I/P units can be converted to SI units using the conversion factors shown below. Please note that in converting enthalpy and entropy from I/P to SI units, a change in reference states must be included (from H = 0 and S = 0 at -40°F for I/P units to H = 200 and S = 1 at 0°C for SI units). In the conversion equation below, H (ref) and S (ref) are the saturated liquid enthalpy and entropy at -40°C. For Suva® 95, H (ref) = 141.3 kJ/kg and S (ref) = 0.7765 kJ/kg•K.

P (kPa)	= P (psia)⇒0.14504
T (°C)	= (T[°F] - 32)⇒1.8
D (kg/m ³)	= D (lb/ft ³)⇒0.062428
V (m ³ /kg)	= V (ft ³ /lb)⇒16.018
H (kJ/kg)	= [H (Btu/lb)⇒0.43021] + H (ref)
S (kJ/kg)	= [S (Btu/lb•°R)⇒0.23901] + S (ref)
C _p (kJ/kg•K)	= C _p (Btu/lb•°F)⇒0.23901
C _v (kJ/kg•K)	= C _v (Btu/lb•°F)⇒0.23901
v _s (m/sec)	= v _s (ft/sec)⇒3.2808

2. Martin-Hou Equation of State

Coefficients for the Martin-Hou equation of state are presented below:

$$P = RT/(V-b) + \sum_{i=2}^5 (A_i + B_i T + C_i \exp [-kT/T_c])/(V-b)^i$$

For SI units

T and T_c are in K = °C + 273.15, V is in m³/kg, and P is in kPa (abs).

$$R = 0.08716 \text{ kJ/kg}\cdot\text{K for Suva}^{\circ} 95$$

b, A_i , B_i , C_i , and k are constants:

$$A_2 = -9.859954 \text{ E-02} \quad A_4 = -2.415544 \text{ E-07}$$

$$B_2 = 1.329512 \text{ E-04} \quad B_4 = 6.399736 \text{ E-10}$$

$$C_2 = -2.750786 \text{ E+00} \quad C_4 = -3.173366 \text{ E-05}$$

$$A_3 = 1.943104 \text{ E-04} \quad A_5 = 1.741779 \text{ E-10}$$

$$B_3 = -3.673400 \text{ E-07} \quad B_5 = -5.966795 \text{ E-13}$$

$$C_3 = 8.136346 \text{ E-03} \quad C_5 = 3.819294 \text{ E-08}$$

$$b = 4.309291 \text{ E-04} \quad k = 6.250000 \text{ E+00}$$

X and Y are constants used in the vapor enthalpy and entropy equations for the Martin-Hou equation of state:

$$X = 1.860592 \text{ E+02} \quad Y = 7.702750 \text{ E-01}$$

For I/P units

T and T_c are in °R = °F + 459.67, V is in ft³/lb, and P is in psia.

$$R = 0.1125 \text{ (psia) (ft}^3\text{)/lb}\cdot\text{°R for Suva}^{\circ} 95$$

b, A_i , B_i , C_i , and k are constants:

$$A_2 = -3.669430 \text{ E+00} \quad A_4 = -2.306640 \text{ E-03}$$

$$B_2 = 2.748802 \text{ E-03} \quad B_4 = 3.395114 \text{ E-06}$$

$$C_2 = -1.023718 \text{ E+02} \quad C_4 = -3.030296 \text{ E-01}$$

$$A_3 = 1.158351 \text{ E-01} \quad A_5 = 2.664271 \text{ E-05}$$

$$B_3 = -1.216578 \text{ E-04} \quad B_5 = -5.070538 \text{ E-08}$$

$$C_3 = 4.850357 \text{ E+00} \quad C_5 = 5.842093 \text{ E-03}$$

$$b = 6.902818 \text{ E-03} \quad k = 6.250000 \text{ E+00}$$

X and Y are constants used in the vapor enthalpy and entropy equations for the Martin-Hou equation of state:

$$X = 1.923200 \text{ E+01} \quad Y = -6.939920 \text{ E-02}$$

Ideal Gas Heat Capacity (at constant pressure):

$$C_p^{\circ} = a + bT + cT^2 + dT^3$$

Ideal Gas Heat Capacity (at constant volume):

$$C_v^{\circ} = C_p^{\circ} - R$$

For SI units

$$C_p^{\circ} \text{ and } C_v^{\circ} = \text{kJ/kg}\cdot\text{K}$$

$$R = 0.08716 \text{ kJ/kg}\cdot\text{K for Suva}^{\circ} 95$$

$$T \text{ is in K} = \text{°C} + 273.15$$

a, b, c, d, are constants:

$$a = 1.585254 \text{ E-01} \quad c = -2.028597 \text{ E-06}$$

$$b = 2.544197 \text{ E-03} \quad d = 5.770334 \text{ E-10}$$

For I/P units

$$C_p^{\circ} \text{ and } C_v^{\circ} = \text{Btu/lb}\cdot\text{°R}$$

$$R = 0.02083 \text{ Btu/lb}\cdot\text{°R for Suva}^{\circ} 95$$

$$T \text{ is in } \text{°R} = \text{°F} + 459.67$$

a, b, c, d, are constants:

$$a = 3.788847 \text{ E-02} \quad c = -1.496440 \text{ E-07}$$

$$b = 3.378210 \text{ E-04} \quad d = 2.364786 \text{ E-11}$$

3. Liquid Enthalpy, Latent Enthalpy and Liquid Entropy Equations**Saturated Liquid Enthalpy:**

$$h_f = A + B\cdot X + C\cdot(X)^2 + D\cdot(X)^3 + E\cdot(X)^4 + F\cdot(X)^5$$

$$\text{where } X = (1 - T_r)^{1/3} - X_o, \text{ and } T_r = T/T_c$$

Latent Enthalpy:

$$h_{fg} = h_g - h_f$$

Saturated Liquid Entropy:

$$s_f = s_g - ([h_g - h_f]/T)$$

For SI units

h_f , h_g , and h_{fg} are in kJ/kg

s_f and s_g are in kJ/(kg) (K)

$$T \text{ and } T_c \text{ are in K} = \text{°C} + 273.15$$

A, B, C, D, E, F, and X_o are constants:

$$A = 1.410669 \text{ E+02} \quad D = 4.048125 \text{ E+02}$$

$$B = -3.562656 \text{ E+02} \quad E = 2.480000 \text{ E+03}$$

$$C = -3.493750 \text{ E+02} \quad F = 2.840000 \text{ E+03}$$

$$X_o = 5.735279 \text{ E-01}$$

For I/P units

h_f , h_g , and h_{fg} are in Btu/lb

s_f and s_g are in Btu/(lb) (°R)

T and T_c are in °R = °F + 459.67

A , B , C , D , E , F , and X_o are constants:

$$A = -9.021000 \text{ E-02} \quad D = 1.741544 \text{ E+02}$$

$$B = -1.532690 \text{ E+02} \quad E = 1.066921 \text{ E+03}$$

$$C = -1.503046 \text{ E+02} \quad F = 1.221796 \text{ E+03}$$

$$X_o = 5.735279 \text{ E-01}$$

4. Vapor Pressure

$$\log_n (P_{\text{sat}}/P_c) = 1/T_r (A + B \cdot X + C \cdot X^2 + D \cdot X^3 + E \cdot X^4 + F \cdot X^5)$$

where $X = (1 - T_r) - X_o$, and $T_r = T/T_c$

A , B , C , D , E , F , and X_o are constants:

Constants for vapor pressure of saturated liquid (bubble point), p_f :

$$A = -1.418010 \text{ E+00} \quad D = -1.453240 \text{ E+00}$$

$$B = -6.576200 \text{ E+00} \quad E = -6.623000 \text{ E-02}$$

$$C = -2.799100 \text{ E-01} \quad F = -2.917970 \text{ E+00}$$

$$X_o = 2.152446 \text{ E-01}$$

Constants for vapor pressure of saturated vapor (dew point), p_g :

$$A = -1.418424 \text{ E+00} \quad D = -4.215820 \text{ E+00}$$

$$B = -6.591629 \text{ E+00} \quad E = -1.127539 \text{ E+01}$$

$$C = -6.120300 \text{ E-01} \quad F = -2.193750 \text{ E+01}$$

$$X_o = 2.152446 \text{ E-01}$$

Because both pressure and temperature appear in the reduced form in the equation, the same constants can be used for either SI or I/P units.

For SI units

T and T_c are in K = °C + 273.15

P and P_c are in kPa (abs)

For I/P units

T and T_c are in °R = °F + 459.67

P and P_c are in psia

5. Density of the Saturated Liquid

$$d_f/D_c = A_f + B_f (1-T_r)^{(1/3)} + C_f (1-T_r)^{(2/3)} + D_f (1-T_r) + E_f (1-T_r)^{(4/3)}$$

A_f , B_f , C_f , D_f , E_f are constants:

$$A_f = 1.000000 \text{ E+00} \quad D_f = -9.550139 \text{ E+00}$$

$$B_f = -1.670326 \text{ E-01} \quad E_f = 4.713835 \text{ E+00}$$

$$C_f = 7.885847 \text{ E+00}$$

Because both density and temperature appear in the reduced form in the equation, the same constants can be used for either SI or I/P units.

For SI units

T_r and T/T_c , both in K = °C + 273.15

d_f and D_c are in kg/m³

For I/P units

T_r and T/T_c , both in °R = °F + 459.67

d_f and D_c are in lb/ft³

Table 1
Suva® 95 Saturation Properties—Temperature Table

TEMP. °F	PRESSURE psia		VOLUME ft ³ /lb		DENSITY lb/ft ³		ENTHALPY Btu/lb			ENTROPY Btu/(lb)(°R)		TEMP. °F
	LIQUID P _f	VAPOR P _g	LIQUID v _f	VAPOR v _g	LIQUID 1/v _f	VAPOR 1/v _g	LIQUID h _f	LATENT h _{fg}	VAPOR h _g	LIQUID s _f	VAPOR s _g	
-165	3.79	3.30	0.0098	9.8865	102.09	0.1011	-30.4	73.8	43.4	-0.0826	0.1678	-165
-164	3.94	3.45	0.0098	9.4801	101.94	0.1055	-30.2	73.7	43.5	-0.0820	0.1673	-164
-163	4.10	3.60	0.0098	9.0939	101.79	0.1100	-30.0	73.6	43.6	-0.0815	0.1667	-163
-162	4.27	3.77	0.0098	8.7268	101.65	0.1146	-29.8	73.6	43.7	-0.0809	0.1662	-162
-161	4.44	3.93	0.0099	8.3777	101.50	0.1194	-29.6	73.5	43.8	-0.0804	0.1657	-161
-160	4.62	4.11	0.0099	8.0455	101.35	0.1243	-29.5	73.4	44.0	-0.0798	0.1652	-160
-159	4.80	4.29	0.0099	7.7294	101.21	0.1294	-29.3	73.3	44.1	-0.0793	0.1647	-159
-158	4.99	4.47	0.0099	7.4284	101.06	0.1346	-29.1	73.3	44.2	-0.0787	0.1642	-158
-157	5.19	4.67	0.0099	7.1416	100.91	0.1400	-28.9	73.2	44.3	-0.0781	0.1637	-157
-156	5.39	4.86	0.0099	6.8683	100.76	0.1456	-28.7	73.1	44.4	-0.0776	0.1632	-156
-155	5.60	5.07	0.0099	6.6077	100.62	0.1513	-28.5	73.0	44.5	-0.0770	0.1627	-155
-154	5.81	5.28	0.0100	6.3592	100.47	0.1573	-28.3	72.9	44.6	-0.0764	0.1622	-154
-153	6.03	5.50	0.0100	6.1221	100.32	0.1633	-28.1	72.9	44.7	-0.0758	0.1618	-153
-152	6.26	5.73	0.0100	5.8958	100.17	0.1696	-27.9	72.8	44.8	-0.0753	0.1613	-152
-151	6.50	5.96	0.0100	5.6796	100.02	0.1761	-27.7	72.7	44.9	-0.0747	0.1608	-151
-150	6.74	6.20	0.0100	5.4732	99.87	0.1827	-27.6	72.6	45.1	-0.0741	0.1604	-150
-149	6.99	6.45	0.0100	5.2759	99.72	0.1895	-27.4	72.5	45.2	-0.0735	0.1599	-149
-148	7.24	6.70	0.0100	5.0873	99.57	0.1966	-27.2	72.4	45.3	-0.0729	0.1595	-148
-147	7.51	6.97	0.0101	4.9070	99.42	0.2038	-27.0	72.3	45.4	-0.0723	0.1591	-147
-146	7.78	7.24	0.0101	4.7344	99.27	0.2112	-26.8	72.2	45.5	-0.0717	0.1586	-146
-145	8.06	7.52	0.0101	4.5693	99.12	0.2189	-26.6	72.2	45.6	-0.0711	0.1582	-145
-144	8.35	7.81	0.0101	4.4113	98.97	0.2267	-26.4	72.1	45.7	-0.0705	0.1578	-144
-143	8.64	8.10	0.0101	4.2599	98.82	0.2347	-26.2	72.0	45.8	-0.0699	0.1574	-143
-142	8.95	8.41	0.0101	4.1149	98.67	0.2430	-25.9	71.9	45.9	-0.0692	0.1570	-142
-141	9.26	8.72	0.0102	3.9759	98.51	0.2515	-25.7	71.8	46.0	-0.0686	0.1566	-141
-140	9.58	9.04	0.0102	3.8427	98.36	0.2602	-25.5	71.7	46.1	-0.0680	0.1562	-140
-139	9.91	9.38	0.0102	3.7150	98.21	0.2692	-25.3	71.6	46.2	-0.0674	0.1558	-139
-138	10.25	9.72	0.0102	3.5925	98.06	0.2784	-25.1	71.5	46.3	-0.0668	0.1554	-138
-137	10.60	10.07	0.0102	3.4749	97.90	0.2878	-24.9	71.4	46.5	-0.0661	0.1550	-137
-136	10.96	10.43	0.0102	3.3620	97.75	0.2974	-24.7	71.3	46.6	-0.0655	0.1547	-136
-135	11.33	10.80	0.0102	3.2537	97.60	0.3073	-24.5	71.2	46.7	-0.0649	0.1543	-135
-134	11.71	11.18	0.0103	3.1496	97.44	0.3175	-24.3	71.0	46.8	-0.0642	0.1539	-134
-133	12.10	11.57	0.0103	3.0496	97.29	0.3279	-24.1	70.9	46.9	-0.0636	0.1535	-133
-132	12.50	11.97	0.0103	2.9536	97.13	0.3386	-23.8	70.8	47.0	-0.0630	0.1532	-132
-131	12.90	12.39	0.0103	2.8612	96.98	0.3495	-23.6	70.7	47.1	-0.0623	0.1528	-131
-130	13.32	12.81	0.0103	2.7724	96.82	0.3607	-23.4	70.6	47.2	-0.0617	0.1525	-130
-129	13.75	13.24	0.0103	2.6869	96.67	0.3722	-23.2	70.5	47.3	-0.0611	0.1521	-129
-128	14.20	13.69	0.0104	2.6047	96.51	0.3839	-23.0	70.4	47.4	-0.0604	0.1518	-128
-127	14.65	14.15	0.0104	2.5256	96.36	0.3959	-22.8	70.3	47.5	-0.0598	0.1515	-127
-126	15.11	14.61	0.0104	2.4495	96.20	0.4082	-22.5	70.2	47.6	-0.0591	0.1511	-126
-125	15.59	15.10	0.0104	2.3761	96.04	0.4208	-22.3	70.0	47.7	-0.0585	0.1508	-125
-124	16.08	15.59	0.0104	2.3055	95.88	0.4337	-22.1	69.9	47.8	-0.0578	0.1505	-124
-123	16.58	16.09	0.0104	2.2375	95.73	0.4469	-21.9	69.8	47.9	-0.0572	0.1502	-123
-122	17.09	16.61	0.0105	2.1719	95.57	0.4604	-21.6	69.7	48.0	-0.0565	0.1498	-122
-121	17.61	17.14	0.0105	2.1087	95.41	0.4742	-21.4	69.6	48.1	-0.0559	0.1495	-121
-120	18.15	17.68	0.0105	2.0477	95.25	0.4884	-21.2	69.4	48.2	-0.0552	0.1492	-120
-119	18.70	18.24	0.0105	1.9889	95.09	0.5028	-21.0	69.3	48.3	-0.0545	0.1489	-119
-118	19.26	18.81	0.0105	1.9322	94.93	0.5175	-20.7	69.2	48.4	-0.0539	0.1486	-118
-117	19.84	19.39	0.0106	1.8774	94.77	0.5326	-20.5	69.1	48.5	-0.0532	0.1483	-117
-116	20.43	19.98	0.0106	1.8246	94.61	0.5481	-20.3	68.9	48.6	-0.0525	0.1480	-116
-115	21.03	20.59	0.0106	1.7736	94.45	0.5638	-20.0	68.8	48.7	-0.0519	0.1477	-115
-114	21.65	21.22	0.0106	1.7244	94.29	0.5799	-19.8	68.7	48.9	-0.0512	0.1474	-114
-113	22.28	21.86	0.0106	1.6768	94.13	0.5964	-19.6	68.5	49.0	-0.0505	0.1471	-113
-112	22.93	22.51	0.0106	1.6308	93.97	0.6132	-19.3	68.4	49.1	-0.0499	0.1468	-112
-111	23.59	23.18	0.0107	1.5864	93.80	0.6303	-19.1	68.3	49.2	-0.0492	0.1466	-111
-110	24.26	23.86	0.0107	1.5435	93.64	0.6479	-18.9	68.1	49.3	-0.0485	0.1463	-110
-109	24.95	24.56	0.0107	1.5020	93.48	0.6658	-18.6	68.0	49.4	-0.0479	0.1460	-109
-108	25.66	25.27	0.0107	1.4619	93.31	0.6841	-18.4	67.9	49.5	-0.0472	0.1457	-108
-107	26.38	26.00	0.0107	1.4231	93.15	0.7027	-18.2	67.7	49.6	-0.0465	0.1455	-107
-106	27.12	26.75	0.0108	1.3855	92.98	0.7218	-17.9	67.6	49.7	-0.0458	0.1452	-106

Table 1 (continued)
Suva® 95 Saturation Properties—Temperature Table

TEMP. °F	PRESSURE psia		VOLUME ft ³ /lb		DENSITY lb/ft ³		ENTHALPY Btu/lb			ENTROPY Btu/(lb)(°R)		TEMP. °F
	LIQUID P _f	VAPOR P _g	LIQUID V _f	VAPOR V _g	LIQUID 1/V _f	VAPOR 1/V _g	LIQUID h _f	LATENT h _{fg}	VAPOR h _g	LIQUID s _f	VAPOR s _g	
-105	27.87	27.51	0.0108	1.3492	92.82	0.7412	-17.7	67.4	49.8	-0.0452	0.1450	-105
-104	28.64	28.28	0.0108	1.3140	92.65	0.7610	-17.4	67.3	49.9	-0.0445	0.1447	-104
-103	29.43	29.08	0.0108	1.2800	92.49	0.7813	-17.2	67.1	50.0	-0.0438	0.1444	-103
-102	30.23	29.89	0.0108	1.2470	92.32	0.8019	-16.9	67.0	50.1	-0.0431	0.1442	-102
-101	31.05	30.72	0.0109	1.2151	92.15	0.8230	-16.7	66.8	50.2	-0.0424	0.1439	-101
-100	31.89	31.56	0.0109	1.1841	91.99	0.8445	-16.4	66.7	50.3	-0.0418	0.1437	-100
-99	32.74	32.43	0.0109	1.1542	91.82	0.8664	-16.2	66.5	50.4	-0.0411	0.1434	-99
-98	33.62	33.31	0.0109	1.1251	91.65	0.8888	-16.0	66.4	50.4	-0.0404	0.1432	-98
-97	34.51	34.20	0.0109	1.0970	91.48	0.9116	-15.7	66.2	50.5	-0.0397	0.1430	-97
-96	35.42	35.12	0.0110	1.0697	91.31	0.9348	-15.5	66.1	50.6	-0.0390	0.1427	-96
-95	36.34	36.06	0.0110	1.0433	91.14	0.9585	-15.2	65.9	50.7	-0.0383	0.1425	-95
-94	37.29	37.01	0.0110	1.0176	90.97	0.9827	-14.9	65.8	50.8	-0.0377	0.1422	-94
-93	38.26	37.98	0.0110	0.9927	90.80	1.0073	-14.7	65.6	50.9	-0.0370	0.1420	-93
-92	39.24	38.98	0.0110	0.9686	90.63	1.0324	-14.4	65.5	51.0	-0.0363	0.1418	-92
-91	40.24	39.99	0.0111	0.9452	90.45	1.0580	-14.2	65.3	51.1	-0.0356	0.1416	-91
-90	41.27	41.02	0.0111	0.9224	90.28	1.0841	-13.9	65.2	51.2	-0.0349	0.1413	-90
-89	42.31	42.07	0.0111	0.9004	90.11	1.1106	-13.7	65.0	51.3	-0.0342	0.1411	-89
-88	43.38	43.14	0.0111	0.8790	89.93	1.1377	-13.4	64.8	51.4	-0.0335	0.1409	-88
-87	44.46	44.24	0.0111	0.8581	89.76	1.1653	-13.2	64.7	51.5	-0.0328	0.1407	-87
-86	45.57	45.35	0.0112	0.8379	89.58	1.1934	-12.9	64.5	51.6	-0.0321	0.1405	-86
-85	46.69	46.48	0.0112	0.8183	89.41	1.2220	-12.6	64.3	51.7	-0.0315	0.1402	-85
-84	47.84	47.64	0.0112	0.7992	89.23	1.2512	-12.4	64.2	51.8	-0.0308	0.1400	-84
-83	49.01	48.81	0.0112	0.7807	89.05	1.2809	-12.1	64.0	51.9	-0.0301	0.1398	-83
-82	50.20	50.01	0.0113	0.7627	88.88	1.3111	-11.9	63.8	52.0	-0.0294	0.1396	-82
-81	51.42	51.23	0.0113	0.7452	88.70	1.3419	-11.6	63.7	52.1	-0.0287	0.1394	-81
-80	52.65	52.48	0.0113	0.7282	88.52	1.3733	-11.3	63.5	52.2	-0.0280	0.1392	-80
-79	53.91	53.74	0.0113	0.7116	88.34	1.4052	-11.1	63.3	52.2	-0.0273	0.1390	-79
-78	55.19	55.03	0.0113	0.6955	88.16	1.4377	-10.8	63.1	52.3	-0.0266	0.1388	-78
-77	56.50	56.34	0.0114	0.6799	87.98	1.4708	-10.5	63.0	52.4	-0.0259	0.1386	-77
-76	57.83	57.68	0.0114	0.6647	87.79	1.5045	-10.3	62.8	52.5	-0.0252	0.1384	-76
-75	59.18	59.04	0.0114	0.6498	87.61	1.5388	-10.0	62.6	52.6	-0.0245	0.1382	-75
-74	60.56	60.42	0.0114	0.6354	87.43	1.5738	-9.7	62.4	52.7	-0.0238	0.1380	-74
-73	61.96	61.83	0.0115	0.6214	87.25	1.6093	-9.4	62.2	52.8	-0.0231	0.1378	-73
-72	63.38	63.26	0.0115	0.6077	87.06	1.6455	-9.2	62.0	52.9	-0.0224	0.1376	-72
-71	64.83	64.72	0.0115	0.5944	86.87	1.6823	-8.9	61.9	53.0	-0.0217	0.1374	-71
-70	66.31	66.20	0.0115	0.5815	86.69	1.7198	-8.6	61.7	53.1	-0.0210	0.1373	-70
-69	67.81	67.70	0.0116	0.5689	86.50	1.7579	-8.3	61.5	53.1	-0.0203	0.1371	-69
-68	69.34	69.24	0.0116	0.5566	86.31	1.7967	-8.1	61.3	53.2	-0.0196	0.1369	-68
-67	70.89	70.79	0.0116	0.5446	86.13	1.8362	-7.8	61.1	53.3	-0.0189	0.1367	-67
-66	72.47	72.38	0.0116	0.5330	85.94	1.8763	-7.5	60.9	53.4	-0.0182	0.1365	-66
-65	74.08	73.99	0.0117	0.5216	85.75	1.9172	-7.2	60.7	53.5	-0.0175	0.1363	-65
-64	75.71	75.63	0.0117	0.5105	85.55	1.9588	-7.0	60.5	53.6	-0.0168	0.1362	-64
-63	77.37	77.29	0.0117	0.4997	85.36	2.0011	-6.7	60.3	53.7	-0.0161	0.1360	-63
-62	79.06	78.98	0.0117	0.4892	85.17	2.0441	-6.4	60.1	53.7	-0.0154	0.1358	-62
-61	80.78	80.70	0.0118	0.4790	84.98	2.0879	-6.1	59.9	53.8	-0.0147	0.1356	-61
-60	82.52	82.45	0.0118	0.4690	84.78	2.1324	-5.8	59.7	53.9	-0.0140	0.1355	-60
-59	84.29	84.23	0.0118	0.4592	84.59	2.1777	-5.6	59.5	54.0	-0.0133	0.1353	-59
-58	86.09	86.03	0.0118	0.4497	84.39	2.2237	-5.3	59.3	54.1	-0.0126	0.1351	-58
-57	87.92	87.87	0.0119	0.4404	84.19	2.2706	-5.0	59.1	54.2	-0.0119	0.1349	-57
-56	89.78	89.73	0.0119	0.4314	83.99	2.3182	-4.7	58.9	54.2	-0.0112	0.1348	-56
-55	91.67	91.62	0.0119	0.4225	83.79	2.3667	-4.4	58.7	54.3	-0.0105	0.1346	-55
-54	93.59	93.54	0.0120	0.4139	83.59	2.4160	-4.1	58.5	54.4	-0.0098	0.1344	-54
-53	95.54	95.49	0.0120	0.4055	83.39	2.4661	-3.8	58.3	54.5	-0.0091	0.1343	-53
-52	97.52	97.47	0.0120	0.3973	83.19	2.5171	-3.5	58.1	54.6	-0.0084	0.1341	-52
-51	99.53	99.49	0.0120	0.3893	82.99	2.5689	-3.2	57.9	54.6	-0.0077	0.1339	-51
-50	101.57	101.53	0.0121	0.3814	82.78	2.6216	-3.0	57.7	54.7	-0.0070	0.1338	-50
-49	103.64	103.60	0.0121	0.3738	82.58	2.6752	-2.7	57.5	54.8	-0.0063	0.1336	-49
-48	105.75	105.71	0.0121	0.3663	82.37	2.7297	-2.4	57.3	54.9	-0.0056	0.1335	-48
-47	107.88	107.85	0.0122	0.3591	82.16	2.7851	-2.1	57.0	55.0	-0.0049	0.1333	-47
-46	110.05	110.02	0.0122	0.3519	81.96	2.8415	-1.8	56.8	55.0	-0.0042	0.1331	-46

Table 1 (continued)
Suva® 95 Saturation Properties—Temperature Table

TEMP. °F	PRESSURE psia		VOLUME ft ³ /lb		DENSITY lb/ft ³		ENTHALPY Btu/lb			ENTROPY Btu/(lb)(°R)		TEMP. °F
	LIQUID P _f	VAPOR P _g	LIQUID V _f	VAPOR V _g	LIQUID 1/V _f	VAPOR 1/V _g	LIQUID h _f	LATENT h _{fg}	VAPOR h _g	LIQUID s _f	VAPOR s _g	
-45	112.25	112.22	0.0122	0.3450	81.75	2.8987	-1.5	56.6	55.1	-0.0035	0.1330	-45
-44	114.48	114.46	0.0123	0.3382	81.53	2.9570	-1.2	56.4	55.2	-0.0028	0.1328	-44
-43	116.75	116.72	0.0123	0.3315	81.32	3.0162	-0.9	56.2	55.3	-0.0021	0.1327	-43
-42	119.05	119.02	0.0123	0.3250	81.11	3.0765	-0.6	55.9	55.3	-0.0014	0.1325	-42
-41	121.39	121.36	0.0124	0.3187	80.89	3.1377	-0.3	55.7	55.4	-0.0007	0.1323	-41
-40	123.76	123.73	0.0124	0.3125	80.68	3.1999	0.0	55.5	55.5	0.0000	0.1322	-40
-39	126.16	126.13	0.0124	0.3064	80.46	3.2632	0.3	55.2	55.6	0.0007	0.1320	-39
-38	128.60	128.57	0.0125	0.3005	80.24	3.3276	0.6	55.0	55.6	0.0014	0.1319	-38
-37	131.07	131.04	0.0125	0.2947	80.02	3.3930	0.9	54.8	55.7	0.0021	0.1317	-37
-36	133.58	133.55	0.0125	0.2891	79.80	3.4596	1.2	54.6	55.8	0.0028	0.1316	-36
-35	136.12	136.09	0.0126	0.2835	79.58	3.5272	1.5	54.3	55.8	0.0035	0.1314	-35
-34	138.70	138.67	0.0126	0.2781	79.36	3.5960	1.8	54.1	55.9	0.0042	0.1313	-34
-33	141.32	141.29	0.0126	0.2728	79.13	3.6659	2.1	53.8	56.0	0.0049	0.1311	-33
-32	143.97	143.94	0.0127	0.2676	78.90	3.7370	2.4	53.6	56.0	0.0056	0.1310	-32
-31	146.66	146.63	0.0127	0.2625	78.68	3.8093	2.7	53.4	56.1	0.0063	0.1308	-31
-30	149.39	149.36	0.0127	0.2575	78.45	3.8828	3.1	53.1	56.2	0.0070	0.1306	-30
-29	152.15	152.12	0.0128	0.2527	78.22	3.9575	3.4	52.9	56.2	0.0077	0.1305	-29
-28	154.96	154.92	0.0128	0.2479	77.98	4.0335	3.7	52.6	56.3	0.0084	0.1303	-28
-27	157.80	157.76	0.0129	0.2433	77.75	4.1107	4.0	52.4	56.4	0.0091	0.1302	-27
-26	160.68	160.64	0.0129	0.2387	77.51	4.1893	4.3	52.1	56.4	0.0099	0.1300	-26
-25	163.60	163.56	0.0129	0.2342	77.27	4.2692	4.6	51.9	56.5	0.0106	0.1299	-25
-24	166.55	166.51	0.0130	0.2299	77.03	4.3504	4.9	51.6	56.5	0.0113	0.1297	-24
-23	169.55	169.51	0.0130	0.2256	76.79	4.4330	5.3	51.4	56.6	0.0120	0.1296	-23
-22	172.59	172.54	0.0131	0.2214	76.55	4.5170	5.6	51.1	56.7	0.0127	0.1294	-22
-21	175.66	175.62	0.0131	0.2173	76.31	4.6024	5.9	50.8	56.7	0.0134	0.1293	-21
-20	178.78	178.73	0.0131	0.2133	76.06	4.6893	6.2	50.6	56.8	0.0141	0.1291	-20
-19	181.94	181.89	0.0132	0.2093	75.81	4.7777	6.5	50.3	56.8	0.0148	0.1290	-19
-18	185.14	185.09	0.0132	0.2054	75.56	4.8675	6.9	50.0	56.9	0.0155	0.1288	-18
-17	188.38	188.32	0.0133	0.2017	75.31	4.9589	7.2	49.8	56.9	0.0162	0.1287	-17
-16	191.66	191.60	0.0133	0.1979	75.05	5.0519	7.5	49.5	57.0	0.0169	0.1285	-16
-15	194.99	194.93	0.0134	0.1943	74.80	5.1465	7.8	49.2	57.1	0.0176	0.1284	-15
-14	198.36	198.29	0.0134	0.1907	74.54	5.2427	8.1	49.0	57.1	0.0184	0.1282	-14
-13	201.77	201.70	0.0135	0.1872	74.28	5.3405	8.5	48.7	57.2	0.0191	0.1280	-13
-12	205.22	205.15	0.0135	0.1838	74.02	5.4401	8.8	48.4	57.2	0.0198	0.1279	-12
-11	208.72	208.64	0.0136	0.1805	73.75	5.5414	9.1	48.1	57.2	0.0205	0.1277	-11
-10	212.26	212.18	0.0136	0.1772	73.48	5.6445	9.5	47.8	57.3	0.0212	0.1276	-10
-9	215.84	215.76	0.0137	0.1739	73.21	5.7494	9.8	47.5	57.3	0.0219	0.1274	-9
-8	219.47	219.39	0.0137	0.1708	72.94	5.8561	10.1	47.3	57.4	0.0226	0.1273	-8
-7	223.15	223.06	0.0138	0.1677	72.67	5.9647	10.5	47.0	57.4	0.0234	0.1271	-7
-6	226.87	226.78	0.0138	0.1646	72.39	6.0753	10.8	46.7	57.5	0.0241	0.1269	-6
-5	230.63	230.54	0.0139	0.1616	72.11	6.1878	11.1	46.4	57.5	0.0248	0.1268	-5
-4	234.44	234.35	0.0139	0.1587	71.83	6.3024	11.5	46.1	57.5	0.0255	0.1266	-4
-3	238.30	238.20	0.0140	0.1558	71.54	6.4190	11.8	45.8	57.6	0.0262	0.1264	-3
-2	242.20	242.10	0.0140	0.1530	71.25	6.5377	12.2	45.5	57.6	0.0270	0.1263	-2
-1	246.15	246.05	0.0141	0.1502	70.96	6.6586	12.5	45.1	57.6	0.0277	0.1261	-1
0	250.15	250.04	0.0142	0.1475	70.67	6.7818	12.8	44.8	57.7	0.0284	0.1259	0
1	254.20	254.08	0.0142	0.1448	70.37	6.9072	13.2	44.5	57.7	0.0291	0.1258	1
2	258.29	258.17	0.0143	0.1421	70.07	7.0349	13.5	44.2	57.7	0.0299	0.1256	2
3	262.43	262.31	0.0143	0.1396	69.77	7.1650	13.9	43.9	57.8	0.0306	0.1254	3
4	266.62	266.50	0.0144	0.1370	69.46	7.2976	14.2	43.5	57.8	0.0313	0.1252	4
5	270.86	270.73	0.0145	0.1345	69.15	7.4327	14.6	43.2	57.8	0.0321	0.1251	5
6	275.15	275.02	0.0145	0.1321	68.83	7.5703	15.0	42.9	57.8	0.0328	0.1249	6
7	279.48	279.35	0.0146	0.1297	68.52	7.7107	15.3	42.5	57.9	0.0335	0.1247	7
8	283.87	283.74	0.0147	0.1273	68.19	7.8537	15.7	42.2	57.9	0.0343	0.1245	8
9	288.31	288.17	0.0147	0.1250	67.87	7.9995	16.0	41.9	57.9	0.0350	0.1243	9
10	292.80	292.66	0.0148	0.1227	67.54	8.1483	16.4	41.5	57.9	0.0358	0.1241	10
11	297.34	297.19	0.0149	0.1205	67.21	8.2999	16.8	41.2	57.9	0.0365	0.1240	11
12	301.93	301.78	0.0150	0.1183	66.87	8.4547	17.1	40.8	57.9	0.0373	0.1238	12
13	306.58	306.42	0.0150	0.1161	66.53	8.6126	17.5	40.4	57.9	0.0380	0.1236	13
14	311.27	311.12	0.0151	0.1140	66.18	8.7737	17.9	40.1	57.9	0.0388	0.1234	14

Table 1 (continued)
Suva® 95 Saturation Properties—Temperature Table

TEMP. °F	PRESSURE psia		VOLUME ft ³ /lb		DENSITY lb/ft ³		ENTHALPY Btu/lb			ENTROPY Btu/(lb)(°R)		TEMP. °F
	LIQUID p _f	VAPOR p _g	LIQUID v _f	VAPOR v _g	LIQUID 1/v _f	VAPOR 1/v _g	LIQUID h _f	LATENT h _{fg}	VAPOR h _g	LIQUID s _f	VAPOR s _g	
15	316.02	315.86	0.0152	0.1119	65.83	8.9381	18.3	39.7	58.0	0.0395	0.1232	15
16	320.82	320.66	0.0153	0.1098	65.47	9.1060	18.6	39.3	58.0	0.0403	0.1230	16
17	325.67	325.51	0.0154	0.1078	65.11	9.2774	19.0	38.9	58.0	0.0411	0.1228	17
18	330.58	330.42	0.0154	0.1058	64.74	9.4525	19.4	38.5	57.9	0.0419	0.1225	18
19	335.54	335.37	0.0155	0.1038	64.37	9.6314	19.8	38.1	57.9	0.0426	0.1223	19
20	340.56	340.39	0.0156	0.1019	63.99	9.8143	20.2	37.7	57.9	0.0434	0.1221	20
21	345.63	345.46	0.0157	0.1000	63.61	10.0012	20.6	37.3	57.9	0.0442	0.1219	21
22	350.76	350.58	0.0158	0.0981	63.22	10.1922	21.0	36.9	57.9	0.0450	0.1217	22
23	355.94	355.76	0.0159	0.0963	62.82	10.3877	21.4	36.5	57.9	0.0458	0.1214	23
24	361.18	361.00	0.0160	0.0944	62.42	10.5877	21.8	36.1	57.9	0.0466	0.1212	24
25	366.47	366.29	0.0161	0.0927	62.01	10.7923	22.2	35.6	57.8	0.0474	0.1209	25
26	371.82	371.64	0.0162	0.0909	61.59	11.0019	22.6	35.2	57.8	0.0483	0.1207	26
27	377.23	377.04	0.0163	0.0892	61.16	11.2164	23.1	34.7	57.8	0.0491	0.1204	27
28	382.70	382.51	0.0165	0.0874	60.73	11.4363	23.5	34.3	57.7	0.0499	0.1202	28
29	388.22	388.03	0.0166	0.0858	60.29	11.6617	23.9	33.8	57.7	0.0508	0.1199	29
30	393.81	393.61	0.0167	0.0841	59.84	11.8928	24.4	33.3	57.6	0.0517	0.1196	30
31	399.45	399.25	0.0168	0.0824	59.38	12.1298	24.8	32.8	57.6	0.0525	0.1194	31
32	405.15	404.95	0.0170	0.0808	58.91	12.3731	25.3	32.3	57.5	0.0534	0.1191	32
33	410.91	410.71	0.0171	0.0792	58.42	12.6229	25.7	31.8	57.5	0.0543	0.1188	33
34	416.73	416.53	0.0173	0.0776	57.93	12.8794	26.2	31.2	57.4	0.0552	0.1185	34
35	422.61	422.41	0.0174	0.0761	57.43	13.1432	26.7	30.7	57.4	0.0562	0.1182	35
36	428.55	428.35	0.0176	0.0745	56.91	13.4143	27.2	30.1	57.3	0.0571	0.1179	36
37	434.55	434.35	0.0177	0.0730	56.38	13.6933	27.7	29.5	57.2	0.0581	0.1175	37
38	440.61	440.41	0.0179	0.0715	55.83	13.9805	28.2	28.9	57.1	0.0591	0.1172	38
39	446.74	446.54	0.0181	0.0700	55.27	14.2763	28.7	28.3	57.0	0.0601	0.1168	39
40	452.93	452.73	0.0183	0.0686	54.70	14.5811	29.3	27.7	56.9	0.0611	0.1165	40
41	459.18	458.98	0.0185	0.0671	54.10	14.8954	29.8	27.0	56.8	0.0622	0.1161	41
42	465.50	465.30	0.0187	0.0657	53.49	15.2195	30.4	26.3	56.7	0.0633	0.1157	42
43	471.88	471.68	0.0189	0.0643	52.85	15.5540	31.0	25.6	56.6	0.0644	0.1153	43
44	478.32	478.12	0.0192	0.0629	52.19	15.8993	31.6	24.9	56.4	0.0656	0.1149	44
45	484.83	484.63	0.0194	0.0615	51.50	16.2558	32.2	24.1	56.3	0.0668	0.1145	45
46	491.40	491.21	0.0197	0.0602	50.78	16.6240	32.9	23.3	56.2	0.0681	0.1141	46
47	498.04	497.85	0.0200	0.0588	50.03	17.0041	33.6	22.4	56.0	0.0694	0.1136	47
48	504.75	504.56	0.0203	0.0575	49.25	17.3963	34.3	21.5	55.9	0.0708	0.1132	48
49	511.53	511.33	0.0207	0.0562	48.42	17.8007	35.1	20.6	55.7	0.0723	0.1127	49
50	518.37	518.18	0.0210	0.0549	47.53	18.2169	36.0	19.5	55.5	0.0739	0.1122	50
51	525.28	525.09	0.0215	0.0536	46.59	18.6443	36.9	18.5	55.3	0.0756	0.1117	51
52	532.26	532.07	0.0219	0.0524	45.57	19.0819	37.8	17.3	55.1	0.0774	0.1112	52
53	539.31	539.12	0.0225	0.0512	44.46	19.5281	38.9	16.0	55.0	0.0795	0.1107	53
54	546.42	546.23	0.0231	0.0500	43.22	19.9804	40.2	14.6	54.8	0.0818	0.1102	54
55	553.61	553.42	0.0239	0.0489	41.80	20.4360	41.6	13.0	54.6	0.0845	0.1098	55

Table 2
Suva® 95 Superheated Vapor—Constant Pressure Tables

V = Volume in ft³/lb H = Enthalpy in Btu/lb S = Entropy in Btu/(lb) (°R) (Saturated Vapor Properties in parentheses)

ABSOLUTE PRESSURE, psia													
TEMP. °F	1.00			2.00			3.00			4.00			TEMP. °F
	(-188.58°F)			(-175.56°F)			(-167.01°F)			(-160.61°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
	(30.2808)	(40.8)	(0.1831)	(15.7926)	(42.2)	(0.1740)	(10.7995)	(43.2)	(0.1690)	8.2487)	(43.9)	(0.1655)	
-180	31.2658	41.8	0.1869	—	—	—	—	—	—	—	—	—	-180
-170	32.4111	43.1	0.1912	16.1164	42.9	0.1765	—	—	—	—	—	—	-170
-160	33.5536	44.3	0.1955	16.6966	44.2	0.1808	11.0771	44.1	0.1721	8.2670	44.0	0.1658	-160
-150	34.6938	45.6	0.1998	17.2744	45.5	0.1851	11.4676	45.4	0.1764	8.5639	45.3	0.1701	-150
-140	35.8320	46.9	0.2039	17.8503	46.8	0.1893	11.8561	46.7	0.1806	8.8588	46.6	0.1744	-140
-130	36.9686	48.3	0.2080	18.4244	48.2	0.1934	12.2428	48.1	0.1848	9.1518	48.0	0.1786	-130
-120	38.1037	49.6	0.2121	18.9971	49.5	0.1975	12.6281	49.5	0.1889	9.4434	49.4	0.1827	-120
-110	39.2377	51.0	0.2161	19.5686	50.9	0.2015	13.0121	50.9	0.1929	9.7338	50.8	0.1868	-110
-100	40.3705	52.4	0.2201	20.1390	52.4	0.2055	13.3951	52.3	0.1969	10.0230	52.2	0.1908	-100
-90	41.5025	53.8	0.2240	20.7085	53.8	0.2094	13.7771	53.7	0.2009	10.3113	53.7	0.1948	-90
-80	42.6337	55.3	0.2279	21.2773	55.2	0.2133	14.1584	55.2	0.2048	10.5989	55.1	0.1987	-80
-70	43.7643	56.8	0.2317	21.8453	56.7	0.2172	14.5389	56.7	0.2086	10.8857	56.6	0.2025	-70
-60	44.8942	58.3	0.2355	22.4128	58.2	0.2210	14.9189	58.2	0.2124	11.1720	58.1	0.2064	-60
-50	46.0237	59.8	0.2392	22.9798	59.7	0.2247	15.2984	59.7	0.2162	11.4577	59.7	0.2102	-50
-40	47.1527	61.3	0.2430	23.5463	61.3	0.2285	15.6775	61.3	0.2200	11.7430	61.2	0.2139	-40
-30	48.2813	62.9	0.2467	24.1125	62.9	0.2322	16.0561	62.8	0.2237	12.0279	62.8	0.2176	-30
-20	49.4097	64.5	0.2503	24.6783	64.4	0.2358	16.4344	64.4	0.2273	12.3125	64.4	0.2213	-20
-10	50.5377	66.1	0.2539	25.2438	66.1	0.2394	16.8125	66.0	0.2309	12.5968	66.0	0.2249	-10
0	51.6654	67.7	0.2575	25.8090	67.7	0.2430	17.1902	67.7	0.2345	12.8808	67.6	0.2285	0
10	52.7929	69.4	0.2611	26.3741	69.3	0.2466	17.5678	69.3	0.2381	13.1646	69.3	0.2321	10
20	53.9203	71.0	0.2646	26.9389	71.0	0.2501	17.9451	71.0	0.2416	13.4482	71.0	0.2356	20
30	55.0474	72.7	0.2681	27.5035	72.7	0.2536	18.3222	72.7	0.2451	13.7316	72.7	0.2391	30
40	56.1744	74.4	0.2715	28.0680	74.4	0.2571	18.6992	74.4	0.2486	14.0148	74.4	0.2426	40
50	57.3012	76.2	0.2750	28.6324	76.2	0.2605	19.0761	76.1	0.2520	14.2979	76.1	0.2460	50
60	58.4280	77.9	0.2784	29.1966	77.9	0.2639	19.4528	77.9	0.2554	14.5809	77.9	0.2494	60
70	59.5546	79.7	0.2818	29.7607	79.7	0.2673	19.8294	79.7	0.2588	14.8638	79.6	0.2528	70
80	60.6811	81.5	0.2851	30.3247	81.5	0.2707	20.2060	81.5	0.2622	15.1466	81.4	0.2562	80
90	61.8075	83.3	0.2884	30.8887	83.3	0.2740	20.5824	83.3	0.2655	15.4292	83.3	0.2595	90
100	62.9338	85.2	0.2918	31.4525	85.1	0.2773	20.9587	85.1	0.2688	15.7118	85.1	0.2628	100
110	64.0601	87.0	0.2950	32.0163	87.0	0.2806	21.3350	87.0	0.2721	15.9943	87.0	0.2661	110
120	65.1863	88.9	0.2983	32.5800	88.9	0.2838	21.7112	88.8	0.2754	16.2768	88.8	0.2694	120
130	66.3126	90.8	0.2871	22.0873	90.7	0.2786	16.5592	90.7	0.2726	—	—	—	130
140	22.4634	92.6	0.2818	16.8415	92.6	0.2758	—	—	—	—	—	—	140

TEMP. °F	5.00			6.00			7.00			8.00			TEMP. °F
	(-155.33°F)			(-150.82°F)			(-146.87°F)			(-143.34°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
	(6.6934)	(44.5)	(0.1629)	(5.643)	(45.0)	(0.1608)	(4.8845)	(45.4)	(0.1590)	(4.3103)	(45.8)	(0.1575)	
-150	6.8215	45.2	0.1652	5.6597	45.1	0.1611	—	—	—	—	—	—	-150
-140	7.0602	46.5	0.1695	5.8610	46.4	0.1655	5.0044	46.3	0.1620	4.3617	46.2	0.1590	-140
-130	7.2971	47.9	0.1737	6.0605	47.8	0.1697	5.1772	47.7	0.1663	4.5146	47.6	0.1633	-130
-120	7.5325	49.3	0.1779	6.2585	49.2	0.1739	5.3484	49.1	0.1705	4.6588	49.1	0.1676	-120
-110	7.7667	50.7	0.1820	6.4552	50.6	0.1780	5.5184	50.6	0.1747	4.8157	50.5	0.1717	-110
-100	7.9997	52.1	0.1860	6.6508	52.1	0.1821	5.6872	52.0	0.1787	4.9645	51.9	0.1758	-100
-90	8.2318	53.6	0.1900	6.8454	53.5	0.1861	5.8551	53.5	0.1827	5.1123	53.4	0.1798	-90
-80	8.4631	55.1	0.1939	7.0393	55.0	0.1900	6.0222	55.0	0.1867	5.2593	54.9	0.1838	-80
-70	8.6937	56.6	0.1978	7.2324	56.5	0.1939	6.1885	56.5	0.1906	5.4056	56.4	0.1877	-70
-60	8.9238	58.1	0.2016	7.4249	58.0	0.1978	6.3543	58.0	0.1945	5.5513	57.9	0.1916	-60
-50	9.1533	59.6	0.2054	7.6170	59.6	0.2016	6.5196	59.5	0.1983	5.6965	59.5	0.1954	-50
-40	9.3823	61.2	0.2092	7.8085	61.1	0.2053	6.6844	61.1	0.2020	5.8412	61.0	0.1992	-40
-30	9.6110	62.7	0.2129	7.9997	62.7	0.2090	6.8488	62.7	0.2058	5.9855	62.6	0.2029	-30
-20	9.8393	64.3	0.2166	8.1905	64.3	0.2127	7.0128	64.3	0.2094	6.1295	64.2	0.2066	-20
-10	10.0674	66.0	0.2202	8.3811	65.9	0.2163	7.1766	65.9	0.2131	6.2732	65.9	0.2103	-10
0	10.2951	67.6	0.2238	8.5714	67.6	0.2200	7.3401	67.5	0.2167	6.4166	67.5	0.2139	0
10	10.5227	69.3	0.2274	8.7614	69.2	0.2235	7.5033	69.2	0.2203	6.5598	69.2	0.2174	10
20	10.7500	70.9	0.2309	8.9513	70.9	0.2271	7.6664	70.9	0.2238	6.7028	70.8	0.2210	20
30	10.9772	72.6	0.2344	9.1409	72.6	0.2306	7.8293	72.6	0.2273	6.8456	72.6	0.2245	30
40	11.2042	74.4	0.2379	9.3304	74.3	0.2341	7.9920	74.3	0.2308	6.9882	74.3	0.2280	40
50	11.4310	76.1	0.2413	9.5198	76.1	0.2375	8.1546	76.0	0.2343	7.1307	76.0	0.2314	50
60	11.6578	77.8	0.2448	9.7090	77.8	0.2409	8.3170	77.8	0.2377	7.2730	77.8	0.2349	60
70	11.8844	79.6	0.2481	9.8981	79.6	0.2443	8.4794	79.6	0.2411	7.4153	79.6	0.2383	70
80	12.1109	81.4	0.2515	10.0872	81.4	0.2477	8.6416	81.4	0.2444	7.5574	81.4	0.2416	80
90	12.3373	83.2	0.2548	10.2761	83.2	0.2510	8.8037	83.2	0.2478	7.6995	83.2	0.2450	90
100	12.5637	85.1	0.2582	10.4649	85.1	0.2543	8.9658	85.0	0.2511	7.8415	85.0	0.2483	100
110	12.7900	86.9	0.2614	10.6537	86.9	0.2576	9.1278	86.9	0.2544	7.9834	86.9	0.2516	110
120	13.0162	88.8	0.2647	10.8424	88.8	0.2609	9.2897	88.8	0.2577	8.1252	88.8	0.2548	120
130	13.2423	90.7	0.2679	11.0310	90.7	0.2641	9.4516	90.7	0.2609	8.2670	90.7	0.2581	130
140	13.4684	92.6	0.2712	11.2196	92.6	0.2673	9.6134	92.6	0.2641	8.4087	92.6	0.2613	140
150	13.6944	94.5	0.2743	11.4081	94.5	0.2705	9.7751	94.5	0.2673	8.5503	94.5	0.2645	150
160	9.9368	96.5	0.2705	8.6919	96.4	0.2677	—	—	—	—	—	—	160

Table 2 (continued)
Suva® 95 Superheated Vapor—Constant Pressure Tables

V = Volume in ft³/lb H = Enthalpy in Btu/lb S = Entropy in Btu/(lb) (°R) (Saturated Vapor Properties in parentheses)

ABSOLUTE PRESSURE, psia													TEMP. °F
TEMP. °F	9.00			10.00			11.00			12.00			
	(-140.13°F)			(-137.19°F)			(-134.47°F)			(-131.94°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
(3.8600)	(46.1)	(0.1562)	(3.4971)	(46.4)	(0.1551)	(3.1981)	(46.7)	(0.1541)	(2.9474)	(47.0)	(0.1532)		
-140	3.8618	46.1	0.1563	—	—	—	—	—	—	—	—	—	-140
-130	3.9991	47.5	0.1607	3.5867	47.5	0.1582	3.2492	47.4	0.1560	2.9678	47.3	0.1540	-130
-120	4.1348	49.0	0.1649	3.7099	48.9	0.1625	3.3623	48.8	0.1604	3.0725	48.7	0.1584	-120
-110	4.2691	50.4	0.1691	3.8318	50.3	0.1667	3.4740	50.3	0.1646	3.1758	50.2	0.1626	-110
-100	4.4023	51.9	0.1732	3.9526	51.8	0.1709	3.5846	51.7	0.1687	3.2778	51.7	0.1668	-100
-90	4.5346	53.4	0.1773	4.0723	53.3	0.1749	3.6941	53.2	0.1728	3.3789	53.2	0.1709	-90
-80	4.6660	54.8	0.1812	4.1913	54.8	0.1789	3.8029	54.7	0.1768	3.4792	54.7	0.1749	-80
-70	4.7967	56.4	0.1852	4.3095	56.3	0.1829	3.9109	56.3	0.1808	3.5787	56.2	0.1789	-70
-60	4.9268	57.9	0.1890	4.4271	57.8	0.1868	4.0183	57.8	0.1847	3.6776	57.7	0.1828	-60
-50	5.0563	59.4	0.1929	4.5442	59.4	0.1906	4.1251	59.3	0.1885	3.7759	59.3	0.1866	-50
-40	5.1854	61.0	0.1967	4.6608	61.0	0.1944	4.2315	60.9	0.1923	3.8738	60.9	0.1904	-40
-30	5.3141	62.6	0.2004	4.7770	62.6	0.1981	4.3375	62.5	0.1961	3.9713	62.5	0.1942	-30
-20	5.4425	64.2	0.2041	4.8929	64.2	0.2018	4.4432	64.1	0.1998	4.0684	64.1	0.1979	-20
-10	5.5706	65.8	0.2077	5.0084	65.8	0.2055	4.5485	65.8	0.2035	4.1652	65.7	0.2016	-10
0	5.6984	67.5	0.2114	5.1237	67.4	0.2091	4.6536	67.4	0.2071	4.2618	67.4	0.2052	0
10	5.8259	69.1	0.2150	5.2388	69.1	0.2127	4.7584	69.1	0.2107	4.3581	69.0	0.2088	10
20	5.9533	70.8	0.2185	5.3537	70.8	0.2163	4.8631	70.8	0.2142	4.4542	70.7	0.2124	20
30	6.0804	72.5	0.2220	5.4683	72.5	0.2198	4.9675	72.5	0.2178	4.5502	72.4	0.2159	30
40	6.2074	74.3	0.2255	5.5828	74.2	0.2233	5.0718	74.2	0.2213	4.6459	74.2	0.2194	40
50	6.3343	76.0	0.2290	5.6972	76.0	0.2267	5.1759	75.9	0.2247	4.7416	75.9	0.2229	50
60	6.4611	77.8	0.2324	5.8115	77.7	0.2302	5.2800	77.7	0.2282	4.8371	77.7	0.2263	60
70	6.5877	79.5	0.2358	5.9256	79.5	0.2336	5.3839	79.5	0.2316	4.9324	79.5	0.2297	70
80	6.7142	81.3	0.2392	6.0396	81.3	0.2369	5.4877	81.3	0.2349	5.0277	81.3	0.2331	80
90	6.8406	83.2	0.2425	6.1535	83.1	0.2403	5.5914	83.1	0.2383	5.1229	83.1	0.2364	90
100	6.9670	85.0	0.2458	6.2674	85.0	0.2436	5.6950	85.0	0.2416	5.2180	84.9	0.2398	100
110	7.0932	86.9	0.2491	6.3812	86.8	0.2469	5.7985	86.8	0.2449	5.3130	86.8	0.2431	110
120	7.2195	88.7	0.2524	6.4949	88.7	0.2502	5.9020	88.7	0.2482	5.4080	88.7	0.2463	120
130	7.3456	90.6	0.2556	6.6085	90.6	0.2534	6.0054	90.6	0.2514	5.5029	90.6	0.2496	130
140	7.4717	92.5	0.2588	6.7221	92.5	0.2566	6.1088	92.5	0.2546	5.5977	92.5	0.2528	140
150	7.5977	94.5	0.2620	6.8356	94.5	0.2598	6.2121	94.4	0.2578	5.6925	94.4	0.2560	150
160	7.7237	96.4	0.2652	6.9491	96.4	0.2630	6.3154	96.4	0.2610	5.7872	96.4	0.2592	160
170	7.8496	98.4	0.2684	7.0626	98.4	0.2662	6.4186	98.4	0.2642	—	—	—	170

ABSOLUTE PRESSURE, psia													TEMP. °F
TEMP. °F	13.00			14.00			14.696			15.00			
	(-129.56°F)			(-127.32°F)			(-125.83°F)			(-125.19°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
(2.7341)	(47.2)	(0.1523)	(2.5503)	(47.5)	(0.1516)	(2.4367)	(47.6)	(0.1511)	(2.3902)	(47.7)	(0.1509)		
-120	2.8273	48.6	0.1565	2.6170	48.6	0.1548	2.4876	48.5	0.1536	2.4348	48.5	0.1532	-120
-110	2.9234	50.1	0.1608	2.7070	50.0	0.1591	2.5738	50.0	0.1580	2.5195	50.0	0.1575	-110
-100	3.0183	51.6	0.1650	2.7958	51.5	0.1633	2.6588	51.5	0.1622	2.6029	51.5	0.1617	-100
-90	3.1122	53.1	0.1691	2.8836	53.0	0.1674	2.7428	53.0	0.1663	2.6854	53.0	0.1659	-90
-80	3.2053	54.6	0.1731	2.9705	54.6	0.1715	2.8259	54.5	0.1704	2.7669	54.5	0.1699	-80
-70	3.2976	56.1	0.1771	3.0566	56.1	0.1755	2.9083	56.1	0.1744	2.8478	56.0	0.1739	-70
-60	3.3893	57.7	0.1810	3.1421	57.6	0.1794	2.9900	57.6	0.1783	2.9280	57.6	0.1779	-60
-50	3.4804	59.3	0.1849	3.2271	59.2	0.1833	3.0712	59.2	0.1822	3.0076	59.2	0.1818	-50
-40	3.5711	60.8	0.1887	3.3116	60.8	0.1871	3.1519	60.8	0.1860	3.0868	60.8	0.1856	-40
-30	3.6614	62.4	0.1925	3.3958	62.4	0.1909	3.2322	62.4	0.1898	3.1655	62.4	0.1894	-30
-20	3.7513	64.1	0.1962	3.4795	64.0	0.1946	3.3122	64.0	0.1935	3.2439	64.0	0.1931	-20
-10	3.8409	65.7	0.1999	3.5629	65.7	0.1983	3.3918	65.6	0.1972	3.3220	65.6	0.1968	-10
0	3.9303	67.3	0.2035	3.6461	67.3	0.2019	3.4712	67.3	0.2009	3.3998	67.3	0.2004	0
10	4.0194	69.0	0.2071	3.7291	69.0	0.2055	3.5503	69.0	0.2045	3.4774	69.0	0.2040	10
20	4.1083	70.7	0.2107	3.8118	70.7	0.2091	3.6292	70.7	0.2081	3.5548	70.7	0.2076	20
30	4.1970	72.4	0.2142	3.8943	72.4	0.2126	3.7080	72.4	0.2116	3.6320	72.4	0.2112	30
40	4.2856	74.2	0.2177	3.9767	74.1	0.2161	3.7865	74.1	0.2151	3.7090	74.1	0.2147	40
50	4.3740	75.9	0.2212	4.0589	75.9	0.2196	3.8650	75.9	0.2186	3.7859	75.9	0.2181	50
60	4.4623	77.7	0.2246	4.1410	77.6	0.2230	3.9433	77.6	0.2220	3.8626	77.6	0.2216	60
70	4.5504	79.5	0.2280	4.2230	79.4	0.2264	4.0215	79.4	0.2254	3.9393	79.4	0.2250	70
80	4.6385	81.3	0.2314	4.3049	81.2	0.2298	4.0995	81.2	0.2288	4.0158	81.2	0.2284	80
90	4.7265	83.1	0.2347	4.3867	83.1	0.2332	4.1775	83.1	0.2321	4.0922	83.0	0.2317	90
100	4.8144	84.9	0.2381	4.4684	84.9	0.2365	4.2554	84.9	0.2355	4.1686	84.9	0.2350	100
110	4.9022	86.8	0.2414	4.5501	86.8	0.2398	4.3333	86.8	0.2388	4.2449	86.8	0.2383	110
120	4.9899	88.7	0.2446	4.6316	88.7	0.2431	4.4110	88.6	0.2420	4.3211	88.6	0.2416	120
130	5.0776	90.6	0.2479	4.7131	90.5	0.2463	4.4887	90.5	0.2453	4.3972	90.5	0.2449	130
140	5.1652	92.5	0.2511	4.7946	92.5	0.2495	4.5664	92.5	0.2485	4.4733	92.4	0.2481	140
150	5.2528	94.4	0.2543	4.8760	94.4	0.2527	4.6439	94.4	0.2517	4.5494	94.4	0.2513	150
160	5.3404	96.4	0.2575	4.9573	96.4	0.2559	4.7215	96.3	0.2549	4.6253	96.3	0.2545	160
170	5.4278	98.3	0.2606	5.0386	98.3	0.2591	4.7990	98.3	0.2580	4.7013	98.3	0.2576	170
180	5.5153	100.3	0.2638	5.1199	100.3	0.2622	4.8764	100.3	0.2612	4.7772	100.3	0.2607	180

Table 2 (continued)
Suva® 95 Superheated Vapor—Constant Pressure Tables

V = Volume in ft³/lb H = Enthalpy in Btu/lb S = Entropy in Btu/(lb) (°R) (Saturated Vapor Properties in parentheses)

ABSOLUTE PRESSURE, psia													
TEMP. °F	16.00			17.00			18.00			19.00			TEMP. °F
	(-123.18°F)			(-121.26°F)			(-119.42°F)			(-117.66°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
	(2.2495)	(47.9)	(0.1502)	(2.1248)	(48.1)	(0.1496)	(2.0135)	(48.3)	(0.1490)	(1.9136)	(48.5)	(0.1485)	
-120	2.2753	48.4	0.1516	2.1345	48.3	0.1502							-120
-110	2.3553	49.9	0.1560	2.2105	49.8	0.1545	2.0817	49.7	0.1532	1.9664	49.6	0.1519	-110
-100	2.4342	51.4	0.1602	2.2852	51.3	0.1588	2.1528	51.2	0.1575	2.0343	51.2	0.1562	-100
-90	2.5119	52.9	0.1644	2.3589	52.8	0.1630	2.2228	52.8	0.1617	2.1011	52.7	0.1604	-90
-80	2.5889	54.4	0.1685	2.4317	54.4	0.1671	2.2920	54.3	0.1658	2.1670	54.3	0.1645	-80
-70	2.6650	56.0	0.1725	2.5037	55.9	0.1711	2.3604	55.9	0.1698	2.2321	55.8	0.1686	-70
-60	2.7405	57.5	0.1764	2.5751	57.5	0.1751	2.4281	57.4	0.1738	2.2966	57.4	0.1726	-60
-50	2.8155	59.1	0.1803	2.6460	59.1	0.1790	2.4953	59.0	0.1777	2.3605	59.0	0.1765	-50
-40	2.8900	60.7	0.1842	2.7164	60.7	0.1828	2.5620	60.6	0.1816	2.4239	60.6	0.1804	-40
-30	2.9641	62.3	0.1880	2.7863	62.3	0.1866	2.6283	62.2	0.1854	2.4869	62.2	0.1842	-30
-20	3.0378	63.9	0.1917	2.8559	63.9	0.1904	2.6942	63.9	0.1891	2.5496	63.8	0.1879	-20
-10	3.1112	65.6	0.1954	2.9252	65.6	0.1941	2.7598	65.5	0.1928	2.6119	65.5	0.1916	-10
0	3.1843	67.2	0.1990	2.9942	67.2	0.1977	2.8252	67.2	0.1965	2.6739	67.2	0.1953	0
10	3.2572	68.9	0.2027	3.0630	68.9	0.2013	2.8903	68.9	0.2001	2.7357	68.8	0.1989	10
20	3.3299	70.6	0.2062	3.1315	70.6	0.2049	2.9551	70.6	0.2037	2.7973	70.5	0.2025	20
30	3.4024	72.3	0.2098	3.1999	72.3	0.2085	3.0198	72.3	0.2072	2.8588	72.3	0.2061	30
40	3.4748	74.1	0.2133	3.2681	74.0	0.2120	3.0844	74.0	0.2108	2.9200	74.0	0.2096	40
50	3.5470	75.8	0.2168	3.3362	75.8	0.2155	3.1488	75.8	0.2142	2.9811	75.8	0.2131	50
60	3.6190	77.6	0.2202	3.4041	77.6	0.2189	3.2130	77.6	0.2177	3.0421	77.5	0.2165	60
70	3.6910	79.4	0.2236	3.4719	79.4	0.2223	3.2772	79.3	0.2211	3.1029	79.3	0.2199	70
80	3.7628	81.2	0.2270	3.5396	81.2	0.2257	3.3412	81.2	0.2245	3.1637	81.1	0.2233	80
90	3.8346	83.0	0.2303	3.6072	83.0	0.2291	3.4051	83.0	0.2278	3.2243	83.0	0.2267	90
100	3.9062	84.9	0.2337	3.6748	84.9	0.2324	3.4690	84.8	0.2312	3.2849	84.8	0.2300	100
110	3.9778	86.7	0.2370	3.7422	86.7	0.2357	3.5328	86.7	0.2345	3.3454	86.7	0.2333	110
120	4.0494	88.6	0.2402	3.8096	88.6	0.2390	3.5965	88.6	0.2377	3.4058	88.6	0.2366	120
130	4.1208	90.5	0.2435	3.8769	90.5	0.2422	3.6601	90.5	0.2410	3.4662	90.5	0.2399	130
140	4.1922	92.4	0.2467	3.9442	92.4	0.2454	3.7237	92.4	0.2442	3.5265	92.4	0.2431	140
150	4.2636	94.4	0.2499	4.0114	94.4	0.2486	3.7873	94.3	0.2474	3.5867	94.3	0.2463	150
160	4.3349	96.3	0.2531	4.0786	96.3	0.2518	3.8507	96.3	0.2506	3.6469	96.3	0.2495	160
170	4.4061	98.3	0.2563	4.1457	98.3	0.2550	3.9142	98.3	0.2538	3.7071	98.2	0.2526	170
180	4.4773	100.3	0.2594	4.2128	100.3	0.2581	3.9776	100.3	0.2569	3.7672	100.2	0.2558	180
190	4.0410	102.3	0.2600	3.8273	102.2	0.2589							190

ABSOLUTE PRESSURE, psia													
TEMP. °F	20.00			21.00			22.00			23.00			TEMP. °F
	(-115.97°F)			(-114.35°F)			(-112.78°F)			(-111.26°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
	(1.8232)	(48.6)	(0.1480)	(1.7413)	(48.8)	(0.1475)	(1.6665)	(49.0)	(0.1471)	(1.5980)	(49.1)	(0.1466)	
-110	1.8627	49.6	0.1506	1.7688	49.5	0.1495	1.6834	49.4	0.1483	1.6054	49.3	0.1472	-110
-100	1.9276	51.1	0.1550	1.8311	51.0	0.1538	1.7433	51.0	0.1527	1.6632	50.9	0.1516	-100
-90	1.9915	52.7	0.1592	1.8923	52.6	0.1581	1.8022	52.5	0.1570	1.7198	52.5	0.1559	-90
-80	2.0545	54.2	0.1634	1.9526	54.1	0.1622	1.8601	54.1	0.1611	1.7755	54.0	0.1601	-80
-70	2.1166	55.8	0.1674	2.0122	55.7	0.1663	1.9172	55.7	0.1652	1.8304	55.6	0.1642	-70
-60	2.1782	57.3	0.1714	2.0710	57.3	0.1703	1.9736	57.2	0.1693	1.8847	57.2	0.1682	-60
-50	2.2391	58.9	0.1754	2.1293	58.9	0.1743	2.0295	58.8	0.1732	1.9384	58.8	0.1722	-50
-40	2.2996	60.5	0.1792	2.1871	60.5	0.1781	2.0849	60.5	0.1771	1.9915	60.4	0.1761	-40
-30	2.3597	62.2	0.1830	2.2445	62.1	0.1820	2.1398	62.1	0.1809	2.0443	62.0	0.1799	-30
-20	2.4193	63.8	0.1868	2.3015	63.8	0.1857	2.1944	63.7	0.1847	2.0966	63.7	0.1837	-20
-10	2.4787	65.5	0.1905	2.3582	65.4	0.1895	2.2487	65.4	0.1884	2.1487	65.3	0.1874	-10
0	2.5378	67.1	0.1942	2.4147	67.1	0.1931	2.3027	67.1	0.1921	2.2005	67.0	0.1911	0
10	2.5967	68.8	0.1978	2.4708	68.8	0.1968	2.3565	68.7	0.1957	2.2520	68.7	0.1948	10
20	2.6553	70.5	0.2014	2.5268	70.5	0.2004	2.4100	70.5	0.1993	2.3033	70.4	0.1984	20
30	2.7138	72.2	0.2050	2.5826	72.2	0.2039	2.4633	72.2	0.2029	2.3544	72.2	0.2019	30
40	2.7721	74.0	0.2085	2.6382	73.9	0.2074	2.5165	73.9	0.2064	2.4054	73.9	0.2055	40
50	2.8302	75.7	0.2120	2.6937	75.7	0.2109	2.5695	75.7	0.2099	2.4562	75.7	0.2090	50
60	2.8882	77.5	0.2154	2.7490	77.5	0.2144	2.6224	77.5	0.2134	2.5069	77.4	0.2124	60
70	2.9461	79.3	0.2188	2.8042	79.3	0.2178	2.6752	79.3	0.2168	2.5574	79.2	0.2158	70
80	3.0039	81.1	0.2222	2.8593	81.1	0.2212	2.7279	81.1	0.2202	2.6079	81.1	0.2192	80
90	3.0616	82.9	0.2256	2.9143	82.9	0.2246	2.7805	82.9	0.2236	2.6583	82.9	0.2226	90
100	3.1192	84.8	0.2289	2.9693	84.8	0.2279	2.8330	84.8	0.2269	2.7085	84.7	0.2259	100
110	3.1767	86.7	0.2322	3.0241	86.6	0.2312	2.8854	86.6	0.2302	2.7587	86.6	0.2293	110
120	3.2342	88.5	0.2355	3.0789	88.5	0.2345	2.9377	88.5	0.2335	2.8089	88.5	0.2325	120
130	3.2916	90.4	0.2388	3.1336	90.4	0.2377	2.9900	90.4	0.2367	2.8589	90.4	0.2358	130
140	3.3489	92.4	0.2420	3.1883	92.4	0.2410	3.0423	92.3	0.2400	2.9089	92.3	0.2390	140
150	3.4062	94.3	0.2452	3.2429	94.3	0.2442	3.0944	94.3	0.2432	2.9589	94.3	0.2422	150
160	3.4634	96.3	0.2484	3.2975	96.2	0.2473	3.1466	96.2	0.2464	3.0088	96.2	0.2454	160
170	3.5206	98.2	0.2515	3.3520	98.2	0.2505	3.1987	98.2	0.2495	3.0587	98.2	0.2486	170
180	3.5778	100.2	0.2547	3.4065	100.2	0.2536	3.2507	100.2	0.2527	3.1085	100.2	0.2517	180
190	3.6349	102.2	0.2578	3.4609	102.2	0.2568	3.3027	102.2	0.2558	3.1583	102.2	0.2548	190

Table 2 (continued)
Suva® 95 Superheated Vapor—Constant Pressure Tables

V = Volume in ft³/lb H = Enthalpy in Btu/lb S = Entropy in Btu/(lb) (°R) (Saturated Vapor Properties in parentheses)

ABSOLUTE PRESSURE, psia													
TEMP. °F	24.00			25.00			26.00			27.00			TEMP. °F
	(-109.80°F)			(-108.38°F)			(-107.00°F)			(-105.66°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
	(1.5350)	(49.3)	(0.1462)	(1.4769)	(49.4)	(0.1458)	(1.4231)	(49.6)	(0.1455)	(1.3731)	(49.7)	(0.1451)	
-100	1.5897	50.8	0.1506	1.5220	50.7	0.1496	1.4596	50.7	0.1486	1.4017	50.6	0.1477	-100
-90	1.6443	52.4	0.1549	1.5748	52.3	0.1539	1.5107	52.3	0.1529	1.4513	52.2	0.1520	-90
-80	1.6980	54.0	0.1591	1.6267	53.9	0.1581	1.5609	53.8	0.1572	1.4999	53.8	0.1563	-80
-70	1.7509	55.6	0.1632	1.6778	55.5	0.1623	1.6102	55.4	0.1613	1.5477	55.4	0.1604	-70
-60	1.8031	57.1	0.1673	1.7281	57.1	0.1663	1.6589	57.0	0.1654	1.5947	57.0	0.1645	-60
-50	1.8548	58.8	0.1712	1.7779	58.7	0.1703	1.7069	58.7	0.1694	1.6412	58.6	0.1685	-50
-40	1.9059	60.4	0.1751	1.8272	60.3	0.1742	1.7545	60.3	0.1733	1.6872	60.2	0.1725	-40
-30	1.9567	62.0	0.1790	1.8760	62.0	0.1781	1.8016	61.9	0.1772	1.7327	61.9	0.1763	-30
-20	2.0070	63.7	0.1828	1.9245	63.6	0.1819	1.8484	63.6	0.1810	1.7779	63.5	0.1801	-20
-10	2.0570	65.3	0.1865	1.9727	65.3	0.1856	1.8948	65.2	0.1847	1.8227	65.2	0.1839	-10
0	2.1068	67.0	0.1902	2.0205	67.0	0.1893	1.9410	66.9	0.1884	1.8673	66.9	0.1876	0
10	2.1563	68.7	0.1938	2.0682	68.7	0.1929	1.9869	68.6	0.1921	1.9116	68.6	0.1913	10
20	2.2055	70.4	0.1975	2.1156	70.4	0.1966	2.0325	70.3	0.1957	1.9556	70.3	0.1949	20
30	2.2546	72.1	0.2010	2.1628	72.1	0.2001	2.0780	72.1	0.1993	1.9995	72.0	0.1984	30
40	2.3036	73.9	0.2045	2.2098	73.8	0.2037	2.1234	73.8	0.2028	2.0433	73.8	0.2020	40
50	2.3523	75.6	0.2080	2.2567	75.6	0.2072	2.1685	75.6	0.2063	2.0868	75.6	0.2055	50
60	2.4010	77.4	0.2115	2.3035	77.4	0.2106	2.2136	77.4	0.2098	2.1303	77.3	0.2090	60
70	2.4495	79.2	0.2149	2.3502	79.2	0.2141	2.2585	79.2	0.2132	2.1736	79.2	0.2124	70
80	2.4979	81.0	0.2183	2.3967	81.0	0.2174	2.3033	81.0	0.2166	2.2168	81.0	0.2158	80
90	2.5462	82.9	0.2217	2.4432	82.8	0.2208	2.3480	82.8	0.2200	2.2599	82.8	0.2192	90
100	2.5945	84.7	0.2250	2.4895	84.7	0.2242	2.3926	84.7	0.2233	2.3030	84.7	0.2225	100
110	2.6426	86.6	0.2283	2.5358	86.6	0.2275	2.4372	86.6	0.2266	2.3459	86.5	0.2258	110
120	2.6907	88.5	0.2316	2.5820	88.5	0.2308	2.4817	88.4	0.2299	2.3888	88.4	0.2291	120
130	2.7387	90.4	0.2349	2.6282	90.4	0.2340	2.5261	90.3	0.2332	2.4316	90.3	0.2324	130
140	2.7867	92.3	0.2381	2.6743	92.3	0.2373	2.5705	92.3	0.2364	2.4744	92.3	0.2356	140
150	2.8346	94.2	0.2413	2.7203	94.2	0.2405	2.6148	94.2	0.2396	2.5171	94.2	0.2388	150
160	2.8825	96.2	0.2445	2.7663	96.2	0.2436	2.6591	96.2	0.2428	2.5597	96.2	0.2420	160
170	2.9303	98.2	0.2477	2.8123	98.2	0.2468	2.7033	98.1	0.2460	2.6024	98.1	0.2452	170
180	2.9781	100.2	0.2508	2.8582	100.2	0.2499	2.7475	100.1	0.2491	2.6449	100.1	0.2483	180
190	3.0259	102.2	0.2539	2.9040	102.2	0.2531	2.7916	102.1	0.2522	2.6875	102.1	0.2514	190
200	3.0736	104.2	0.2570	2.9499	104.2	0.2562	2.8357	104.2	0.2553	2.7300	104.2	0.2545	200

TEMP. °F	28.00			29.00			30.00			31.00			TEMP. °F
	(-104.36°F)			(-103.10°F)			(-101.87°F)			(-100.66°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
	(1.3266)	(49.8)	(0.1448)	(1.2832)	(49.9)	(0.1445)	(1.2426)	(50.1)	(0.1441)	(1.2045)	(50.2)	(0.1438)	
-100	1.3480	50.5	0.1467	1.2980	50.4	0.1459	1.2512	50.4	0.1450	1.2075	50.3	0.1441	-100
-90	1.3961	52.1	0.1511	1.3447	52.1	0.1503	1.2968	52.0	0.1494	1.2519	51.9	0.1486	-90
-80	1.4433	53.7	0.1554	1.3905	53.7	0.1546	1.3413	53.6	0.1537	1.2952	53.5	0.1529	-80
-70	1.4896	55.3	0.1596	1.4355	55.3	0.1587	1.3850	55.2	0.1579	1.3377	55.2	0.1571	-70
-60	1.5352	56.9	0.1637	1.4797	56.9	0.1628	1.4279	56.8	0.1620	1.3795	56.8	0.1613	-60
-50	1.5802	58.6	0.1677	1.5233	58.5	0.1669	1.4703	58.5	0.1661	1.4207	58.4	0.1653	-50
-40	1.6247	60.2	0.1716	1.5665	60.2	0.1708	1.5121	60.1	0.1700	1.4613	60.1	0.1693	-40
-30	1.6687	61.8	0.1755	1.6092	61.8	0.1747	1.5535	61.8	0.1739	1.5015	61.7	0.1732	-30
-20	1.7124	63.5	0.1793	1.6515	63.5	0.1785	1.5946	63.4	0.1778	1.5413	63.4	0.1770	-20
-10	1.7558	65.2	0.1831	1.6934	65.1	0.1823	1.6352	65.1	0.1815	1.5808	65.1	0.1808	-10
0	1.7988	66.9	0.1868	1.7351	66.8	0.1860	1.6756	66.8	0.1852	1.6200	66.8	0.1845	0
10	1.8416	68.6	0.1904	1.7766	68.5	0.1897	1.7158	68.5	0.1889	1.6590	68.5	0.1882	10
20	1.8842	70.3	0.1941	1.8178	70.3	0.1933	1.7557	70.2	0.1925	1.6977	70.2	0.1918	20
30	1.9267	72.0	0.1976	1.8588	72.0	0.1969	1.7955	72.0	0.1961	1.7362	71.9	0.1954	30
40	1.9689	73.8	0.2012	1.8996	73.7	0.2004	1.8350	73.7	0.1997	1.7746	73.7	0.1990	40
50	2.0110	75.5	0.2047	1.9403	75.5	0.2039	1.8744	75.5	0.2032	1.8128	75.5	0.2025	50
60	2.0529	77.3	0.2082	1.9809	77.3	0.2074	1.9137	77.3	0.2067	1.8508	77.3	0.2060	60
70	2.0948	79.1	0.2116	2.0214	79.1	0.2108	1.9529	79.1	0.2101	1.8888	79.1	0.2094	70
80	2.1365	80.9	0.2150	2.0617	80.9	0.2142	1.9919	80.9	0.2135	1.9266	80.9	0.2128	80
90	2.1781	82.8	0.2184	2.1020	82.8	0.2176	2.0309	82.7	0.2169	1.9644	82.7	0.2162	90
100	2.2197	84.6	0.2217	2.1421	84.6	0.2210	2.0697	84.6	0.2202	2.0020	84.6	0.2195	100
110	2.2611	86.5	0.2250	2.1822	86.5	0.2243	2.1085	86.5	0.2236	2.0396	86.5	0.2229	110
120	2.3025	88.4	0.2283	2.2222	88.4	0.2276	2.1472	88.4	0.2269	2.0771	88.4	0.2261	120
130	2.3439	90.3	0.2316	2.2622	90.3	0.2308	2.1859	90.3	0.2301	2.1146	90.3	0.2294	130
140	2.3851	92.2	0.2348	2.3020	92.2	0.2341	2.2245	92.2	0.2334	2.1520	92.2	0.2327	140
150	2.4264	94.2	0.2380	2.3419	94.2	0.2373	2.2630	94.1	0.2366	2.1893	94.1	0.2359	150
160	2.4675	96.1	0.2412	2.3817	96.1	0.2405	2.3015	96.1	0.2398	2.2266	96.1	0.2391	160
170	2.5087	98.1	0.2444	2.4214	98.1	0.2436	2.3400	98.1	0.2429	2.2638	98.1	0.2422	170
180	2.5497	100.1	0.2475	2.4611	100.1	0.2468	2.3784	100.1	0.2461	2.3010	100.1	0.2454	180
190	2.5908	102.1	0.2507	2.5008	102.1	0.2499	2.4168	102.1	0.2492	2.3382	102.1	0.2485	190
200	2.6318	104.1	0.2537	2.5404	104.1	0.2530	2.4551	104.1	0.2523	2.3753	104.1	0.2516	200

Table 2 (continued)
Suva® 95 Superheated Vapor—Constant Pressure Tables

V = Volume in ft³/lb H = Enthalpy in Btu/lb S = Entropy in Btu/(lb) (°R) (Saturated Vapor Properties in parentheses)

ABSOLUTE PRESSURE, psia													
TEMP. °F	32.00			33.00			34.00			35.00			TEMP. °F
	(-99.49°F)			(-98.34°F)			(-97.23°F)			(-96.13°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
	(1.1687)	(50.3)	(0.1436)	(1.1351)	(50.4)	(0.1433)	(1.1033)	(50.5)	(0.1430)	(1.0733)	(50.6)	(0.1427)	
-90	1.2098	51.9	0.1478	1.1702	51.8	0.1470	1.1330	51.7	0.1463	1.0979	51.6	0.1455	-90
-80	1.2520	53.5	0.1521	1.2115	53.4	0.1514	1.1733	53.4	0.1506	1.1372	53.3	0.1499	-80
-70	1.2934	55.1	0.1564	1.2518	55.1	0.1556	1.2126	55.0	0.1549	1.1757	54.9	0.1542	-70
-60	1.3341	56.7	0.1605	1.2914	56.7	0.1598	1.2513	56.6	0.1591	1.2134	56.6	0.1584	-60
-50	1.3741	58.4	0.1646	1.3304	58.3	0.1638	1.2893	58.3	0.1631	1.2505	58.2	0.1624	-50
-40	1.4137	60.0	0.1685	1.3689	60.0	0.1678	1.3268	59.9	0.1671	1.2870	59.9	0.1664	-40
-30	1.4527	61.7	0.1724	1.4069	61.6	0.1717	1.3638	61.6	0.1710	1.3231	61.6	0.1704	-30
-20	1.4914	63.4	0.1763	1.4445	63.3	0.1756	1.4004	63.3	0.1749	1.3588	63.2	0.1742	-20
-10	1.5298	65.0	0.1801	1.4818	65.0	0.1794	1.4367	65.0	0.1787	1.3942	64.9	0.1780	-10
0	1.5679	66.7	0.1838	1.5189	66.7	0.1831	1.4727	66.7	0.1824	1.4292	66.6	0.1818	0
10	1.6057	68.4	0.1875	1.5556	68.4	0.1868	1.5085	68.4	0.1861	1.4641	68.4	0.1855	10
20	1.6433	70.2	0.1911	1.5921	70.1	0.1904	1.5440	70.1	0.1898	1.4986	70.1	0.1891	20
30	1.6806	71.9	0.1947	1.6285	71.9	0.1940	1.5793	71.9	0.1934	1.5330	71.8	0.1927	30
40	1.7179	73.7	0.1983	1.6646	73.6	0.1976	1.6145	73.6	0.1969	1.5673	73.6	0.1963	40
50	1.7549	75.4	0.2018	1.7006	75.4	0.2011	1.6495	75.4	0.2004	1.6013	75.4	0.1998	50
60	1.7919	77.2	0.2053	1.7365	77.2	0.2046	1.6844	77.2	0.2039	1.6352	77.2	0.2033	60
70	1.8287	79.0	0.2087	1.7723	79.0	0.2080	1.7191	79.0	0.2074	1.6691	79.0	0.2067	70
80	1.8654	80.9	0.2121	1.8079	80.8	0.2114	1.7538	80.8	0.2108	1.7028	80.8	0.2102	80
90	1.9020	82.7	0.2155	1.8435	82.7	0.2148	1.7883	82.7	0.2142	1.7364	82.6	0.2136	90
100	1.9385	84.6	0.2188	1.8789	84.5	0.2182	1.8228	84.5	0.2175	1.7699	84.5	0.2169	100
110	1.9750	86.4	0.2222	1.9143	86.4	0.2215	1.8572	86.4	0.2209	1.8033	86.4	0.2202	110
120	2.0114	88.3	0.2255	1.9496	88.3	0.2248	1.8915	88.3	0.2242	1.8367	88.3	0.2235	120
130	2.0477	90.2	0.2287	1.9849	90.2	0.2281	1.9257	90.2	0.2274	1.8700	90.2	0.2268	130
140	2.0839	92.2	0.2320	2.0201	92.2	0.2313	1.9599	92.1	0.2307	1.9032	92.1	0.2300	140
150	2.1201	94.1	0.2352	2.0552	94.1	0.2345	1.9941	94.1	0.2339	1.9364	94.1	0.2333	150
160	2.1563	96.1	0.2384	2.0903	96.1	0.2377	2.0281	96.0	0.2371	1.9696	96.0	0.2365	160
170	2.1924	98.1	0.2415	2.1253	98.0	0.2409	2.0622	98.0	0.2403	2.0027	98.0	0.2396	170
180	2.2285	100.1	0.2447	2.1603	100.0	0.2440	2.0962	100.0	0.2434	2.0357	100.0	0.2428	180
190	2.2645	102.1	0.2478	2.1953	102.0	0.2472	2.1301	102.0	0.2465	2.0687	102.0	0.2459	190
200	2.3005	104.1	0.2509	2.2302	104.1	0.2503	2.1641	104.1	0.2496	2.1017	104.1	0.2490	200
210	2.3365	106.1	0.2540	2.2651	106.1	0.2533	2.1980	106.1	0.2527	2.1347	106.1	0.2521	210

TEMP. °F	36.00			37.00			38.00			39.00			TEMP. °F
	(-95.06°F)			(-94.01°F)			(-92.98°F)			(-91.98°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
	(1.0448)	(50.7)	(0.1425)	(1.0179)	(50.8)	(0.1422)	(0.9923)	(50.9)	(0.1420)	(0.9680)	(51.0)	(0.1418)	
-90	1.0647	51.6	0.1448	1.0333	51.5	0.1441	1.0035	51.4	0.1434	0.9753	51.4	0.1427	-90
-80	1.1032	53.2	0.1492	1.0710	53.2	0.1485	1.0405	53.1	0.1478	1.0115	53.0	0.1472	-80
-70	1.1408	54.9	0.1535	1.1078	54.8	0.1528	1.0765	54.8	0.1521	1.0468	54.7	0.1515	-70
-60	1.1776	56.5	0.1577	1.1438	56.5	0.1570	1.1117	56.4	0.1564	1.0813	56.4	0.1557	-60
-50	1.2138	58.2	0.1618	1.1791	58.1	0.1611	1.1463	58.1	0.1605	1.1151	58.0	0.1598	-50
-40	1.2495	59.9	0.1658	1.2140	59.8	0.1651	1.1803	59.8	0.1645	1.1484	59.7	0.1639	-40
-30	1.2847	61.5	0.1697	1.2484	61.5	0.1691	1.2139	61.4	0.1685	1.1813	61.4	0.1678	-30
-20	1.3195	63.2	0.1736	1.2823	63.2	0.1730	1.2471	63.1	0.1723	1.2137	63.1	0.1717	-20
-10	1.3540	64.9	0.1774	1.3160	64.9	0.1768	1.2800	64.8	0.1762	1.2458	64.8	0.1756	-10
0	1.3882	66.6	0.1811	1.3493	66.6	0.1805	1.3125	66.5	0.1799	1.2776	66.5	0.1793	0
10	1.4221	68.3	0.1848	1.3824	68.3	0.1842	1.3448	68.3	0.1836	1.3091	68.2	0.1830	10
20	1.4558	70.1	0.1885	1.4153	70.0	0.1879	1.3769	70.0	0.1873	1.3404	70.0	0.1867	20
30	1.4893	71.8	0.1921	1.4479	71.8	0.1915	1.4087	71.7	0.1909	1.3715	71.7	0.1903	30
40	1.5226	73.6	0.1957	1.4804	73.5	0.1951	1.4404	73.5	0.1945	1.4025	73.5	0.1939	40
50	1.5558	75.3	0.1992	1.5127	75.3	0.1986	1.4719	75.3	0.1980	1.4332	75.3	0.1974	50
60	1.5888	77.1	0.2027	1.5449	77.1	0.2021	1.5033	77.1	0.2015	1.4639	77.1	0.2009	60
70	1.6218	79.0	0.2061	1.5770	78.9	0.2055	1.5346	78.9	0.2049	1.4944	78.9	0.2044	70
80	1.6546	80.8	0.2096	1.6090	80.8	0.2090	1.5658	80.7	0.2084	1.5248	80.7	0.2078	80
90	1.6873	82.6	0.2129	1.6408	82.6	0.2123	1.5969	82.6	0.2118	1.5551	82.6	0.2112	90
100	1.7199	84.5	0.2163	1.6726	84.5	0.2157	1.6278	84.5	0.2151	1.5853	84.4	0.2146	100
110	1.7524	86.4	0.2196	1.7043	86.3	0.2190	1.6587	86.3	0.2185	1.6155	86.3	0.2179	110
120	1.7849	88.3	0.2229	1.7360	88.2	0.2223	1.6896	88.2	0.2218	1.6456	88.2	0.2212	120
130	1.8173	90.2	0.2262	1.7675	90.2	0.2256	1.7203	90.1	0.2250	1.6756	90.1	0.2245	130
140	1.8497	92.1	0.2294	1.7990	92.1	0.2289	1.7510	92.1	0.2283	1.7055	92.1	0.2277	140
150	1.8820	94.1	0.2327	1.8305	94.0	0.2321	1.7817	94.0	0.2315	1.7354	94.0	0.2309	150
160	1.9142	96.0	0.2359	1.8619	96.0	0.2353	1.8123	96.0	0.2347	1.7653	96.0	0.2341	160
170	1.9464	98.0	0.2390	1.8932	98.0	0.2384	1.8429	98.0	0.2379	1.7951	98.0	0.2373	170
180	1.9786	100.0	0.2422	1.9246	100.0	0.2416	1.8734	100.0	0.2410	1.8248	100.0	0.2405	180
190	2.0107	102.0	0.2453	1.9558	102.0	0.2447	1.9039	102.0	0.2441	1.8545	102.0	0.2436	190
200	2.0428	104.0	0.2484	1.9871	104.0	0.2478	1.9343	104.0	0.2472	1.8842	104.0	0.2467	200
210	2.0749	106.1	0.2515	2.0183	106.1	0.2509	1.9647	106.1	0.2503	1.9139	106.0	0.2498	210

Table 2 (continued)
Suva® 95 Superheated Vapor—Constant Pressure Tables

V = Volume in ft³/lb H = Enthalpy in Btu/lb S = Entropy in Btu/(lb) (°R) (Saturated Vapor Properties in parentheses)

ABSOLUTE PRESSURE, psia													TEMP. °F
TEMP. °F	40.00			41.00			42.00			43.00			
	(-90.99°F)			(-90.02°F)			(-89.07°F)			(-88.13°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
(0.9449)	(51.1)	(0.1416)	(0.9229)	(51.2)	(0.1413)	(0.9018)	(51.3)	(0.1411)	(0.8817)	(51.4)	(0.1409)		
-90	0.9485	51.3	0.1420	0.9229	51.2	0.1413	—	—	—	—	—	—	-90
-80	0.9840	53.0	0.1465	0.9578	52.9	0.1459	0.9328	52.8	0.1452	0.9090	52.8	0.1446	-80
-70	1.0185	54.7	0.1509	0.9917	54.6	0.1502	0.9661	54.5	0.1496	0.9417	54.5	0.1490	-70
-60	1.0523	56.3	0.1551	1.0248	56.3	0.1545	0.9986	56.2	0.1539	0.9736	56.2	0.1533	-60
-50	1.0855	58.0	0.1592	1.0573	57.9	0.1586	1.0305	57.9	0.1580	1.0049	57.9	0.1575	-50
-40	1.1181	59.7	0.1633	1.0892	59.6	0.1627	1.0618	59.6	0.1621	1.0356	59.5	0.1615	-40
-30	1.1502	61.4	0.1672	1.1207	61.3	0.1667	1.0926	61.3	0.1661	1.0658	61.2	0.1655	-30
-20	1.1819	63.1	0.1711	1.1517	63.0	0.1706	1.1230	63.0	0.1700	1.0955	62.9	0.1694	-20
-10	1.2133	64.8	0.1750	1.1824	64.7	0.1744	1.1530	64.7	0.1738	1.1250	64.7	0.1733	-10
0	1.2444	66.5	0.1787	1.2128	66.4	0.1782	1.1828	66.4	0.1776	1.1541	66.4	0.1771	0
10	1.2752	68.2	0.1825	1.2430	68.2	0.1819	1.2123	68.1	0.1813	1.1830	68.1	0.1808	10
20	1.3058	69.9	0.1861	1.2729	69.9	0.1856	1.2415	69.9	0.1850	1.2116	69.9	0.1845	20
30	1.3362	71.7	0.1897	1.3026	71.7	0.1892	1.2706	71.6	0.1886	1.2401	71.6	0.1881	30
40	1.3664	73.5	0.1933	1.3321	73.4	0.1928	1.2995	73.4	0.1922	1.2683	73.4	0.1917	40
50	1.3965	75.2	0.1969	1.3615	75.2	0.1963	1.3282	75.2	0.1958	1.2964	75.2	0.1953	50
60	1.4264	77.0	0.2004	1.3907	77.0	0.1998	1.3568	77.0	0.1993	1.3244	77.0	0.1988	60
70	1.4562	78.9	0.2038	1.4198	78.8	0.2033	1.3852	78.8	0.2027	1.3522	78.8	0.2022	70
80	1.4859	80.7	0.2072	1.4489	80.7	0.2067	1.4136	80.7	0.2062	1.3800	80.6	0.2057	80
90	1.5155	82.5	0.2106	1.4778	82.5	0.2101	1.4418	82.5	0.2096	1.4076	82.5	0.2091	90
100	1.5450	84.4	0.2140	1.5066	84.4	0.2135	1.4700	84.4	0.2129	1.4351	84.4	0.2124	100
110	1.5744	86.3	0.2173	1.5353	86.3	0.2168	1.4981	86.3	0.2163	1.4626	86.2	0.2158	110
120	1.6038	88.2	0.2206	1.5640	88.2	0.2201	1.5261	88.2	0.2196	1.4900	88.1	0.2191	120
130	1.6330	90.1	0.2239	1.5926	90.1	0.2234	1.5541	90.1	0.2229	1.5173	90.1	0.2224	130
140	1.6623	92.0	0.2272	1.6211	92.0	0.2266	1.5819	92.0	0.2261	1.5446	92.0	0.2256	140
150	1.6914	94.0	0.2304	1.6496	94.0	0.2299	1.6098	94.0	0.2293	1.5718	93.9	0.2288	150
160	1.7206	96.0	0.2336	1.6781	95.9	0.2331	1.6376	95.9	0.2325	1.5990	95.9	0.2320	160
170	1.7497	97.9	0.2368	1.7065	97.9	0.2362	1.6653	97.9	0.2357	1.6261	97.9	0.2352	170
180	1.7787	99.9	0.2399	1.7348	99.9	0.2394	1.6930	99.9	0.2389	1.6532	99.9	0.2384	180
190	1.8077	102.0	0.2430	1.7631	101.9	0.2425	1.7207	101.9	0.2420	1.6802	101.9	0.2415	190
200	1.8367	104.0	0.2461	1.7914	104.0	0.2456	1.7483	104.0	0.2451	1.7072	103.9	0.2446	200
210	1.8656	106.0	0.2492	1.8196	106.0	0.2487	1.7759	106.0	0.2482	1.7342	106.0	0.2477	210
220	1.8945	108.1	0.2523	1.8478	108.1	0.2518	1.8036	108.1	0.2513	1.7611	108.1	0.2508	220

ABSOLUTE PRESSURE, psia													TEMP. °F
TEMP. °F	44.00			45.00			46.00			47.00			
	(-87.21°F)			(-86.31°F)			(-85.42°F)			(-84.55°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
(0.8625)	(51.5)	(0.1407)	(0.8442)	(51.6)	(0.1405)	(0.8265)	(51.7)	(0.1403)	(0.8097)	(51.7)	(0.1401)		
-80	0.8863	52.7	0.1440	0.8646	52.7	0.1434	0.8438	52.6	0.1428	0.8239	52.5	0.1422	-80
-70	0.9184	54.4	0.1484	0.8962	54.4	0.1478	0.8749	54.3	0.1473	0.8545	54.2	0.1467	-70
-60	0.9498	56.1	0.1527	0.9270	56.1	0.1521	0.9052	56.0	0.1516	0.8843	55.9	0.1510	-60
-50	0.9804	57.8	0.1569	0.9571	57.8	0.1563	0.9347	57.7	0.1558	0.9133	57.7	0.1553	-50
-40	1.0105	59.5	0.1610	0.9866	59.5	0.1604	0.9638	59.4	0.1599	0.9419	59.4	0.1594	-40
-30	1.0402	61.2	0.1650	1.0157	61.2	0.1644	0.9923	61.1	0.1639	0.9699	61.1	0.1634	-30
-20	1.0694	62.9	0.1689	1.0443	62.9	0.1684	1.0204	62.8	0.1678	0.9975	62.8	0.1673	-20
-10	1.0982	64.6	0.1728	1.0726	64.6	0.1722	1.0481	64.5	0.1717	1.0247	64.5	0.1712	-10
0	1.1267	66.3	0.1765	1.1006	66.3	0.1760	1.0756	66.3	0.1755	1.0516	66.2	0.1750	0
10	1.1550	68.1	0.1803	1.1283	68.0	0.1798	1.1028	68.0	0.1793	1.0783	68.0	0.1788	10
20	1.1831	69.8	0.1840	1.1558	69.8	0.1835	1.1297	69.8	0.1830	1.1047	69.7	0.1825	20
30	1.2109	71.6	0.1876	1.1831	71.6	0.1871	1.1564	71.5	0.1866	1.1309	71.5	0.1861	30
40	1.2386	73.4	0.1912	1.2102	73.3	0.1907	1.1830	73.3	0.1902	1.1570	73.3	0.1897	40
50	1.2661	75.2	0.1947	1.2371	75.1	0.1942	1.2094	75.1	0.1937	1.1829	75.1	0.1933	50
60	1.2935	77.0	0.1982	1.2639	76.9	0.1977	1.2357	76.9	0.1973	1.2086	76.9	0.1968	60
70	1.3207	78.8	0.2017	1.2906	78.8	0.2012	1.2618	78.7	0.2007	1.2342	78.7	0.2003	70
80	1.3479	80.6	0.2052	1.3172	80.6	0.2047	1.2878	80.6	0.2042	1.2598	80.6	0.2037	80
90	1.3749	82.5	0.2086	1.3437	82.4	0.2081	1.3138	82.4	0.2076	1.2852	82.4	0.2071	90
100	1.4019	84.3	0.2119	1.3700	84.3	0.2114	1.3396	84.3	0.2109	1.3105	84.3	0.2105	100
110	1.4287	86.2	0.2153	1.3963	86.2	0.2148	1.3654	86.2	0.2143	1.3357	86.2	0.2138	110
120	1.4555	88.1	0.2186	1.4226	88.1	0.2181	1.3911	88.1	0.2176	1.3609	88.1	0.2171	120
130	1.4823	90.0	0.2219	1.4487	90.0	0.2214	1.4167	90.0	0.2209	1.3860	90.0	0.2204	130
140	1.5089	92.0	0.2251	1.4749	92.0	0.2246	1.4423	91.9	0.2241	1.4110	91.9	0.2237	140
150	1.5355	93.9	0.2283	1.5009	93.9	0.2278	1.4678	93.9	0.2274	1.4360	93.9	0.2269	150
160	1.5621	95.9	0.2315	1.5269	95.9	0.2310	1.4932	95.9	0.2306	1.4610	95.8	0.2301	160
170	1.5886	97.9	0.2347	1.5529	97.9	0.2342	1.5186	97.8	0.2337	1.4859	97.8	0.2333	170
180	1.6151	99.9	0.2379	1.5788	99.9	0.2374	1.5440	99.9	0.2369	1.5107	99.8	0.2364	180
190	1.6416	101.9	0.2410	1.6047	101.9	0.2405	1.5693	101.9	0.2400	1.5355	101.9	0.2396	190
200	1.6680	103.9	0.2441	1.6305	103.9	0.2436	1.5946	103.9	0.2431	1.5603	103.9	0.2427	200
210	1.6944	106.0	0.2472	1.6563	106.0	0.2467	1.6199	106.0	0.2462	1.5851	105.9	0.2458	210
220	1.7207	108.0	0.2502	1.6821	108.0	0.2498	1.6451	108.0	0.2493	1.6098	108.0	0.2488	220

Table 2 (continued)
Suva® 95 Superheated Vapor—Constant Pressure Tables

V = Volume in ft³/lb H = Enthalpy in Btu/lb S = Entropy in Btu/(lb) (°R) (Saturated Vapor Properties in parentheses)

ABSOLUTE PRESSURE, psia													
TEMP. °F	48.00			49.00			50.00			55.00			TEMP. °F
	(-83.69°F)			(-82.84°F)			(-82.01°F)			(-78.02°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
	(0.7934)	(51.8)	(0.14)	(0.7779)	(51.9)	(0.1398)	(0.7629)	(52.0)	(0.1396)	(0.6959)	(52.3)	(0.1388)	
-80	0.8048	52.5	0.1417	0.7865	52.4	0.1411	0.7689	52.3	0.1405	—	—	—	-80
-70	0.8349	54.2	0.1461	0.8162	54.1	0.1456	0.7982	54.1	0.1451	0.7178	53.8	0.1425	-70
-60	0.8642	55.9	0.1505	0.8450	55.8	0.1500	0.8266	55.8	0.1494	0.7443	55.5	0.1469	-60
-50	0.8928	57.6	0.1547	0.8732	57.6	0.1542	0.8543	57.5	0.1537	0.7701	57.3	0.1513	-50
-40	0.9209	59.3	0.1588	0.9007	59.3	0.1583	0.8814	59.2	0.1578	0.7952	59.0	0.1554	-40
-30	0.9484	61.0	0.1629	0.9278	61.0	0.1624	0.9080	60.9	0.1619	0.8198	60.7	0.1595	-30
-20	0.9755	62.7	0.1668	0.9544	62.7	0.1663	0.9342	62.7	0.1659	0.8440	62.5	0.1635	-20
-10	1.0022	64.5	0.1707	0.9807	64.4	0.1702	0.9600	64.4	0.1697	0.8678	64.2	0.1675	-10
0	1.0287	66.2	0.1745	1.0067	66.2	0.1740	0.9855	66.1	0.1736	0.8913	66.0	0.1713	0
10	1.0548	68.0	0.1783	1.0324	67.9	0.1778	1.0108	67.9	0.1773	0.9146	67.7	0.1751	10
20	1.0808	69.7	0.1820	1.0578	69.7	0.1815	1.0358	69.6	0.1810	0.9375	69.5	0.1788	20
30	1.1065	71.5	0.1856	1.0831	71.4	0.1852	1.0606	71.4	0.1847	0.9603	71.3	0.1825	30
40	1.1321	73.3	0.1892	1.1081	73.2	0.1888	1.0852	73.2	0.1883	0.9829	73.1	0.1861	40
50	1.1575	75.1	0.1928	1.1331	75.0	0.1923	1.1096	75.0	0.1919	1.0053	74.9	0.1897	50
60	1.1827	76.9	0.1963	1.1578	76.8	0.1958	1.1340	76.8	0.1954	1.0276	76.7	0.1932	60
70	1.2078	78.7	0.1998	1.1825	78.7	0.1993	1.1581	78.6	0.1989	1.0497	78.5	0.1967	70
80	1.2328	80.5	0.2032	1.2070	80.5	0.2028	1.1822	80.5	0.2023	1.0718	80.4	0.2002	80
90	1.2578	82.4	0.2066	1.2315	82.4	0.2062	1.2062	82.3	0.2057	1.0937	82.2	0.2036	90
100	1.2826	84.3	0.2100	1.2558	84.2	0.2096	1.2301	84.2	0.2091	1.1156	84.1	0.2070	100
110	1.3073	86.1	0.2134	1.2801	86.1	0.2129	1.2539	86.1	0.2125	1.1373	86.0	0.2104	110
120	1.3320	88.1	0.2167	1.3043	88.0	0.2162	1.2776	88.0	0.2158	1.1590	87.9	0.2137	120
130	1.3566	90.0	0.2200	1.3284	90.0	0.2195	1.3013	89.9	0.2191	1.1807	89.9	0.2170	130
140	1.3811	91.9	0.2232	1.3525	91.9	0.2228	1.3249	91.9	0.2223	1.2022	91.8	0.2202	140
150	1.4056	93.9	0.2264	1.3765	93.8	0.2260	1.3485	93.8	0.2256	1.2237	93.8	0.2235	150
160	1.4301	95.8	0.2296	1.4004	95.8	0.2292	1.3720	95.8	0.2288	1.2452	95.7	0.2267	160
170	1.4545	97.8	0.2328	1.4244	97.8	0.2324	1.3954	97.8	0.2319	1.2666	97.7	0.2299	170
180	1.4788	99.8	0.2360	1.4482	99.8	0.2355	1.4189	99.8	0.2351	1.2880	99.7	0.2330	180
190	1.5031	101.8	0.2391	1.4721	101.8	0.2387	1.4422	101.8	0.2382	1.3093	101.7	0.2362	190
200	1.5274	103.9	0.2422	1.4959	103.9	0.2418	1.4656	103.8	0.2413	1.3306	103.8	0.2393	200
210	1.5517	105.9	0.2453	1.5196	105.9	0.2449	1.4889	105.9	0.2444	1.3519	105.8	0.2424	210
220	1.5759	108.0	0.2484	1.5434	108.0	0.2479	1.5122	108.0	0.2475	1.3731	107.9	0.2454	220
230	1.3943	110.0	0.2485	—	—	—	—	—	—	—	—	—	230

TEMP. °F	60.00			65.00			70.00			75.00			TEMP. °F
	(-74.30°F)			(-70.81°F)			(-67.51°F)			(-64.38°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
	(0.6397)	(52.7)	(0.1381)	(0.5919)	(53.0)	(0.1374)	(0.5506)	(53.3)	(0.1368)	(0.5147)	(53.5)	(0.1362)	
-70	0.6507	53.4	0.1401	0.5938	53.1	0.1378	—	—	—	—	—	—	-70
-60	0.6757	55.2	0.1446	0.6175	55.0	0.1424	0.5675	54.7	0.1403	0.5241	54.4	0.1383	-60
-50	0.6998	57.0	0.1490	0.6403	56.7	0.1468	0.5892	56.5	0.1448	0.5448	56.2	0.1429	-50
-40	0.7233	58.8	0.1532	0.6624	58.5	0.1511	0.6102	58.3	0.1492	0.5649	58.1	0.1473	-40
-30	0.7463	60.5	0.1574	0.6841	60.3	0.1553	0.6306	60.1	0.1534	0.5843	59.9	0.1516	-30
-20	0.7688	62.3	0.1614	0.7052	62.1	0.1594	0.6506	61.9	0.1575	0.6032	61.7	0.1557	-20
-10	0.7910	64.0	0.1654	0.7259	63.9	0.1634	0.6701	63.7	0.1615	0.6218	63.5	0.1598	-10
0	0.8128	65.8	0.1692	0.7464	65.6	0.1673	0.6894	65.5	0.1655	0.6399	65.3	0.1638	0
10	0.8344	67.6	0.1730	0.7665	67.4	0.1711	0.7083	67.3	0.1693	0.6578	67.1	0.1677	10
20	0.8557	69.4	0.1768	0.7864	69.2	0.1749	0.7269	69.1	0.1731	0.6754	68.9	0.1715	20
30	0.8767	71.1	0.1805	0.8060	71.0	0.1786	0.7454	70.9	0.1769	0.6928	70.7	0.1752	30
40	0.8976	72.9	0.1841	0.8255	72.8	0.1823	0.7636	72.7	0.1805	0.7100	72.5	0.1789	40
50	0.9184	74.8	0.1877	0.8448	74.6	0.1859	0.7817	74.5	0.1842	0.7270	74.4	0.1825	50
60	0.9390	76.6	0.1913	0.8639	76.5	0.1894	0.7996	76.3	0.1877	0.7439	76.2	0.1861	60
70	0.9594	78.4	0.1948	0.8830	78.3	0.1930	0.8174	78.2	0.1913	0.7606	78.1	0.1897	70
80	0.9798	80.3	0.1982	0.9019	80.2	0.1964	0.8351	80.1	0.1947	0.7772	80.0	0.1932	80
90	1.0000	82.1	0.2017	0.9207	82.0	0.1999	0.8527	81.9	0.1982	0.7937	81.8	0.1966	90
100	1.0201	84.0	0.2051	0.9394	83.9	0.2033	0.8702	83.8	0.2016	0.8102	83.7	0.2000	100
110	1.0402	85.9	0.2084	0.9580	85.8	0.2066	0.8876	85.7	0.2050	0.8265	85.6	0.2034	110
120	1.0602	87.8	0.2118	0.9766	87.7	0.2100	0.9049	87.7	0.2083	0.8427	87.6	0.2068	120
130	1.0801	89.8	0.2151	0.9951	89.7	0.2133	0.9221	89.6	0.2116	0.8589	89.5	0.2101	130
140	1.1000	91.7	0.2183	1.0135	91.6	0.2166	0.9393	91.5	0.2149	0.8751	91.5	0.2134	140
150	1.1198	93.7	0.2216	1.0319	93.6	0.2198	0.9565	93.5	0.2182	0.8911	93.4	0.2166	150
160	1.1396	95.6	0.2248	1.0502	95.6	0.2230	0.9736	95.5	0.2214	0.9071	95.4	0.2199	160
170	1.1593	97.6	0.2280	1.0684	97.6	0.2262	0.9906	97.5	0.2246	0.9231	97.4	0.2231	170
180	1.1790	99.6	0.2311	1.0867	99.6	0.2294	1.0076	99.5	0.2278	0.9390	99.4	0.2262	180
190	1.1986	101.7	0.2343	1.1049	101.6	0.2325	1.0245	101.5	0.2309	0.9549	101.5	0.2294	190
200	1.2182	103.7	0.2374	1.1230	103.6	0.2357	1.0415	103.6	0.2340	0.9708	103.5	0.2325	200
210	1.2377	105.8	0.2405	1.1411	105.7	0.2387	1.0583	105.6	0.2371	0.9866	105.6	0.2356	210
220	1.2573	107.8	0.2436	1.1592	107.8	0.2418	1.0752	107.7	0.2402	1.0024	107.6	0.2387	220
230	1.2768	109.9	0.2466	1.1773	109.9	0.2449	1.0920	109.8	0.2433	1.0181	109.7	0.2418	230
240	1.1088	111.9	0.2463	1.0339	111.8	0.2448	—	—	—	—	—	—	240

Table 2 (continued)
Suva® 95 Superheated Vapor—Constant Pressure Tables

V = Volume in ft³/lb H = Enthalpy in Btu/lb S = Entropy in Btu/(lb) (°R) (Saturated Vapor Properties in parentheses)

ABSOLUTE PRESSURE, psia													TEMP. °F
TEMP. °F	80.00			85.00			90.00			95.00			
	(-61.41°F)			(-58.57°F)			(-55.85°F)			(-53.25°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
(0.4831)	(53.8)	(0.1357)	(0.4551)	(54.0)	(0.1352)	(0.4301)	(54.3)	(0.1348)	(0.4076)	(54.5)	(0.1343)		
-60	0.4860	54.1	0.1364	—	—	—	—	—	—	—	—	—	-60
-50	0.5059	56.0	0.1410	0.4715	55.7	0.1393	0.4409	55.4	0.1375	0.4134	55.1	0.1359	-50
-40	0.5251	57.8	0.1455	0.4900	57.6	0.1438	0.4587	57.3	0.1422	0.4307	57.1	0.1406	-40
-30	0.5437	59.6	0.1498	0.5078	59.4	0.1482	0.4759	59.2	0.1466	0.4473	59.0	0.1451	-30
-20	0.5618	61.5	0.1541	0.5251	61.3	0.1524	0.4925	61.1	0.1509	0.4633	60.8	0.1494	-20
-10	0.5794	63.3	0.1581	0.5420	63.1	0.1566	0.5087	62.9	0.1551	0.4789	62.7	0.1536	-10
0	0.5967	65.1	0.1621	0.5585	64.9	0.1606	0.5245	64.8	0.1591	0.4941	64.6	0.1577	0
10	0.6136	66.9	0.1661	0.5746	66.8	0.1645	0.5399	66.6	0.1631	0.5089	66.4	0.1617	10
20	0.6303	68.8	0.1699	0.5905	68.6	0.1684	0.5551	68.4	0.1670	0.5234	68.3	0.1656	20
30	0.6468	70.6	0.1737	0.6062	70.4	0.1722	0.5701	70.3	0.1708	0.5377	70.1	0.1694	30
40	0.6631	72.4	0.1774	0.6216	72.3	0.1759	0.5848	72.1	0.1745	0.5518	72.0	0.1732	40
50	0.6792	74.3	0.1810	0.6369	74.1	0.1796	0.5994	74.0	0.1782	0.5658	73.9	0.1769	50
60	0.6951	76.1	0.1846	0.6520	76.0	0.1832	0.6138	75.9	0.1818	0.5795	75.7	0.1805	60
70	0.7109	78.0	0.1882	0.6670	77.9	0.1868	0.6280	77.7	0.1854	0.5931	77.6	0.1841	70
80	0.7266	79.8	0.1917	0.6819	79.7	0.1903	0.6422	79.6	0.1889	0.6066	79.5	0.1877	80
90	0.7422	81.7	0.1951	0.6967	81.6	0.1937	0.6562	81.5	0.1924	0.6200	81.4	0.1912	90
100	0.7577	83.6	0.1986	0.7113	83.5	0.1972	0.6701	83.4	0.1959	0.6333	83.3	0.1946	100
110	0.7731	85.5	0.2020	0.7259	85.5	0.2006	0.6840	85.4	0.1993	0.6465	85.3	0.1980	110
120	0.7884	87.5	0.2053	0.7404	87.4	0.2039	0.6977	87.3	0.2026	0.6596	87.2	0.2014	120
130	0.8036	89.4	0.2086	0.7548	89.3	0.2073	0.7114	89.2	0.2060	0.6726	89.2	0.2047	130
140	0.8188	91.4	0.2119	0.7692	91.3	0.2106	0.7251	91.2	0.2093	0.6856	91.1	0.2081	140
150	0.8340	93.4	0.2152	0.7835	93.3	0.2138	0.7387	93.2	0.2126	0.6985	93.1	0.2113	150
160	0.8490	95.3	0.2184	0.7978	95.3	0.2171	0.7522	95.2	0.2158	0.7114	95.1	0.2146	160
170	0.8641	97.3	0.2216	0.8120	97.3	0.2203	0.7657	97.2	0.2190	0.7242	97.1	0.2178	170
180	0.8791	99.4	0.2248	0.8261	99.3	0.2235	0.7791	99.2	0.2222	0.7370	99.1	0.2210	180
190	0.8940	101.4	0.2280	0.8403	101.3	0.2266	0.7925	101.3	0.2254	0.7497	101.2	0.2242	190
200	0.9089	103.4	0.2311	0.8543	103.4	0.2298	0.8058	103.3	0.2285	0.7624	103.2	0.2273	200
210	0.9238	105.5	0.2342	0.8684	105.4	0.2329	0.8191	105.4	0.2316	0.7751	105.3	0.2304	210
220	0.9386	107.6	0.2373	0.8824	107.5	0.2360	0.8324	107.5	0.2347	0.7877	107.4	0.2335	220
230	0.9535	109.7	0.2403	0.8964	109.6	0.2390	0.8457	109.6	0.2378	0.8003	109.5	0.2366	230
240	0.9683	111.8	0.2434	0.9104	111.7	0.2421	0.8589	111.7	0.2408	0.8129	111.6	0.2396	240
250	0.9243	113.9	0.2451	0.8721	113.8	0.2438	0.8254	113.7	0.2426	—	—	—	250

TEMP. °F	100.00			110.00			120.00			130.00			TEMP. °F
	(-50.75°F)			(-46.01°F)			(-41.58°F)			(-37.42°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
	(0.3873)	(54.7)	(0.1339)	(0.352)	(55.0)	(0.1331)	(0.3224)	(55.4)	(0.1324)	(0.2971)	(55.7)	(0.1318)	
-50	0.3886	54.8	0.1343	—	—	—	—	—	—	—	—	—	-50
-40	0.4054	56.8	0.1390	0.3615	56.3	0.1361	0.3248	55.7	0.1332	—	—	—	-40
-30	0.4215	58.7	0.1436	0.3768	58.2	0.1407	0.3394	57.7	0.1380	0.3076	57.2	0.1355	-30
-20	0.4370	60.6	0.1480	0.3914	60.2	0.1452	0.3533	59.7	0.1426	0.3210	59.3	0.1402	-20
-10	0.4520	62.5	0.1522	0.4056	62.1	0.1496	0.3667	61.7	0.1471	0.3338	61.3	0.1447	-10
0	0.4666	64.4	0.1563	0.4192	64.0	0.1538	0.3797	63.7	0.1513	0.3461	63.3	0.1490	0
10	0.4809	66.3	0.1604	0.4326	65.9	0.1578	0.3922	65.6	0.1555	0.3580	65.2	0.1533	10
20	0.4949	68.1	0.1643	0.4456	67.8	0.1618	0.4044	67.5	0.1595	0.3695	67.2	0.1574	20
30	0.5086	70.0	0.1682	0.4583	69.7	0.1657	0.4164	69.4	0.1635	0.3808	69.1	0.1613	30
40	0.5222	71.9	0.1719	0.4709	71.6	0.1695	0.4281	71.3	0.1673	0.3918	71.0	0.1652	40
50	0.5355	73.7	0.1756	0.4832	73.5	0.1733	0.4396	73.2	0.1711	0.4027	73.0	0.1690	50
60	0.5487	75.6	0.1793	0.4954	75.4	0.1770	0.4510	75.1	0.1748	0.4133	74.9	0.1728	60
70	0.5617	77.5	0.1829	0.5074	77.3	0.1806	0.4622	77.0	0.1785	0.4238	76.8	0.1765	70
80	0.5746	79.4	0.1864	0.5193	79.2	0.1842	0.4732	79.0	0.1821	0.4342	78.7	0.1801	80
90	0.5874	81.3	0.1899	0.5311	81.1	0.1877	0.4842	80.9	0.1856	0.4444	80.7	0.1836	90
100	0.6001	83.2	0.1934	0.5428	83.0	0.1912	0.4950	82.8	0.1891	0.4546	82.6	0.1872	100
110	0.6127	85.2	0.1968	0.5544	85.0	0.1946	0.5058	84.8	0.1925	0.4646	84.6	0.1906	110
120	0.6252	87.1	0.2002	0.5659	86.9	0.1980	0.5164	86.7	0.1960	0.4746	86.6	0.1941	120
130	0.6377	89.1	0.2036	0.5773	88.9	0.2014	0.5270	88.7	0.1993	0.4845	88.5	0.1974	130
140	0.6501	91.0	0.2069	0.5887	90.9	0.2047	0.5376	90.7	0.2027	0.4943	90.5	0.2008	140
150	0.6624	93.0	0.2102	0.6000	92.9	0.2080	0.5480	92.7	0.2060	0.5040	92.5	0.2041	150
160	0.6747	95.0	0.2134	0.6113	94.9	0.2112	0.5584	94.7	0.2092	0.5137	94.6	0.2074	160
170	0.6869	97.0	0.2166	0.6225	96.9	0.2145	0.5688	96.7	0.2125	0.5234	96.6	0.2106	170
180	0.6991	99.1	0.2198	0.6337	98.9	0.2177	0.5791	98.8	0.2157	0.5330	98.6	0.2139	180
190	0.7112	101.1	0.2230	0.6448	101.0	0.2209	0.5894	100.8	0.2189	0.5425	100.7	0.2171	190
200	0.7234	103.2	0.2261	0.6559	103.0	0.2240	0.5996	102.9	0.2220	0.5520	102.8	0.2202	200
210	0.7354	105.2	0.2293	0.6669	105.1	0.2271	0.6098	105.0	0.2252	0.5615	104.8	0.2234	210
220	0.7475	107.3	0.2324	0.6779	107.2	0.2302	0.6200	107.1	0.2283	0.5710	106.9	0.2265	220
230	0.7595	109.4	0.2354	0.6889	109.3	0.2333	0.6301	109.2	0.2314	0.5804	109.1	0.2295	230
240	0.7714	111.5	0.2385	0.6999	111.4	0.2364	0.6402	111.3	0.2344	0.5898	111.2	0.2326	240
250	0.7834	113.7	0.2415	0.7108	113.6	0.2394	0.6503	113.4	0.2374	0.5991	113.3	0.2356	250
260	0.7217	115.7	0.2424	0.6604	115.6	0.2405	0.6085	115.5	0.2387	—	—	—	260
270	0.6178	117.6	0.2417	—	—	—	—	—	—	—	—	—	270

Table 2 (continued)
Suva® 95 Superheated Vapor—Constant Pressure Tables

V = Volume in ft³/lb H = Enthalpy in Btu/lb S = Entropy in Btu/(lb) (°R) (Saturated Vapor Properties in parentheses)

ABSOLUTE PRESSURE, psia													
TEMP. °F	140.00			150.00			160.00			170.00			TEMP. °F
	(-33.49°F)			(-29.77°F)			(-26.22°F)			(-22.84°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
	(0.2754)	(55.9)	(0.1312)	(0.2564)	(56.2)	(0.1306)	(0.2397)	(56.4)	(0.1301)	(0.2249)	(56.6)	(0.1296)	
-30	0.2801	56.7	0.1329	—	—	—	—	—	—	—	—	—	-30
-20	0.2931	58.8	0.1378	0.2688	58.3	0.1355	0.2474	57.8	0.1332	0.2283	57.3	0.1310	-20
-10	0.3054	60.9	0.1424	0.2807	60.4	0.1402	0.2590	60.0	0.1381	0.2398	59.5	0.1360	-10
0	0.3172	62.9	0.1469	0.2921	62.5	0.1448	0.2701	62.1	0.1427	0.2505	61.6	0.1408	0
10	0.3286	64.9	0.1511	0.3030	64.5	0.1491	0.2806	64.1	0.1472	0.2608	63.7	0.1453	10
20	0.3396	66.8	0.1553	0.3136	66.5	0.1533	0.2908	66.2	0.1514	0.2706	65.8	0.1496	20
30	0.3503	68.8	0.1593	0.3238	68.5	0.1574	0.3006	68.2	0.1556	0.2801	67.8	0.1538	30
40	0.3608	70.7	0.1633	0.3338	70.4	0.1614	0.3101	70.2	0.1596	0.2892	69.9	0.1579	40
50	0.3710	72.7	0.1671	0.3435	72.4	0.1653	0.3194	72.1	0.1635	0.2982	71.9	0.1619	50
60	0.3811	74.6	0.1709	0.3531	74.4	0.1691	0.3286	74.1	0.1674	0.3069	73.8	0.1657	60
70	0.3910	76.6	0.1746	0.3625	76.3	0.1728	0.3375	76.1	0.1711	0.3155	75.8	0.1695	70
80	0.4007	78.5	0.1782	0.3717	78.3	0.1765	0.3463	78.1	0.1748	0.3239	77.8	0.1733	80
90	0.4104	80.5	0.1818	0.3808	80.3	0.1801	0.3550	80.0	0.1785	0.3321	79.8	0.1769	90
100	0.4199	82.4	0.1854	0.3898	82.2	0.1836	0.3635	82.0	0.1820	0.3403	81.8	0.1805	100
110	0.4293	84.4	0.1888	0.3988	84.2	0.1872	0.3720	84.0	0.1856	0.3484	83.8	0.1840	110
120	0.4387	86.4	0.1923	0.4076	86.2	0.1906	0.3803	86.0	0.1890	0.3563	85.8	0.1875	120
130	0.4480	88.4	0.1957	0.4163	88.2	0.1940	0.3886	88.0	0.1925	0.3642	87.8	0.1910	130
140	0.4572	90.4	0.1990	0.4250	90.2	0.1974	0.3968	90.0	0.1958	0.3720	89.8	0.1944	140
150	0.4663	92.4	0.2024	0.4336	92.2	0.2007	0.4050	92.0	0.1992	0.3797	91.9	0.1977	150
160	0.4754	94.4	0.2057	0.4422	94.2	0.2040	0.4131	94.1	0.2025	0.3874	93.9	0.2010	160
170	0.4844	96.4	0.2089	0.4507	96.3	0.2073	0.4211	96.1	0.2058	0.3950	96.0	0.2043	170
180	0.4934	98.5	0.2121	0.4591	98.3	0.2105	0.4291	98.2	0.2090	0.4026	98.0	0.2076	180
190	0.5023	100.5	0.2153	0.4675	100.4	0.2137	0.4370	100.3	0.2122	0.4102	100.1	0.2108	190
200	0.5112	102.6	0.2185	0.4759	102.5	0.2169	0.4449	102.3	0.2154	0.4176	102.2	0.2140	200
210	0.5201	104.7	0.2217	0.4842	104.6	0.2201	0.4528	104.4	0.2186	0.4251	104.3	0.2172	210
220	0.5289	106.8	0.2248	0.4925	106.7	0.2232	0.4606	106.5	0.2217	0.4325	106.4	0.2203	220
230	0.5377	108.9	0.2279	0.5008	108.8	0.2263	0.4684	108.7	0.2248	0.4399	108.5	0.2234	230
240	0.5465	111.1	0.2309	0.5090	110.9	0.2294	0.4762	110.8	0.2279	0.4473	110.7	0.2265	240
250	0.5553	113.2	0.2340	0.5172	113.1	0.2324	0.4840	113.0	0.2309	0.4546	112.8	0.2295	250
260	0.5640	115.4	0.2370	0.5254	115.2	0.2354	0.4917	115.1	0.2340	0.4619	115.0	0.2326	260
270	0.5727	117.5	0.2400	0.5336	117.4	0.2384	0.4994	117.3	0.2370	0.4692	117.2	0.2356	270
280	0.5814	119.6	0.2431	0.5418	119.5	0.2414	0.5070	119.4	0.2400	—	—	—	280

TEMP. °F	180.00			190.00			200.00			220.00			TEMP. °F
	(-19.60°F)			(-16.49°F)			(-13.50°F)			(-7.83°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
	(0.2117)	(56.8)	(0.1291)	(0.1997)	(57.0)	(0.1286)	(0.1890)	(57.1)	(0.1281)	(0.1702)	(57.4)	(0.1272)	
-10	0.2225	59.0	0.1340	0.2069	58.5	0.1320	0.1928	58.0	0.1300	—	—	—	-10
0	0.2331	61.2	0.1389	0.2174	60.8	0.1370	0.2031	60.3	0.1351	0.1782	59.3	0.1315	0
10	0.2431	63.3	0.1435	0.2272	62.9	0.1417	0.2128	62.5	0.1399	0.1877	61.7	0.1365	10
20	0.2526	65.4	0.1479	0.2365	65.1	0.1462	0.2219	64.7	0.1445	0.1965	63.9	0.1413	20
30	0.2618	67.5	0.1521	0.2454	67.2	0.1505	0.2306	66.8	0.1489	0.2049	66.1	0.1458	30
40	0.2706	69.5	0.1563	0.2540	69.2	0.1547	0.2389	68.9	0.1531	0.2129	68.3	0.1502	40
50	0.2793	71.6	0.1603	0.2623	71.3	0.1587	0.2470	71.0	0.1572	0.2205	70.4	0.1544	50
60	0.2876	73.6	0.1642	0.2704	73.3	0.1627	0.2548	73.0	0.1612	0.2279	72.5	0.1584	60
70	0.2959	75.6	0.1680	0.2783	75.3	0.1665	0.2625	75.1	0.1651	0.2351	74.6	0.1624	70
80	0.3039	77.6	0.1717	0.2861	77.4	0.1703	0.2700	77.1	0.1689	0.2421	76.6	0.1663	80
90	0.3118	79.6	0.1754	0.2937	79.4	0.1740	0.2773	79.1	0.1726	0.2490	78.7	0.1700	90
100	0.3196	81.6	0.1790	0.3012	81.4	0.1776	0.2845	81.2	0.1763	0.2557	80.7	0.1737	100
110	0.3273	83.6	0.1826	0.3085	83.4	0.1812	0.2916	83.2	0.1799	0.2623	82.8	0.1774	110
120	0.3349	85.6	0.1861	0.3158	85.4	0.1847	0.2986	85.2	0.1834	0.2688	84.8	0.1809	120
130	0.3425	87.6	0.1896	0.3230	87.5	0.1882	0.3055	87.3	0.1869	0.2753	86.9	0.1844	130
140	0.3499	89.7	0.1930	0.3301	89.5	0.1916	0.3123	89.3	0.1903	0.2816	89.0	0.1879	140
150	0.3573	91.7	0.1963	0.3372	91.5	0.1950	0.3191	91.4	0.1937	0.2879	91.0	0.1913	150
160	0.3646	93.8	0.1997	0.3442	93.6	0.1983	0.3258	93.4	0.1971	0.2941	93.1	0.1947	160
170	0.3719	95.8	0.2030	0.3511	95.7	0.2017	0.3325	95.5	0.2004	0.3002	95.2	0.1980	170
180	0.3791	97.9	0.2062	0.3580	97.7	0.2049	0.3391	97.6	0.2037	0.3063	97.3	0.2013	180
190	0.3862	100.0	0.2095	0.3649	99.8	0.2082	0.3456	99.7	0.2069	0.3123	99.4	0.2046	190
200	0.3934	102.1	0.2127	0.3717	101.9	0.2114	0.3521	101.8	0.2101	0.3183	101.5	0.2078	200
210	0.4005	104.2	0.2158	0.3784	104.0	0.2145	0.3586	103.9	0.2133	0.3243	103.6	0.2110	210
220	0.4075	106.3	0.2190	0.3851	106.2	0.2177	0.3650	106.0	0.2165	0.3302	105.8	0.2142	220
230	0.4145	108.4	0.2221	0.3918	108.3	0.2208	0.3714	108.2	0.2196	0.3361	107.9	0.2173	230
240	0.4215	110.6	0.2252	0.3985	110.4	0.2239	0.3778	110.3	0.2227	0.3420	110.1	0.2204	240
250	0.4285	112.7	0.2282	0.4051	112.6	0.2270	0.3841	112.5	0.2258	0.3478	112.2	0.2235	250
260	0.4354	114.9	0.2313	0.4118	114.8	0.2300	0.3904	114.7	0.2288	0.3536	114.4	0.2266	260
270	0.4423	117.1	0.2343	0.4183	117.0	0.2330	0.3967	116.8	0.2318	0.3594	116.6	0.2296	270
280	0.4492	119.3	0.2373	0.4249	119.2	0.2360	0.4030	119.1	0.2348	0.3652	118.8	0.2326	280
290	0.4561	121.5	0.2402	0.4314	121.4	0.2390	0.4092	121.3	0.2378	0.3709	121.1	0.2356	290
300	0.4630	123.7	0.2431	—	—	—	—	—	—	—	—	—	300

Table 2 (continued)
Suva® 95 Superheated Vapor—Constant Pressure Tables

V = Volume in ft³/lb H = Enthalpy in Btu/lb S = Entropy in Btu/(lb) (°R) (Saturated Vapor Properties in parentheses)

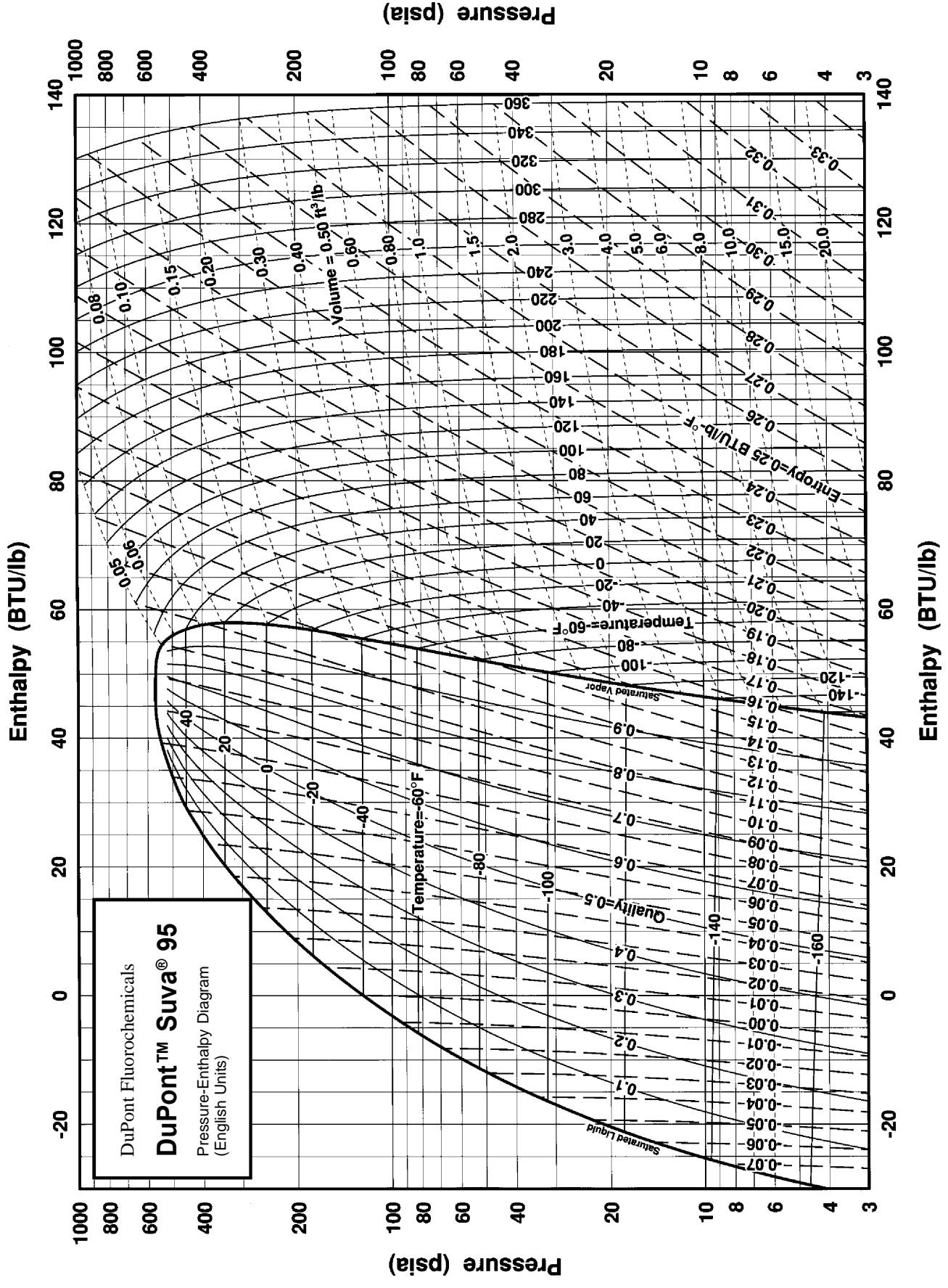
ABSOLUTE PRESSURE, psia													TEMP. °F
TEMP. °F	240.00			260.00			280.00			300.00			
	(-2.54°F)			(2.44°F)			(7.15°F)			(11.61°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
(0.1545)	(57.6)	(0.1264)	(0.1410)	(57.8)	(0.1255)	(0.1293)	(57.9)	(0.1247)	(0.1191)	(57.9)	(0.1238)		
0	0.1570	58.3	0.1278	—	—	—	—	—	—	—	—	—	0
10	0.1665	60.7	0.1332	0.1482	59.8	0.1298	0.1321	58.7	0.1264	—	—	—	10
20	0.1752	63.1	0.1382	0.1569	62.3	0.1351	0.1409	61.3	0.1320	0.1268	60.3	0.1289	20
30	0.1833	65.4	0.1429	0.1649	64.6	0.1400	0.1489	63.8	0.1371	0.1348	63.0	0.1343	30
40	0.1910	67.6	0.1473	0.1724	66.9	0.1446	0.1563	66.2	0.1419	0.1422	65.4	0.1393	40
50	0.1983	69.8	0.1516	0.1795	69.2	0.1490	0.1632	68.5	0.1465	0.1490	67.8	0.1440	50
60	0.2054	71.9	0.1558	0.1863	71.3	0.1533	0.1698	70.7	0.1509	0.1555	70.1	0.1485	60
70	0.2122	74.0	0.1598	0.1928	73.5	0.1574	0.1761	72.9	0.1551	0.1616	72.4	0.1528	70
80	0.2189	76.1	0.1638	0.1992	75.6	0.1614	0.1822	75.1	0.1591	0.1675	74.6	0.1570	80
90	0.2254	78.2	0.1676	0.2053	77.8	0.1653	0.1881	77.3	0.1631	0.1732	76.8	0.1610	90
100	0.2317	80.3	0.1713	0.2113	79.9	0.1691	0.1939	79.4	0.1669	0.1787	78.9	0.1649	100
110	0.2379	82.4	0.1750	0.2172	82.0	0.1728	0.1995	81.5	0.1707	0.1841	81.1	0.1687	110
120	0.2440	84.5	0.1786	0.2230	84.1	0.1764	0.2049	83.6	0.1744	0.1893	83.2	0.1724	120
130	0.2500	86.5	0.1822	0.2287	86.1	0.1800	0.2103	85.8	0.1780	0.1944	85.4	0.1761	130
140	0.2560	88.6	0.1857	0.2342	88.2	0.1835	0.2156	87.9	0.1816	0.1995	87.5	0.1797	140
150	0.2618	90.7	0.1891	0.2398	90.3	0.1870	0.2208	90.0	0.1850	0.2044	89.6	0.1832	150
160	0.2676	92.8	0.1925	0.2452	92.4	0.1904	0.2260	92.1	0.1885	0.2093	91.8	0.1867	160
170	0.2733	94.9	0.1959	0.2506	94.6	0.1938	0.2311	94.2	0.1919	0.2141	93.9	0.1901	170
180	0.2790	97.0	0.1992	0.2559	96.7	0.1972	0.2361	96.4	0.1953	0.2189	96.1	0.1935	180
190	0.2846	99.1	0.2025	0.2612	98.8	0.2005	0.2410	98.5	0.1986	0.2236	98.2	0.1968	190
200	0.2902	101.2	0.2057	0.2664	100.9	0.2037	0.2460	100.6	0.2018	0.2283	100.4	0.2001	200
210	0.2957	103.4	0.2089	0.2716	103.1	0.2069	0.2509	102.8	0.2051	0.2329	102.5	0.2033	210
220	0.3013	105.5	0.2121	0.2767	105.2	0.2101	0.2557	105.0	0.2083	0.2375	104.7	0.2066	220
230	0.3067	107.7	0.2152	0.2818	107.4	0.2133	0.2605	107.1	0.2115	0.2420	106.9	0.2097	230
240	0.3122	109.8	0.2184	0.2869	109.6	0.2164	0.2653	109.3	0.2146	0.2465	109.1	0.2129	240
250	0.3176	112.0	0.2215	0.2920	111.8	0.2195	0.2700	111.5	0.2177	0.2510	111.3	0.2160	250
260	0.3229	114.2	0.2245	0.2970	114.0	0.2226	0.2747	113.7	0.2208	0.2554	113.5	0.2191	260
270	0.3283	116.4	0.2276	0.3020	116.2	0.2257	0.2794	115.9	0.2239	0.2599	115.7	0.2222	270
280	0.3336	118.6	0.2306	0.3070	118.4	0.2287	0.2841	118.2	0.2269	0.2643	117.9	0.2252	280
290	0.3389	120.8	0.2336	0.3119	120.6	0.2317	0.2887	120.4	0.2299	0.2686	120.2	0.2282	290
300	0.3442	123.1	0.2365	0.3168	122.9	0.2347	0.2934	122.7	0.2329	0.2730	122.4	0.2312	300
310	0.3217	125.1	0.2376	0.2980	124.9	0.2359	0.2773	124.7	0.2342	—	—	—	310
320	0.2816	127.0	0.2372	—	—	—	—	—	—	—	—	—	320

TEMP. °F	320.00			340.00			360.00			380.00			TEMP. °F
	(15.86°F)			(19.92°F)			(23.81°F)			(27.54°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
	(0.1101)	(58.0)	(0.1230)	(0.1020)	(57.9)	(0.1221)	(0.0948)	(57.9)	(0.1212)	(0.0882)	(57.8)	(0.1203)	
20	0.1140	59.2	0.1256	0.1021	58.0	0.1222	—	—	—	—	—	—	20
30	0.1223	62.0	0.1314	0.1109	61.0	0.1285	0.1005	59.9	0.1254	0.0906	58.6	0.1221	30
40	0.1297	64.6	0.1367	0.1185	63.8	0.1341	0.1083	62.9	0.1314	0.0990	61.9	0.1286	40
50	0.1365	67.1	0.1416	0.1253	66.4	0.1392	0.1153	65.6	0.1368	0.1061	64.7	0.1343	50
60	0.1428	69.5	0.1462	0.1316	68.8	0.1440	0.1215	68.1	0.1417	0.1124	67.4	0.1395	60
70	0.1488	71.8	0.1506	0.1375	71.2	0.1485	0.1274	70.6	0.1464	0.1182	69.9	0.1443	70
80	0.1546	74.1	0.1549	0.1431	73.5	0.1528	0.1329	72.9	0.1508	0.1237	72.3	0.1488	80
90	0.1601	76.3	0.1589	0.1485	75.8	0.1570	0.1381	75.2	0.1550	0.1288	74.7	0.1532	90
100	0.1654	78.5	0.1629	0.1536	78.0	0.1610	0.1431	77.5	0.1591	0.1337	77.0	0.1573	100
110	0.1706	80.7	0.1668	0.1586	80.2	0.1649	0.1480	79.8	0.1631	0.1385	79.3	0.1614	110
120	0.1756	82.8	0.1705	0.1635	82.4	0.1687	0.1527	82.0	0.1670	0.1430	81.5	0.1653	120
130	0.1805	85.0	0.1742	0.1682	84.6	0.1725	0.1573	84.2	0.1708	0.1475	83.8	0.1691	130
140	0.1853	87.1	0.1778	0.1729	86.8	0.1761	0.1617	86.4	0.1744	0.1518	86.0	0.1728	140
150	0.1901	89.3	0.1814	0.1774	88.9	0.1797	0.1661	88.6	0.1781	0.1560	88.2	0.1765	150
160	0.1947	91.4	0.1849	0.1819	91.1	0.1832	0.1704	90.7	0.1816	0.1602	90.4	0.1801	160
170	0.1993	93.6	0.1883	0.1863	93.3	0.1867	0.1746	92.9	0.1851	0.1642	92.6	0.1836	170
180	0.2039	95.7	0.1917	0.1906	95.4	0.1901	0.1788	95.1	0.1886	0.1683	94.8	0.1871	180
190	0.2084	97.9	0.1951	0.1949	97.6	0.1935	0.1829	97.3	0.1919	0.1722	97.0	0.1905	190
200	0.2128	100.1	0.1984	0.1991	99.8	0.1968	0.1870	99.5	0.1953	0.1761	99.2	0.1938	200
210	0.2172	102.2	0.2017	0.2033	102.0	0.2001	0.1910	101.7	0.1986	0.1799	101.4	0.1971	210
220	0.2215	104.4	0.2049	0.2075	104.2	0.2033	0.1949	103.9	0.2019	0.1838	103.6	0.2004	220
230	0.2258	106.6	0.2081	0.2116	106.4	0.2066	0.1989	106.1	0.2051	0.1875	105.8	0.2037	230
240	0.2301	108.8	0.2113	0.2156	108.6	0.2097	0.2028	108.3	0.2083	0.1912	108.1	0.2069	240
250	0.2344	111.0	0.2144	0.2197	110.8	0.2129	0.2066	110.5	0.2114	0.1949	110.3	0.2100	250
260	0.2386	113.2	0.2175	0.2237	113.0	0.2160	0.2105	112.8	0.2146	0.1986	112.5	0.2132	260
270	0.2428	115.5	0.2206	0.2277	115.2	0.2191	0.2143	115.0	0.2177	0.2023	114.8	0.2163	270
280	0.2469	117.7	0.2236	0.2316	117.5	0.2222	0.2180	117.3	0.2207	0.2059	117.0	0.2194	280
290	0.2511	120.0	0.2267	0.2356	119.8	0.2252	0.2218	119.5	0.2238	0.2095	119.3	0.2224	290
300	0.2552	122.2	0.2297	0.2395	122.0	0.2282	0.2255	121.8	0.2268	0.2130	121.6	0.2254	300
310	0.2593	124.5	0.2326	0.2434	124.3	0.2312	0.2292	124.1	0.2298	0.2166	123.9	0.2284	310
320	0.2634	126.8	0.2356	0.2472	126.6	0.2341	0.2329	126.4	0.2327	0.2201	126.2	0.2314	320
330	0.2366	128.7	0.2357	0.2236	128.5	0.2344	—	—	—	—	—	—	330

Table 2 (continued)
Suva® 95 Superheated Vapor—Constant Pressure Tables

V = Volume in ft³/lb H = Enthalpy in Btu/lb S = Entropy in Btu/(lb) (°R) (Saturated Vapor Properties in parentheses)

ABSOLUTE PRESSURE, psia													
TEMP. °F	400.00			450.00			500.00			550.00			TEMP. °F
	(31.13°F)			(39.56°F)			(47.32°F)			(54.53°F)			
	V	H	S	V	H	S	V	H	S	V	H	S	
	(0.0822)	(57.6)	(0.1193)	(0.0692)	(57.0)	(0.1166)	(0.0584)	(56.0)	(0.1135)	(0.0495)	(54.7)	(0.1100)	
40	0.0903	60.8	0.1257	0.0697	57.2	0.1171	—	—	—	—	—	—	40
50	0.0977	63.8	0.1318	0.0790	61.2	0.1251	0.0618	57.6	0.1166	—	—	—	50
60	0.1041	66.6	0.1372	0.0861	64.5	0.1315	0.0707	61.9	0.1251	0.0564	58.4	0.1172	60
70	0.1100	69.2	0.1422	0.0922	67.4	0.1370	0.0774	65.3	0.1316	0.0646	62.8	0.1257	70
80	0.1154	71.7	0.1469	0.0976	70.1	0.1421	0.0830	68.4	0.1373	0.0708	66.3	0.1322	80
90	0.1204	74.2	0.1513	0.1026	72.7	0.1468	0.0881	71.1	0.1424	0.0760	69.4	0.1379	90
100	0.1252	76.5	0.1556	0.1072	75.2	0.1513	0.0927	73.8	0.1472	0.0806	72.3	0.1430	100
110	0.1299	78.8	0.1597	0.1117	77.6	0.1556	0.0970	76.3	0.1517	0.0849	75.0	0.1478	110
120	0.1343	81.1	0.1636	0.1159	80.0	0.1597	0.1011	78.8	0.1560	0.0889	77.6	0.1523	120
130	0.1386	83.4	0.1675	0.1200	82.3	0.1637	0.1050	81.2	0.1601	0.0927	80.1	0.1566	130
140	0.1428	85.6	0.1713	0.1239	84.6	0.1676	0.1087	83.6	0.1641	0.0963	82.5	0.1607	140
150	0.1469	87.8	0.1750	0.1277	86.9	0.1713	0.1124	85.9	0.1680	0.0998	84.9	0.1647	150
160	0.1510	90.0	0.1786	0.1315	89.2	0.1750	0.1159	88.3	0.1717	0.1031	87.3	0.1686	160
170	0.1549	92.3	0.1821	0.1351	91.4	0.1787	0.1193	90.6	0.1754	0.1064	89.7	0.1724	170
180	0.1588	94.5	0.1856	0.1387	93.7	0.1822	0.1226	92.8	0.1790	0.1095	92.0	0.1761	180
190	0.1626	96.7	0.1890	0.1422	95.9	0.1857	0.1259	95.1	0.1826	0.1126	94.3	0.1797	190
200	0.1663	98.9	0.1924	0.1457	98.2	0.1891	0.1291	97.4	0.1861	0.1156	96.7	0.1832	200
210	0.1700	101.1	0.1958	0.1491	100.4	0.1925	0.1323	99.7	0.1895	0.1186	99.0	0.1867	210
220	0.1737	103.3	0.1990	0.1524	102.7	0.1958	0.1354	102.0	0.1929	0.1215	101.3	0.1901	220
230	0.1773	105.6	0.2023	0.1557	104.9	0.1991	0.1385	104.2	0.1962	0.1244	103.6	0.1935	230
240	0.1809	107.8	0.2055	0.1590	107.2	0.2024	0.1415	106.5	0.1995	0.1272	105.9	0.1968	240
250	0.1844	110.0	0.2087	0.1623	109.4	0.2056	0.1445	108.8	0.2027	0.1300	108.2	0.2001	250
260	0.1880	112.3	0.2119	0.1655	111.7	0.2088	0.1475	111.1	0.2059	0.1328	110.5	0.2033	260
270	0.1914	114.6	0.2150	0.1687	114.0	0.2119	0.1504	113.4	0.2091	0.1355	112.8	0.2065	270
280	0.1949	116.8	0.2181	0.1718	116.3	0.2150	0.1533	115.7	0.2122	0.1382	115.1	0.2096	280
290	0.1984	119.1	0.2211	0.1749	118.6	0.2181	0.1562	118.0	0.2153	0.1409	117.5	0.2128	290
300	0.2018	121.4	0.2241	0.1780	120.9	0.2211	0.1591	120.3	0.2184	0.1436	119.8	0.2159	300
310	0.2052	123.7	0.2272	0.1811	123.2	0.2242	0.1619	122.7	0.2214	0.1462	122.1	0.2189	310
320	0.2086	126.0	0.2301	0.1842	125.5	0.2272	0.1647	125.0	0.2245	0.1488	124.5	0.2220	320
330	0.2119	128.3	0.2331	0.1872	127.8	0.2301	0.1675	127.3	0.2274	0.1514	126.9	0.2250	330
340	0.2153	130.6	0.2360	0.1903	130.2	0.2331	0.1703	129.7	0.2304	0.1540	129.2	0.2279	340
350	0.1731	132.1	0.2333	0.1565	131.6	0.2309	—	—	—	—	—	—	350
360	0.1590	134.0	0.2338	—	—	—	—	—	—	—	—	—	360



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