



Suva[®]
refrigerants

**Thermodynamic
Properties
of
HFC-125**

(pentafluoroethane)

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DuPont Product Names:

Suva[®] 125 Refrigerants
FE-25 Fire Extinguishant

Thermodynamic Properties of HFC-125 Refrigerant (pentafluoroethane)

SI Units

New tables of the thermodynamic properties of HFC-125 have been developed and are presented here. These tables are based on experimental data from the database at the National Institute of Standards and Technology (NIST). Equations have been developed, based on the Modified Benedict-Webb-Rubin (MBWR) equation of state, which represent the data with accuracy and consistency throughout the entire range of temperature, pressure, and density.

Physical Properties

Chemical Formula	CHF ₂ CF ₃	
Molecular Weight	120.02	
Boiling Point at One Atmosphere	-48.14°C	(-54.70°F)
Critical Temperature, T _c	66.25°C 339.40 K	(151.25°F) (610.92°R)
Critical Pressure, P _c	3631.0 kPa (abs)	(526.6 psia)
Critical Density, D _c	571.9 kg/m ³	(35.70 lb/ft ³)
Critical Volume, V _c	0.00175 m ³ /kg	(0.0280 ft ³ /lb)

Units and Factors

t	= temperature in °C
T	= temperature in K = °C + 273.15
P	= pressure in kiloPascals absolute [kPa (abs)]
v _f	= volume of saturated liquid in m ³ /kg
v _g	= volume of saturated vapor in m ³ /kg
V	= volume of superheated vapor in m ³ /kg
d _f	= 1/v _f = density of saturated liquid in kg/m ³
d _g	= 1/v _g = density of saturated vapor in kg/m ³
h _f	= enthalpy of saturated liquid in kJ/kg
h _{fg}	= enthalpy of vaporization in kJ/kg
h _g	= enthalpy of saturated vapor in kJ/kg
H	= enthalpy of superheated vapor in kJ/kg
s _f	= entropy of saturated liquid in kJ/(kg) (K)
s _g	= entropy of saturated vapor in kJ/(kg) (K)
S	= entropy of superheated vapor in kJ/(kg) (K)
C _p	= heat capacity at constant pressure in kJ/(kg) (°C)
C _v	= heat capacity at constant volume in kJ/(kg) (°C)
v _s	= velocity of sound in m/sec

The gas constant, R = 8.314 J/(mole) (K)
for HFC-125, R = 0.0693 kJ/kg • K

One atmosphere = 101.325 kPa

Reference point for enthalpy and entropy:

h_f = 200 kJ/kg at 0°C
s_f = 1 kJ/kg • K at 0°C

Equations

The Modified Benedict-Webb-Rubin (MBWR) equation of state was used to calculate the tables of thermodynamic properties. It was chosen as the preferred equation of state because it provided the most accurate fit of the thermodynamic data over the entire range of temperatures and pressures presented in these tables. The data fit and calculation of constants for HFC-125 were performed for DuPont at the National Institute of Standards and Technology (NIST) under the supervision of Dr. Mark O. McLinden.

The constants were calculated in SI units. For conversion of thermodynamic properties to Engineering (I/P) units, properties must be calculated in SI units and converted to I/P units. Conversion factors are provided for each property derived from the MBWR equation of state.

1. Equation of State (MBWR)

$$\frac{P}{100} = \sum_{n=1}^9 \frac{a_n}{V^n} + \exp(-V_c^2/V^2) \sum_{n=10}^{15} \frac{a_n}{V^{2n-17}}$$

where the temperature dependence of the coefficients is given by:

$$\begin{aligned} a_1 &= RT \\ a_2 &= b_1 T + b_2 T^{0.5} + b_3 + b_4/T + b_5/T^2 \\ a_3 &= b_6 T + b_7 + b_8/T + b_9/T^2 \\ a_4 &= b_{10} T + b_{11} + b_{12}/T \\ a_5 &= b_{13} \\ a_6 &= b_{14}/T + b_{15}/T^2 \\ a_7 &= b_{16}/T \\ a_8 &= b_{17}/T + b_{18}/T^2 \\ a_9 &= b_{19}/T^2 \\ a_{10} &= b_{20}/T^2 + b_{21}/T^3 \\ a_{11} &= b_{22}/T^2 + b_{23}/T^4 \\ a_{12} &= b_{24}/T^2 + b_{25}/T^3 \\ a_{13} &= b_{26}/T^2 + b_{27}/T^4 \\ a_{14} &= b_{28}/T^2 + b_{29}/T^3 \\ a_{15} &= b_{30}/T^2 + b_{31}/T^3 + b_{32}/T^4 \end{aligned}$$

where T is in K = °C + 273.15, P is in kPa, V is in liters/mole (= m³/kg × MW), V_c = 0.20986 liters/mole, and R = 0.08314471 bar (absolute) • liters/mole • K.

MBWR coefficients for HFC-125:

$b_1 = 0.695\ 150\ 1355\ E-01$
 $b_2 = -0.109\ 596\ 2639\ E+02$
 $b_3 = 0.289\ 171\ 4672\ E+03$
 $b_4 = -0.510\ 408\ 6560\ E+05$
 $b_5 = 0.366\ 753\ 9466\ E+07$
 $b_6 = 0.385\ 350\ 8082\ E-01$
 $b_7 = -0.370\ 988\ 3737\ E+02$
 $b_8 = 0.134\ 556\ 5559\ E+05$
 $b_9 = 0.371\ 143\ 6230\ E+07$
 $b_{10} = -0.123\ 685\ 7688\ E-02$
 $b_{11} = 0.130\ 495\ 9834\ E+01$
 $b_{12} = -0.468\ 463\ 0566\ E+03$
 $b_{13} = 0.511\ 361\ 3751\ E-01$
 $b_{14} = -0.204\ 695\ 4599\ E+02$
 $b_{15} = -0.414\ 622\ 1816\ E+04$
 $b_{16} = 0.219\ 744\ 1361\ E+01$
 $b_{17} = -0.637\ 258\ 4062\ E-01$
 $b_{18} = 0.291\ 220\ 1087\ E+02$
 $b_{19} = -0.102\ 197\ 5807\ E+01$
 $b_{20} = -0.560\ 938\ 4438\ E+07$
 $b_{21} = 0.770\ 104\ 5996\ E+08$
 $b_{22} = -0.224\ 544\ 7493\ E+06$
 $b_{23} = 0.183\ 452\ 3988\ E+10$
 $b_{24} = -0.292\ 476\ 3849\ E+04$
 $b_{25} = -0.388\ 467\ 5293\ E+05$
 $b_{26} = -0.339\ 743\ 2296\ E+02$
 $b_{27} = -0.544\ 169\ 0383\ E+06$
 $b_{28} = -0.168\ 305\ 7117\ E+00$
 $b_{29} = 0.115\ 387\ 2986\ E+02$
 $b_{30} = -0.734\ 893\ 8566\ E-03$
 $b_{31} = -0.329\ 200\ 8343\ E+00$
 $b_{32} = -0.403\ 885\ 2260\ E+01$

Ideal Gas Heat Capacity Equation (at constant pressure):

$$C_p^o \text{ (J/mole} \cdot \text{K)} = cp1 + cp2 T + cp3 T^2 + cp4 T^3$$

$$cp1 = 2.36022\ E+01 \quad cp3 = -1.23028\ E-04$$

$$cp2 = 2.83723\ E-01 \quad cp4 = -5.67252\ E-08$$

$$MW = 120.02$$

$$R = 8.314471\ \text{J/mole} \cdot \text{K}$$

Properties calculated in SI units from the equation and constants listed above can be converted to I/P units using the conversion factors shown below. Please note that in converting enthalpy and entropy from SI to I/P units, a change in reference states must be included (from $H = 200$ and $S = 1$ at 0°C for SI units to $H = 0$ and $S = 0$ at -40°C for I/P units). In the conversion equation below, H (ref) and S (ref) are the saturated liquid enthalpy and entropy at -40°C . For HFC-125, H (ref) = $152.1\ \text{kJ/kg}$ and S (ref) = $0.8120\ \text{kJ/kg} \cdot \text{K}$.

$$P \text{ (psia)} = P \text{ (kPa)} \cdot 0.14504$$

$$T \text{ (}^\circ\text{F)} = (T \text{ [}^\circ\text{C]} \cdot 1.8) + 32$$

$$D \text{ (lb/ft}^3\text{)} = D \text{ (kg/m}^3\text{)} \cdot 0.062428$$

$$V \text{ (ft}^3\text{/lb)} = V \text{ (m}^3\text{/kg)} \cdot 16.018$$

$$H \text{ (Btu/lb)} = [H \text{ (kJ/kg)} - H \text{ (ref)}] \cdot 0.43021$$

$$S \text{ (Btu/lb} \cdot \text{ }^\circ\text{R)} = [S \text{ (kJ/kg} \cdot \text{K)} - S \text{ (ref)}] \cdot 0.23901$$

$$C_p \text{ (Btu/lb} \cdot \text{ }^\circ\text{F)} = C_p \text{ (kJ/kg} \cdot \text{K)} \cdot 0.23901$$

$$C_v \text{ (Btu/lb} \cdot \text{ }^\circ\text{F)} = C_v \text{ (kJ/kg} \cdot \text{K)} \cdot 0.23901$$

$$v_s \text{ (ft/sec)} = v_s \text{ (m/sec)} \cdot 3.2808$$

2. Martin-Hou Equation of State (fit from MBWR data)

As previously stated, the thermodynamic properties presented in these tables are based on the MBWR equation of state. Coefficients for the Martin-Hou equation of state are presented below for the convenience of those who may have existing computer programs based on this equation of state. While not as accurate as the data from the MBWR equation of state, particularly in the superheated region, data calculated using these Martin-Hou coefficients should be sufficient for most engineering calculations.

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

For SI units

T and T_c are in $\text{K} = ^\circ\text{C} + 273.15$, V is in m^3/kg , and P is in kPa

$$R = 0.0693\ \text{kJ/kg} \cdot \text{K for HFC-125}$$

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

$$A_2 = 2.121518\ E-01 \quad A_4 = -4.179458\ E-06$$

$$B_2 = -4.768751\ E-04 \quad B_4 = 8.005396\ E-09$$

$$C_2 = -7.419743\ E-01 \quad C_4 = 8.883260\ E-06$$

$$A_3 = -8.217376\ E-05 \quad A_5 = 1.813594\ E-08$$

$$B_3 = 3.584201\ E-07 \quad B_5 = -3.596514\ E-11$$

$$C_3 = 3.787937\ E-04 \quad C_5 = -3.833160\ E-08$$

$$b = 4.534408\ E-04 \quad k = 1.875000\ E+00$$

For I/P units

T and T_c are in $^{\circ}\text{R} = ^{\circ}\text{F} + 459.67$, V is in ft^3/lb , and P is in psia

$R = 0.0894 \text{ (psia)(ft}^3\text{)/lb} \cdot ^{\circ}\text{R}$ for HFC-125

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

$$A_2 = 7.895332 \text{ E}+00 \quad A_4 = -3.991028 \text{ E}-02$$

$$B_2 = -9.859523 \text{ E}-03 \quad B_4 = 4.246931 \text{ E}-05$$

$$C_2 = -2.761293 \text{ E}+01 \quad C_4 = 8.482761 \text{ E}-02$$

$$A_3 = -4.898662 \text{ E}-02 \quad A_5 = 2.774122 \text{ E}-03$$

$$B_3 = 1.187037 \text{ E}-04 \quad B_5 = -3.056291 \text{ E}-06$$

$$C_3 = 2.258120 \text{ E}-01 \quad C_5 = -5.863303 \text{ E}-03$$

$$b = 7.263420 \text{ E}-03 \quad k = 1.875000 \text{ E}+00$$

Ideal Gas Heat Capacity (at constant volume):

$$C_v^{\circ} = a + bT + cT^2 + dT^3 + f/T^2$$

For SI units

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

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

a, b, c, d, f are constants:

$$a = 1.273762 \text{ E}-01 \quad d = -4.726312 \text{ E}-10$$

$$b = 2.363964 \text{ E}-03 \quad f = 0.000000 \text{ E}+00$$

$$c = -1.025063 \text{ E}-06$$

For I/P units

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

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

a, b, c, d, f are constants:

$$a = 3.045381 \text{ E}-02 \quad d = -1.936927 \text{ E}-11$$

$$b = 3.138895 \text{ E}-04 \quad f = 0.000000 \text{ E}+00$$

$$c = -7.561599 \text{ E}-08$$

3. Vapor Pressure

$$\log_{10} P_{\text{sat}} = A + B/T + C \log_{10} T + D T + E \left(\frac{F-T}{T} \right) \log_{10} (F-T)$$

For SI units

T is in $\text{K} = ^{\circ}\text{C} + 273.15$ and P is in kPa

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

$$A = 3.627266 \text{ E}+01 \quad D = 6.808956 \text{ E}-03$$

$$B = -2.091579 \text{ E}+03 \quad E = 2.985018 \text{ E}-01$$

$$C = -1.140485 \text{ E}+01 \quad F = 3.425937 \text{ E}+02$$

For I/P units

T is in $^{\circ}\text{R} = ^{\circ}\text{F} + 459.67$ and P is in psia

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

$$A = 3.842169 \text{ E}+01 \quad D = 3.782754 \text{ E}-03$$

$$B = -3.811832 \text{ E}+03 \quad E = 2.985018 \text{ E}-01$$

$$C = -1.140485 \text{ E}+01 \quad F = 6.166686 \text{ E}+02$$

4. Density of the Saturated Liquid

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

For SI units

$T_r = T/T_c$, both in $\text{K} = ^{\circ}\text{C} + 273.15$ and d_f is in kg/m^3

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

$$A_f = 5.719050 \text{ E}+02 \quad D_f = 9.505627 \text{ E}+02$$

$$B_f = 1.087553 \text{ E}+03 \quad E_f = -5.454460 \text{ E}+02$$

$$C_f = -1.136146 \text{ E}+01$$

For I/P units

$T_r = T/T_c$, both in $^{\circ}\text{R} = ^{\circ}\text{F} + 459.67$ and d_f is in lb/ft^3

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

$$A_f = 3.570300 \text{ E}+01 \quad D_f = 5.934192 \text{ E}+01$$

$$B_f = 6.789397 \text{ E}+01 \quad E_f = -3.405122 \text{ E}+01$$

$$C_f = -7.092724 \text{ E}-01$$

TABLE 1
HFC-125 Saturation Properties—Temperature Table

TEMP. °C	PRESSURE kPa (abs)	VOLUME m ³ /kg		DENSITY kg/m ³		ENTHALPY kJ/kg			ENTROPY kJ/(kg)(K)		TEMP. °C
		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	
-100	3.11	0.0006	3.8462	1672.6	0.260	87.2	189.7	276.9	0.4918	1.5872	-100
-99	3.41	0.0006	3.5336	1670.2	0.283	88.3	189.2	277.5	0.4978	1.5842	-99
-98	3.73	0.0006	3.2468	1667.7	0.308	89.3	188.7	278.1	0.5038	1.5813	-98
-97	4.07	0.0006	2.9851	1665.2	0.335	90.4	188.2	278.6	0.5098	1.5784	-97
-96	4.44	0.0006	2.7548	1662.6	0.363	91.4	187.8	279.2	0.5157	1.5756	-96
-95	4.84	0.0006	2.5381	1660.0	0.394	92.5	187.3	279.8	0.5216	1.5729	-95
-94	5.27	0.0006	2.3474	1657.4	0.426	93.5	186.8	280.3	0.5274	1.5703	-94
-93	5.73	0.0006	2.1692	1654.7	0.461	94.6	186.4	280.9	0.5332	1.5677	-93
-92	6.22	0.0006	2.0080	1652.0	0.498	95.6	185.9	281.5	0.5389	1.5652	-92
-91	6.75	0.0006	1.8587	1649.2	0.538	96.6	185.4	282.1	0.5446	1.5627	-91
-90	7.32	0.0006	1.7241	1646.5	0.580	97.7	185.0	282.7	0.5503	1.5604	-90
-89	7.93	0.0006	1.6000	1643.7	0.625	98.7	184.5	283.2	0.5560	1.5580	-89
-88	8.57	0.0006	1.4881	1640.9	0.672	99.8	184.1	283.8	0.5616	1.5558	-88
-87	9.26	0.0006	1.3831	1638.1	0.723	100.8	183.6	284.4	0.5672	1.5536	-87
-86	10.00	0.0006	1.2887	1635.2	0.776	101.8	183.1	285.0	0.5728	1.5514	-86
-85	10.79	0.0006	1.2005	1632.4	0.833	102.9	182.7	285.6	0.5784	1.5494	-85
-84	11.62	0.0006	1.1198	1629.5	0.893	103.9	182.2	286.2	0.5839	1.5473	-84
-83	12.51	0.0006	1.0449	1626.6	0.957	105.0	181.8	286.7	0.5894	1.5454	-83
-82	13.45	0.0006	0.9756	1623.7	1.025	106.0	181.3	287.3	0.5949	1.5434	-82
-81	14.45	0.0006	0.9124	1620.7	1.096	107.1	180.8	287.9	0.6004	1.5416	-81
-80	15.52	0.0006	0.8540	1617.8	1.171	108.1	180.4	288.5	0.6059	1.5398	-80
-79	16.64	0.0006	0.8000	1614.8	1.250	109.2	179.9	289.1	0.6113	1.5380	-79
-78	17.84	0.0006	0.7496	1611.8	1.334	110.2	179.4	289.7	0.6167	1.5363	-78
-77	19.10	0.0006	0.7032	1608.8	1.422	111.3	179.0	290.3	0.6221	1.5346	-77
-76	20.43	0.0006	0.6605	1605.8	1.514	112.4	178.5	290.9	0.6275	1.5330	-76
-75	21.85	0.0006	0.6203	1602.8	1.612	113.4	178.0	291.5	0.6329	1.5314	-75
-74	23.33	0.0006	0.5834	1599.7	1.714	114.5	177.6	292.0	0.6382	1.5298	-74
-73	24.91	0.0006	0.5488	1596.7	1.822	115.5	177.1	292.6	0.6436	1.5283	-73
-72	26.56	0.0006	0.5168	1593.6	1.935	116.6	176.6	293.2	0.6489	1.5269	-72
-71	28.31	0.0006	0.4869	1590.5	2.054	117.7	176.1	293.8	0.6542	1.5255	-71
-70	30.15	0.0006	0.4591	1587.4	2.178	118.8	175.6	294.4	0.6595	1.5241	-70
-69	32.08	0.0006	0.4333	1584.3	2.308	119.8	175.2	295.0	0.6647	1.5228	-69
-68	34.12	0.0006	0.4090	1581.2	2.445	120.9	174.7	295.6	0.6700	1.5215	-68
-67	36.25	0.0006	0.3864	1578.0	2.588	122.0	174.2	296.2	0.6753	1.5202	-67
-66	38.50	0.0006	0.3654	1574.8	2.737	123.1	173.7	296.8	0.6805	1.5190	-66
-65	40.85	0.0006	0.3455	1571.7	2.894	124.2	173.2	297.4	0.6857	1.5178	-65
-64	43.32	0.0006	0.3271	1568.5	3.057	125.2	172.7	297.9	0.6909	1.5166	-64
-63	45.91	0.0006	0.3098	1565.2	3.228	126.3	172.2	298.5	0.6961	1.5155	-63
-62	48.63	0.0006	0.2936	1562.0	3.406	127.4	171.7	299.1	0.7013	1.5144	-62
-61	51.47	0.0006	0.2784	1558.8	3.592	128.5	171.2	299.7	0.7064	1.5134	-61
-60	54.44	0.0006	0.2641	1555.5	3.786	129.6	170.7	300.3	0.7116	1.5123	-60
-59	57.55	0.0006	0.2508	1552.2	3.988	130.7	170.2	300.9	0.7167	1.5113	-59
-58	60.79	0.0006	0.2382	1548.9	4.199	131.8	169.6	301.5	0.7219	1.5104	-58
-57	64.19	0.0006	0.2263	1545.6	4.418	132.9	169.1	302.1	0.7270	1.5094	-57
-56	67.73	0.0006	0.2152	1542.3	4.647	134.0	168.6	302.6	0.7321	1.5085	-56
-55	71.43	0.0006	0.2048	1539.0	4.884	135.1	168.1	303.2	0.7372	1.5076	-55
-54	75.28	0.0007	0.1949	1535.6	5.132	136.3	167.6	303.8	0.7422	1.5068	-54
-53	79.30	0.0007	0.1856	1532.2	5.388	137.4	167.0	304.4	0.7473	1.5060	-53
-52	83.49	0.0007	0.1768	1528.8	5.656	138.5	166.5	305.0	0.7523	1.5051	-52
-51	87.85	0.0007	0.1685	1525.4	5.933	139.6	165.9	305.5	0.7574	1.5044	-51
-50	92.39	0.0007	0.1607	1522.0	6.221	140.7	165.4	306.1	0.7624	1.5036	-50
-49	97.11	0.0007	0.1534	1518.6	6.520	141.9	164.9	306.7	0.7674	1.5029	-49
-48	102.02	0.0007	0.1464	1515.1	6.830	143.0	164.3	307.3	0.7724	1.5022	-48
-47	107.13	0.0007	0.1398	1511.6	7.152	144.1	163.7	307.9	0.7774	1.5015	-47
-46	112.43	0.0007	0.1336	1508.1	7.486	145.2	163.2	308.4	0.7824	1.5008	-46
-45	117.94	0.0007	0.1277	1504.6	7.832	146.4	162.6	309.0	0.7874	1.5001	-45
-44	123.65	0.0007	0.1221	1501.1	8.190	147.5	162.1	309.6	0.7923	1.4995	-44
-43	129.59	0.0007	0.1168	1497.5	8.561	148.6	161.5	310.1	0.7972	1.4989	-43
-42	135.74	0.0007	0.1118	1493.9	8.945	149.8	160.9	310.7	0.8022	1.4983	-42
-41	142.12	0.0007	0.1070	1490.3	9.343	150.9	160.3	311.3	0.8071	1.4977	-41

TABLE 1 (continued)
HFC-125 Saturation Properties—Temperature Table

TEMP. °C	PRESSURE kPa (abs)	VOLUME m ³ /kg		DENSITY kg/m ³		ENTHALPY kJ/kg			ENTROPY kJ/(kg)(K)		TEMP. °C
		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	
-40	148.73	0.0007	0.1025	1486.7	9.755	152.1	159.8	311.8	0.8120	1.4972	-40
-39	155.58	0.0007	0.0982	1483.1	10.180	153.2	159.2	312.4	0.8169	1.4967	-39
-38	162.67	0.0007	0.0942	1479.4	10.621	154.4	158.6	313.0	0.8218	1.4961	-38
-37	170.01	0.0007	0.0903	1475.7	11.076	155.5	158.0	313.5	0.8267	1.4956	-37
-36	177.60	0.0007	0.0866	1472.0	11.546	156.7	157.4	314.1	0.8315	1.4951	-36
-35	185.45	0.0007	0.0831	1468.3	12.032	157.8	156.8	314.6	0.8364	1.4947	-35
-34	193.57	0.0007	0.0798	1464.6	12.534	159.0	156.2	315.2	0.8412	1.4942	-34
-33	201.97	0.0007	0.0766	1460.8	13.052	160.2	155.6	315.7	0.8460	1.4938	-33
-32	210.64	0.0007	0.0736	1457.0	13.588	161.3	154.9	316.3	0.8508	1.4933	-32
-31	219.59	0.0007	0.0707	1453.2	14.140	162.5	154.3	316.8	0.8556	1.4929	-31
-30	228.84	0.0007	0.0680	1449.4	14.710	163.7	153.7	317.4	0.8604	1.4925	-30
-29	238.38	0.0007	0.0654	1445.5	15.298	164.8	153.1	317.9	0.8652	1.4921	-29
-28	248.23	0.0007	0.0629	1441.7	15.904	166.0	152.4	318.4	0.8700	1.4918	-28
-27	258.38	0.0007	0.0605	1437.8	16.530	167.2	151.8	319.0	0.8748	1.4914	-27
-26	268.85	0.0007	0.0582	1433.8	17.175	168.4	151.1	319.5	0.8795	1.4910	-26
-25	279.64	0.0007	0.0561	1429.9	17.839	169.6	150.5	320.0	0.8843	1.4907	-25
-24	290.76	0.0007	0.0540	1425.9	18.524	170.7	149.8	320.6	0.8890	1.4904	-24
-23	302.22	0.0007	0.0520	1421.9	19.229	171.9	149.2	321.1	0.8937	1.4900	-23
-22	314.01	0.0007	0.0501	1417.9	19.956	173.1	148.5	321.6	0.8984	1.4897	-22
-21	326.16	0.0007	0.0483	1413.8	20.704	174.3	147.8	322.1	0.9031	1.4894	-21
-20	338.65	0.0007	0.0466	1409.8	21.475	175.5	147.2	322.7	0.9078	1.4891	-20
-19	351.51	0.0007	0.0449	1405.7	22.268	176.7	146.5	323.2	0.9125	1.4888	-19
-18	364.74	0.0007	0.0433	1401.5	23.085	177.9	145.8	323.7	0.9172	1.4886	-18
-17	378.34	0.0007	0.0418	1397.4	23.925	179.1	145.1	324.2	0.9218	1.4883	-17
-16	392.32	0.0007	0.0403	1393.2	24.790	180.3	144.4	324.7	0.9265	1.4880	-16
-15	406.69	0.0007	0.0389	1389.0	25.680	181.5	143.7	325.2	0.9311	1.4878	-15
-14	421.45	0.0007	0.0376	1384.7	26.595	182.7	143.0	325.7	0.9358	1.4876	-14
-13	436.61	0.0007	0.0363	1380.4	27.536	183.9	142.3	326.2	0.9404	1.4873	-13
-12	452.18	0.0007	0.0351	1376.1	28.504	185.2	141.6	326.7	0.9450	1.4871	-12
-11	468.17	0.0007	0.0339	1371.8	29.500	186.4	140.8	327.2	0.9497	1.4869	-11
-10	484.58	0.0007	0.0328	1367.4	30.523	187.6	140.1	327.7	0.9543	1.4867	-10
-9	501.41	0.0007	0.0317	1363.1	31.575	188.8	139.4	328.2	0.9589	1.4864	-9
-8	518.69	0.0007	0.0306	1358.6	32.657	190.1	138.6	328.7	0.9635	1.4862	-8
-7	536.40	0.0007	0.0296	1354.2	33.768	191.3	137.9	329.1	0.9681	1.4860	-7
-6	554.57	0.0007	0.0286	1349.7	34.911	192.5	137.1	329.6	0.9726	1.4858	-6
-5	573.19	0.0007	0.0277	1345.2	36.085	193.8	136.3	330.1	0.9772	1.4857	-5
-4	592.27	0.0007	0.0268	1340.6	37.291	195.0	135.6	330.6	0.9818	1.4855	-4
-3	611.83	0.0007	0.0260	1336.0	38.530	196.2	134.8	331.0	0.9863	1.4853	-3
-2	631.87	0.0008	0.0251	1331.4	39.803	197.5	134.0	331.5	0.9909	1.4851	-2
-1	652.39	0.0008	0.0243	1326.7	41.111	198.7	133.2	332.0	0.9955	1.4849	-1
0	673.40	0.0008	0.0236	1322.0	42.455	200.0	132.4	332.4	1.0000	1.4848	0
1	694.92	0.0008	0.0228	1317.3	43.835	201.3	131.6	332.9	1.0045	1.4846	1
2	716.94	0.0008	0.0221	1312.5	45.253	202.5	130.8	333.3	1.0091	1.4844	2
3	739.48	0.0008	0.0214	1307.7	46.709	203.8	130.0	333.8	1.0136	1.4843	3
4	762.54	0.0008	0.0207	1302.8	48.205	205.1	129.1	334.2	1.0181	1.4841	4
5	786.13	0.0008	0.0201	1297.9	49.741	206.3	128.3	334.6	1.0227	1.4839	5
6	810.26	0.0008	0.0195	1293.0	51.319	207.6	127.5	335.1	1.0272	1.4838	6
7	834.93	0.0008	0.0189	1288.0	52.940	208.9	126.6	335.5	1.0317	1.4836	7
8	860.16	0.0008	0.0183	1283.0	54.605	210.2	125.7	335.9	1.0362	1.4835	8
9	885.95	0.0008	0.0178	1277.9	56.315	211.5	124.9	336.3	1.0408	1.4833	9
10	912.30	0.0008	0.0172	1272.8	58.071	212.8	124.0	336.8	1.0453	1.4832	10
11	939.24	0.0008	0.0167	1267.7	59.875	214.1	123.1	337.2	1.0498	1.4830	11
12	966.76	0.0008	0.0162	1262.5	61.729	215.4	122.2	337.6	1.0543	1.4828	12
13	994.87	0.0008	0.0157	1257.2	63.633	216.7	121.3	338.0	1.0588	1.4827	13
14	1023.58	0.0008	0.0152	1251.9	65.590	218.0	120.4	338.4	1.0633	1.4825	14
15	1052.90	0.0008	0.0148	1246.5	67.601	219.3	119.4	338.8	1.0678	1.4824	15
16	1082.84	0.0008	0.0144	1241.1	69.667	220.7	118.5	339.2	1.0724	1.4822	16
17	1113.40	0.0008	0.0139	1235.7	71.791	222.0	117.5	339.5	1.0769	1.4820	17
18	1144.60	0.0008	0.0135	1230.1	73.974	223.3	116.6	339.9	1.0814	1.4818	18
19	1176.44	0.0008	0.0131	1224.5	76.219	224.7	115.6	340.3	1.0859	1.4817	19

TABLE 1 (continued)
HFC-125 Saturation Properties—Temperature Table

TEMP. °C	PRESSURE kPa (abs)	VOLUME m ³ /kg		DENSITY kg/m ³		ENTHALPY kJ/kg			ENTROPY kJ/(kg)(K)		TEMP. °C
		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	
20	1208.93	0.0008	0.0127	1218.9	78.527	226.0	114.6	340.7	1.0905	1.4815	20
21	1242.08	0.0008	0.0124	1213.2	80.901	227.4	113.6	341.0	1.0950	1.4813	21
22	1275.90	0.0008	0.0120	1207.4	83.343	228.8	112.6	341.4	1.0995	1.4811	22
23	1310.39	0.0008	0.0116	1201.6	85.855	230.1	111.6	341.7	1.1041	1.4809	23
24	1345.58	0.0008	0.0113	1195.7	88.441	231.5	110.5	342.1	1.1086	1.4807	24
25	1381.46	0.0008	0.0110	1189.7	91.103	232.9	109.5	342.4	1.1132	1.4804	25
26	1418.04	0.0008	0.0107	1183.6	93.844	234.3	108.4	342.7	1.1178	1.4802	26
27	1455.35	0.0008	0.0103	1177.5	96.667	235.7	107.3	343.0	1.1224	1.4800	27
28	1493.37	0.0009	0.0100	1171.2	99.576	237.1	106.2	343.4	1.1269	1.4797	28
29	1532.13	0.0009	0.0097	1164.9	102.575	238.5	105.1	343.7	1.1315	1.4794	29
30	1571.64	0.0009	0.0095	1158.5	105.667	240.0	104.0	343.9	1.1362	1.4792	30
31	1611.90	0.0009	0.0092	1152.0	108.857	241.4	102.8	344.2	1.1408	1.4789	31
32	1652.93	0.0009	0.0089	1145.4	112.149	242.9	101.7	344.5	1.1454	1.4786	32
33	1694.74	0.0009	0.0087	1138.7	115.548	244.3	100.5	344.8	1.1501	1.4782	33
34	1737.33	0.0009	0.0084	1131.9	119.060	245.8	99.2	345.0	1.1547	1.4779	34
35	1780.72	0.0009	0.0082	1125.0	122.691	247.3	98.0	345.3	1.1594	1.4775	35
36	1824.93	0.0009	0.0079	1118.0	126.446	248.8	96.7	345.5	1.1642	1.4771	36
37	1869.96	0.0009	0.0077	1110.8	130.332	250.3	95.5	345.7	1.1689	1.4767	37
38	1915.82	0.0009	0.0074	1103.5	134.357	251.8	94.1	345.9	1.1736	1.4762	38
39	1962.54	0.0009	0.0072	1096.0	138.530	253.3	92.8	346.1	1.1784	1.4757	39
40	2010.12	0.0009	0.0070	1088.5	142.858	254.9	91.4	346.3	1.1832	1.4752	40
41	2058.57	0.0009	0.0068	1080.7	147.353	256.4	90.0	346.5	1.1881	1.4747	41
42	2107.91	0.0009	0.0066	1072.8	152.024	258.0	88.6	346.6	1.1929	1.4741	42
43	2158.16	0.0009	0.0064	1064.7	156.884	259.6	87.1	346.7	1.1979	1.4734	43
44	2209.32	0.0009	0.0062	1056.4	161.947	261.2	85.6	346.8	1.2028	1.4727	44
45	2261.42	0.0010	0.0060	1047.8	167.227	262.8	84.1	346.9	1.2078	1.4720	45
46	2314.48	0.0010	0.0058	1039.1	172.741	264.5	82.5	347.0	1.2128	1.4712	46
47	2368.50	0.0010	0.0056	1030.1	178.509	266.2	80.8	347.0	1.2179	1.4704	47
48	2423.51	0.0010	0.0054	1020.9	184.552	267.9	79.1	347.0	1.2230	1.4694	48
49	2479.53	0.0010	0.0052	1011.3	190.895	269.6	77.4	347.0	1.2282	1.4684	49
50	2536.57	0.0010	0.0051	1001.5	197.566	271.4	75.6	346.9	1.2335	1.4673	50
51	2594.65	0.0010	0.0049	991.3	204.600	273.1	73.7	346.8	1.2388	1.4661	51
52	2653.81	0.0010	0.0047	980.7	212.034	274.9	71.7	346.7	1.2442	1.4649	52
53	2714.05	0.0010	0.0045	969.6	219.914	276.8	69.7	346.5	1.2497	1.4634	53
54	2775.41	0.0010	0.0044	958.1	228.296	278.7	67.6	346.3	1.2553	1.4619	54
55	2837.91	0.0011	0.0042	946.0	237.248	280.6	65.4	346.0	1.2610	1.4602	55
56	2901.57	0.0011	0.0041	933.3	246.851	282.6	63.0	345.6	1.2668	1.4583	56
57	2966.43	0.0011	0.0039	919.8	257.211	284.7	60.5	345.2	1.2728	1.4562	57
58	3032.52	0.0011	0.0037	905.4	268.463	286.8	57.9	344.7	1.2790	1.4538	58
59	3099.88	0.0011	0.0036	890.0	280.789	289.0	55.1	344.0	1.2854	1.4512	59
60	3168.54	0.0011	0.0034	873.2	294.438	291.3	52.0	343.3	1.2921	1.4481	60
61	3238.54	0.0012	0.0032	854.7	309.777	293.7	48.6	342.3	1.2991	1.4446	61
62	3309.94	0.0012	0.0031	833.9	327.372	296.3	44.8	341.1	1.3066	1.4404	62
63	3382.80	0.0012	0.0029	809.8	348.196	299.1	40.5	339.6	1.3148	1.4353	63
64	3457.19	0.0013	0.0027	780.3	374.172	302.3	35.3	337.6	1.3241	1.4287	64
65	3533.25	0.0014	0.0024	740.3	410.255	306.3	28.3	334.6	1.3356	1.4192	65
66	3611.20	0.0015	0.0021	662.4	483.083	313.1	15.0	328.2	1.3553	1.3996	66

TABLE 2
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 10.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 20.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-86.00	0.0006	101.8	0.5728	1.0429	1.3003	740.5		0.0006	112.0	0.6258	1.0593	1.4028	783.2	-76.32
-86.00	1.2880	285.0	1.5514	0.5976	1.1333	120.4		0.6738	290.7	1.5335	0.6165	1.1316	122.7	-76.32
-85	1.2950	285.6	1.5546	0.5997	1.1328	120.7		—	—	—	—	—	—	-85
-80	1.3299	288.6	1.5705	0.6100	1.1305	122.2		—	—	—	—	—	—	-80
-75	1.3648	291.7	1.5862	0.6202	1.1282	123.7		0.6784	291.5	1.5376	0.6193	1.1310	123.1	-75
-70	1.3998	294.8	1.6018	0.6302	1.1260	125.2		0.6960	294.6	1.5532	0.6297	1.1286	124.7	-70
-65	1.4347	298.0	1.6172	0.6400	1.1238	126.7		0.7137	297.8	1.5686	0.6399	1.1264	126.1	-65
-60	1.4696	301.2	1.6325	0.6496	1.1218	128.1		0.7313	301.0	1.5839	0.6499	1.1242	127.6	-60
-55	1.5046	304.5	1.6477	0.6591	1.1198	129.5		0.7489	304.3	1.5991	0.6597	1.1220	129.1	-55
-50	1.5395	307.8	1.6628	0.6686	1.1178	130.9		0.7666	307.6	1.6141	0.6693	1.1200	130.5	-50
-45	1.5745	311.2	1.6777	0.6779	1.1160	132.3		0.7842	311.0	1.6291	0.6787	1.1180	131.9	-45
-40	1.6094	314.6	1.6925	0.6871	1.1142	133.7		0.8018	314.4	1.6439	0.6880	1.1160	133.3	-40
-35	1.6443	318.0	1.7072	0.6962	1.1124	135.0		0.8194	317.9	1.6586	0.6972	1.1142	134.7	-35
-30	1.6793	321.5	1.7217	0.7052	1.1107	136.4		0.8370	321.4	1.6732	0.7063	1.1124	136.0	-30
-25	1.7141	325.1	1.7362	0.7141	1.1091	137.7		0.8546	324.9	1.6876	0.7153	1.1106	137.4	-25
-20	1.7489	328.7	1.7505	0.7229	1.1076	139.0		0.8721	328.5	1.7020	0.7241	1.1090	138.7	-20
-15	1.7837	332.3	1.7647	0.7317	1.1061	140.3		0.8897	332.2	1.7163	0.7329	1.1074	140.0	-15
-10	1.8188	336.0	1.7788	0.7403	1.1046	141.6		0.9071	335.8	1.7304	0.7416	1.1058	141.3	-10
-5	1.8535	339.7	1.7928	0.7489	1.1032	142.8		0.9247	339.6	1.7444	0.7502	1.1043	142.6	-5
0	1.8883	343.5	1.8068	0.7575	1.1019	144.1		0.9421	343.3	1.7584	0.7587	1.1029	143.9	0
5	1.9231	347.3	1.8206	0.7659	1.1006	145.3		0.9598	347.2	1.7722	0.7671	1.1015	145.1	5
10	1.9580	351.1	1.8343	0.7743	1.0993	146.6		0.9772	351.0	1.7859	0.7754	1.1002	146.4	10
15	1.9927	355.0	1.8479	0.7825	1.0981	147.8		0.9947	354.9	1.7996	0.7837	1.0989	147.6	15
20	2.0275	359.0	1.8615	0.7908	1.0969	149.0		1.0122	358.9	1.8131	0.7919	1.0976	148.8	20
25	2.0623	362.9	1.8749	0.7989	1.0958	150.2		1.0297	362.8	1.8266	0.8000	1.0965	150.0	25
30	2.0971	367.0	1.8882	0.8070	1.0947	151.4		1.0470	366.9	1.8400	0.8080	1.0953	151.2	30
35	2.1318	371.0	1.9015	0.8150	1.0936	152.6		1.0646	370.9	1.8533	0.8160	1.0942	152.4	35
40	2.1665	375.1	1.9147	0.8229	1.0926	153.8		1.0820	375.0	1.8665	0.8239	1.0931	153.6	40
45	2.2013	379.2	1.9278	0.8307	1.0916	154.9		1.0993	379.2	1.8796	0.8317	1.0921	154.8	45
50	2.2361	383.4	1.9408	0.8385	1.0906	156.1		1.1169	383.3	1.8926	0.8394	1.0910	155.9	50
55	2.2706	387.6	1.9537	0.8462	1.0897	157.2		1.1341	387.5	1.9055	0.8471	1.0901	157.1	55
60	2.3058	391.9	1.9666	0.8538	1.0888	158.4		1.1516	391.8	1.9184	0.8547	1.0891	158.2	60
65	2.3400	396.2	1.9794	0.8614	1.0879	159.5		1.1690	396.1	1.9312	0.8622	1.0882	159.3	65
70	—	—	—	—	—	—		1.1864	400.4	1.9439	0.8696	1.0873	160.5	70
75	—	—	—	—	—	—		1.2039	404.8	1.9566	0.8770	1.0865	161.6	75

TEMP °C	PRESSURE = 30.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 40.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-70.08	0.0006	118.7	0.6591	1.0733	1.4582	792.8		0.0006	123.8	0.6838	1.0846	1.4946	792.3	-65.36
-70.08	0.4612	294.4	1.5242	0.6291	1.1315	124.1		0.3525	297.1	1.5182	0.6392	1.1320	125.0	-65.36
-70	0.4614	294.4	1.5245	0.6293	1.1314	124.1		—	—	—	—	—	—	-70
-65	0.4733	297.6	1.5399	0.6399	1.1290	125.6		0.3531	297.4	1.5193	0.6399	1.1318	125.1	-65
-60	0.4852	300.8	1.5552	0.6502	1.1267	127.1		0.3621	300.6	1.5346	0.6505	1.1293	126.6	-60
-55	0.4970	304.1	1.5704	0.6602	1.1244	128.6		0.3711	303.9	1.5498	0.6608	1.1268	128.1	-55
-50	0.5089	307.4	1.5855	0.6700	1.1222	130.1		0.3800	307.2	1.5649	0.6708	1.1245	129.6	-50
-45	0.5207	310.8	1.6004	0.6796	1.1200	131.5		0.3890	310.6	1.5799	0.6806	1.1222	131.1	-45
-40	0.5326	314.2	1.6152	0.6891	1.1180	132.9		0.3979	314.0	1.5947	0.6901	1.1200	132.5	-40
-35	0.5444	317.7	1.6300	0.6983	1.1160	134.3		0.4069	317.5	1.6095	0.6995	1.1178	134.0	-35
-30	0.5562	321.2	1.6446	0.7075	1.1141	135.7		0.4158	321.0	1.6241	0.7087	1.1158	135.4	-30
-25	0.5680	324.7	1.6591	0.7165	1.1122	137.1		0.4247	324.6	1.6386	0.7177	1.1138	136.7	-25
-20	0.5797	328.4	1.6734	0.7254	1.1104	138.4		0.4336	328.2	1.6530	0.7266	1.1119	138.1	-20
-15	0.5916	332.0	1.6877	0.7341	1.1087	139.7		0.4425	331.8	1.6673	0.7354	1.1101	139.5	-15
-10	0.6033	335.7	1.7019	0.7428	1.1071	141.0		0.4514	335.5	1.6815	0.7441	1.1083	140.8	-10
-5	0.6150	339.4	1.7159	0.7514	1.1055	142.3		0.4603	339.3	1.6956	0.7527	1.1066	142.1	-5
0	0.6269	343.2	1.7299	0.7599	1.1039	143.6		0.4691	343.1	1.7096	0.7611	1.1050	143.4	0
5	0.6385	347.0	1.7438	0.7683	1.1025	144.9		0.4780	346.9	1.7235	0.7695	1.1035	144.7	5
10	0.6503	350.9	1.7575	0.7766	1.1011	146.2		0.4868	350.8	1.7373	0.7778	1.1020	145.9	10
15	0.6620	354.8	1.7712	0.7849	1.0997	147.4		0.4956	354.7	1.7510	0.7860	1.1005	147.2	15
20	0.6737	358.7	1.7848	0.7930	1.0984	148.6		0.5044	358.6	1.7645	0.7941	1.0992	148.4	20
25	0.6854	362.7	1.7982	0.8011	1.0971	149.9		0.5133	362.6	1.7780	0.8022	1.0978	149.7	25
30	0.6971	366.7	1.8116	0.8091	1.0959	151.1		0.5221	366.6	1.7915	0.8102	1.0966	150.9	30
35	0.7087	370.8	1.8249	0.8170	1.0948	152.3		0.5308	370.7	1.8048	0.8181	1.0953	152.1	35
40	0.7203	374.9	1.8381	0.8249	1.0936	153.4		0.5395	374.8	1.8180	0.8259	1.0942	153.3	40
45	0.7320	379.1	1.8513	0.8326	1.0925	154.6		0.5483	379.0	1.8311	0.8336	1.0930	154.5	45
50	0.7437	383.2	1.8643	0.8403	1.0915	155.8		0.5572	383.2	1.8442	0.8413	1.0919	155.6	50
55	0.7553	387.5	1.8773	0.8480	1.0905	156.9		0.5659	387.4	1.8572	0.8489	1.0909	156.8	55
60	0.7669	391.7	1.8902	0.8555	1.0895	158.1		0.5746	391.6	1.8701	0.8564	1.0898	157.9	60
65	0.7785	396.0	1.9030	0.8630	1.0885	159.2		0.5833	395.9	1.8829	0.8638	1.0889	159.1	65
70	0.7901	400.4	1.9157	0.8704	1.0876	160.3		0.5920	400.3	1.8956	0.8712	1.0879	160.2	70
75	0.8018	404.7	1.9283	0.8778	1.0867	161.5		0.6008	404.7	1.9083	0.8785	1.0870	161.3	75
80	0.8134	409.1	1.9409	0.8850	1.0859	162.6		0.6095	409.1	1.9208	0.8858	1.0861	162.5	80
85	—	—	—	—	—	—		0.6183	413.5	1.9334	0.8929	1.0853	163.6	85

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 50.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 60.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-61.51	0.0006	128.0	0.7038	1.0939	1.5208	787.6		0.0006	131.6	0.7206	1.1018	1.5409	781.0	-58.24
-61.51	0.2860	299.4	1.5139	0.6477	1.1328	125.7		0.2411	301.3	1.5106	0.6552	1.1338	126.2	-58.24
-60	0.2882	300.4	1.5185	0.6509	1.1320	126.1		—	—	—	—	—	—	-60
-55	0.2955	303.7	1.5337	0.6614	1.1294	127.7		0.2451	303.5	1.5205	0.6621	1.1320	127.2	-55
-50	0.3027	307.0	1.5488	0.6716	1.1268	129.2		0.2512	306.8	1.5356	0.6725	1.1293	128.8	-50
-45	0.3099	310.4	1.5638	0.6815	1.1244	130.7		0.2572	310.2	1.5506	0.6825	1.1266	130.3	-45
-40	0.3172	313.8	1.5787	0.6912	1.1220	132.2		0.2633	313.6	1.5655	0.6923	1.1241	131.8	-40
-35	0.3244	317.3	1.5935	0.7006	1.1197	133.6		0.2694	317.1	1.5803	0.7018	1.1216	133.2	-35
-30	0.3316	320.8	1.6081	0.7099	1.1175	135.0		0.2754	320.6	1.5950	0.7111	1.1193	134.7	-30
-25	0.3388	324.4	1.6227	0.7190	1.1154	136.4		0.2814	324.2	1.6095	0.7202	1.1171	136.1	-25
-20	0.3459	328.0	1.6371	0.7279	1.1134	137.8		0.2875	327.8	1.6240	0.7292	1.1149	137.5	-20
-15	0.3531	331.7	1.6514	0.7367	1.1114	139.2		0.2935	331.5	1.6383	0.7380	1.1129	138.9	-15
-10	0.3602	335.4	1.6656	0.7454	1.1096	140.5		0.2995	335.2	1.6526	0.7467	1.1109	140.3	-10
-5	0.3673	339.1	1.6797	0.7539	1.1078	141.8		0.3054	339.0	1.6667	0.7552	1.1090	141.6	-5
0	0.3745	342.9	1.6938	0.7624	1.1061	143.2		0.3114	342.8	1.6807	0.7637	1.1072	142.9	0
5	0.3816	346.8	1.7077	0.7707	1.1045	144.5		0.3174	346.6	1.6947	0.7720	1.1055	144.2	5
10	0.3888	350.6	1.7215	0.7790	1.1029	145.7		0.3233	350.5	1.7085	0.7802	1.1038	145.5	10
15	0.3958	354.5	1.7352	0.7872	1.1014	147.0		0.3292	354.4	1.7222	0.7884	1.1022	146.8	15
20	0.4029	358.5	1.7488	0.7953	1.0999	148.2		0.3352	358.4	1.7359	0.7964	1.1007	148.1	20
25	0.4100	362.5	1.7623	0.8033	1.0985	149.5		0.3411	362.4	1.7494	0.8044	1.0993	149.3	25
30	0.4170	366.5	1.7757	0.8112	1.0972	150.7		0.3470	366.4	1.7628	0.8123	1.0979	150.5	30
35	0.4241	370.6	1.7891	0.8191	1.0959	151.9		0.3529	370.5	1.7762	0.8201	1.0965	151.8	35
40	0.4312	374.7	1.8023	0.8269	1.0947	153.1		0.3588	374.6	1.7895	0.8279	1.0952	153.0	40
45	0.4381	378.9	1.8155	0.8346	1.0935	154.3		0.3647	378.8	1.8026	0.8356	1.0940	154.2	45
50	0.4452	383.1	1.8285	0.8422	1.0924	155.5		0.3705	383.0	1.8157	0.8432	1.0928	155.3	50
55	0.4522	387.3	1.8415	0.8498	1.0913	156.7		0.3764	387.2	1.8287	0.8507	1.0917	156.5	55
60	0.4592	391.6	1.8544	0.8573	1.0902	157.8		0.3823	391.5	1.8416	0.8581	1.0906	157.7	60
65	0.4662	395.9	1.8673	0.8647	1.0892	159.0		0.3881	395.8	1.8545	0.8655	1.0895	158.8	65
70	0.4732	400.2	1.8800	0.8720	1.0882	160.1		0.3940	400.1	1.8672	0.8728	1.0885	160.0	70
75	0.4802	404.6	1.8927	0.8793	1.0873	161.2		0.3998	404.5	1.8799	0.8801	1.0875	161.1	75
80	0.4872	409.0	1.9053	0.8865	1.0864	162.3		0.4056	408.9	1.8925	0.8872	1.0866	162.2	80
85	0.4942	413.5	1.9178	0.8936	1.0855	163.4		0.4115	413.4	1.9050	0.8943	1.0857	163.3	85
90	0.5012	417.9	1.9302	0.9007	1.0846	164.5		0.4173	417.9	1.9175	0.9013	1.0848	164.4	90
95	—	—	—	—	—	—		0.4232	422.4	1.9299	0.9083	1.0840	165.5	95

TEMP °C	PRESSURE = 70.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 80.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-55.38	0.0006	134.7	0.7352	1.1087	1.5569	773.4		0.0007	137.6	0.7482	1.1148	1.5699	765.5	-52.83
-55.38	0.2087	303.0	1.5080	0.6620	1.1349	126.6		0.1841	304.5	1.5058	0.6683	1.1361	127.0	-52.83
-55	0.2091	303.3	1.5091	0.6628	1.1347	126.7		—	—	—	—	—	—	-55
-50	0.2143	306.6	1.5243	0.6734	1.1318	128.3		0.1867	306.4	1.5144	0.6743	1.1343	127.9	-50
-45	0.2196	310.0	1.5393	0.6836	1.1289	129.9		0.1913	309.8	1.5294	0.6846	1.1313	129.4	-45
-40	0.2248	313.4	1.5542	0.6934	1.1262	131.4		0.1960	313.2	1.5444	0.6946	1.1284	131.0	-40
-35	0.2301	316.9	1.5691	0.7030	1.1236	132.9		0.2006	316.7	1.5592	0.7043	1.1257	132.5	-35
-30	0.2353	320.5	1.5838	0.7124	1.1211	134.3		0.2052	320.3	1.5740	0.7137	1.1230	134.0	-30
-25	0.2405	324.0	1.5983	0.7215	1.1187	135.8		0.2098	323.9	1.5886	0.7229	1.1205	135.5	-25
-20	0.2457	327.7	1.6128	0.7305	1.1165	137.2		0.2144	327.5	1.6031	0.7318	1.1180	136.9	-20
-15	0.2509	331.3	1.6272	0.7393	1.1143	138.6		0.2189	331.2	1.6175	0.7407	1.1157	138.3	-15
-10	0.2560	335.1	1.6415	0.7480	1.1122	140.0		0.2235	334.9	1.6318	0.7493	1.1135	139.7	-10
-5	0.2612	338.8	1.6556	0.7565	1.1102	141.3		0.2280	338.7	1.6460	0.7578	1.1114	141.1	-5
0	0.2664	342.6	1.6697	0.7649	1.1083	142.7		0.2325	342.5	1.6600	0.7662	1.1094	142.4	0
5	0.2715	346.5	1.6836	0.7732	1.1065	144.0		0.2371	346.3	1.6740	0.7745	1.1075	143.8	5
10	0.2766	350.4	1.6975	0.7815	1.1047	145.3		0.2416	350.2	1.6879	0.7827	1.1057	145.1	10
15	0.2817	354.3	1.7112	0.7896	1.1031	146.6		0.2461	354.2	1.7017	0.7908	1.1039	146.4	15
20	0.2868	358.3	1.7249	0.7976	1.1015	147.9		0.2505	358.1	1.7153	0.7988	1.1023	147.7	20
25	0.2919	362.3	1.7384	0.8056	1.1000	149.1		0.2550	362.2	1.7289	0.8067	1.1007	148.9	25
30	0.2970	366.3	1.7519	0.8134	1.0985	150.4		0.2595	366.2	1.7424	0.8145	1.0992	150.2	30
35	0.3021	370.4	1.7653	0.8212	1.0971	151.6		0.2640	370.3	1.7558	0.8223	1.0977	151.4	35
40	0.3072	374.5	1.7786	0.8289	1.0958	152.8		0.2684	374.4	1.7691	0.8299	1.0963	152.6	40
45	0.3122	378.7	1.7917	0.8365	1.0945	154.0		0.2729	378.6	1.7823	0.8375	1.0950	153.8	45
50	0.3173	382.9	1.8049	0.8441	1.0933	155.2		0.2773	382.8	1.7954	0.8450	1.0937	155.0	50
55	0.3223	387.1	1.8179	0.8516	1.0921	156.4		0.2817	387.0	1.8084	0.8525	1.0925	156.2	55
60	0.3273	391.4	1.8308	0.8590	1.0910	157.5		0.2861	391.3	1.8214	0.8599	1.0913	157.4	60
65	0.3324	395.7	1.8437	0.8663	1.0899	158.7		0.2905	395.6	1.8342	0.8672	1.0902	158.6	65
70	0.3374	400.1	1.8564	0.8736	1.0888	159.8		0.2949	400.0	1.8470	0.8744	1.0891	159.7	70
75	0.3424	404.5	1.8691	0.8808	1.0878	161.0		0.2993	404.4	1.8597	0.8816	1.0881	160.8	75
80	0.3474	408.9	1.8817	0.8880	1.0868	162.1		0.3037	408.8	1.8724	0.8887	1.0871	162.0	80
85	0.3524	413.3	1.8943	0.8950	1.0859	163.2		0.3081	413.3	1.8849	0.8957	1.0861	163.1	85
90	0.3574	417.8	1.9067	0.9020	1.0850	164.3		0.3125	417.8	1.8974	0.9027	1.0852	164.2	90
95	0.3624	422.4	1.9191	0.9089	1.0841	165.4		0.3169	422.3	1.9098	0.9096	1.0843	165.3	95
100	—	—	—	—	—	—		0.3212	426.9	1.9221	0.9164	1.0835	166.4	100

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 90.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 100.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-50.52	0.0007	140.1	0.7598	1.1203	1.5808	757.4		0.0007	142.5	0.7704	1.1253	1.5901	749.3	-48.41
-50.52	0.1648	305.8	1.5040	0.6742	1.1373	127.2		0.1492	307.0	1.5024	0.6798	1.1387	127.5	-48.41
-50	0.1652	306.2	1.5056	0.6753	1.1370	127.4		—	—	—	—	—	—	-50
-45	0.1694	309.6	1.5207	0.6858	1.1338	129.0		0.1518	309.4	1.5127	0.6869	1.1363	128.6	-45
-40	0.1735	313.0	1.5356	0.6958	1.1307	130.6		0.1555	312.8	1.5277	0.6971	1.1330	130.2	-40
-35	0.1777	316.5	1.5505	0.7056	1.1278	132.1		0.1593	316.3	1.5426	0.7069	1.1299	131.8	-35
-30	0.1818	320.1	1.5653	0.7150	1.1249	133.6		0.1631	319.9	1.5574	0.7164	1.1269	133.3	-30
-25	0.1859	323.7	1.5799	0.7242	1.1222	135.1		0.1668	323.5	1.5721	0.7256	1.1240	134.8	-25
-20	0.1900	327.3	1.5944	0.7332	1.1197	136.6		0.1705	327.2	1.5867	0.7346	1.1213	136.3	-20
-15	0.1941	331.0	1.6089	0.7420	1.1172	138.0		0.1742	330.9	1.6011	0.7434	1.1187	137.7	-15
-10	0.1982	334.8	1.6232	0.7507	1.1149	139.4		0.1779	334.6	1.6155	0.7520	1.1163	139.2	-10
-5	0.2022	338.5	1.6374	0.7592	1.1127	140.8		0.1816	338.4	1.6297	0.7605	1.1139	140.6	-5
0	0.2063	342.3	1.6515	0.7675	1.1106	142.2		0.1852	342.2	1.6438	0.7689	1.1117	142.0	0
5	0.2103	346.2	1.6655	0.7758	1.1086	143.5		0.1889	346.1	1.6578	0.7771	1.1096	143.3	5
10	0.2143	350.1	1.6794	0.7840	1.1066	144.9		0.1925	350.0	1.6717	0.7852	1.1076	144.7	10
15	0.2183	354.0	1.6932	0.7920	1.1048	146.2		0.1962	353.9	1.6856	0.7932	1.1057	146.0	15
20	0.2224	358.0	1.7069	0.8000	1.1031	147.5		0.1998	357.9	1.6993	0.8011	1.1039	147.3	20
25	0.2264	362.0	1.7205	0.8078	1.1014	148.8		0.2034	361.9	1.7129	0.8090	1.1022	148.6	25
30	0.2303	366.1	1.7340	0.8156	1.0998	150.0		0.2070	366.0	1.7264	0.8167	1.1005	149.8	30
35	0.2343	370.2	1.7474	0.8233	1.0983	151.3		0.2106	370.1	1.7398	0.8244	1.0989	151.1	35
40	0.2382	374.3	1.7607	0.8310	1.0969	152.5		0.2142	374.2	1.7532	0.8320	1.0974	152.3	40
45	0.2422	378.5	1.7739	0.8385	1.0955	153.7		0.2177	378.4	1.7664	0.8395	1.0960	153.5	45
50	0.2462	382.7	1.7870	0.8460	1.0942	154.9		0.2213	382.6	1.7796	0.8470	1.0947	154.7	50
55	0.2501	387.0	1.8001	0.8534	1.0929	156.1		0.2249	386.9	1.7926	0.8543	1.0933	155.9	55
60	0.2541	391.3	1.8131	0.8608	1.0917	157.3		0.2284	391.2	1.8056	0.8616	1.0921	157.1	60
65	0.2580	395.6	1.8259	0.8680	1.0906	158.4		0.2319	395.5	1.8185	0.8689	1.0909	158.3	65
70	0.2619	399.9	1.8387	0.8752	1.0894	159.6		0.2355	399.9	1.8313	0.8761	1.0897	159.4	70
75	0.2658	404.3	1.8514	0.8824	1.0884	160.7		0.2391	404.3	1.8440	0.8832	1.0886	160.6	75
80	0.2697	408.8	1.8641	0.8894	1.0873	161.8		0.2425	408.7	1.8567	0.8902	1.0876	161.7	80
85	0.2737	413.2	1.8766	0.8964	1.0864	163.0		0.2461	413.2	1.8692	0.8972	1.0866	162.8	85
90	0.2776	417.7	1.8891	0.9034	1.0854	164.1		0.2496	417.7	1.8817	0.9041	1.0856	164.0	90
95	0.2814	422.3	1.9015	0.9102	1.0845	165.2		0.2531	422.2	1.8941	0.9109	1.0847	165.1	95
100	0.2853	426.8	1.9138	0.9170	1.0836	166.3		0.2566	426.8	1.9064	0.9177	1.0838	166.2	100
105	—	—	—	—	—	—		0.2601	431.4	1.9187	0.9244	1.0829	167.2	105

TEMP °C	PRESSURE = 101.325 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 110.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-48.14	0.0007	142.8	0.7717	1.1260	1.5912	748.2		0.0007	144.7	0.7801	1.1299	1.5981	741.2	-46.45
-48.14	0.1474	307.2	1.5023	0.6805	1.1388	127.5		0.1364	308.2	1.5011	0.6851	1.1400	127.7	-46.45
-45	0.1497	309.3	1.5117	0.6871	1.1367	128.5		0.1374	309.2	1.5055	0.6881	1.1389	128.2	-45
-40	0.1534	312.8	1.5267	0.6973	1.1333	130.1		0.1408	312.6	1.5205	0.6984	1.1354	129.8	-40
-35	0.1572	316.3	1.5416	0.7071	1.1302	131.7		0.1443	316.1	1.5354	0.7083	1.1321	131.4	-35
-30	0.1608	319.9	1.5564	0.7166	1.1272	133.3		0.1477	319.7	1.5503	0.7178	1.1289	132.9	-30
-25	0.1645	323.5	1.5711	0.7258	1.1243	134.8		0.1511	323.3	1.5650	0.7270	1.1259	134.5	-25
-20	0.1682	327.1	1.5857	0.7348	1.1215	136.2		0.1545	327.0	1.5796	0.7360	1.1230	136.0	-20
-15	0.1719	330.8	1.6001	0.7436	1.1189	137.7		0.1579	330.7	1.5940	0.7448	1.1203	137.5	-15
-10	0.1755	334.6	1.6145	0.7522	1.1165	139.1		0.1613	334.4	1.6084	0.7534	1.1177	138.9	-10
-5	0.1791	338.4	1.6287	0.7607	1.1141	140.5		0.1647	338.2	1.6227	0.7619	1.1152	140.3	-5
0	0.1828	342.2	1.6429	0.7691	1.1119	141.9		0.1680	342.1	1.6368	0.7702	1.1129	141.7	0
5	0.1864	346.0	1.6569	0.7773	1.1098	143.3		0.1714	345.9	1.6509	0.7784	1.1107	143.1	5
10	0.1900	349.9	1.6708	0.7854	1.1077	144.6		0.1747	349.8	1.6648	0.7865	1.1086	144.4	10
15	0.1935	353.9	1.6846	0.7934	1.1058	146.0		0.1780	353.8	1.6786	0.7945	1.1066	145.8	15
20	0.1971	357.9	1.6983	0.8013	1.1040	147.3		0.1813	357.8	1.6924	0.8023	1.1047	147.1	20
25	0.2007	361.9	1.7119	0.8091	1.1023	148.5		0.1846	361.8	1.7060	0.8101	1.1029	148.4	25
30	0.2042	366.0	1.7255	0.8169	1.1006	149.8		0.1879	365.9	1.7195	0.8179	1.1012	149.7	30
35	0.2078	370.1	1.7389	0.8245	1.0990	151.1		0.1912	370.0	1.7330	0.8255	1.0996	150.9	35
40	0.2113	374.2	1.7522	0.8321	1.0975	152.3		0.1944	374.1	1.7463	0.8330	1.0980	152.2	40
45	0.2149	378.4	1.7655	0.8396	1.0961	153.5		0.1977	378.3	1.7596	0.8405	1.0965	153.4	45
50	0.2184	382.6	1.7786	0.8471	1.0947	154.7		0.2009	382.5	1.7728	0.8479	1.0951	154.6	50
55	0.2219	386.9	1.7917	0.8545	1.0934	155.9		0.2042	386.8	1.7858	0.8553	1.0938	155.8	55
60	0.2254	391.2	1.8047	0.8618	1.0921	157.1		0.2074	391.1	1.7988	0.8625	1.0925	157.0	60
65	0.2289	395.5	1.8176	0.8690	1.0909	158.3		0.2107	395.4	1.8117	0.8697	1.0912	158.2	65
70	0.2324	399.9	1.8304	0.8762	1.0898	159.4		0.2139	399.8	1.8245	0.8769	1.0901	159.3	70
75	0.2358	404.2	1.8431	0.8833	1.0887	160.6		0.2171	404.2	1.8373	0.8839	1.0889	160.5	75
80	0.2393	408.7	1.8557	0.8903	1.0876	161.7		0.2203	408.6	1.8499	0.8909	1.0878	161.6	80
85	0.2428	413.2	1.8683	0.8973	1.0866	162.8		0.2235	413.1	1.8625	0.8979	1.0868	162.7	85
90	0.2463	417.7	1.8808	0.9042	1.0856	163.9		0.2267	417.6	1.8750	0.9047	1.0858	163.8	90
95	0.2498	422.2	1.8932	0.9110	1.0847	165.0		0.2299	422.1	1.8874	0.9115	1.0848	164.9	95
100	0.2532	426.8	1.9055	0.9177	1.0838	166.1		0.2331	426.7	1.8998	0.9183	1.0839	166.0	100
105	0.2567	431.4	1.9178	0.9244	1.0829	167.2		0.2363	431.3	1.9120	0.9250	1.0830	167.1	105

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 120.00 kPa (abs)							PRESSURE = 130.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-44.63	0.0007	146.8	0.7892	1.1342	1.6050	733.4	SAT LIQ	0.0007	148.7	0.7976	1.1382	1.6111	725.6	-42.93
-44.63	0.1256	309.2	1.4999	0.6902	1.1414	127.8	SAT VAP	0.1165	310.2	1.4989	0.6951	1.1427	128.0	-42.93
-40	0.1286	312.4	1.5139	0.6997	1.1379	129.4		0.1182	312.2	1.5077	0.7011	1.1404	129.0	-40
-35	0.1318	316.0	1.5288	0.7097	1.1343	131.0		0.1212	315.8	1.5227	0.7111	1.1366	130.6	-35
-30	0.1349	319.5	1.5437	0.7192	1.1310	132.6		0.1241	319.3	1.5376	0.7207	1.1331	132.2	-30
-25	0.1381	323.1	1.5584	0.7285	1.1277	134.1		0.1271	323.0	1.5523	0.7299	1.1297	133.8	-25
-20	0.1413	326.8	1.5730	0.7375	1.1247	135.7		0.1300	326.6	1.5670	0.7389	1.1265	135.4	-20
-15	0.1444	330.5	1.5875	0.7463	1.1218	137.2		0.1329	330.3	1.5815	0.7477	1.1234	136.9	-15
-10	0.1475	334.3	1.6019	0.7549	1.1191	138.6		0.1358	334.1	1.5959	0.7563	1.1206	138.4	-10
-5	0.1506	338.1	1.6162	0.7633	1.1165	140.1		0.1387	337.9	1.6103	0.7647	1.1179	139.8	-5
0	0.1537	341.9	1.6304	0.7716	1.1141	141.5		0.1416	341.8	1.6245	0.7730	1.1153	141.2	0
5	0.1568	345.8	1.6445	0.7797	1.1118	142.9		0.1444	345.6	1.6386	0.7811	1.1129	142.6	5
10	0.1598	349.7	1.6584	0.7878	1.1096	144.2		0.1473	349.6	1.6525	0.7891	1.1106	144.0	10
15	0.1629	353.7	1.6723	0.7957	1.1075	145.6		0.1501	353.5	1.6664	0.7970	1.1084	145.4	15
20	0.1659	357.7	1.6860	0.8036	1.1055	146.9		0.1529	357.5	1.6802	0.8048	1.1064	146.7	20
25	0.1690	361.7	1.6997	0.8113	1.1037	148.2		0.1557	361.6	1.6939	0.8125	1.1044	148.0	25
30	0.1720	365.8	1.7133	0.8190	1.1019	149.5		0.1585	365.7	1.7075	0.8201	1.1026	149.3	30
35	0.1750	369.9	1.7267	0.8266	1.1002	150.7		0.1613	369.8	1.7209	0.8277	1.1008	150.6	35
40	0.1780	374.0	1.7401	0.8341	1.0986	152.0		0.1641	373.9	1.7343	0.8351	1.0992	151.8	40
45	0.1810	378.2	1.7534	0.8415	1.0970	153.2		0.1669	378.1	1.7476	0.8425	1.0976	153.1	45
50	0.1840	382.5	1.7665	0.8489	1.0956	154.4		0.1696	382.4	1.7608	0.8499	1.0961	154.3	50
55	0.1870	386.7	1.7796	0.8562	1.0942	155.7		0.1724	386.6	1.7739	0.8571	1.0946	155.5	55
60	0.1900	391.0	1.7926	0.8634	1.0929	156.8		0.1752	390.9	1.7869	0.8643	1.0932	156.7	60
65	0.1929	395.3	1.8055	0.8706	1.0916	158.0		0.1779	395.3	1.7998	0.8714	1.0919	157.9	65
70	0.1959	399.7	1.8184	0.8777	1.0904	159.2		0.1806	399.6	1.8127	0.8785	1.0907	159.1	70
75	0.1988	404.1	1.8311	0.8847	1.0892	160.3		0.1834	404.1	1.8254	0.8855	1.0895	160.2	75
80	0.2018	408.6	1.8438	0.8917	1.0881	161.5		0.1861	408.5	1.8381	0.8924	1.0883	161.4	80
85	0.2047	413.0	1.8564	0.8986	1.0870	162.6		0.1888	413.0	1.8507	0.8993	1.0872	162.5	85
90	0.2076	417.6	1.8689	0.9054	1.0860	163.7		0.1915	417.5	1.8632	0.9061	1.0862	163.6	90
95	0.2106	422.1	1.8813	0.9122	1.0850	164.8		0.1942	422.0	1.8757	0.9129	1.0852	164.7	95
100	0.2135	426.7	1.8937	0.9189	1.0841	165.9		0.1969	426.6	1.8880	0.9195	1.0842	165.8	100
105	0.2165	431.3	1.9059	0.9255	1.0832	167.0		0.1996	431.2	1.9003	0.9261	1.0833	166.9	105
110	0.2194	435.9	1.9181	0.9321	1.0823	168.1		0.2024	435.9	1.9125	0.9327	1.0824	168.0	110

TEMP °C	PRESSURE = 140.00 kPa (abs)							PRESSURE = 150.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-41.33	0.0007	150.6	0.8055	1.1419	1.6165	718.1	SAT LIQ	0.0007	152.3	0.8129	1.1455	1.6213	710.7	-39.81
-41.33	0.1086	311.1	1.4979	0.6998	1.1442	128.1	SAT VAP	0.1017	311.9	1.4971	0.7044	1.1456	128.2	-39.81
-40	0.1093	312.0	1.5019	0.7026	1.1430	128.6		—	—	—	—	—	—	-40
-35	0.1121	315.6	1.5170	0.7126	1.1390	130.2		0.1042	315.4	1.5116	0.7141	1.1415	129.8	-35
-30	0.1149	319.1	1.5319	0.7222	1.1352	131.9		0.1068	318.9	1.5265	0.7237	1.1374	131.5	-30
-25	0.1176	322.8	1.5467	0.7315	1.1316	133.5		0.1094	322.6	1.5413	0.7330	1.1336	133.1	-25
-20	0.1203	326.5	1.5613	0.7404	1.1282	135.0		0.1120	326.3	1.5560	0.7420	1.1301	134.7	-20
-15	0.1231	330.2	1.5759	0.7492	1.1251	136.6		0.1145	330.0	1.5706	0.7507	1.1267	136.3	-15
-10	0.1258	333.9	1.5904	0.7578	1.1220	138.1		0.1171	333.8	1.5851	0.7592	1.1236	137.8	-10
-5	0.1285	337.8	1.6047	0.7661	1.1192	139.5		0.1196	337.6	1.5995	0.7676	1.1206	139.3	-5
0	0.1311	341.6	1.6189	0.7743	1.1165	141.0		0.1221	341.5	1.6137	0.7758	1.1178	140.7	0
5	0.1338	345.5	1.6330	0.7824	1.1140	142.4		0.1246	345.4	1.6279	0.7838	1.1151	142.2	5
10	0.1365	349.4	1.6471	0.7904	1.1116	143.8		0.1271	349.3	1.6419	0.7917	1.1126	143.6	10
15	0.1391	353.4	1.6610	0.7982	1.1094	145.2		0.1296	353.3	1.6559	0.7995	1.1103	144.9	15
20	0.1417	357.4	1.6748	0.8060	1.1072	146.5		0.1321	357.3	1.6697	0.8072	1.1081	146.3	20
25	0.1444	361.5	1.6885	0.8137	1.1052	147.8		0.1345	361.3	1.6834	0.8149	1.1060	147.6	25
30	0.1470	365.5	1.7020	0.8213	1.1033	149.1		0.1370	365.4	1.6970	0.8224	1.1040	148.9	30
35	0.1496	369.7	1.7155	0.8288	1.1015	150.4		0.1394	369.6	1.7105	0.8299	1.1021	150.2	35
40	0.1522	373.8	1.7290	0.8362	1.0997	151.7		0.1419	373.7	1.7239	0.8372	1.1003	151.5	40
45	0.1547	378.0	1.7422	0.8435	1.0981	152.9		0.1443	377.9	1.7373	0.8446	1.0986	152.8	45
50	0.1573	382.3	1.7555	0.8508	1.0965	154.1		0.1467	382.2	1.7505	0.8518	1.0970	154.0	50
55	0.1599	386.5	1.7686	0.8581	1.0950	155.4		0.1491	386.5	1.7636	0.8590	1.0955	155.2	55
60	0.1625	390.9	1.7816	0.8652	1.0936	156.6		0.1515	390.8	1.7767	0.8661	1.0940	156.6	60
65	0.1650	395.2	1.7946	0.8723	1.0923	157.8		0.1539	395.1	1.7896	0.8732	1.0926	157.6	65
70	0.1676	399.6	1.8074	0.8793	1.0910	158.9		0.1563	399.5	1.8025	0.8801	1.0913	158.8	70
75	0.1701	404.0	1.8202	0.8863	1.0898	160.1		0.1586	403.9	1.8153	0.8871	1.0901	160.0	75
80	0.1726	408.4	1.8329	0.8932	1.0886	161.2		0.1610	408.4	1.8280	0.8939	1.0889	161.1	80
85	0.1752	412.9	1.8455	0.9000	1.0875	162.4		0.1634	412.9	1.8406	0.9008	1.0877	162.2	85
90	0.1777	417.4	1.8580	0.9068	1.0864	163.5		0.1657	417.4	1.8531	0.9075	1.0866	163.4	90
95	0.1802	422.0	1.8704	0.9135	1.0854	164.6		0.1681	421.9	1.8656	0.9142	1.0856	164.5	95
100	0.1828	426.6	1.8828	0.9202	1.0844	165.7		0.1704	426.5	1.8779	0.9208	1.0845	165.6	100
105	0.1853	431.2	1.8951	0.9267	1.0834	166.8		0.1728	431.1	1.8902	0.9274	1.0836	166.7	105
110	0.1878	435.8	1.9073	0.9333	1.0825	167.9		0.1751	435.8	1.9025	0.9338	1.0827	167.8	110
115	—	—	—	—	—	—		0.1775	440.5	1.9146	0.9403	1.0818	168.8	115

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 160.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 170.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-38.37	0.0007	153.9	0.8200	1.1488	1.6257	703.5		0.0007	155.5	0.8266	1.1520	1.6296	696.5	-37.00
-38.37	0.0956	312.7	1.4963	0.7089	1.1470	128.3		0.0903	313.5	1.4956	0.7133	1.1484	128.3	-37.00
-35	0.0973	315.1	1.5065	0.7157	1.1440	129.4		0.0912	314.9	1.5017	0.7173	1.1465	129.1	-35
-30	0.0998	318.7	1.5215	0.7253	1.1397	131.1		0.0936	318.6	1.5167	0.7269	1.1420	130.8	-30
-25	0.1022	322.4	1.5363	0.7346	1.1357	132.8		0.0959	322.2	1.5316	0.7362	1.1378	132.4	-25
-20	0.1047	326.1	1.5511	0.7435	1.1319	134.4		0.0982	325.9	1.5463	0.7451	1.1338	134.1	-20
-15	0.1071	329.8	1.5657	0.7522	1.1284	136.0		0.1005	329.7	1.5610	0.7538	1.1301	135.7	-15
-10	0.1095	333.6	1.5802	0.7607	1.1251	137.5		0.1028	333.5	1.5755	0.7623	1.1267	137.2	-10
-5	0.1119	337.4	1.5946	0.7690	1.1220	139.0		0.1050	337.3	1.5900	0.7705	1.1234	138.8	-5
0	0.1142	341.3	1.6089	0.7772	1.1190	140.5		0.1073	341.2	1.6043	0.7786	1.1203	140.2	0
5	0.1166	345.2	1.6230	0.7852	1.1163	141.9		0.1095	345.1	1.6185	0.7866	1.1175	141.7	5
10	0.1189	349.2	1.6371	0.7931	1.1137	143.3		0.1117	349.0	1.6326	0.7944	1.1147	143.1	10
15	0.1213	353.1	1.6510	0.8008	1.1112	144.7		0.1139	353.0	1.6465	0.8021	1.1122	144.5	15
20	0.1236	357.2	1.6649	0.8085	1.1089	146.1		0.1161	357.0	1.6604	0.8098	1.1098	145.9	20
25	0.1259	361.2	1.6786	0.8161	1.1068	147.4		0.1183	361.1	1.6741	0.8173	1.1075	147.3	25
30	0.1282	365.3	1.6923	0.8236	1.1047	148.8		0.1205	365.2	1.6878	0.8247	1.1054	148.6	30
35	0.1305	369.5	1.7058	0.8310	1.1027	150.1		0.1227	369.4	1.7013	0.8321	1.1034	149.9	35
40	0.1328	373.6	1.7192	0.8383	1.1009	151.3		0.1248	373.5	1.7148	0.8394	1.1015	151.2	40
45	0.1351	377.8	1.7326	0.8456	1.0992	152.6		0.1270	377.8	1.7282	0.8466	1.0997	152.4	45
50	0.1374	382.1	1.7458	0.8528	1.0975	153.8		0.1291	382.0	1.7414	0.8538	1.0980	153.7	50
55	0.1396	386.4	1.7590	0.8599	1.0959	155.1		0.1312	386.3	1.7546	0.8609	1.0964	154.9	55
60	0.1419	390.7	1.7720	0.8670	1.0944	156.3		0.1334	390.6	1.7676	0.8679	1.0948	156.1	60
65	0.1441	395.0	1.7850	0.8740	1.0930	157.5		0.1355	395.0	1.7806	0.8749	1.0933	157.3	65
70	0.1464	399.4	1.7979	0.8810	1.0916	158.7		0.1376	399.4	1.7935	0.8818	1.0920	158.5	70
75	0.1486	403.9	1.8107	0.8879	1.0903	159.8		0.1397	403.8	1.8063	0.8887	1.0906	159.7	75
80	0.1508	408.3	1.8234	0.8947	1.0891	161.0		0.1418	408.2	1.8191	0.8955	1.0894	160.9	80
85	0.1530	412.8	1.8360	0.9015	1.0879	162.1		0.1439	412.7	1.8317	0.9022	1.0882	162.0	85
90	0.1553	417.3	1.8485	0.9082	1.0868	163.3		0.1460	417.3	1.8442	0.9089	1.0870	163.1	90
95	0.1575	421.9	1.8610	0.9148	1.0857	164.4		0.1481	421.8	1.8567	0.9155	1.0859	164.3	95
100	0.1597	426.5	1.8734	0.9214	1.0847	165.5		0.1502	426.4	1.8691	0.9221	1.0849	165.4	100
105	0.1619	431.1	1.8857	0.9280	1.0837	166.6		0.1522	431.0	1.8814	0.9286	1.0839	166.5	105
110	0.1641	435.8	1.8979	0.9344	1.0828	167.7		0.1543	435.7	1.8937	0.9350	1.0829	167.6	110
115	0.1663	440.4	1.9101	0.9408	1.0819	168.7		0.1564	440.4	1.9058	0.9414	1.0820	168.6	115

TEMP °C	PRESSURE = 180.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 190.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-35.69	0.0007	157.0	0.8330	1.1551	1.6331	689.7		0.0007	158.5	0.8391	1.1581	1.6363	683.0	-34.44
-35.69	0.0855	314.2	1.4950	0.7176	1.1499	128.4		0.0812	314.9	1.4944	0.7218	1.1513	128.4	-34.44
-35	0.0858	314.7	1.4971	0.7189	1.1492	128.6		—	—	—	—	—	—	-35
-30	0.0880	318.4	1.5121	0.7286	1.1444	130.4		0.0831	318.2	1.5078	0.7303	1.1469	130.0	-30
-25	0.0903	322.0	1.5270	0.7378	1.1400	132.1		0.0852	321.8	1.5227	0.7395	1.1422	131.8	-25
-20	0.0925	325.7	1.5419	0.7468	1.1358	133.8		0.0873	325.5	1.5376	0.7484	1.1378	133.4	-20
-15	0.0946	329.5	1.5565	0.7554	1.1319	135.4		0.0894	329.3	1.5523	0.7570	1.1337	135.1	-15
-10	0.0968	333.3	1.5711	0.7638	1.1282	136.9		0.0915	333.1	1.5669	0.7654	1.1299	136.7	-10
-5	0.0989	337.1	1.5856	0.7720	1.1248	138.5		0.0935	337.0	1.5814	0.7736	1.1263	138.2	-5
0	0.1011	341.0	1.5999	0.7801	1.1216	140.0		0.0955	340.9	1.5958	0.7816	1.1230	139.7	0
5	0.1032	344.9	1.6141	0.7880	1.1186	141.5		0.0976	344.8	1.6100	0.7894	1.1198	141.2	5
10	0.1053	348.9	1.6282	0.7958	1.1158	142.9		0.0996	348.7	1.6241	0.7972	1.1169	142.7	10
15	0.1074	352.9	1.6422	0.8035	1.1132	144.3		0.1016	352.8	1.6382	0.8048	1.1142	144.1	15
20	0.1095	356.9	1.6561	0.8110	1.1107	145.7		0.1035	356.8	1.6521	0.8123	1.1116	145.5	20
25	0.1116	361.0	1.6699	0.8185	1.1084	147.1		0.1055	360.9	1.6659	0.8197	1.1092	146.9	25
30	0.1136	365.1	1.6836	0.8259	1.1061	148.4		0.1075	365.0	1.6796	0.8271	1.1069	148.2	30
35	0.1157	369.3	1.6971	0.8332	1.1041	149.7		0.1094	369.1	1.6931	0.8344	1.1047	149.5	35
40	0.1177	373.4	1.7106	0.8405	1.1021	151.0		0.1114	373.3	1.7066	0.8416	1.1027	150.9	40
45	0.1198	377.7	1.7240	0.8477	1.1002	152.3		0.1133	377.6	1.7200	0.8487	1.1008	152.1	45
50	0.1218	381.9	1.7373	0.8548	1.0985	153.5		0.1152	381.8	1.7333	0.8558	1.0990	153.4	50
55	0.1238	386.2	1.7504	0.8618	1.0968	154.8		0.1172	386.1	1.7465	0.8628	1.0972	154.6	55
60	0.1258	390.5	1.7635	0.8688	1.0952	156.0		0.1191	390.4	1.7596	0.8697	1.0956	155.9	60
65	0.1278	394.9	1.7765	0.8758	1.0937	157.2		0.1210	394.8	1.7726	0.8766	1.0941	157.1	65
70	0.1298	399.3	1.7894	0.8826	1.0923	158.4		0.1229	399.2	1.7855	0.8835	1.0926	158.3	70
75	0.1318	403.7	1.8022	0.8895	1.0909	159.6		0.1248	403.7	1.7984	0.8903	1.0912	159.5	75
80	0.1338	408.2	1.8150	0.8962	1.0896	160.7		0.1267	408.1	1.8111	0.8970	1.0899	160.6	80
85	0.1358	412.7	1.8276	0.9029	1.0884	161.9		0.1285	412.6	1.8238	0.9037	1.0886	161.8	85
90	0.1378	417.2	1.8402	0.9096	1.0872	163.0		0.1304	417.2	1.8363	0.9103	1.0874	162.9	90
95	0.1397	421.8	1.8527	0.9162	1.0861	164.1		0.1323	421.7	1.8488	0.9168	1.0863	164.0	95
100	0.1417	426.4	1.8651	0.9227	1.0850	165.3		0.1341	426.3	1.8612	0.9233	1.0852	165.1	100
105	0.1437	431.0	1.8774	0.9292	1.0840	166.4		0.1360	431.0	1.8736	0.9298	1.0841	166.3	105
110	0.1456	435.7	1.8896	0.9356	1.0830	167.4		0.1379	435.6	1.8858	0.9361	1.0831	167.3	110
115	0.1476	440.4	1.9018	0.9419	1.0821	168.5		0.1397	440.3	1.8980	0.9425	1.0822	168.4	115
120	—	—	—	—	—	—		0.1416	445.0	1.9101	0.9487	1.0813	169.5	120

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 200.00 kPa (abs)							PRESSURE = 210.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-33.23	0.0007	159.9	0.8449	1.1609	1.6392	676.5	SAT LIQ SAT VAP	0.0007	161.2	0.8505	1.1637	1.6419	670.2	-32.07
-33.23	0.0773	315.6	1.4939	0.7259	1.1528	128.5		0.0738	316.2	1.4934	0.7299	1.1543	128.5	-32.07
-30	0.0787	318.0	1.5036	0.7321	1.1494	129.6		0.0746	317.7	1.4996	0.7339	1.1520	129.3	-30
-25	0.0807	321.6	1.5186	0.7413	1.1444	131.4		0.0766	321.4	1.5147	0.7430	1.1467	131.0	-25
-20	0.0827	325.4	1.5335	0.7501	1.1398	133.1		0.0785	325.2	1.5296	0.7518	1.1419	132.8	-20
-15	0.0847	329.1	1.5482	0.7587	1.1355	134.8		0.0804	329.0	1.5444	0.7604	1.1374	134.5	-15
-10	0.0867	332.9	1.5629	0.7670	1.1315	136.4		0.0823	332.8	1.5590	0.7686	1.1332	136.1	-10
-5	0.0886	336.8	1.5774	0.7751	1.1278	138.0		0.0842	336.6	1.5736	0.7767	1.1293	137.7	-5
0	0.0906	340.7	1.5918	0.7831	1.1243	139.5		0.0860	340.5	1.5880	0.7846	1.1257	139.2	0
5	0.0925	344.6	1.6061	0.7909	1.1211	141.0		0.0879	344.5	1.6023	0.7923	1.1223	140.8	5
10	0.0944	348.6	1.6202	0.7986	1.1180	142.5		0.0897	348.5	1.6165	0.8000	1.1191	142.2	10
15	0.0963	352.6	1.6343	0.8061	1.1152	143.9		0.0915	352.5	1.6305	0.8075	1.1162	143.7	15
20	0.0982	356.7	1.6482	0.8136	1.1125	145.3		0.0934	356.5	1.6445	0.8149	1.1134	145.1	20
25	0.1001	360.8	1.6620	0.8210	1.1100	146.7		0.0952	360.6	1.6584	0.8222	1.1108	146.5	25
30	0.1020	364.9	1.6757	0.8283	1.1076	148.0		0.0970	364.8	1.6721	0.8295	1.1084	147.9	30
35	0.1038	369.0	1.6893	0.8355	1.1054	149.4		0.0987	368.9	1.6857	0.8366	1.1061	149.2	35
40	0.1057	373.2	1.7029	0.8427	1.1033	150.7		0.1005	373.1	1.6992	0.8437	1.1039	150.5	40
45	0.1075	377.5	1.7163	0.8497	1.1013	152.0		0.1023	377.4	1.7127	0.8508	1.1019	151.8	45
50	0.1094	381.7	1.7296	0.8568	1.0995	153.2		0.1040	381.6	1.7260	0.8578	1.1000	153.1	50
55	0.1112	386.0	1.7428	0.8637	1.0977	154.5		0.1058	385.9	1.7392	0.8647	1.0981	154.4	55
60	0.1130	390.4	1.7559	0.8707	1.0960	155.7		0.1075	390.3	1.7523	0.8716	1.0964	155.6	60
65	0.1148	394.7	1.7689	0.8775	1.0944	156.9		0.1092	394.7	1.7654	0.8784	1.0948	156.8	65
70	0.1166	399.1	1.7818	0.8843	1.0929	158.1		0.1110	399.1	1.7783	0.8852	1.0933	158.0	70
75	0.1184	403.6	1.7947	0.8911	1.0915	159.3		0.1127	403.5	1.7912	0.8919	1.0918	159.2	75
80	0.1202	408.1	1.8074	0.8978	1.0901	160.5		0.1144	408.0	1.8039	0.8985	1.0904	160.4	80
85	0.1220	412.6	1.8201	0.9044	1.0889	161.6		0.1161	412.5	1.8166	0.9051	1.0891	161.5	85
90	0.1238	417.1	1.8327	0.9110	1.0876	162.8		0.1178	417.0	1.8292	0.9117	1.0878	162.7	90
95	0.1256	421.7	1.8452	0.9175	1.0865	163.9		0.1195	421.6	1.8417	0.9182	1.0866	163.8	95
100	0.1274	426.3	1.8576	0.9240	1.0853	165.0		0.1212	426.2	1.8541	0.9246	1.0855	164.9	100
105	0.1291	430.9	1.8699	0.9304	1.0843	166.1		0.1229	430.9	1.8665	0.9310	1.0844	166.0	105
110	0.1309	435.6	1.8822	0.9367	1.0833	167.2		0.1246	435.5	1.8788	0.9373	1.0834	167.1	110
115	0.1327	440.3	1.8944	0.9430	1.0823	168.3		0.1263	440.2	1.8910	0.9436	1.0824	168.2	115
120	0.1344	445.0	1.9065	0.9493	1.0814	169.4		0.1279	445.0	1.9031	0.9498	1.0814	169.3	120

TEMP °C	PRESSURE = 220.00 kPa (abs)							PRESSURE = 230.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-30.96	0.0007	162.6	0.8559	1.1663	1.6444	664.0	SAT LIQ SAT VAP	0.0007	163.8	0.8610	1.1689	1.6466	658.0	-29.88
-30.96	0.0706	316.8	1.4929	0.7339	1.1558	128.5		0.0677	317.4	1.4925	0.7378	1.1572	128.5	-29.88
-30	0.0710	317.5	1.4958	0.7357	1.1546	128.9		—	—	—	—	—	—	-30
-25	0.0728	321.2	1.5109	0.7448	1.1491	130.7		0.0694	321.0	1.5072	0.7467	1.1516	130.3	-25
-20	0.0747	325.0	1.5258	0.7536	1.1440	132.4		0.0712	324.8	1.5222	0.7554	1.1462	132.1	-20
-15	0.0765	328.8	1.5406	0.7621	1.1393	134.1		0.0730	328.6	1.5370	0.7638	1.1412	133.8	-15
-10	0.0783	332.6	1.5553	0.7703	1.1349	135.8		0.0747	332.4	1.5518	0.7720	1.1367	135.5	-10
-5	0.0801	336.5	1.5699	0.7783	1.1308	137.4		0.0765	336.3	1.5664	0.7799	1.1324	137.1	-5
0	0.0819	340.4	1.5844	0.7861	1.1271	139.0		0.0782	340.2	1.5809	0.7877	1.1285	138.7	0
5	0.0837	344.3	1.5987	0.7938	1.1235	140.5		0.0799	344.2	1.5952	0.7953	1.1248	140.3	5
10	0.0855	348.3	1.6129	0.8014	1.1203	142.0		0.0816	348.2	1.6095	0.8028	1.1214	141.8	10
15	0.0872	352.4	1.6270	0.8089	1.1172	143.5		0.0833	352.2	1.6236	0.8102	1.1182	143.3	15
20	0.0890	356.4	1.6410	0.8162	1.1143	144.9		0.0850	356.3	1.6376	0.8175	1.1153	144.7	20
25	0.0907	360.5	1.6548	0.8235	1.1116	146.3		0.0866	360.4	1.6515	0.8248	1.1125	146.1	25
30	0.0924	364.7	1.6686	0.8307	1.1091	147.7		0.0882	364.5	1.6652	0.8319	1.1099	147.5	30
35	0.0941	368.8	1.6822	0.8378	1.1068	149.0		0.0899	368.7	1.6789	0.8390	1.1074	148.9	35
40	0.0958	373.0	1.6958	0.8449	1.1045	150.4		0.0915	372.9	1.6925	0.8460	1.1051	150.2	40
45	0.0975	377.3	1.7092	0.8519	1.1024	151.7		0.0931	377.2	1.7059	0.8529	1.1030	151.5	45
50	0.0992	381.6	1.7226	0.8588	1.1005	152.9		0.0947	381.5	1.7193	0.8598	1.1010	152.8	50
55	0.1009	385.9	1.7358	0.8657	1.0986	154.2		0.0963	385.8	1.7325	0.8666	1.0990	154.1	55
60	0.1025	390.2	1.7489	0.8725	1.0968	155.4		0.0979	390.1	1.7457	0.8734	1.0972	155.3	60
65	0.1042	394.6	1.7620	0.8793	1.0952	156.7		0.0995	394.5	1.7587	0.8802	1.0955	156.5	65
70	0.1058	399.0	1.7749	0.8860	1.0936	157.9		0.1011	398.9	1.7717	0.8868	1.0939	157.7	70
75	0.1075	403.4	1.7878	0.8927	1.0921	159.1		0.1027	403.4	1.7846	0.8935	1.0924	158.9	75
80	0.1091	407.9	1.8006	0.8993	1.0907	160.2		0.1043	407.9	1.7974	0.9001	1.0909	160.1	80
85	0.1107	412.4	1.8133	0.9059	1.0893	161.4		0.1058	412.4	1.8101	0.9066	1.0896	161.3	85
90	0.1124	417.0	1.8259	0.9124	1.0880	162.6		0.1074	416.9	1.8227	0.9131	1.0883	162.4	90
95	0.1140	421.6	1.8384	0.9188	1.0868	163.7		0.1089	421.5	1.8352	0.9195	1.0870	163.6	95
100	0.1156	426.2	1.8508	0.9252	1.0857	164.8		0.1105	426.1	1.8477	0.9259	1.0858	164.7	100
105	0.1172	430.8	1.8632	0.9316	1.0846	165.9		0.1120	430.8	1.8600	0.9322	1.0847	165.8	105
110	0.1188	435.5	1.8755	0.9379	1.0835	167.0		0.1136	435.4	1.8723	0.9385	1.0836	166.9	110
115	0.1204	440.2	1.8877	0.9441	1.0825	168.1		0.1151	440.2	1.8845	0.9447	1.0826	168.0	115
120	0.1220	444.9	1.8998	0.9503	1.0815	169.2		0.1167	444.9	1.8967	0.9508	1.0816	169.1	120
125	—	—	—	—	—	—		0.1182	449.7	1.9087	0.9569	1.0807	170.1	125

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 240.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 250.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-28.83	0.0007	165.0	0.8660	1.1714	1.6487	652.1		0.0007	166.2	0.8708	1.1739	1.6507	646.4	-27.82
-28.83	0.0649	318.0	1.4921	0.7417	1.1587	128.5		0.0624	318.5	1.4917	0.7455	1.1602	128.5	-27.82
-25	0.0663	320.8	1.5037	0.7486	1.1541	130.0		0.0634	320.6	1.5002	0.7505	1.1566	129.6	-25
-20	0.0680	324.6	1.5187	0.7572	1.1484	131.8		0.0651	324.4	1.5153	0.7591	1.1507	131.4	-20
-15	0.0697	328.4	1.5336	0.7656	1.1432	133.5		0.0667	328.2	1.5302	0.7674	1.1453	133.2	-15
-10	0.0714	332.3	1.5483	0.7737	1.1384	135.2		0.0684	332.1	1.5450	0.7754	1.1403	134.9	-10
-5	0.0731	336.2	1.5630	0.7816	1.1340	136.9		0.0700	336.0	1.5597	0.7832	1.1356	136.6	-5
0	0.0748	340.1	1.5775	0.7893	1.1299	138.5		0.0716	339.9	1.5742	0.7909	1.1314	138.2	0
5	0.0764	344.0	1.5919	0.7969	1.1261	140.0		0.0732	343.9	1.5887	0.7984	1.1274	139.8	5
10	0.0780	348.1	1.6061	0.8043	1.1226	141.6		0.0748	347.9	1.6029	0.8058	1.1237	141.3	10
15	0.0796	352.1	1.6203	0.8116	1.1193	143.0		0.0763	352.0	1.6171	0.8130	1.1203	142.8	15
20	0.0813	356.2	1.6343	0.8189	1.1162	144.5		0.0779	356.0	1.6312	0.8202	1.1172	144.3	20
25	0.0829	360.3	1.6482	0.8260	1.1133	145.9		0.0794	360.2	1.6451	0.8273	1.1142	145.7	25
30	0.0845	364.4	1.6620	0.8331	1.1106	147.3		0.0809	364.3	1.6589	0.8343	1.1114	147.1	30
35	0.0860	368.6	1.6757	0.8401	1.1081	148.7		0.0825	368.5	1.6726	0.8413	1.1088	148.5	35
40	0.0876	372.8	1.6893	0.8471	1.1058	150.0		0.0840	372.7	1.6862	0.8482	1.1064	149.9	40
45	0.0891	377.1	1.7028	0.8540	1.1036	151.3		0.0855	377.0	1.6997	0.8551	1.1041	151.2	45
50	0.0907	381.4	1.7161	0.8608	1.1015	152.6		0.0870	381.3	1.7131	0.8619	1.1020	152.5	50
55	0.0922	385.7	1.7294	0.8676	1.0995	153.9		0.0884	385.6	1.7264	0.8686	1.1000	153.8	55
60	0.0938	390.0	1.7426	0.8744	1.0977	155.2		0.0899	390.0	1.7396	0.8753	1.0981	155.0	60
65	0.0953	394.4	1.7556	0.8811	1.0959	156.4		0.0914	394.4	1.7527	0.8819	1.0963	156.3	65
70	0.0968	398.9	1.7686	0.8877	1.0943	157.6		0.0928	398.8	1.7656	0.8886	1.0946	157.5	70
75	0.0983	403.3	1.7815	0.8943	1.0927	158.8		0.0943	403.2	1.7785	0.8951	1.0930	158.7	75
80	0.0998	407.8	1.7943	0.9008	1.0912	160.0		0.0958	407.7	1.7914	0.9016	1.0915	159.9	80
85	0.1013	412.3	1.8070	0.9073	1.0898	161.2		0.0972	412.3	1.8041	0.9081	1.0900	161.0	85
90	0.1028	416.9	1.8196	0.9138	1.0885	162.3		0.0986	416.8	1.8167	0.9145	1.0887	162.2	90
95	0.1043	421.5	1.8322	0.9202	1.0872	163.5		0.1001	421.4	1.8293	0.9208	1.0874	163.3	95
100	0.1058	426.1	1.8446	0.9265	1.0860	164.6		0.1015	426.0	1.8417	0.9272	1.0862	164.5	100
105	0.1073	430.7	1.8570	0.9328	1.0848	165.7		0.1029	430.7	1.8541	0.9334	1.0850	165.6	105
110	0.1088	435.4	1.8693	0.9390	1.0837	166.8		0.1043	435.4	1.8664	0.9396	1.0839	166.7	110
115	0.1102	440.1	1.8815	0.9452	1.0827	167.9		0.1058	440.1	1.8786	0.9458	1.0828	167.8	115
120	0.1117	444.9	1.8937	0.9514	1.0817	169.0		0.1072	444.8	1.8908	0.9519	1.0818	168.9	120
125	0.1132	449.6	1.9057	0.9574	1.0808	170.0		0.1086	449.6	1.9028	0.9579	1.0808	169.9	125

TEMP °C	PRESSURE = 260.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 270.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-26.84	0.0007	167.4	0.8755	1.1763	1.6525	640.8		0.0007	168.5	0.8800	1.1786	1.6542	635.3	-25.89
-26.84	0.0601	319.1	1.4913	0.7493	1.1617	128.5		0.0580	319.6	1.4910	0.7531	1.1632	128.5	-25.89
-25	0.0607	320.4	1.4969	0.7525	1.1593	129.2		0.0583	320.2	1.4937	0.7546	1.1620	128.8	-25
-20	0.0624	324.2	1.5120	0.7610	1.1530	131.1		0.0598	324.0	1.5088	0.7630	1.1554	130.7	-20
-15	0.0640	328.1	1.5270	0.7693	1.1473	132.9		0.0614	327.9	1.5239	0.7711	1.1495	132.6	-15
-10	0.0656	331.9	1.5418	0.7772	1.1421	134.6		0.0629	331.7	1.5387	0.7790	1.1440	134.3	-10
-5	0.0671	335.8	1.5565	0.7849	1.1373	136.3		0.0645	335.7	1.5535	0.7867	1.1390	136.0	-5
0	0.0687	339.8	1.5711	0.7925	1.1328	137.9		0.0660	339.6	1.5681	0.7942	1.1344	137.7	0
5	0.0702	343.7	1.5855	0.7999	1.1287	139.5		0.0675	343.6	1.5825	0.8015	1.1301	139.3	5
10	0.0717	347.8	1.5999	0.8073	1.1249	141.1		0.0689	347.6	1.5969	0.8088	1.1261	140.9	10
15	0.0732	351.8	1.6141	0.8145	1.1214	142.6		0.0704	351.7	1.6111	0.8159	1.1225	142.4	15
20	0.0747	355.9	1.6281	0.8216	1.1181	144.1		0.0718	355.8	1.6252	0.8230	1.1191	143.9	20
25	0.0762	360.0	1.6421	0.8286	1.1151	145.5		0.0733	359.9	1.6392	0.8299	1.1159	145.3	25
30	0.0777	364.2	1.6559	0.8356	1.1122	146.9		0.0747	364.1	1.6530	0.8368	1.1130	146.8	30
35	0.0792	368.4	1.6696	0.8425	1.1095	148.3		0.0761	368.3	1.6668	0.8437	1.1103	148.2	35
40	0.0806	372.6	1.6833	0.8493	1.1070	149.7		0.0775	372.5	1.6804	0.8505	1.1077	149.5	40
45	0.0821	376.9	1.6968	0.8561	1.1047	151.0		0.0789	376.8	1.6939	0.8572	1.1053	150.9	45
50	0.0835	381.2	1.7102	0.8629	1.1025	152.3		0.0803	381.1	1.7074	0.8639	1.1030	152.2	50
55	0.0849	385.5	1.7235	0.8696	1.1004	153.6		0.0817	385.4	1.7207	0.8706	1.1009	153.5	55
60	0.0864	389.9	1.7367	0.8762	1.0985	154.9		0.0831	389.8	1.7339	0.8772	1.0989	154.7	60
65	0.0878	394.3	1.7498	0.8828	1.0967	156.1		0.0844	394.2	1.7470	0.8837	1.0970	156.0	65
70	0.0892	398.7	1.7628	0.8894	1.0949	157.4		0.0858	398.6	1.7600	0.8903	1.0953	157.2	70
75	0.0906	403.2	1.7757	0.8959	1.0933	158.6		0.0872	403.1	1.7729	0.8967	1.0936	158.4	75
80	0.0920	407.7	1.7885	0.9024	1.0917	159.8		0.0885	407.6	1.7858	0.9032	1.0920	159.6	80
85	0.0934	412.2	1.8012	0.9088	1.0903	160.9		0.0898	412.1	1.7985	0.9096	1.0905	160.8	85
90	0.0948	416.8	1.8139	0.9152	1.0889	162.1		0.0912	416.7	1.8112	0.9159	1.0891	162.0	90
95	0.0962	421.3	1.8265	0.9215	1.0876	163.2		0.0925	421.3	1.8237	0.9222	1.0878	163.1	95
100	0.0975	426.0	1.8389	0.9278	1.0863	164.4		0.0938	425.9	1.8362	0.9284	1.0865	164.3	100
105	0.0989	430.6	1.8513	0.9340	1.0851	165.5		0.0952	430.6	1.8486	0.9347	1.0853	165.4	105
110	0.1003	435.3	1.8636	0.9402	1.0840	166.6		0.0965	435.3	1.8609	0.9408	1.0841	166.5	110
115	0.1016	440.0	1.8759	0.9463	1.0829	167.7		0.0978	440.0	1.8732	0.9469	1.0830	167.6	115
120	0.1030	444.8	1.8880	0.9524	1.0819	168.8		0.0991	444.7	1.8853	0.9530	1.0820	168.7	120
125	0.1043	449.6	1.9001	0.9585	1.0809	169.8		0.1004	449.5	1.8974	0.9590	1.0810	169.7	125

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 280.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 290.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-24.97	0.0007	169.6	0.8844	1.1809	1.6557	630.0		0.0007	170.7	0.8887	1.1832	1.6572	624.7	-24.07
-24.97	0.0560	320.1	1.4907	0.7568	1.1647	128.5		0.0541	320.5	1.4904	0.7604	1.1662	128.5	-24.07
-20	0.0575	323.8	1.5058	0.7650	1.1579	130.4		0.0553	323.6	1.5028	0.7671	1.1604	130.0	-20
-15	0.0590	327.7	1.5208	0.7731	1.1516	132.2		0.0568	327.5	1.5178	0.7750	1.1538	131.9	-15
-10	0.0605	331.6	1.5357	0.7808	1.1459	134.0		0.0583	331.4	1.5328	0.7827	1.1479	133.7	-10
-5	0.0620	335.5	1.5505	0.7884	1.1407	135.7		0.0597	335.3	1.5476	0.7902	1.1424	135.5	-5
0	0.0635	339.5	1.5651	0.7958	1.1359	137.4		0.0611	339.3	1.5622	0.7975	1.1374	137.2	0
5	0.0649	343.4	1.5796	0.8031	1.1315	139.1		0.0625	343.3	1.5768	0.8047	1.1328	138.8	5
10	0.0663	347.5	1.5940	0.8103	1.1274	140.6		0.0639	347.3	1.5912	0.8118	1.1286	140.4	10
15	0.0678	351.6	1.6082	0.8174	1.1236	142.2		0.0653	351.4	1.6054	0.8188	1.1247	142.0	15
20	0.0692	355.7	1.6223	0.8243	1.1201	143.7		0.0666	355.5	1.6196	0.8257	1.1211	143.5	20
25	0.0706	359.8	1.6364	0.8312	1.1168	145.1		0.0680	359.7	1.6336	0.8326	1.1177	145.0	25
30	0.0719	364.0	1.6502	0.8381	1.1138	146.6		0.0693	363.9	1.6475	0.8394	1.1146	146.4	30
35	0.0733	368.2	1.6640	0.8449	1.1110	148.0		0.0707	368.1	1.6613	0.8461	1.1117	147.8	35
40	0.0747	372.4	1.6777	0.8516	1.1083	149.4		0.0720	372.3	1.6750	0.8528	1.1090	149.2	40
45	0.0760	376.7	1.6912	0.8583	1.1059	150.7		0.0733	376.6	1.6885	0.8594	1.1065	150.5	45
50	0.0774	381.0	1.7046	0.8650	1.1035	152.0		0.0746	380.9	1.7020	0.8660	1.1041	151.9	50
55	0.0787	385.3	1.7180	0.8716	1.1014	153.3		0.0759	385.3	1.7153	0.8726	1.1019	153.2	55
60	0.0800	389.7	1.7312	0.8781	1.0993	154.6		0.0772	389.6	1.7286	0.8791	1.0998	154.5	60
65	0.0813	394.1	1.7443	0.8847	1.0974	155.9		0.0785	394.0	1.7417	0.8856	1.0978	155.7	65
70	0.0827	398.6	1.7573	0.8911	1.0956	157.1		0.0797	398.5	1.7548	0.8920	1.0959	157.0	70
75	0.0840	403.0	1.7703	0.8976	1.0939	158.3		0.0810	403.0	1.7677	0.8984	1.0942	158.2	75
80	0.0853	407.5	1.7831	0.9040	1.0923	159.5		0.0822	407.5	1.7806	0.9047	1.0926	159.4	80
85	0.0866	412.1	1.7959	0.9103	1.0908	160.7		0.0835	412.0	1.7933	0.9111	1.0910	160.6	85
90	0.0878	416.6	1.8085	0.9166	1.0893	161.9		0.0848	416.6	1.8060	0.9173	1.0895	161.7	90
95	0.0891	421.2	1.8211	0.9229	1.0879	163.0		0.0860	421.2	1.8186	0.9236	1.0881	162.9	95
100	0.0904	425.9	1.8336	0.9291	1.0866	164.1		0.0872	425.8	1.8311	0.9297	1.0868	164.0	100
105	0.0917	430.5	1.8460	0.9353	1.0854	165.3		0.0885	430.5	1.8435	0.9359	1.0856	165.2	105
110	0.0930	435.2	1.8584	0.9414	1.0842	166.4		0.0897	435.2	1.8559	0.9420	1.0844	166.3	110
115	0.0942	439.9	1.8706	0.9475	1.0831	167.5		0.0909	439.9	1.8681	0.9480	1.0832	167.4	115
120	0.0955	444.7	1.8828	0.9535	1.0821	168.6		0.0922	444.7	1.8803	0.9540	1.0822	168.4	120
125	0.0968	449.5	1.8949	0.9595	1.0811	169.6		0.0934	449.4	1.8924	0.9600	1.0811	169.5	125
130	0.0980	454.3	1.9069	0.9654	1.0801	170.7		0.0946	454.3	1.9044	0.9659	1.0802	170.6	130

TEMP °C	PRESSURE = 300.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 310.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-23.19	0.0007	171.7	0.8928	1.1854	1.6585	619.6		0.0007	172.7	0.8968	1.1876	1.6598	614.6	-22.34
-23.19	0.0524	321.0	1.4901	0.7641	1.1677	128.4		0.0507	321.4	1.4898	0.7677	1.1692	128.4	-22.34
-20	0.0533	323.4	1.4998	0.7692	1.1630	129.7		0.0514	323.2	1.4970	0.7714	1.1656	129.3	-20
-15	0.0547	327.3	1.5149	0.7770	1.1561	131.6		0.0528	327.1	1.5121	0.7791	1.1584	131.2	-15
-10	0.0562	331.2	1.5299	0.7846	1.1499	133.4		0.0542	331.0	1.5271	0.7866	1.1519	133.1	-10
-5	0.0576	335.2	1.5448	0.7920	1.1442	135.2		0.0555	335.0	1.5420	0.7939	1.1460	134.9	-5
0	0.0589	339.1	1.5595	0.7993	1.1390	136.9		0.0569	339.0	1.5568	0.8010	1.1406	136.6	0
5	0.0603	343.1	1.5740	0.8064	1.1343	138.6		0.0582	343.0	1.5713	0.8080	1.1357	138.3	5
10	0.0617	347.2	1.5885	0.8134	1.1299	140.2		0.0595	347.1	1.5858	0.8150	1.1312	139.9	10
15	0.0630	351.3	1.6028	0.8203	1.1258	141.7		0.0608	351.1	1.6001	0.8218	1.1270	141.5	15
20	0.0643	355.4	1.6169	0.8271	1.1221	143.3		0.0621	355.3	1.6143	0.8286	1.1231	143.1	20
25	0.0656	359.6	1.6310	0.8339	1.1186	144.8		0.0634	359.4	1.6284	0.8353	1.1196	144.6	25
30	0.0669	363.7	1.6449	0.8406	1.1154	146.2		0.0647	363.6	1.6423	0.8419	1.1163	146.0	30
35	0.0682	368.0	1.6587	0.8473	1.1124	147.6		0.0659	367.8	1.6562	0.8485	1.1132	147.5	35
40	0.0695	372.2	1.6724	0.8539	1.1097	149.0		0.0672	372.1	1.6699	0.8551	1.1103	148.9	40
45	0.0708	376.5	1.6860	0.8605	1.1070	150.4		0.0684	376.4	1.6835	0.8616	1.1076	150.2	45
50	0.0720	380.8	1.6994	0.8671	1.1046	151.7		0.0696	380.7	1.6970	0.8681	1.1051	151.6	50
55	0.0733	385.2	1.7128	0.8736	1.1023	153.0		0.0708	385.1	1.7103	0.8746	1.1028	152.9	55
60	0.0745	389.6	1.7261	0.8800	1.1002	154.3		0.0720	389.5	1.7236	0.8810	1.1006	154.2	60
65	0.0758	394.0	1.7392	0.8865	1.0982	155.6		0.0732	393.9	1.7368	0.8874	1.0986	155.4	65
70	0.0770	398.4	1.7523	0.8929	1.0963	156.8		0.0744	398.3	1.7499	0.8937	1.0966	156.7	70
75	0.0782	402.9	1.7652	0.8992	1.0945	158.1		0.0756	402.8	1.7628	0.9000	1.0948	157.9	75
80	0.0794	407.4	1.7781	0.9055	1.0928	159.3		0.0768	407.3	1.7757	0.9063	1.0931	159.1	80
85	0.0807	412.0	1.7909	0.9118	1.0912	160.4		0.0780	411.9	1.7885	0.9126	1.0915	160.3	85
90	0.0819	416.5	1.8036	0.9180	1.0897	161.6		0.0792	416.5	1.8012	0.9188	1.0900	161.5	90
95	0.0831	421.1	1.8162	0.9242	1.0883	162.8		0.0803	421.1	1.8138	0.9249	1.0885	162.7	95
100	0.0843	425.8	1.8287	0.9304	1.0870	163.9		0.0815	425.7	1.8263	0.9310	1.0872	163.8	100
105	0.0855	430.4	1.8411	0.9365	1.0857	165.0		0.0827	430.4	1.8388	0.9371	1.0859	164.9	105
110	0.0866	435.1	1.8534	0.9426	1.0845	166.2		0.0838	435.1	1.8511	0.9432	1.0846	166.0	110
115	0.0878	439.9	1.8657	0.9486	1.0834	167.3		0.0849	439.8	1.8634	0.9491	1.0835	167.1	115
120	0.0890	444.6	1.8779	0.9546	1.0823	168.3		0.0861	444.6	1.8756	0.9551	1.0824	168.2	120
125	0.0902	449.4	1.8900	0.9605	1.0812	169.4		0.0872	449.4	1.8877	0.9610	1.0813	169.3	125
130	0.0914	454.2	1.9020	0.9664	1.0802	170.5		0.0884	454.2	1.8997	0.9668	1.0803	170.4	130

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 320.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 330.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-21.50	0.0007	173.7	0.9008	1.1898	1.6610	609.7		0.0007	174.7	0.9046	1.1919	1.6622	604.9	-20.69
-21.50	0.0492	321.9	1.4896	0.7712	1.1707	128.4		0.0478	322.3	1.4893	0.7748	1.1722	128.3	-20.69
-20	0.0496	323.0	1.4942	0.7736	1.1683	129.0		0.0479	322.8	1.4914	0.7758	1.1711	128.6	-20
-15	0.0510	326.9	1.5094	0.7812	1.1608	130.9		0.0493	326.7	1.5067	0.7833	1.1632	130.6	-15
-10	0.0523	330.9	1.5244	0.7885	1.1540	132.8		0.0506	330.7	1.5218	0.7905	1.1562	132.5	-10
-5	0.0537	334.8	1.5393	0.7957	1.1479	134.6		0.0519	334.6	1.5367	0.7976	1.1498	134.3	-5
0	0.0550	338.8	1.5541	0.8028	1.1423	136.4		0.0532	338.6	1.5515	0.8046	1.1439	136.1	0
5	0.0563	342.8	1.5687	0.8097	1.1372	138.1		0.0544	342.7	1.5662	0.8114	1.1386	137.8	5
10	0.0576	346.9	1.5832	0.8165	1.1325	139.7		0.0557	346.8	1.5807	0.8182	1.1338	139.5	10
15	0.0588	351.0	1.5976	0.8233	1.1281	141.3		0.0569	350.9	1.5951	0.8248	1.1293	141.1	15
20	0.0601	355.1	1.6118	0.8300	1.1242	142.8		0.0581	355.0	1.6093	0.8315	1.1252	142.6	20
25	0.0613	359.3	1.6259	0.8366	1.1205	144.4		0.0594	359.2	1.6235	0.8380	1.1214	144.2	25
30	0.0625	363.5	1.6399	0.8432	1.1171	145.8		0.0605	363.4	1.6374	0.8445	1.1179	145.6	30
35	0.0638	367.7	1.6537	0.8498	1.1139	147.3		0.0617	367.6	1.6513	0.8510	1.1147	147.1	35
40	0.0650	372.0	1.6674	0.8563	1.1110	148.7		0.0629	371.9	1.6651	0.8575	1.1117	148.5	40
45	0.0662	376.3	1.6811	0.8628	1.1082	150.1		0.0641	376.2	1.6787	0.8639	1.1089	149.9	45
50	0.0674	380.6	1.6946	0.8692	1.1057	151.4		0.0652	380.5	1.6922	0.8703	1.1062	151.3	50
55	0.0685	385.0	1.7080	0.8756	1.1033	152.7		0.0664	384.9	1.7056	0.8766	1.1038	152.6	55
60	0.0697	389.4	1.7212	0.8820	1.1011	154.0		0.0675	389.3	1.7189	0.8829	1.1015	153.9	60
65	0.0709	393.8	1.7344	0.8883	1.0990	155.3		0.0687	393.7	1.7321	0.8892	1.0994	155.2	65
70	0.0720	398.3	1.7475	0.8946	1.0970	156.6		0.0698	398.2	1.7452	0.8955	1.0973	156.4	70
75	0.0732	402.8	1.7605	0.9009	1.0951	157.8		0.0709	402.7	1.7582	0.9017	1.0954	157.7	75
80	0.0743	407.3	1.7734	0.9071	1.0934	159.0		0.0720	407.2	1.7711	0.9079	1.0937	158.9	80
85	0.0755	411.8	1.7862	0.9133	1.0917	160.2		0.0731	411.8	1.7839	0.9141	1.0920	160.1	85
90	0.0766	416.4	1.7989	0.9195	1.0902	161.4		0.0742	416.4	1.7967	0.9202	1.0904	161.3	90
95	0.0778	421.0	1.8115	0.9256	1.0887	162.5		0.0753	421.0	1.8093	0.9263	1.0889	162.4	95
100	0.0789	425.7	1.8240	0.9317	1.0873	163.7		0.0764	425.6	1.8218	0.9323	1.0875	163.6	100
105	0.0800	430.3	1.8365	0.9377	1.0860	164.8		0.0775	430.3	1.8343	0.9384	1.0862	164.7	105
110	0.0811	435.0	1.8488	0.9437	1.0848	165.9		0.0786	435.0	1.8466	0.9443	1.0849	165.8	110
115	0.0822	439.8	1.8611	0.9497	1.0836	167.0		0.0797	439.7	1.8589	0.9503	1.0837	166.9	115
120	0.0833	444.5	1.8733	0.9556	1.0824	168.1		0.0808	444.5	1.8711	0.9562	1.0825	168.0	120
125	0.0844	449.3	1.8854	0.9615	1.0814	169.2		0.0818	449.3	1.8832	0.9620	1.0815	169.1	125
130	0.0856	454.2	1.8975	0.9673	1.0804	170.3		0.0829	454.1	1.8953	0.9678	1.0804	170.2	130

TEMP °C	PRESSURE = 340.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 350.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-19.89	0.0007	175.6	0.9083	1.1940	1.6632	600.2		0.0007	176.6	0.9120	1.1961	1.6643	595.6	-19.12
-19.89	0.0464	322.7	1.4891	0.7783	1.1737	128.3		0.0451	323.1	1.4889	0.7818	1.1753	128.2	-19.12
-15	0.0477	326.5	1.5041	0.7855	1.1657	130.2		0.0462	326.3	1.5015	0.7877	1.1683	129.9	-15
-10	0.0490	330.5	1.5192	0.7926	1.1583	132.2		0.0474	330.3	1.5167	0.7947	1.1606	131.9	-10
-5	0.0502	334.5	1.5342	0.7996	1.1517	134.0		0.0487	334.3	1.5317	0.8015	1.1536	133.7	-5
0	0.0515	338.5	1.5490	0.8064	1.1456	135.8		0.0499	338.3	1.5466	0.8082	1.1474	135.5	0
5	0.0527	342.5	1.5637	0.8131	1.1401	137.5		0.0511	342.4	1.5613	0.8149	1.1417	137.3	5
10	0.0539	346.6	1.5783	0.8198	1.1351	139.2		0.0523	346.5	1.5759	0.8214	1.1365	139.0	10
15	0.0551	350.7	1.5927	0.8264	1.1305	140.8		0.0535	350.6	1.5903	0.8279	1.1317	140.6	15
20	0.0563	354.9	1.6069	0.8329	1.1263	142.4		0.0546	354.7	1.6046	0.8344	1.1274	142.2	20
25	0.0575	359.1	1.6211	0.8394	1.1224	144.0		0.0558	358.9	1.6188	0.8408	1.1233	143.8	25
30	0.0587	363.3	1.6351	0.8459	1.1188	145.5		0.0569	363.2	1.6328	0.8472	1.1196	145.3	30
35	0.0598	367.5	1.6490	0.8523	1.1154	146.9		0.0580	367.4	1.6467	0.8535	1.1162	146.7	35
40	0.0610	371.8	1.6627	0.8587	1.1123	148.3		0.0591	371.7	1.6605	0.8599	1.1130	148.2	40
45	0.0621	376.1	1.6764	0.8650	1.1095	149.7		0.0603	376.0	1.6742	0.8661	1.1101	149.6	45
50	0.0632	380.4	1.6899	0.8713	1.1068	151.1		0.0613	380.4	1.6877	0.8724	1.1073	150.9	50
55	0.0644	384.8	1.7034	0.8776	1.1043	152.4		0.0624	384.7	1.7012	0.8787	1.1048	152.3	55
60	0.0655	389.2	1.7167	0.8839	1.1019	153.7		0.0635	389.1	1.7145	0.8849	1.1024	153.6	60
65	0.0666	393.7	1.7299	0.8901	1.0997	155.0		0.0646	393.6	1.7277	0.8911	1.1001	154.9	65
70	0.0677	398.1	1.7430	0.8964	1.0977	156.3		0.0657	398.0	1.7409	0.8972	1.0980	156.2	70
75	0.0688	402.6	1.7560	0.9025	1.0958	157.5		0.0667	402.6	1.7539	0.9034	1.0961	157.4	75
80	0.0698	407.1	1.7689	0.9087	1.0939	158.8		0.0678	407.1	1.7668	0.9095	1.0942	158.6	80
85	0.0709	411.7	1.7818	0.9148	1.0922	160.0		0.0688	411.6	1.7796	0.9156	1.0925	159.8	85
90	0.0720	416.3	1.7945	0.9209	1.0906	161.1		0.0699	416.2	1.7924	0.9216	1.0908	161.0	90
95	0.0731	420.9	1.8071	0.9270	1.0891	162.3		0.0709	420.9	1.8050	0.9277	1.0893	162.2	95
100	0.0741	425.6	1.8197	0.9330	1.0877	163.5		0.0720	425.5	1.8176	0.9337	1.0878	163.4	100
105	0.0752	430.2	1.8321	0.9390	1.0863	164.6		0.0730	430.2	1.8300	0.9396	1.0865	164.5	105
110	0.0762	435.0	1.8445	0.9449	1.0850	165.7		0.0740	434.9	1.8424	0.9455	1.0851	165.6	110
115	0.0773	439.7	1.8568	0.9508	1.0838	166.8		0.0750	439.7	1.8547	0.9514	1.0839	166.7	115
120	0.0783	444.5	1.8690	0.9567	1.0826	167.9		0.0761	444.4	1.8669	0.9572	1.0827	167.8	120
125	0.0794	449.3	1.8811	0.9625	1.0815	169.0		0.0771	449.2	1.8791	0.9630	1.0816	168.9	125
130	0.0804	454.1	1.8932	0.9683	1.0805	170.1		0.0781	454.1	1.8911	0.9688	1.0806	170.0	130
135	0.0815	458.9	1.9051	0.9740	1.0795	171.1		0.0791	458.9	1.9031	0.9745	1.0795	171.0	135

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 360.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 370.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-18.36	0.0007	177.5	0.9155	1.1981	1.6652	591.0	SAT LIQ SAT VAP	0.0007	178.4	0.9190	1.2001	1.6661	586.6	-17.61
-18.36	0.0439	323.5	1.4887	0.7853	1.1768	128.2		0.0427	323.9	1.4885	0.7888	1.1783	128.1	-17.61
-15	0.0447	326.2	1.4990	0.7900	1.1709	129.5		0.0434	326.0	1.4965	0.7923	1.1735	129.2	-15
-10	0.0460	330.1	1.5142	0.7968	1.1628	131.5		0.0446	329.9	1.5118	0.7990	1.1652	131.2	-10
-5	0.0472	334.1	1.5293	0.8035	1.1556	133.4		0.0458	333.9	1.5269	0.8055	1.1577	133.1	-5
0	0.0484	338.2	1.5442	0.8101	1.1491	135.3		0.0469	338.0	1.5418	0.8120	1.1509	135.0	0
5	0.0495	342.2	1.5589	0.8166	1.1432	137.0		0.0481	342.1	1.5566	0.8184	1.1448	136.8	5
10	0.0507	346.3	1.5735	0.8231	1.1378	138.7		0.0492	346.2	1.5712	0.8248	1.1392	138.5	10
15	0.0519	350.5	1.5880	0.8295	1.1329	140.4		0.0504	350.3	1.5857	0.8311	1.1342	140.2	15
20	0.0530	354.6	1.6023	0.8359	1.1285	142.0		0.0515	354.5	1.6001	0.8374	1.1296	141.8	20
25	0.0541	358.8	1.6165	0.8422	1.1243	143.6		0.0526	358.7	1.6143	0.8436	1.1253	143.4	25
30	0.0552	363.0	1.6306	0.8485	1.1205	145.1		0.0537	362.9	1.6284	0.8499	1.1214	144.9	30
35	0.0563	367.3	1.6445	0.8548	1.1170	146.6		0.0547	367.2	1.6423	0.8561	1.1178	146.4	35
40	0.0574	371.6	1.6583	0.8611	1.1137	148.0		0.0558	371.5	1.6562	0.8623	1.1144	147.8	40
45	0.0585	375.9	1.6720	0.8673	1.1107	149.4		0.0568	375.8	1.6699	0.8684	1.1113	149.2	45
50	0.0596	380.3	1.6856	0.8735	1.1079	150.8		0.0579	380.2	1.6835	0.8746	1.1085	150.6	50
55	0.0606	384.6	1.6990	0.8797	1.1053	152.1		0.0589	384.6	1.6969	0.8807	1.1058	152.0	55
60	0.0617	389.1	1.7124	0.8859	1.1028	153.5		0.0600	389.0	1.7103	0.8868	1.1033	153.3	60
65	0.0627	393.5	1.7256	0.8920	1.1005	154.8		0.0610	393.4	1.7236	0.8929	1.1009	154.6	65
70	0.0638	398.0	1.7387	0.8981	1.0984	156.0		0.0620	397.9	1.7367	0.8990	1.0988	155.9	70
75	0.0648	402.5	1.7518	0.9042	1.0964	157.3		0.0630	402.4	1.7497	0.9051	1.0967	157.2	75
80	0.0658	407.0	1.7647	0.9103	1.0945	158.5		0.0640	407.0	1.7627	0.9111	1.0948	158.4	80
85	0.0669	411.6	1.7776	0.9163	1.0927	159.7		0.0650	411.5	1.7755	0.9171	1.0930	159.6	85
90	0.0679	416.2	1.7903	0.9224	1.0911	160.9		0.0660	416.1	1.7883	0.9231	1.0913	160.8	90
95	0.0689	420.8	1.8030	0.9284	1.0895	162.1		0.0670	420.8	1.8010	0.9291	1.0897	162.0	95
100	0.0699	425.5	1.8155	0.9343	1.0880	163.2		0.0680	425.4	1.8135	0.9350	1.0882	163.1	100
105	0.0709	430.2	1.8280	0.9402	1.0866	164.4		0.0689	430.1	1.8260	0.9409	1.0868	164.3	105
110	0.0719	434.9	1.8404	0.9461	1.0853	165.5		0.0699	434.8	1.8384	0.9467	1.0854	165.4	110
115	0.0729	439.6	1.8527	0.9520	1.0840	166.6		0.0709	439.6	1.8507	0.9525	1.0841	166.5	115
120	0.0739	444.4	1.8649	0.9578	1.0828	167.7		0.0718	444.3	1.8630	0.9583	1.0829	167.6	120
125	0.0749	449.2	1.8771	0.9635	1.0817	168.8		0.0728	449.2	1.8751	0.9641	1.0818	168.7	125
130	0.0759	454.0	1.8891	0.9693	1.0806	169.9		0.0738	454.0	1.8872	0.9698	1.0807	169.8	130
135	0.0768	458.9	1.9011	0.9749	1.0796	170.9		0.0747	458.9	1.8992	0.9754	1.0796	170.8	135

TEMP °C	PRESSURE = 380.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 390.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-16.88	0.0007	179.2	0.9224	1.2022	1.6670	582.2	SAT LIQ SAT VAP	0.0007	180.1	0.9257	1.2042	1.6678	577.9	-16.16
-16.88	0.0416	324.3	1.4883	0.7922	1.1799	128.1		0.0406	324.6	1.4881	0.7956	1.1814	128.0	-16.16
-15	0.0421	325.8	1.4941	0.7947	1.1763	128.9		0.0408	325.6	1.4917	0.7971	1.1791	128.5	-15
-10	0.0433	329.7	1.5094	0.8012	1.1675	130.9		0.0420	329.6	1.5070	0.8035	1.1700	130.6	-10
-5	0.0444	333.8	1.5245	0.8076	1.1597	132.8		0.0432	333.6	1.5222	0.8097	1.1619	132.5	-5
0	0.0456	337.8	1.5395	0.8140	1.1527	134.7		0.0443	337.7	1.5372	0.8159	1.1546	134.4	0
5	0.0467	341.9	1.5543	0.8203	1.1464	136.5		0.0454	341.7	1.5521	0.8221	1.1480	136.3	5
10	0.0478	346.0	1.5690	0.8265	1.1407	138.3		0.0465	345.9	1.5668	0.8282	1.1421	138.0	10
15	0.0489	350.2	1.5835	0.8327	1.1354	139.9		0.0476	350.0	1.5813	0.8344	1.1367	139.7	15
20	0.0500	354.3	1.5979	0.8389	1.1307	141.6		0.0486	354.2	1.5958	0.8405	1.1318	141.4	20
25	0.0511	358.6	1.6121	0.8451	1.1263	143.2		0.0497	358.4	1.6100	0.8465	1.1273	143.0	25
30	0.0522	362.8	1.6262	0.8512	1.1223	144.7		0.0507	362.7	1.6242	0.8526	1.1232	144.5	30
35	0.0532	367.1	1.6402	0.8574	1.1186	146.2		0.0518	367.0	1.6381	0.8587	1.1194	146.0	35
40	0.0543	371.4	1.6541	0.8635	1.1151	147.7		0.0528	371.3	1.6520	0.8647	1.1159	147.5	40
45	0.0553	375.7	1.6678	0.8696	1.1120	149.1		0.0538	375.6	1.6658	0.8708	1.1126	148.9	45
50	0.0563	380.1	1.6814	0.8757	1.1090	150.5		0.0548	380.0	1.6794	0.8768	1.1096	150.3	50
55	0.0573	384.5	1.6949	0.8818	1.1063	151.8		0.0558	384.4	1.6929	0.8828	1.1068	151.7	55
60	0.0583	388.9	1.7083	0.8878	1.1037	153.2		0.0568	388.8	1.7063	0.8888	1.1042	153.0	60
65	0.0593	393.3	1.7215	0.8939	1.1014	154.5		0.0577	393.3	1.7196	0.8948	1.1018	154.3	65
70	0.0603	397.8	1.7347	0.8999	1.0991	155.8		0.0587	397.8	1.7328	0.9008	1.0995	155.6	70
75	0.0613	402.3	1.7478	0.9059	1.0970	157.0		0.0597	402.3	1.7458	0.9068	1.0974	156.9	75
80	0.0623	406.9	1.7607	0.9119	1.0951	158.3		0.0606	406.8	1.7588	0.9127	1.0954	158.1	80
85	0.0632	411.5	1.7736	0.9179	1.0932	159.5		0.0616	411.4	1.7717	0.9187	1.0935	159.4	85
90	0.0642	416.1	1.7864	0.9238	1.0915	160.7		0.0625	416.0	1.7844	0.9246	1.0917	160.6	90
95	0.0652	420.7	1.7990	0.9297	1.0899	161.9		0.0634	420.6	1.7971	0.9304	1.0901	161.7	95
100	0.0661	425.4	1.8116	0.9356	1.0884	163.0		0.0644	425.3	1.8097	0.9363	1.0885	162.9	100
105	0.0671	430.1	1.8241	0.9415	1.0869	164.2		0.0653	430.0	1.8222	0.9421	1.0871	164.0	105
110	0.0680	434.8	1.8365	0.9473	1.0855	165.3		0.0662	434.7	1.8346	0.9479	1.0857	165.2	110
115	0.0690	439.5	1.8488	0.9531	1.0842	166.4		0.0672	439.5	1.8470	0.9537	1.0844	166.3	115
120	0.0699	444.3	1.8611	0.9589	1.0830	167.5		0.0681	444.3	1.8592	0.9594	1.0831	167.4	120
125	0.0708	449.1	1.8732	0.9646	1.0818	168.6		0.0690	449.1	1.8714	0.9651	1.0819	168.5	125
130	0.0718	454.0	1.8853	0.9702	1.0807	169.7		0.0699	453.9	1.8835	0.9707	1.0808	169.6	130
135	0.0727	458.8	1.8973	0.9759	1.0797	170.7		0.0708	458.8	1.8955	0.9763	1.0798	170.6	135

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 400.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 425.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-15.46	0.0007	181.0	0.9290	1.2061	1.6686	573.7		0.0007	183.0	0.9369	1.2110	1.6704	563.5	-13.76
-15.46	0.0396	325.0	1.4879	0.7991	1.1829	127.9		0.0373	325.8	1.4875	0.8075	1.1868	127.8	-13.76
-15	0.0397	325.4	1.4893	0.7996	1.1820	128.1		—	—	—	—	—	—	-15
-10	0.0408	329.4	1.5047	0.8058	1.1725	130.2		0.0381	328.9	1.4992	0.8118	1.1790	129.4	-10
-5	0.0420	333.4	1.5200	0.8119	1.1640	132.2		0.0392	333.0	1.5145	0.8174	1.1696	131.5	-5
0	0.0431	337.5	1.5350	0.8179	1.1565	134.2		0.0403	337.1	1.5296	0.8231	1.1614	133.4	0
5	0.0442	341.6	1.5499	0.8240	1.1497	136.0		0.0413	341.2	1.5446	0.8288	1.1540	135.3	5
10	0.0452	345.7	1.5646	0.8300	1.1436	137.8		0.0423	345.3	1.5594	0.8345	1.1473	137.2	10
15	0.0463	349.9	1.5792	0.8360	1.1380	139.5		0.0433	349.5	1.5741	0.8402	1.1413	138.9	15
20	0.0473	354.1	1.5937	0.8420	1.1329	141.1		0.0443	353.7	1.5886	0.8460	1.1359	140.6	20
25	0.0484	358.3	1.6080	0.8480	1.1283	142.8		0.0453	358.0	1.6030	0.8517	1.1309	142.2	25
30	0.0494	362.6	1.6221	0.8540	1.1241	144.3		0.0463	362.3	1.6172	0.8575	1.1264	143.8	30
35	0.0504	366.8	1.6361	0.8600	1.1202	145.8		0.0472	366.6	1.6313	0.8633	1.1222	145.4	35
40	0.0514	371.2	1.6500	0.8660	1.1166	147.3		0.0482	370.9	1.6452	0.8691	1.1184	146.9	40
45	0.0524	375.5	1.6638	0.8719	1.1133	148.8		0.0491	375.3	1.6590	0.8749	1.1149	148.3	45
50	0.0533	379.9	1.6774	0.8779	1.1102	150.2		0.0500	379.6	1.6727	0.8807	1.1116	149.8	50
55	0.0543	384.3	1.6909	0.8839	1.1073	151.5		0.0510	384.1	1.6863	0.8865	1.1086	151.2	55
60	0.0553	388.7	1.7044	0.8898	1.1047	152.9		0.0519	388.5	1.6997	0.8923	1.1058	152.5	60
65	0.0562	393.2	1.7177	0.8958	1.1022	154.2		0.0528	393.0	1.7130	0.8981	1.1032	153.9	65
70	0.0572	397.7	1.7308	0.9017	1.0999	155.5		0.0537	397.5	1.7263	0.9040	1.1008	155.2	70
75	0.0581	402.2	1.7439	0.9076	1.0977	156.8		0.0546	402.0	1.7394	0.9098	1.0985	156.4	75
80	0.0590	406.8	1.7569	0.9135	1.0957	158.0		0.0554	406.6	1.7524	0.9156	1.0964	157.7	80
85	0.0600	411.3	1.7698	0.9194	1.0938	159.2		0.0563	411.2	1.7653	0.9214	1.0944	158.9	85
90	0.0609	415.9	1.7826	0.9253	1.0920	160.4		0.0572	415.8	1.7781	0.9271	1.0925	160.1	90
95	0.0618	420.6	1.7953	0.9311	1.0903	161.6		0.0581	420.5	1.7908	0.9329	1.0908	161.3	95
100	0.0627	425.3	1.8079	0.9370	1.0887	162.8		0.0589	425.1	1.8035	0.9386	1.0891	162.5	100
105	0.0636	430.0	1.8204	0.9427	1.0872	163.9		0.0598	429.8	1.8160	0.9443	1.0876	163.7	105
110	0.0645	434.7	1.8328	0.9485	1.0858	165.1		0.0606	434.6	1.8284	0.9500	1.0861	164.8	110
115	0.0654	439.4	1.8451	0.9542	1.0845	166.2		0.0615	439.3	1.8408	0.9557	1.0848	165.9	115
120	0.0663	444.2	1.8574	0.9599	1.0832	167.3		0.0623	444.1	1.8531	0.9613	1.0834	167.0	120
125	0.0672	449.0	1.8696	0.9656	1.0820	168.4		0.0632	449.0	1.8652	0.9669	1.0822	168.1	125
130	0.0681	453.9	1.8817	0.9712	1.0809	169.5		0.0640	453.8	1.8774	0.9725	1.0810	169.2	130
135	0.0690	458.8	1.8937	0.9768	1.0798	170.5		0.0648	458.7	1.8894	0.9780	1.0799	170.3	135
140	—	—	—	—	—	—		0.0657	463.6	1.9013	0.9835	1.0789	171.3	140

TEMP °C	PRESSURE = 450.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 475.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-12.14	0.0007	185.0	0.9444	1.2158	1.6720	553.8		0.0007	186.9	0.9516	1.2206	1.6735	544.4	-10.58
-12.14	0.0353	326.6	1.4871	0.8159	1.1907	127.6		0.0334	327.4	1.4868	0.8243	1.1946	127.4	-10.58
-10	0.0357	328.4	1.4938	0.8181	1.1859	128.6		0.0335	327.9	1.4886	0.8248	1.1932	127.7	-10
-5	0.0367	332.5	1.5092	0.8232	1.1756	130.7		0.0345	332.0	1.5042	0.8293	1.1818	129.9	-5
0	0.0378	336.6	1.5245	0.8284	1.1665	132.7		0.0355	336.2	1.5195	0.8340	1.1719	132.0	0
5	0.0388	340.8	1.5396	0.8337	1.1584	134.7		0.0365	340.4	1.5347	0.8389	1.1631	134.0	5
10	0.0398	345.0	1.5545	0.8391	1.1512	136.5		0.0374	344.6	1.5497	0.8439	1.1553	135.9	10
15	0.0407	349.2	1.5692	0.8445	1.1448	138.3		0.0384	348.8	1.5645	0.8490	1.1483	137.7	15
20	0.0417	353.4	1.5838	0.8500	1.1389	140.1		0.0393	353.1	1.5792	0.8542	1.1420	139.5	20
25	0.0426	357.7	1.5982	0.8555	1.1336	141.7		0.0402	357.3	1.5936	0.8594	1.1364	141.2	25
30	0.0435	362.0	1.6125	0.8611	1.1288	143.4		0.0411	361.7	1.6080	0.8647	1.1312	142.9	30
35	0.0444	366.3	1.6266	0.8666	1.1243	144.9		0.0419	366.0	1.6222	0.8701	1.1265	144.5	35
40	0.0453	370.6	1.6406	0.8722	1.1203	146.4		0.0428	370.4	1.6362	0.8755	1.1222	146.0	40
45	0.0462	375.0	1.6545	0.8779	1.1166	147.9		0.0437	374.7	1.6501	0.8809	1.1183	147.5	45
50	0.0471	379.4	1.6682	0.8835	1.1131	149.4		0.0445	379.2	1.6639	0.8864	1.1146	149.0	50
55	0.0480	383.8	1.6818	0.8892	1.1099	150.8		0.0453	383.6	1.6776	0.8919	1.1113	150.4	55
60	0.0489	388.3	1.6953	0.8949	1.1070	152.2		0.0461	388.1	1.6911	0.8974	1.1082	151.8	60
65	0.0497	392.8	1.7087	0.9006	1.1043	153.5		0.0470	392.6	1.7045	0.9030	1.1053	153.2	65
70	0.0506	397.3	1.7219	0.9063	1.1017	154.8		0.0478	397.1	1.7178	0.9086	1.1027	154.5	70
75	0.0514	401.8	1.7351	0.9119	1.0993	156.1		0.0486	401.7	1.7310	0.9141	1.1002	155.8	75
80	0.0522	406.4	1.7481	0.9176	1.0971	157.4		0.0494	406.3	1.7441	0.9197	1.0979	157.1	80
85	0.0531	411.0	1.7611	0.9233	1.0951	158.6		0.0502	410.9	1.7570	0.9253	1.0957	158.3	85
90	0.0539	415.7	1.7739	0.9290	1.0931	159.8		0.0510	415.5	1.7699	0.9309	1.0937	159.5	90
95	0.0547	420.3	1.7867	0.9346	1.0913	161.0		0.0517	420.2	1.7827	0.9364	1.0918	160.8	95
100	0.0555	425.0	1.7993	0.9403	1.0896	162.2		0.0525	424.9	1.7953	0.9420	1.0900	161.9	100
105	0.0564	429.7	1.8119	0.9459	1.0880	163.4		0.0533	429.6	1.8079	0.9475	1.0884	163.1	105
110	0.0572	434.5	1.8243	0.9515	1.0865	164.5		0.0541	434.3	1.8204	0.9530	1.0868	164.3	110
115	0.0580	439.2	1.8367	0.9571	1.0850	165.7		0.0548	439.1	1.8328	0.9585	1.0853	165.4	115
120	0.0588	444.0	1.8490	0.9627	1.0837	166.8		0.0556	443.9	1.8451	0.9640	1.0839	166.5	120
125	0.0596	448.9	1.8612	0.9682	1.0824	167.9		0.0563	448.8	1.8573	0.9695	1.0826	167.6	125
130	0.0603	453.7	1.8733	0.9737	1.0812	169.0		0.0571	453.6	1.8694	0.9749	1.0814	168.7	130
135	0.0611	458.6	1.8853	0.9791	1.0801	170.0		0.0578	458.5	1.8815	0.9803	1.0802	169.8	135
140	0.0619	463.5	1.8973	0.9846	1.0790	171.1		0.0586	463.4	1.8934	0.9857	1.0791	170.8	140

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 500.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 525.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-9.08	0.0007	188.7	0.9585	1.2253	1.6749	535.4		0.0007	190.5	0.9651	1.2300	1.6761	526.7	-7.64
-9.08	0.0318	328.1	1.4865	0.8325	1.1986	127.2		0.0303	328.8	1.4862	0.8408	1.2025	127.0	-7.64
-5	0.0326	331.5	1.4993	0.8357	1.1884	129.1		0.0308	331.1	1.4945	0.8425	1.1955	128.3	-5
0	0.0335	335.7	1.5147	0.8399	1.1775	131.2		0.0317	335.3	1.5101	0.8460	1.1835	130.5	0
5	0.0344	339.9	1.5300	0.8443	1.1680	133.3		0.0326	339.5	1.5255	0.8499	1.1731	132.6	5
10	0.0354	344.2	1.5451	0.8488	1.1595	135.3		0.0335	343.8	1.5406	0.8540	1.1639	134.6	10
15	0.0363	348.4	1.5600	0.8536	1.1520	137.1		0.0343	348.1	1.5556	0.8583	1.1558	136.5	15
20	0.0371	352.7	1.5747	0.8584	1.1453	139.0		0.0352	352.4	1.5704	0.8628	1.1486	138.4	20
25	0.0380	357.0	1.5893	0.8634	1.1392	140.7		0.0360	356.7	1.5851	0.8675	1.1421	140.2	25
30	0.0389	361.3	1.6037	0.8684	1.1337	142.4		0.0368	361.0	1.5995	0.8722	1.1363	141.9	30
35	0.0397	365.7	1.6179	0.8736	1.1287	144.0		0.0376	365.4	1.6138	0.8771	1.1310	143.5	35
40	0.0405	370.1	1.6320	0.8788	1.1242	145.6		0.0384	369.8	1.6280	0.8821	1.1262	145.1	40
45	0.0413	374.5	1.6460	0.8840	1.1200	147.1		0.0392	374.2	1.6420	0.8872	1.1218	146.7	45
50	0.0421	378.9	1.6598	0.8893	1.1162	148.6		0.0400	378.7	1.6559	0.8923	1.1178	148.2	50
55	0.0429	383.4	1.6735	0.8947	1.1127	150.0		0.0408	383.2	1.6696	0.8974	1.1141	149.6	55
60	0.0437	387.9	1.6871	0.9000	1.1094	151.4		0.0415	387.7	1.6832	0.9027	1.1107	151.1	60
65	0.0445	392.4	1.7005	0.9054	1.1064	152.8		0.0423	392.2	1.6967	0.9079	1.1075	152.5	65
70	0.0453	396.9	1.7139	0.9109	1.1036	154.2		0.0430	396.7	1.7101	0.9132	1.1046	153.8	70
75	0.0460	401.5	1.7271	0.9163	1.1011	155.5		0.0437	401.3	1.7233	0.9185	1.1019	155.1	75
80	0.0468	406.1	1.7402	0.9218	1.0986	156.8		0.0445	405.9	1.7366	0.9239	1.0994	156.4	80
85	0.0476	410.7	1.7532	0.9273	1.0964	158.0		0.0452	410.6	1.7495	0.9292	1.0971	157.7	85
90	0.0483	415.4	1.7661	0.9327	1.0943	159.3		0.0459	415.2	1.7624	0.9346	1.0949	159.0	90
95	0.0491	420.0	1.7789	0.9382	1.0923	160.5		0.0466	419.9	1.7752	0.9400	1.0929	160.2	95
100	0.0498	424.7	1.7916	0.9437	1.0905	161.7		0.0473	424.6	1.7880	0.9454	1.0910	161.4	100
105	0.0505	429.5	1.8042	0.9491	1.0888	162.8		0.0480	429.4	1.8006	0.9507	1.0892	162.6	105
110	0.0512	434.2	1.8166	0.9546	1.0872	164.0		0.0487	434.1	1.8131	0.9561	1.0875	163.7	110
115	0.0520	439.0	1.8291	0.9600	1.0856	165.1		0.0494	438.9	1.8255	0.9615	1.0859	164.9	115
120	0.0527	443.8	1.8414	0.9654	1.0842	166.2		0.0501	443.7	1.8379	0.9668	1.0844	166.0	120
125	0.0534	448.7	1.8536	0.9708	1.0828	167.4		0.0508	448.6	1.8501	0.9721	1.0831	167.1	125
130	0.0541	453.5	1.8658	0.9762	1.0816	168.4		0.0515	453.5	1.8623	0.9774	1.0817	168.2	130
135	0.0549	458.4	1.8778	0.9815	1.0804	169.5		0.0522	458.4	1.8744	0.9827	1.0805	169.3	135
140	0.0556	463.4	1.8898	0.9868	1.0792	170.6		0.0528	463.3	1.8864	0.9879	1.0793	170.3	140
145	0.0563	468.3	1.9017	0.9921	1.0781	171.6		0.0535	468.2	1.8983	0.9932	1.0782	171.4	145

TEMP °C	PRESSURE = 550.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 575.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-6.25	0.0007	192.2	0.9715	1.2346	1.6774	518.4		0.0007	193.9	0.9777	1.2393	1.6785	510.3	-4.90
-6.25	0.0289	329.5	1.4859	0.8490	1.2065	126.8		0.0276	330.1	1.4856	0.8572	1.2106	126.6	-4.90
-5	0.0291	330.6	1.4899	0.8496	1.2029	127.4		—	—	—	—	—	—	-5
0	0.0300	334.8	1.5056	0.8524	1.1898	129.7		0.0285	334.3	1.5012	0.8591	1.1965	128.9	0
5	0.0309	339.1	1.5211	0.8557	1.1785	131.9		0.0293	338.7	1.5168	0.8617	1.1841	131.2	5
10	0.0318	343.4	1.5363	0.8593	1.1686	134.0		0.0302	343.0	1.5322	0.8648	1.1734	133.3	10
15	0.0326	347.7	1.5514	0.8632	1.1598	135.9		0.0310	347.3	1.5473	0.8682	1.1640	135.3	15
20	0.0334	352.0	1.5663	0.8673	1.1521	137.8		0.0318	351.6	1.5623	0.8720	1.1557	137.2	20
25	0.0342	356.4	1.5810	0.8717	1.1452	139.6		0.0326	356.0	1.5771	0.8759	1.1483	139.1	25
30	0.0350	360.7	1.5955	0.8761	1.1389	141.4		0.0333	360.4	1.5917	0.8801	1.1417	140.9	30
35	0.0358	365.1	1.6099	0.8808	1.1333	143.1		0.0341	364.8	1.6061	0.8845	1.1357	142.6	35
40	0.0366	369.5	1.6241	0.8855	1.1282	144.7		0.0348	369.3	1.6204	0.8890	1.1304	144.2	40
45	0.0373	374.0	1.6382	0.8903	1.1236	146.2		0.0356	373.7	1.6345	0.8936	1.1255	145.8	45
50	0.0380	378.4	1.6521	0.8953	1.1194	147.8		0.0363	378.2	1.6485	0.8983	1.1210	147.4	50
55	0.0388	382.9	1.6659	0.9003	1.1155	149.3		0.0370	382.7	1.6623	0.9031	1.1170	148.9	55
60	0.0395	387.4	1.6796	0.9053	1.1119	150.7		0.0377	387.2	1.6760	0.9080	1.1132	150.3	60
65	0.0402	392.0	1.6931	0.9104	1.1087	152.1		0.0384	391.8	1.6896	0.9130	1.1098	151.7	65
70	0.0409	396.5	1.7065	0.9156	1.1056	153.5		0.0391	396.4	1.7030	0.9180	1.1066	153.1	70
75	0.0417	401.1	1.7198	0.9208	1.1028	154.8		0.0397	401.0	1.7163	0.9231	1.1037	154.5	75
80	0.0423	405.8	1.7329	0.9260	1.1002	156.1		0.0404	405.6	1.7295	0.9281	1.1010	155.8	80
85	0.0430	410.4	1.7460	0.9313	1.0978	157.4		0.0411	410.2	1.7426	0.9333	1.0985	157.1	85
90	0.0437	415.1	1.7589	0.9365	1.0955	158.7		0.0417	414.9	1.7556	0.9384	1.0961	158.4	90
95	0.0444	419.8	1.7718	0.9418	1.0934	159.9		0.0424	419.6	1.7684	0.9436	1.0939	159.6	95
100	0.0451	424.5	1.7845	0.9471	1.0914	161.1		0.0430	424.4	1.7812	0.9488	1.0919	160.8	100
105	0.0458	429.2	1.7971	0.9524	1.0896	162.3		0.0437	429.1	1.7939	0.9540	1.0900	162.0	105
110	0.0464	434.0	1.8097	0.9576	1.0879	163.4		0.0443	433.9	1.8064	0.9592	1.0882	163.2	110
115	0.0471	438.8	1.8221	0.9629	1.0862	164.6		0.0450	438.7	1.8189	0.9644	1.0865	164.3	115
120	0.0477	443.6	1.8345	0.9682	1.0847	165.7		0.0456	443.5	1.8313	0.9696	1.0850	165.5	120
125	0.0484	448.5	1.8468	0.9734	1.0833	166.8		0.0462	448.4	1.8436	0.9748	1.0835	166.6	125
130	0.0491	453.4	1.8589	0.9787	1.0819	167.9		0.0468	453.3	1.8558	0.9799	1.0821	167.7	130
135	0.0497	458.3	1.8710	0.9839	1.0806	169.0		0.0475	458.2	1.8679	0.9851	1.0808	168.8	135
140	0.0504	463.2	1.8831	0.9891	1.0794	170.1		0.0481	463.1	1.8799	0.9902	1.0795	169.8	140
145	0.0510	468.2	1.8950	0.9942	1.0783	171.1		0.0487	468.1	1.8918	0.9953	1.0784	170.9	145
150	—	—	—	—	—	—		0.0493	473.1	1.9037	1.0004	1.0773	171.9	150

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 600.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 625.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-3.60	0.0007	195.5	0.9836	1.2439	1.6796	502.5		0.0008	197.1	0.9894	1.2485	1.6807	495.0	-2.34
-3.60	0.0265	330.8	1.4854	0.8653	1.2146	126.4		0.0254	331.3	1.4852	0.8735	1.2187	126.1	-2.34
0	0.0271	333.9	1.4969	0.8662	1.2035	128.1		0.0258	333.4	1.4927	0.8737	1.2110	127.3	0
5	0.0279	338.2	1.5126	0.8681	1.1900	130.4		0.0266	337.8	1.5085	0.8747	1.1963	129.7	5
10	0.0287	342.6	1.5281	0.8705	1.1784	132.6		0.0274	342.1	1.5241	0.8765	1.1837	131.9	10
15	0.0295	346.9	1.5434	0.8735	1.1683	134.7		0.0282	346.5	1.5395	0.8788	1.1728	134.0	15
20	0.0303	351.3	1.5584	0.8768	1.1594	136.7		0.0289	350.9	1.5546	0.8817	1.1633	136.1	20
25	0.0311	355.7	1.5733	0.8804	1.1515	138.5		0.0297	355.3	1.5696	0.8849	1.1549	138.0	25
30	0.0318	360.1	1.5880	0.8842	1.1445	140.4		0.0304	359.8	1.5843	0.8884	1.1474	139.8	30
35	0.0325	364.5	1.6024	0.8883	1.1382	142.1		0.0311	364.2	1.5989	0.8921	1.1407	141.6	35
40	0.0333	369.0	1.6168	0.8925	1.1325	143.8		0.0318	368.7	1.6133	0.8961	1.1348	143.3	40
45	0.0340	373.4	1.6309	0.8969	1.1274	145.4		0.0325	373.2	1.6275	0.9002	1.1293	145.0	45
50	0.0346	377.9	1.6450	0.9014	1.1227	147.0		0.0332	377.7	1.6416	0.9045	1.1244	146.5	50
55	0.0353	382.5	1.6588	0.9060	1.1185	148.5		0.0338	382.2	1.6555	0.9090	1.1200	148.1	55
60	0.0360	387.0	1.6726	0.9107	1.1146	150.0		0.0345	386.8	1.6693	0.9135	1.1159	149.6	60
65	0.0367	391.6	1.6862	0.9155	1.1110	151.4		0.0351	391.4	1.6829	0.9181	1.1122	151.0	65
70	0.0373	396.2	1.6997	0.9204	1.1077	152.8		0.0358	396.0	1.6964	0.9228	1.1087	152.4	70
75	0.0380	400.8	1.7130	0.9253	1.1046	154.1		0.0364	400.6	1.7098	0.9276	1.1056	153.8	75
80	0.0386	405.4	1.7262	0.9303	1.1018	155.5		0.0370	405.2	1.7231	0.9325	1.1026	155.2	80
85	0.0393	410.1	1.7394	0.9353	1.0992	156.8		0.0376	409.9	1.7362	0.9374	1.0999	156.5	85
90	0.0399	414.8	1.7524	0.9404	1.0968	158.1		0.0382	414.6	1.7493	0.9423	1.0974	157.8	90
95	0.0405	419.5	1.7652	0.9454	1.0945	159.3		0.0388	419.3	1.7622	0.9473	1.0951	159.0	95
100	0.0412	424.2	1.7780	0.9505	1.0924	160.5		0.0394	424.1	1.7750	0.9523	1.0929	160.2	100
105	0.0418	429.0	1.7907	0.9556	1.0904	161.7		0.0400	428.9	1.7877	0.9573	1.0908	161.4	105
110	0.0424	433.8	1.8033	0.9607	1.0886	162.9		0.0406	433.7	1.8003	0.9623	1.0889	162.6	110
115	0.0430	438.6	1.8158	0.9659	1.0868	164.1		0.0412	438.5	1.8128	0.9673	1.0872	163.8	115
120	0.0436	443.4	1.8282	0.9710	1.0852	165.2		0.0418	443.3	1.8252	0.9724	1.0855	164.9	120
125	0.0442	448.3	1.8405	0.9761	1.0837	166.3		0.0424	448.2	1.8375	0.9774	1.0839	166.1	125
130	0.0448	453.2	1.8527	0.9812	1.0823	167.4		0.0430	453.1	1.8498	0.9824	1.0825	167.2	130
135	0.0454	458.1	1.8648	0.9863	1.0809	168.5		0.0435	458.0	1.8619	0.9875	1.0811	168.3	135
140	0.0460	463.1	1.8769	0.9913	1.0797	169.6		0.0441	463.0	1.8740	0.9925	1.0798	169.3	140
145	0.0466	468.0	1.8888	0.9964	1.0785	170.6		0.0447	468.0	1.8859	0.9975	1.0786	170.4	145
150	0.0472	473.0	1.9007	1.0014	1.0773	171.7		0.0452	473.0	1.8978	1.0024	1.0774	171.4	150

TEMP °C	PRESSURE = 650.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 675.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
-1.12	0.0008	198.6	0.9949	1.2532	1.6818	487.7		0.0008	200.1	1.0003	1.2578	1.6829	480.6	0.08
-1.12	0.0244	331.9	1.4850	0.8817	1.2229	125.9		0.0235	332.4	1.4847	0.8898	1.2271	125.6	0.08
0	0.0246	332.9	1.4886	0.8815	1.2189	126.5		—	—	—	—	—	—	0
5	0.0254	337.3	1.5045	0.8816	1.2029	128.9		0.0243	336.8	1.5006	0.8889	1.2098	128.1	5
10	0.0262	341.7	1.5203	0.8827	1.1892	131.2		0.0250	341.3	1.5165	0.8891	1.1950	130.5	10
15	0.0269	346.1	1.5357	0.8844	1.1775	133.4		0.0258	345.7	1.5320	0.8902	1.1824	132.7	15
20	0.0277	350.5	1.5510	0.8868	1.1673	135.5		0.0265	350.2	1.5474	0.8920	1.1715	134.9	20
25	0.0284	355.0	1.5660	0.8895	1.1583	137.4		0.0272	354.6	1.5625	0.8943	1.1619	136.9	25
30	0.0291	359.4	1.5808	0.8927	1.1504	139.3		0.0279	359.1	1.5774	0.8970	1.1535	138.8	30
35	0.0298	363.9	1.5954	0.8961	1.1433	141.1		0.0286	363.6	1.5921	0.9001	1.1460	140.6	35
40	0.0305	368.4	1.6099	0.8998	1.1370	142.9		0.0292	368.1	1.6066	0.9035	1.1394	142.4	40
45	0.0311	372.9	1.6242	0.9037	1.1314	144.5		0.0299	372.6	1.6209	0.9071	1.1334	144.1	45
50	0.0318	377.4	1.6383	0.9077	1.1262	146.1		0.0305	377.2	1.6351	0.9109	1.1280	145.7	50
55	0.0324	382.0	1.6523	0.9119	1.1215	147.7		0.0311	381.8	1.6491	0.9150	1.1231	147.3	55
60	0.0330	386.6	1.6661	0.9163	1.1173	149.2		0.0317	386.3	1.6630	0.9191	1.1187	148.8	60
65	0.0337	391.2	1.6798	0.9208	1.1134	150.7		0.0323	390.9	1.6767	0.9234	1.1146	150.3	65
70	0.0343	395.8	1.6933	0.9253	1.1098	152.1		0.0329	395.6	1.6903	0.9278	1.1109	151.8	70
75	0.0349	400.4	1.7067	0.9300	1.1065	153.5		0.0335	400.2	1.7037	0.9323	1.1074	153.2	75
80	0.0355	405.1	1.7200	0.9347	1.1034	154.8		0.0341	404.9	1.7171	0.9369	1.1043	154.5	80
85	0.0361	409.8	1.7332	0.9394	1.1006	156.2		0.0347	409.6	1.7303	0.9415	1.1014	155.8	85
90	0.0367	414.5	1.7463	0.9443	1.0980	157.5		0.0352	414.3	1.7434	0.9462	1.0987	157.1	90
95	0.0373	419.2	1.7592	0.9491	1.0956	158.7		0.0358	419.1	1.7563	0.9510	1.0962	158.4	95
100	0.0379	424.0	1.7720	0.9540	1.0934	160.0		0.0364	423.8	1.7692	0.9558	1.0939	159.7	100
105	0.0384	428.7	1.7848	0.9589	1.0913	161.2		0.0369	428.6	1.7820	0.9606	1.0917	160.9	105
110	0.0390	433.5	1.7974	0.9639	1.0893	162.4		0.0375	433.4	1.7946	0.9655	1.0897	162.1	110
115	0.0396	438.4	1.8099	0.9688	1.0875	163.5		0.0380	438.3	1.8072	0.9703	1.0878	163.3	115
120	0.0401	443.2	1.8224	0.9738	1.0858	164.7		0.0386	443.1	1.8196	0.9752	1.0860	164.4	120
125	0.0407	448.1	1.8347	0.9787	1.0842	165.8		0.0391	448.0	1.8320	0.9801	1.0844	165.5	125
130	0.0412	453.0	1.8469	0.9837	1.0827	166.9		0.0397	452.9	1.8442	0.9850	1.0828	166.7	130
135	0.0418	458.0	1.8591	0.9887	1.0812	168.0		0.0402	457.9	1.8564	0.9899	1.0814	167.8	135
140	0.0423	462.9	1.8712	0.9936	1.0799	169.1		0.0407	462.8	1.8685	0.9948	1.0800	168.8	140
145	0.0429	467.9	1.8831	0.9985	1.0786	170.1		0.0413	467.8	1.8805	0.9996	1.0787	169.9	145
150	0.0434	472.9	1.8950	1.0034	1.0775	171.2		0.0418	472.8	1.8924	1.0045	1.0775	171.0	150
155	—	—	—	—	—	—		0.0423	477.9	1.9042	1.0093	1.0764	172.0	155

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 700.00 kPa (abs)							PRESSURE = 725.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
1.23	0.0008	201.6	1.0056	1.2625	1.6840	473.7	SAT LIQ SAT VAP	0.0008	203.0	1.0107	1.2672	1.6851	467.1	2.36
1.23	0.0226	333.0	1.4846	0.8980	1.2313	125.4		0.0218	333.5	1.4844	0.9062	1.2356	125.1	2.36
5	0.0232	336.4	1.4968	0.8966	1.2172	127.3		0.0222	335.9	1.4930	0.9046	1.2250	126.5	5
10	0.0240	340.8	1.5128	0.8959	1.2011	129.8		0.0230	340.4	1.5091	0.9029	1.2075	129.1	10
15	0.0247	345.3	1.5284	0.8962	1.1875	132.1		0.0237	344.9	1.5249	0.9025	1.1929	131.4	15
20	0.0254	349.8	1.5439	0.8974	1.1758	134.2		0.0244	349.4	1.5404	0.9030	1.1803	133.6	20
25	0.0261	354.3	1.5591	0.8992	1.1656	136.3		0.0251	353.9	1.5557	0.9043	1.1695	135.7	25
30	0.0268	358.8	1.5740	0.9015	1.1567	138.3		0.0257	358.5	1.5708	0.9061	1.1600	137.7	30
35	0.0274	363.3	1.5888	0.9042	1.1488	140.1		0.0263	363.0	1.5856	0.9085	1.1517	139.6	35
40	0.0281	367.8	1.6034	0.9073	1.1418	141.9		0.0270	367.5	1.6002	0.9112	1.1443	141.4	40
45	0.0287	372.4	1.6178	0.9106	1.1355	143.6		0.0276	372.1	1.6147	0.9142	1.1376	143.2	45
50	0.0293	376.9	1.6320	0.9142	1.1298	145.3		0.0282	376.7	1.6290	0.9176	1.1317	144.9	50
55	0.0299	381.5	1.6461	0.9180	1.1247	146.9		0.0288	381.3	1.6431	0.9211	1.1264	146.5	55
60	0.0305	386.1	1.6600	0.9220	1.1201	148.4		0.0294	385.9	1.6571	0.9249	1.1215	148.1	60
65	0.0311	390.7	1.6737	0.9261	1.1158	149.9		0.0299	390.5	1.6709	0.9288	1.1171	149.6	65
70	0.0317	395.4	1.6874	0.9303	1.1120	151.4		0.0305	395.2	1.6845	0.9329	1.1131	151.1	70
75	0.0322	400.0	1.7009	0.9347	1.1084	152.8		0.0310	399.9	1.6981	0.9371	1.1094	152.5	75
80	0.0328	404.7	1.7142	0.9391	1.1051	154.2		0.0316	404.6	1.7114	0.9414	1.1060	153.9	80
85	0.0334	409.4	1.7275	0.9436	1.1021	155.5		0.0321	409.3	1.7247	0.9457	1.1029	155.2	85
90	0.0339	414.2	1.7406	0.9482	1.0993	156.8		0.0327	414.0	1.7379	0.9502	1.1000	156.5	90
95	0.0345	418.9	1.7536	0.9529	1.0968	158.1		0.0332	418.8	1.7509	0.9547	1.0974	157.8	95
100	0.0350	423.7	1.7665	0.9575	1.0944	159.4		0.0337	423.6	1.7638	0.9593	1.0949	159.1	100
105	0.0355	428.5	1.7792	0.9623	1.0921	160.6		0.0343	428.4	1.7766	0.9640	1.0926	160.3	105
110	0.0361	433.3	1.7919	0.9670	1.0901	161.8		0.0348	433.2	1.7893	0.9686	1.0904	161.5	110
115	0.0366	438.2	1.8045	0.9718	1.0881	163.0		0.0353	438.1	1.8019	0.9733	1.0885	162.7	115
120	0.0371	443.0	1.8169	0.9766	1.0863	164.1		0.0358	442.9	1.8144	0.9781	1.0866	163.9	120
125	0.0377	447.9	1.8293	0.9814	1.0846	165.3		0.0363	447.8	1.8268	0.9828	1.0849	165.0	125
130	0.0382	452.8	1.8416	0.9863	1.0830	166.4		0.0368	452.8	1.8390	0.9875	1.0832	166.1	130
135	0.0387	457.8	1.8538	0.9911	1.0815	167.5		0.0373	457.7	1.8513	0.9923	1.0817	167.2	135
140	0.0392	462.8	1.8659	0.9959	1.0801	168.6		0.0378	462.7	1.8634	0.9971	1.0803	168.3	140
145	0.0397	467.7	1.8779	1.0007	1.0788	169.7		0.0383	467.7	1.8754	1.0018	1.0789	169.4	145
150	0.0402	472.8	1.8898	1.0055	1.0776	170.7		0.0388	472.7	1.8873	1.0065	1.0777	170.5	150
155	0.0407	477.8	1.9016	1.0103	1.0764	171.7		0.0393	477.7	1.8992	1.0113	1.0765	171.5	155

TEMP °C	PRESSURE = 750.00 kPa (abs)							PRESSURE = 800.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
3.46	0.0008	204.4	1.0157	1.2720	1.6862	460.6	SAT LIQ SAT VAP	0.0008	207.1	1.0253	1.2816	1.6885	448.1	5.58
3.46	0.0211	334.0	1.4842	0.9144	1.2399	124.9		0.0197	334.9	1.4839	0.9309	1.2487	124.3	5.58
5	0.0213	335.4	1.4893	0.9131	1.2333	125.7		—	—	—	—	—	—	5
10	0.0221	339.9	1.5055	0.9103	1.2143	128.3		0.0204	339.0	1.4985	0.9261	1.2290	126.8	10
15	0.0228	344.5	1.5214	0.9090	1.1985	130.7		0.0211	343.6	1.5146	0.9228	1.2105	129.3	15
20	0.0234	349.0	1.5371	0.9088	1.1850	133.0		0.0217	348.2	1.5305	0.9210	1.1951	131.7	20
25	0.0241	353.6	1.5524	0.9095	1.1735	135.1		0.0223	352.8	1.5461	0.9204	1.1819	134.0	25
30	0.0247	358.1	1.5676	0.9109	1.1634	137.2		0.0230	357.4	1.5614	0.9207	1.1706	136.1	30
35	0.0254	362.7	1.5825	0.9128	1.1546	139.1		0.0236	362.0	1.5765	0.9217	1.1607	138.1	35
40	0.0260	367.2	1.5972	0.9152	1.1468	141.0		0.0241	366.6	1.5913	0.9233	1.1521	140.0	40
45	0.0266	371.8	1.6117	0.9179	1.1399	142.8		0.0247	371.3	1.6059	0.9254	1.1444	141.8	45
50	0.0272	376.4	1.6261	0.9210	1.1336	144.5		0.0253	375.9	1.6204	0.9279	1.1376	143.6	50
55	0.0277	381.0	1.6402	0.9243	1.1280	146.1		0.0258	380.6	1.6347	0.9307	1.1315	145.3	55
60	0.0283	385.7	1.6542	0.9278	1.1230	147.7		0.0264	385.2	1.6488	0.9338	1.1260	146.9	60
65	0.0288	390.3	1.6681	0.9316	1.1184	149.2		0.0269	389.9	1.6627	0.9371	1.1211	148.5	65
70	0.0294	395.0	1.6818	0.9354	1.1142	150.7		0.0274	394.6	1.6765	0.9407	1.1166	150.0	70
75	0.0299	399.7	1.6953	0.9395	1.1104	152.1		0.0279	399.3	1.6901	0.9444	1.1124	151.5	75
80	0.0305	404.4	1.7088	0.9436	1.1069	153.5		0.0284	404.0	1.7036	0.9482	1.1087	152.9	80
85	0.0310	409.1	1.7221	0.9479	1.1037	154.9		0.0289	408.8	1.7170	0.9522	1.1052	154.3	85
90	0.0315	413.9	1.7352	0.9522	1.1007	156.2		0.0294	413.6	1.7302	0.9563	1.1021	155.6	90
95	0.0320	418.6	1.7483	0.9566	1.0979	157.5		0.0299	418.3	1.7433	0.9605	1.0992	156.9	95
100	0.0325	423.4	1.7612	0.9611	1.0954	158.8		0.0304	423.2	1.7563	0.9647	1.0964	158.2	100
105	0.0331	428.2	1.7740	0.9657	1.0930	160.0		0.0309	428.0	1.7691	0.9691	1.0939	159.5	105
110	0.0336	433.1	1.7868	0.9702	1.0908	161.3		0.0313	432.8	1.7819	0.9735	1.0916	160.7	110
115	0.0340	437.9	1.7994	0.9749	1.0888	162.4		0.0318	437.7	1.7946	0.9779	1.0895	161.9	115
120	0.0345	442.8	1.8119	0.9795	1.0869	163.6		0.0323	442.6	1.8071	0.9824	1.0875	163.1	120
125	0.0350	447.7	1.8243	0.9842	1.0851	164.8		0.0327	447.5	1.8195	0.9869	1.0856	164.2	125
130	0.0355	452.7	1.8366	0.9888	1.0834	165.9		0.0332	452.5	1.8319	0.9914	1.0838	165.4	130
135	0.0360	457.6	1.8488	0.9935	1.0819	167.0		0.0336	457.5	1.8441	0.9960	1.0822	166.5	135
140	0.0365	462.6	1.8609	0.9982	1.0804	168.1		0.0341	462.5	1.8563	1.0005	1.0807	167.6	140
145	0.0370	467.6	1.8730	1.0029	1.0790	169.2		0.0345	467.5	1.8684	1.0051	1.0792	168.7	145
150	0.0374	472.6	1.8849	1.0076	1.0777	170.2		0.0350	472.5	1.8803	1.0097	1.0779	169.7	150
155	0.0379	477.7	1.8968	1.0123	1.0765	171.3		0.0354	477.6	1.8922	1.0142	1.0766	170.8	155
160	—	—	—	—	—	—		0.0359	482.6	1.9040	1.0188	1.0754	171.8	160

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 850.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 900.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
7.60	0.0008	209.7	1.0344	1.2913	1.6910	436.3		0.0008	212.2	1.0432	1.3012	1.6937	425.1	9.54
7.60	0.0185	335.8	1.4835	0.9475	1.2577	123.8		0.0175	336.6	1.4832	0.9643	1.2669	123.2	9.54
10	0.0189	338.0	1.4916	0.9437	1.2455	125.2		0.0175	337.0	1.4848	0.9632	1.2642	123.5	10
15	0.0195	342.7	1.5080	0.9378	1.2239	127.9		0.0182	341.8	1.5016	0.9543	1.2387	126.4	15
20	0.0202	347.4	1.5241	0.9341	1.2060	130.4		0.0188	346.6	1.5180	0.9484	1.2180	129.0	20
25	0.0208	352.1	1.5399	0.9320	1.1910	132.7		0.0194	351.3	1.5340	0.9445	1.2009	131.5	25
30	0.0214	356.7	1.5554	0.9311	1.1783	135.0		0.0200	356.0	1.5496	0.9422	1.1865	133.8	30
35	0.0220	361.4	1.5706	0.9311	1.1673	137.0		0.0206	360.7	1.5650	0.9410	1.1742	136.0	35
40	0.0225	366.0	1.5856	0.9319	1.1577	139.0		0.0211	365.4	1.5802	0.9408	1.1636	138.0	40
45	0.0231	370.7	1.6004	0.9333	1.1493	140.9		0.0216	370.1	1.5951	0.9414	1.1543	140.0	45
50	0.0236	375.4	1.6150	0.9351	1.1418	142.7		0.0221	374.8	1.6098	0.9426	1.1462	141.9	50
55	0.0241	380.1	1.6294	0.9374	1.1352	144.5		0.0226	379.6	1.6243	0.9442	1.1389	143.6	55
60	0.0247	384.8	1.6436	0.9400	1.1292	146.1		0.0231	384.3	1.6386	0.9463	1.1325	145.3	60
65	0.0252	389.5	1.6576	0.9429	1.1238	147.7		0.0236	389.0	1.6527	0.9488	1.1267	147.0	65
70	0.0257	394.2	1.6714	0.9460	1.1190	149.3		0.0241	393.8	1.6666	0.9515	1.1215	148.6	70
75	0.0261	398.9	1.6851	0.9494	1.1146	150.8		0.0246	398.5	1.6804	0.9545	1.1168	150.1	75
80	0.0266	403.7	1.6987	0.9529	1.1105	152.2		0.0250	403.3	1.6940	0.9577	1.1125	151.6	80
85	0.0271	408.4	1.7121	0.9566	1.1069	153.6		0.0255	408.1	1.7075	0.9611	1.1085	153.0	85
90	0.0276	413.2	1.7254	0.9604	1.1035	155.0		0.0259	412.9	1.7209	0.9646	1.1050	154.4	90
95	0.0280	418.1	1.7386	0.9644	1.1004	156.3		0.0264	417.8	1.7341	0.9683	1.1017	155.8	95
100	0.0285	422.9	1.7516	0.9684	1.0975	157.7		0.0268	422.6	1.7472	0.9721	1.0986	157.1	100
105	0.0289	427.7	1.7645	0.9725	1.0949	158.9		0.0272	427.5	1.7601	0.9760	1.0958	158.4	105
110	0.0294	432.6	1.7773	0.9767	1.0924	160.2		0.0276	432.4	1.7730	0.9800	1.0933	159.6	110
115	0.0298	437.5	1.7900	0.9810	1.0902	161.4		0.0281	437.3	1.7857	0.9841	1.0909	160.8	115
120	0.0303	442.4	1.8026	0.9853	1.0880	162.6		0.0285	442.2	1.7983	0.9882	1.0887	162.0	120
125	0.0307	447.4	1.8151	0.9897	1.0861	163.7		0.0289	447.2	1.8109	0.9924	1.0866	163.2	125
130	0.0311	452.3	1.8275	0.9940	1.0842	164.9		0.0293	452.1	1.8233	0.9967	1.0847	164.4	130
135	0.0316	457.3	1.8397	0.9985	1.0825	166.0		0.0297	457.1	1.8356	1.0009	1.0829	165.5	135
140	0.0320	462.3	1.8519	1.0029	1.0809	167.1		0.0301	462.1	1.8478	1.0052	1.0812	166.6	140
145	0.0324	467.3	1.8640	1.0073	1.0794	168.2		0.0305	467.2	1.8599	1.0096	1.0796	167.7	145
150	0.0328	472.4	1.8760	1.0118	1.0780	169.2		0.0309	472.2	1.8719	1.0139	1.0782	168.7	150
155	0.0332	477.4	1.8879	1.0162	1.0767	170.3		0.0313	477.3	1.8839	1.0182	1.0768	169.8	155
160	0.0337	482.5	1.8998	1.0207	1.0754	171.3		0.0317	482.4	1.8957	1.0226	1.0755	170.8	160

TEMP °C	PRESSURE = 950.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 1000.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
11.39	0.0008	214.6	1.0516	1.3114	1.6966	414.3		0.0008	216.9	1.0596	1.3218	1.6998	404.1	13.18
11.39	0.0165	337.3	1.4829	0.9812	1.2764	122.6		0.0156	338.1	1.4827	0.9985	1.2861	122.0	13.18
15	0.0170	340.9	1.4952	0.9726	1.2553	124.8		0.0159	339.9	1.4890	0.9928	1.2741	123.2	15
20	0.0176	345.7	1.5119	0.9638	1.2313	127.6		0.0165	344.8	1.5059	0.9807	1.2460	126.2	20
25	0.0182	350.5	1.5281	0.9578	1.2117	130.2		0.0170	349.7	1.5224	0.9723	1.2235	128.9	25
30	0.0187	355.3	1.5440	0.9539	1.1955	132.6		0.0176	354.5	1.5386	0.9664	1.2051	131.4	30
35	0.0193	360.0	1.5596	0.9515	1.1817	134.9		0.0181	359.4	1.5543	0.9625	1.1897	133.8	35
40	0.0198	364.8	1.5749	0.9502	1.1699	137.0		0.0186	364.2	1.5698	0.9600	1.1766	136.0	40
45	0.0203	369.5	1.5900	0.9499	1.1597	139.0		0.0191	369.0	1.5850	0.9587	1.1654	138.1	45
50	0.0208	374.3	1.6048	0.9503	1.1508	141.0		0.0196	373.7	1.6000	0.9583	1.1556	140.1	50
55	0.0213	379.1	1.6194	0.9513	1.1429	142.8		0.0201	378.5	1.6147	0.9586	1.1471	141.9	55
60	0.0218	383.8	1.6338	0.9528	1.1359	144.6		0.0205	383.3	1.6292	0.9596	1.1395	143.7	60
65	0.0222	388.6	1.6480	0.9548	1.1297	146.2		0.0210	388.1	1.6435	0.9610	1.1328	145.5	65
70	0.0227	393.4	1.6620	0.9571	1.1241	147.9		0.0214	392.9	1.6576	0.9628	1.1268	147.1	70
75	0.0231	398.2	1.6759	0.9597	1.1190	149.4		0.0219	397.8	1.6715	0.9650	1.1213	148.7	75
80	0.0236	403.0	1.6896	0.9625	1.1144	150.9		0.0223	402.6	1.6853	0.9675	1.1165	150.2	80
85	0.0240	407.8	1.7031	0.9656	1.1103	152.4		0.0227	407.4	1.6989	0.9702	1.1120	151.7	85
90	0.0244	412.6	1.7166	0.9689	1.1065	153.8		0.0231	412.3	1.7124	0.9732	1.1080	153.2	90
95	0.0249	417.5	1.7298	0.9723	1.1030	155.2		0.0235	417.2	1.7257	0.9764	1.1043	154.6	95
100	0.0253	422.3	1.7430	0.9759	1.0998	156.5		0.0239	422.1	1.7389	0.9797	1.1009	155.9	100
105	0.0257	427.2	1.7560	0.9796	1.0968	157.8		0.0243	427.0	1.7520	0.9831	1.0978	157.2	105
110	0.0261	432.1	1.7689	0.9834	1.0941	159.1		0.0247	431.9	1.7649	0.9867	1.0950	158.5	110
115	0.0265	437.1	1.7816	0.9872	1.0916	160.3		0.0251	436.8	1.7777	0.9904	1.0924	159.8	115
120	0.0269	442.0	1.7943	0.9912	1.0893	161.5		0.0255	441.8	1.7904	0.9942	1.0899	161.0	120
125	0.0273	447.0	1.8069	0.9952	1.0871	162.7		0.0258	446.8	1.8030	0.9981	1.0877	162.2	125
130	0.0277	452.0	1.8193	0.9993	1.0851	163.8		0.0262	451.8	1.8155	1.0020	1.0856	163.3	130
135	0.0281	457.0	1.8316	1.0034	1.0832	165.0		0.0266	456.8	1.8279	1.0060	1.0836	164.5	135
140	0.0284	462.0	1.8439	1.0076	1.0815	166.1		0.0269	461.8	1.8402	1.0100	1.0818	165.6	140
145	0.0288	467.0	1.8560	1.0118	1.0799	167.2		0.0273	466.9	1.8523	1.0141	1.0801	166.7	145
150	0.0292	472.1	1.8681	1.0160	1.0783	168.3		0.0277	472.0	1.8644	1.0182	1.0785	167.8	150
155	0.0296	477.2	1.8800	1.0202	1.0769	169.3		0.0280	477.1	1.8764	1.0223	1.0770	168.8	155
160	0.0300	482.3	1.8919	1.0245	1.0756	170.4		0.0284	482.2	1.8883	1.0264	1.0756	169.9	160
165	0.0303	487.4	1.9037	1.0287	1.0743	171.4		0.0287	487.3	1.9001	1.0305	1.0743	170.9	165

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 1100.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 1200.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
16.56	0.0008	221.4	1.0749	1.3433	1.7070	384.8		0.0008	225.7	1.0892	1.3661	1.7155	366.9	19.73
16.56	0.0141	339.4	1.4821	1.0338	1.3065	120.8		0.0128	340.6	1.4815	1.0704	1.3282	119.5	19.73
20	0.0145	342.9	1.4942	1.0199	1.2808	123.1		0.0129	340.9	1.4825	1.0688	1.3256	119.7	20
25	0.0151	348.0	1.5113	1.0049	1.2508	126.1		0.0134	346.1	1.5004	1.0440	1.2845	123.1	25
30	0.0156	353.0	1.5279	0.9942	1.2270	128.9		0.0140	351.3	1.5176	1.0266	1.2532	126.2	30
35	0.0161	357.9	1.5441	0.9866	1.2076	131.5		0.0145	356.4	1.5343	1.0141	1.2285	129.0	35
40	0.0166	362.8	1.5600	0.9813	1.1914	133.9		0.0149	361.5	1.5505	1.0051	1.2084	131.6	40
45	0.0171	367.7	1.5755	0.9777	1.1778	136.1		0.0154	366.5	1.5664	0.9985	1.1918	134.0	45
50	0.0176	372.6	1.5907	0.9754	1.1661	138.2		0.0158	371.4	1.5819	0.9939	1.1778	136.3	50
55	0.0180	377.5	1.6057	0.9741	1.1560	140.2		0.0162	376.4	1.5971	0.9907	1.1659	138.4	55
60	0.0184	382.4	1.6204	0.9736	1.1471	142.1		0.0167	381.4	1.6121	0.9887	1.1555	140.4	60
65	0.0189	387.2	1.6349	0.9739	1.1394	143.9		0.0171	386.3	1.6268	0.9876	1.1465	142.3	65
70	0.0193	392.1	1.6492	0.9747	1.1325	145.6		0.0174	391.2	1.6413	0.9873	1.1386	144.1	70
75	0.0197	397.0	1.6633	0.9760	1.1263	147.3		0.0178	396.2	1.6556	0.9875	1.1316	145.9	75
80	0.0201	401.9	1.6772	0.9777	1.1207	148.9		0.0182	401.1	1.6697	0.9884	1.1253	147.5	80
85	0.0204	406.7	1.6910	0.9798	1.1157	150.4		0.0186	406.0	1.6836	0.9896	1.1197	149.1	85
90	0.0208	411.7	1.7046	0.9821	1.1112	151.9		0.0189	411.0	1.6973	0.9913	1.1147	150.7	90
95	0.0212	416.6	1.7180	0.9847	1.1071	153.3		0.0193	416.0	1.7109	0.9932	1.1101	152.1	95
100	0.0216	421.5	1.7313	0.9875	1.1034	154.7		0.0196	420.9	1.7243	0.9955	1.1059	153.6	100
105	0.0219	426.4	1.7445	0.9905	1.0999	156.1		0.0199	425.9	1.7376	0.9979	1.1022	154.9	105
110	0.0223	431.4	1.7575	0.9936	1.0968	157.4		0.0203	430.9	1.7507	1.0006	1.0987	156.3	110
115	0.0226	436.4	1.7704	0.9969	1.0939	158.7		0.0206	435.9	1.7637	1.0035	1.0955	157.6	115
120	0.0230	441.4	1.7832	1.0003	1.0912	159.9		0.0209	440.9	1.7766	1.0065	1.0926	158.9	120
125	0.0233	446.4	1.7959	1.0038	1.0888	161.1		0.0212	446.0	1.7893	1.0096	1.0899	160.1	125
130	0.0237	451.4	1.8084	1.0074	1.0865	162.3		0.0215	451.0	1.8019	1.0129	1.0875	161.3	130
135	0.0240	456.5	1.8209	1.0111	1.0844	163.5		0.0219	456.1	1.8144	1.0163	1.0852	162.5	135
140	0.0243	461.5	1.8332	1.0148	1.0824	164.6		0.0222	461.2	1.8268	1.0197	1.0831	163.6	140
145	0.0247	466.6	1.8454	1.0186	1.0806	165.7		0.0225	466.3	1.8391	1.0233	1.0811	164.7	145
150	0.0250	471.7	1.8576	1.0225	1.0789	166.8		0.0228	471.4	1.8513	1.0269	1.0793	165.8	150
155	0.0253	476.8	1.8696	1.0264	1.0773	167.9		0.0231	476.6	1.8634	1.0305	1.0776	166.9	155
160	0.0256	482.0	1.8815	1.0303	1.0758	168.9		0.0234	481.7	1.8754	1.0342	1.0760	168.0	160
165	0.0260	487.1	1.8934	1.0342	1.0744	170.0		0.0237	486.9	1.8873	1.0379	1.0745	169.0	165
170	0.0263	492.3	1.9051	1.0382	1.0731	171.0		0.0240	492.1	1.8991	1.0417	1.0731	170.0	170

TEMP °C	PRESSURE = 1300.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 1400.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
22.70	0.0008	229.7	1.1027	1.3904	1.7255	350.2		0.0008	233.6	1.1155	1.4162	1.7372	334.5	25.51
22.70	0.0118	341.6	1.4809	1.1088	1.3516	118.1		0.0108	342.6	1.4803	1.1492	1.3768	116.8	25.51
25	0.0120	344.1	1.4895	1.0924	1.3273	119.9		—	—	—	—	—	—	25
30	0.0125	349.5	1.5074	1.0651	1.2853	123.4		0.0113	347.6	1.4972	1.1120	1.3254	120.3	30
35	0.0130	354.8	1.5246	1.0458	1.2533	126.5		0.0118	353.1	1.5151	1.0831	1.2833	123.7	35
40	0.0135	360.0	1.5414	1.0319	1.2282	129.3		0.0122	358.5	1.5324	1.0626	1.2514	126.8	40
45	0.0139	365.1	1.5576	1.0217	1.2078	131.9		0.0127	363.8	1.5491	1.0476	1.2263	129.7	45
50	0.0144	370.2	1.5735	1.0142	1.1910	134.3		0.0131	369.0	1.5653	1.0365	1.2059	132.3	50
55	0.0148	375.3	1.5890	1.0087	1.1768	136.6		0.0135	374.1	1.5812	1.0283	1.1891	134.7	55
60	0.0152	380.3	1.6042	1.0048	1.1648	138.7		0.0139	379.2	1.5967	1.0221	1.1749	136.9	60
65	0.0155	385.3	1.6192	1.0021	1.1543	140.7		0.0142	384.3	1.6119	1.0176	1.1629	139.1	65
70	0.0159	390.3	1.6339	1.0005	1.1453	142.6		0.0146	389.4	1.6268	1.0145	1.1525	141.1	70
75	0.0163	395.3	1.6483	0.9996	1.1373	144.4		0.0149	394.5	1.6415	1.0124	1.1434	142.9	75
80	0.0166	400.3	1.6626	0.9995	1.1302	146.1		0.0153	399.6	1.6559	1.0111	1.1355	144.7	80
85	0.0170	405.3	1.6767	0.9999	1.1239	147.8		0.0156	404.6	1.6701	1.0106	1.1284	146.5	85
90	0.0173	410.3	1.6905	1.0008	1.1183	149.4		0.0159	409.7	1.6841	1.0106	1.1222	148.1	90
95	0.0176	415.3	1.7042	1.0021	1.1132	150.9		0.0162	414.7	1.6979	1.0112	1.1166	149.7	95
100	0.0179	420.4	1.7178	1.0037	1.1086	152.4		0.0165	419.8	1.7116	1.0122	1.1115	151.2	100
105	0.0182	425.4	1.7311	1.0056	1.1045	153.8		0.0168	424.8	1.7250	1.0135	1.1070	152.6	105
110	0.0186	430.4	1.7443	1.0078	1.1007	155.2		0.0171	429.9	1.7384	1.0152	1.1028	154.0	110
115	0.0189	435.5	1.7574	1.0102	1.0973	156.5		0.0174	435.0	1.7516	1.0171	1.0991	155.4	115
120	0.0192	440.5	1.7704	1.0128	1.0941	157.8		0.0177	440.1	1.7646	1.0193	1.0956	156.7	120
125	0.0195	445.6	1.7832	1.0156	1.0912	159.0		0.0179	445.2	1.7775	1.0217	1.0925	158.0	125
130	0.0198	450.7	1.7959	1.0185	1.0885	160.3		0.0182	450.3	1.7902	1.0242	1.0896	159.2	130
135	0.0200	455.8	1.8085	1.0216	1.0860	161.5		0.0185	455.4	1.8029	1.0269	1.0870	160.5	135
140	0.0203	460.9	1.8209	1.0247	1.0838	162.6		0.0188	460.6	1.8154	1.0298	1.0845	161.6	140
145	0.0206	466.0	1.8333	1.0280	1.0817	163.8		0.0190	465.7	1.8278	1.0327	1.0822	162.8	145
150	0.0209	471.2	1.8455	1.0313	1.0797	164.9		0.0193	470.9	1.8401	1.0358	1.0802	163.9	150
155	0.0212	476.3	1.8576	1.0347	1.0779	166.0		0.0195	476.1	1.8523	1.0389	1.0782	165.0	155
160	0.0214	481.5	1.8697	1.0381	1.0762	167.0		0.0198	481.3	1.8644	1.0421	1.0764	166.1	160
165	0.0217	486.7	1.8816	1.0416	1.0746	168.1		0.0201	486.5	1.8763	1.0454	1.0747	167.1	165
170	0.0220	491.9	1.8934	1.0452	1.0731	169.1		0.0203	491.7	1.8882	1.0488	1.0732	168.2	170
175	0.0223	497.2	1.9052	1.0488	1.0717	170.1		0.0206	497.0	1.9000	1.0521	1.0717	169.2	175
180	—	—	—	—	—	—		0.0208	502.3	1.9117	1.0556	1.0703	170.2	180

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 1500.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 1600.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
28.17	0.0009	237.4	1.1277	1.4439	1.7508	319.6		0.0009	241.0	1.1394	1.4737	1.7665	305.6	30.71
28.17	0.0100	343.4	1.4797	1.1920	1.4043	115.3		0.0093	344.2	1.4790	1.2377	1.4343	113.9	30.71
30	0.0102	345.6	1.4868	1.1711	1.3774	116.9		—	—	—	—	—	—	30
35	0.0107	351.3	1.5056	1.1279	1.3204	120.8		0.0097	349.3	1.4959	1.1833	1.3674	117.7	35
40	0.0111	356.9	1.5235	1.0983	1.2791	124.2		0.0102	355.1	1.5146	1.1405	1.3128	121.5	40
45	0.0116	362.3	1.5407	1.0770	1.2477	127.3		0.0106	360.8	1.5324	1.1108	1.2730	124.9	45
50	0.0120	367.6	1.5574	1.0614	1.2229	130.1		0.0110	366.3	1.5496	1.0893	1.2425	127.9	50
55	0.0124	372.9	1.5736	1.0497	1.2029	132.7		0.0114	371.7	1.5661	1.0733	1.2185	130.7	55
60	0.0127	378.1	1.5894	1.0408	1.1862	135.1		0.0117	377.0	1.5823	1.0613	1.1989	133.3	60
65	0.0131	383.3	1.6049	1.0342	1.1723	137.4		0.0121	382.3	1.5980	1.0521	1.1827	135.6	65
70	0.0134	388.5	1.6200	1.0293	1.1604	139.5		0.0124	387.5	1.6134	1.0452	1.1690	137.8	70
75	0.0138	393.6	1.6349	1.0258	1.1501	141.4		0.0127	392.7	1.6285	1.0400	1.1573	139.9	75
80	0.0141	398.8	1.6495	1.0233	1.1411	143.3		0.0130	397.9	1.6433	1.0361	1.1472	141.9	80
85	0.0144	403.9	1.6638	1.0217	1.1332	145.1		0.0133	403.1	1.6579	1.0334	1.1384	143.7	85
90	0.0147	409.0	1.6780	1.0209	1.1263	146.8		0.0136	408.3	1.6722	1.0315	1.1307	145.5	90
95	0.0150	414.1	1.6919	1.0206	1.1201	148.4		0.0139	413.4	1.6863	1.0304	1.1239	147.2	95
100	0.0153	419.2	1.7057	1.0209	1.1146	150.0		0.0142	418.6	1.7002	1.0299	1.1178	148.8	100
105	0.0156	424.3	1.7193	1.0216	1.1096	151.5		0.0145	423.7	1.7139	1.0300	1.1123	150.3	105
110	0.0158	429.4	1.7327	1.0227	1.1051	152.9		0.0147	428.9	1.7274	1.0305	1.1074	151.8	110
115	0.0161	434.5	1.7460	1.0242	1.1010	154.3		0.0150	434.0	1.7408	1.0314	1.1030	153.2	115
120	0.0164	439.6	1.7591	1.0259	1.0973	155.7		0.0152	439.2	1.7540	1.0326	1.0990	154.6	120
125	0.0166	444.8	1.7721	1.0278	1.0939	157.0		0.0155	444.4	1.7670	1.0342	1.0953	155.9	125
130	0.0169	449.9	1.7849	1.0300	1.0908	158.2		0.0157	449.5	1.7799	1.0359	1.0920	157.2	130
135	0.0171	455.1	1.7977	1.0324	1.0879	159.5		0.0160	454.7	1.7927	1.0379	1.0889	158.5	135
140	0.0174	460.2	1.8102	1.0349	1.0853	160.7		0.0162	459.9	1.8054	1.0401	1.0861	159.7	140
145	0.0176	465.4	1.8227	1.0376	1.0829	161.8		0.0164	465.1	1.8179	1.0425	1.0836	160.9	145
150	0.0179	470.6	1.8351	1.0403	1.0807	163.0		0.0167	470.3	1.8303	1.0449	1.0812	162.0	150
155	0.0181	475.8	1.8473	1.0432	1.0786	164.1		0.0169	475.6	1.8426	1.0476	1.0790	163.1	155
160	0.0184	481.0	1.8594	1.0462	1.0767	165.2		0.0171	480.8	1.8548	1.0503	1.0770	164.2	160
165	0.0186	486.3	1.8714	1.0493	1.0749	166.2		0.0173	486.1	1.8669	1.0531	1.0751	165.3	165
170	0.0188	491.5	1.8834	1.0524	1.0732	167.3		0.0176	491.3	1.8788	1.0560	1.0733	166.3	170
175	0.0191	496.8	1.8952	1.0556	1.0717	168.3		0.0178	496.6	1.8907	1.0590	1.0717	167.4	175
180	0.0193	502.1	1.9069	1.0588	1.0703	169.3		0.0180	501.9	1.9024	1.0620	1.0702	168.4	180
185	—	—	—	—	—	—		0.0182	507.2	1.9141	1.0651	1.0688	169.4	185

TEMP °C	PRESSURE = 1700.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 1800.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
33.12	0.0009	244.5	1.1507	1.5059	1.7846	292.2		0.0009	247.9	1.1615	1.5409	1.8053	279.3	35.44
33.12	0.0086	344.8	1.4782	1.2869	1.4673	112.4		0.0080	345.4	1.4773	1.3401	1.5038	110.8	35.44
35	0.0088	347.2	1.4859	1.2545	1.4295	114.2		—	—	—	—	—	—	35
40	0.0093	353.3	1.5056	1.1918	1.3548	118.5		0.0085	351.3	1.4963	1.2558	1.4086	115.3	40
45	0.0097	359.1	1.5241	1.1502	1.3033	122.3		0.0089	357.4	1.5157	1.1971	1.3403	119.5	45
50	0.0101	364.8	1.5418	1.1209	1.2654	125.6		0.0094	363.3	1.5341	1.1574	1.2924	123.2	50
55	0.0105	370.4	1.5588	1.0996	1.2363	128.6		0.0097	369.0	1.5516	1.1292	1.2568	126.4	55
60	0.0109	375.8	1.5753	1.0836	1.2130	131.3		0.0101	374.6	1.5685	1.1082	1.2291	129.3	60
65	0.0112	381.2	1.5914	1.0714	1.1941	133.8		0.0104	380.1	1.5849	1.0925	1.2070	132.0	65
70	0.0115	386.5	1.6071	1.0621	1.1784	136.2		0.0107	385.5	1.6008	1.0804	1.1888	134.5	70
75	0.0118	391.8	1.6224	1.0551	1.1651	138.3		0.0110	390.9	1.6164	1.0711	1.1737	136.8	75
80	0.0121	397.1	1.6374	1.0496	1.1538	140.4		0.0113	396.2	1.6316	1.0639	1.1609	138.9	80
85	0.0124	402.3	1.6521	1.0456	1.1440	142.3		0.0116	401.5	1.6465	1.0584	1.1499	140.9	85
90	0.0127	407.5	1.6666	1.0426	1.1354	144.2		0.0119	406.8	1.6612	1.0542	1.1404	142.8	90
95	0.0130	412.8	1.6808	1.0406	1.1279	145.9		0.0121	412.1	1.6756	1.0511	1.1321	144.6	95
100	0.0132	418.0	1.6948	1.0393	1.1212	147.6		0.0124	417.3	1.6897	1.0489	1.1248	146.3	100
105	0.0135	423.2	1.7087	1.0386	1.1152	149.1		0.0126	422.6	1.7037	1.0475	1.1183	148.0	105
110	0.0137	428.3	1.7223	1.0385	1.1099	150.7		0.0129	427.8	1.7174	1.0467	1.1125	149.5	110
115	0.0140	433.5	1.7358	1.0388	1.1051	152.1		0.0131	433.0	1.7310	1.0464	1.1074	151.0	115
120	0.0142	438.7	1.7491	1.0395	1.1008	153.5		0.0133	438.3	1.7444	1.0466	1.1027	152.5	120
125	0.0145	443.9	1.7622	1.0406	1.0969	154.9		0.0136	443.5	1.7576	1.0472	1.0985	153.9	125
130	0.0147	449.1	1.7752	1.0420	1.0933	156.2		0.0138	448.7	1.7707	1.0481	1.0946	155.2	130
135	0.0149	454.4	1.7881	1.0436	1.0900	157.5		0.0140	454.0	1.7836	1.0493	1.0912	156.5	135
140	0.0151	459.6	1.8008	1.0454	1.0870	158.7		0.0142	459.2	1.7964	1.0508	1.0880	157.7	140
145	0.0154	464.8	1.8134	1.0474	1.0843	159.9		0.0144	464.5	1.8091	1.0525	1.0851	159.0	145
150	0.0156	470.0	1.8258	1.0496	1.0818	161.1		0.0146	469.8	1.8216	1.0544	1.0824	160.1	150
155	0.0158	475.3	1.8382	1.0520	1.0794	162.2		0.0148	475.0	1.8340	1.0564	1.0799	161.3	155
160	0.0160	480.6	1.8504	1.0545	1.0773	163.3		0.0150	480.3	1.8463	1.0587	1.0776	162.4	160
165	0.0162	485.8	1.8625	1.0570	1.0753	164.4		0.0152	485.6	1.8584	1.0610	1.0756	163.5	165
170	0.0164	491.1	1.8745	1.0597	1.0735	165.4		0.0154	490.9	1.8705	1.0635	1.0736	164.5	170
175	0.0167	496.4	1.8864	1.0625	1.0718	166.5		0.0156	496.3	1.8824	1.0660	1.0718	165.6	175
180	0.0169	501.8	1.8982	1.0653	1.0702	167.5		0.0158	501.6	1.8943	1.0687	1.0701	166.6	180
185	0.0171	507.1	1.9099	1.0682	1.0687	168.5		0.0160	506.9	1.9060	1.0714	1.0686	167.6	185
190	—	—	—	—	—	—		0.0162	512.3	1.9177	1.0741	1.0672	168.6	190

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 1900.00 kPa (abs)							PRESSURE = 2000.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
37.66	0.0009	251.3	1.1720	1.5792	1.8292	267.0	SAT LIQ SAT VAP	0.0009	254.5	1.1822	1.6212	1.8567	255.0	39.79
37.66	0.0075	345.9	1.4764	1.3983	1.5446	109.3		0.0070	346.3	1.4753	1.4623	1.5905	107.6	39.79
40	0.0078	349.1	1.4866	1.3393	1.4806	111.8		0.0071	346.6	1.4763	1.4548	1.5827	107.9	40
45	0.0082	355.5	1.5071	1.2543	1.3866	116.6		0.0076	353.5	1.4982	1.3264	1.4464	113.4	45
50	0.0086	361.7	1.5262	1.2000	1.3247	120.6		0.0080	359.9	1.5183	1.2508	1.3643	117.8	50
55	0.0090	367.6	1.5444	1.1627	1.2806	124.1		0.0084	366.0	1.5371	1.2011	1.3087	121.7	55
60	0.0094	373.3	1.5617	1.1356	1.2473	127.3		0.0087	372.0	1.5550	1.1663	1.2683	125.1	60
65	0.0097	378.9	1.5785	1.1154	1.2213	130.1		0.0090	377.7	1.5721	1.1406	1.2375	128.2	65
70	0.0100	384.5	1.5947	1.1000	1.2003	132.7		0.0094	383.4	1.5887	1.1214	1.2131	130.9	70
75	0.0103	389.9	1.6106	1.0882	1.1831	135.1		0.0096	388.9	1.6048	1.1066	1.1934	133.5	75
80	0.0106	395.3	1.6260	1.0790	1.1687	137.4		0.0099	394.4	1.6205	1.0950	1.1771	135.9	80
85	0.0109	400.7	1.6411	1.0719	1.1564	139.5		0.0102	399.9	1.6359	1.0861	1.1633	138.0	85
90	0.0111	406.1	1.6560	1.0663	1.1458	141.5		0.0104	405.3	1.6509	1.0790	1.1516	140.1	90
95	0.0114	411.4	1.6705	1.0621	1.1367	143.3		0.0107	410.7	1.6656	1.0735	1.1416	142.0	95
100	0.0116	416.7	1.6848	1.0589	1.1287	145.1		0.0109	416.0	1.6800	1.0693	1.1328	143.9	100
105	0.0119	422.0	1.6989	1.0567	1.1216	146.8		0.0112	421.4	1.6943	1.0662	1.1251	145.6	105
110	0.0121	427.3	1.7128	1.0551	1.1153	148.4		0.0114	426.7	1.7082	1.0638	1.1183	147.3	110
115	0.0123	432.5	1.7264	1.0542	1.1097	149.9		0.0116	432.0	1.7220	1.0622	1.1122	148.8	115
120	0.0125	437.8	1.7399	1.0538	1.1047	151.4		0.0118	437.3	1.7356	1.0613	1.1068	150.3	120
125	0.0128	443.1	1.7532	1.0539	1.1002	152.8		0.0120	442.6	1.7490	1.0608	1.1020	151.8	125
130	0.0130	448.3	1.7664	1.0544	1.0961	154.2		0.0122	447.9	1.7623	1.0608	1.0976	153.2	130
135	0.0132	453.6	1.7794	1.0552	1.0924	155.5		0.0124	453.2	1.7753	1.0611	1.0936	154.5	135
140	0.0134	458.9	1.7922	1.0563	1.0890	156.8		0.0126	458.6	1.7883	1.0618	1.0900	155.8	140
145	0.0136	464.2	1.8050	1.0576	1.0859	158.0		0.0128	463.9	1.8010	1.0628	1.0867	157.1	145
150	0.0138	469.5	1.8175	1.0592	1.0830	159.2		0.0130	469.2	1.8137	1.0641	1.0837	158.3	150
155	0.0140	474.8	1.8300	1.0610	1.0804	160.4		0.0132	474.5	1.8262	1.0656	1.0810	159.5	155
160	0.0142	480.1	1.8423	1.0629	1.0780	161.5		0.0134	479.8	1.8386	1.0672	1.0785	160.6	160
165	0.0144	485.4	1.8545	1.0650	1.0758	162.6		0.0136	485.2	1.8508	1.0691	1.0761	161.7	165
170	0.0145	490.7	1.8666	1.0672	1.0738	163.7		0.0137	490.5	1.8630	1.0711	1.0740	162.8	170
175	0.0147	496.1	1.8786	1.0696	1.0719	164.7		0.0139	495.9	1.8750	1.0732	1.0720	163.8	175
180	0.0149	501.4	1.8905	1.0720	1.0702	165.7		0.0141	501.3	1.8869	1.0754	1.0702	164.9	180
185	0.0151	506.8	1.9023	1.0745	1.0685	166.7		0.0143	506.6	1.8987	1.0777	1.0685	165.9	185
190	0.0153	512.2	1.9140	1.0771	1.0670	167.7		0.0144	512.0	1.9104	1.0802	1.0669	166.9	190

TEMP °C	PRESSURE = 2200.00 kPa (abs)							PRESSURE = 2400.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
43.82	0.0009	260.9	1.2019	1.7197	1.9250	232.2	SAT LIQ SAT VAP	0.0010	267.2	1.2208	1.8449	2.0179	210.5	47.57
43.82	0.0062	346.8	1.4729	1.6133	1.7019	104.3		0.0055	347.0	1.4698	1.8078	1.8503	100.9	47.57
45	0.0063	348.7	1.4788	1.5539	1.6423	106.0		—	—	—	—	—	—	45
50	0.0068	356.0	1.5016	1.3912	1.4776	111.8		0.0058	351.2	1.4828	1.6386	1.6867	104.6	50
55	0.0072	362.7	1.5222	1.2997	1.3833	116.5		0.0062	358.8	1.5063	1.4466	1.4998	110.7	55
60	0.0076	369.0	1.5414	1.2408	1.3212	120.6		0.0066	365.8	1.5273	1.3418	1.3962	115.6	60
65	0.0079	375.1	1.5595	1.1999	1.2768	124.1		0.0070	372.3	1.5467	1.2753	1.3293	119.7	65
70	0.0082	381.1	1.5769	1.1700	1.2434	127.2		0.0073	378.6	1.5651	1.2294	1.2821	123.3	70
75	0.0085	386.9	1.5937	1.1476	1.2173	130.1		0.0075	384.6	1.5827	1.1961	1.2469	126.5	75
80	0.0088	392.6	1.6099	1.1304	1.1963	132.7		0.0078	390.5	1.5995	1.1711	1.2195	129.4	80
85	0.0090	398.2	1.6257	1.1169	1.1790	135.1		0.0081	396.3	1.6158	1.1518	1.1976	132.1	85
90	0.0093	403.7	1.6411	1.1063	1.1646	137.3		0.0083	402.1	1.6317	1.1367	1.1797	134.5	90
95	0.0095	409.2	1.6562	1.0980	1.1523	139.4		0.0085	407.7	1.6472	1.1247	1.1647	136.8	95
100	0.0097	414.7	1.6709	1.0913	1.1418	141.4		0.0087	413.3	1.6623	1.1152	1.1521	138.9	100
105	0.0100	420.2	1.6854	1.0861	1.1327	143.2		0.0090	418.9	1.6771	1.1075	1.1413	140.9	105
110	0.0102	425.6	1.6997	1.0820	1.1247	145.0		0.0092	424.4	1.6916	1.1015	1.1319	142.7	110
115	0.0104	431.0	1.7137	1.0789	1.1177	146.7		0.0093	429.9	1.7058	1.0966	1.1237	144.5	115
120	0.0106	436.4	1.7275	1.0766	1.1114	148.2		0.0095	435.4	1.7198	1.0928	1.1166	146.1	120
125	0.0108	441.7	1.7411	1.0750	1.1059	149.8		0.0097	440.8	1.7336	1.0899	1.1102	147.7	125
130	0.0110	447.1	1.7545	1.0740	1.1009	151.2		0.0099	446.3	1.7472	1.0877	1.1045	149.2	130
135	0.0111	452.5	1.7677	1.0734	1.0964	152.6		0.0101	451.7	1.7606	1.0862	1.0995	150.7	135
140	0.0113	457.8	1.7808	1.0733	1.0923	153.9		0.0102	457.1	1.7738	1.0851	1.0949	152.1	140
145	0.0115	463.2	1.7937	1.0735	1.0886	155.2		0.0104	462.5	1.7869	1.0846	1.0908	153.4	145
150	0.0117	468.6	1.8065	1.0741	1.0853	156.5		0.0106	468.0	1.7998	1.0844	1.0870	154.7	150
155	0.0118	474.0	1.8191	1.0749	1.0822	157.7		0.0107	473.4	1.8125	1.0846	1.0837	155.9	155
160	0.0120	479.3	1.8316	1.0760	1.0794	158.8		0.0109	478.8	1.8251	1.0851	1.0806	157.1	160
165	0.0122	484.7	1.8439	1.0773	1.0769	160.0		0.0110	484.2	1.8376	1.0858	1.0777	158.3	165
170	0.0124	490.1	1.8562	1.0788	1.0745	161.1		0.0112	489.7	1.8499	1.0868	1.0752	159.4	170
175	0.0125	495.5	1.8683	1.0805	1.0723	162.1		0.0113	495.1	1.8621	1.0880	1.0728	160.5	175
180	0.0127	500.9	1.8803	1.0823	1.0703	163.2		0.0115	500.6	1.8742	1.0893	1.0706	161.5	180
185	0.0128	506.3	1.8921	1.0842	1.0685	164.2		0.0116	506.0	1.8861	1.0909	1.0686	162.6	185
190	0.0130	511.8	1.9039	1.0863	1.0668	165.2		0.0118	511.5	1.8980	1.0925	1.0667	163.6	190
195	0.0131	517.2	1.9156	1.0884	1.0652	166.1		0.0119	516.9	1.9097	1.0943	1.0650	164.5	195
200	—	—	—	—	—	—		0.0121	522.4	1.9213	1.0962	1.0634	165.5	200

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

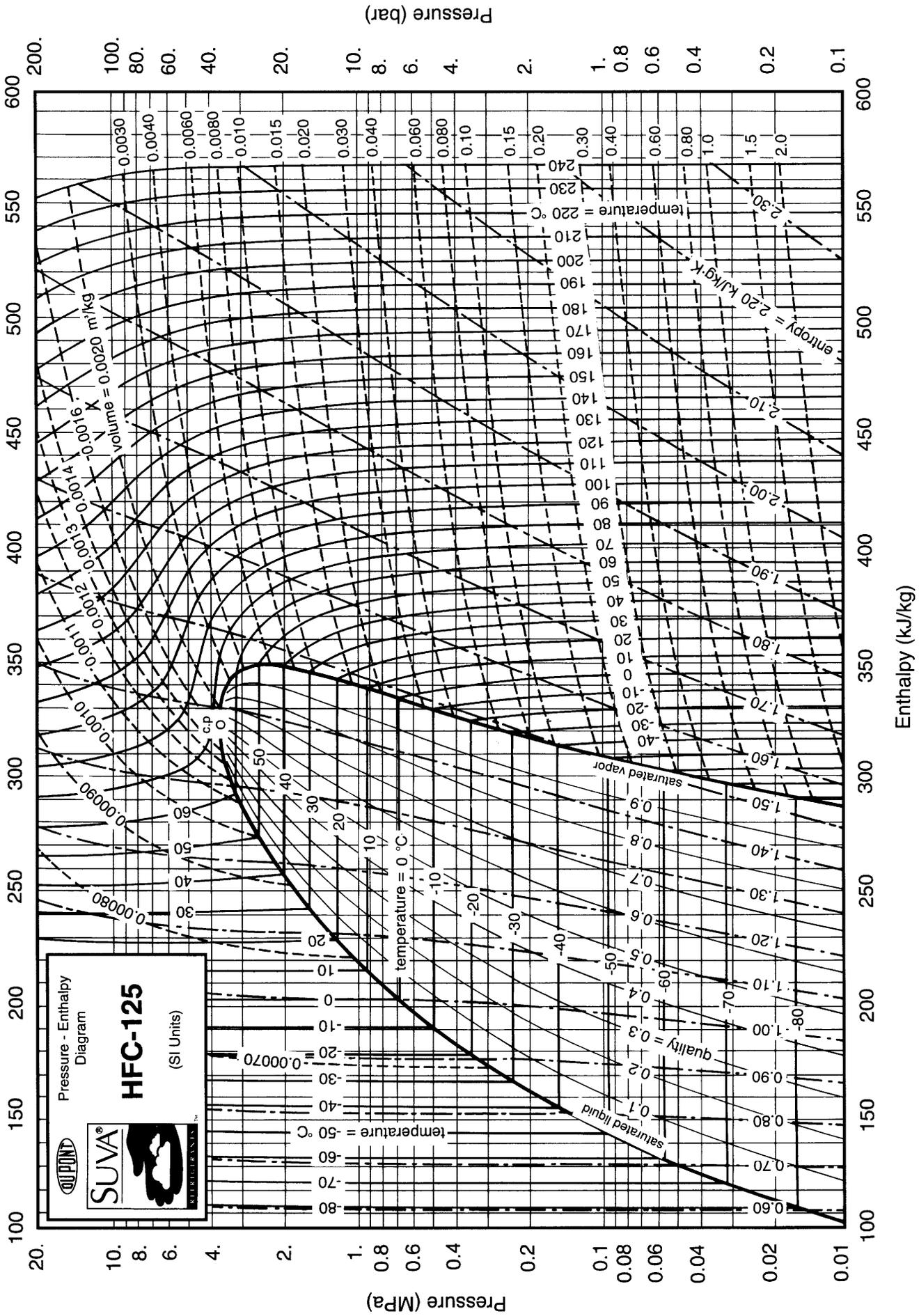
TEMP °C	PRESSURE = 2600.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 2800.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
51.09	0.0010	273.3	1.2393	2.0117	2.1488	189.6	SAT LIQ SAT VAP	0.0010	279.4	1.2575	2.2501	2.3445	169.1	54.40
51.09	0.0049	346.8	1.4660	2.0718	2.0576	97.4		0.0043	346.2	1.4612	2.4554	2.3660	93.7	54.40
55	0.0053	354.1	1.4883	1.7008	1.7099	103.8		0.0044	347.6	1.4656	2.3079	2.2315	95.1	55
60	0.0057	362.0	1.5122	1.4898	1.5110	110.0		0.0049	357.4	1.4953	1.7363	1.7098	103.7	60
65	0.0061	369.1	1.5335	1.3758	1.4024	115.0		0.0054	365.5	1.5194	1.5193	1.5109	109.8	65
70	0.0064	375.8	1.5532	1.3040	1.3329	119.2		0.0057	372.8	1.5407	1.4015	1.4021	114.8	70
75	0.0067	382.2	1.5716	1.2545	1.2841	122.8		0.0060	379.6	1.5604	1.3267	1.3321	118.9	75
80	0.0070	388.4	1.5893	1.2186	1.2478	126.1		0.0063	386.1	1.5790	1.2751	1.2830	122.6	80
85	0.0072	394.4	1.6062	1.1915	1.2198	129.0		0.0065	392.4	1.5968	1.2375	1.2465	125.8	85
90	0.0075	400.3	1.6226	1.1706	1.1974	131.7		0.0068	398.5	1.6136	1.2090	1.2182	128.7	90
95	0.0077	406.1	1.6385	1.1542	1.1791	134.1		0.0070	404.5	1.6299	1.1870	1.1957	131.4	95
100	0.0079	411.9	1.6539	1.1412	1.1639	136.4		0.0072	410.4	1.6458	1.1696	1.1773	133.8	100
105	0.0081	417.5	1.6690	1.1307	1.1510	138.5		0.0074	416.2	1.6613	1.1557	1.1621	136.1	105
110	0.0083	423.2	1.6838	1.1222	1.1400	140.5		0.0076	421.9	1.6764	1.1445	1.1492	138.2	110
115	0.0085	428.8	1.6983	1.1154	1.1305	142.3		0.0077	427.6	1.6912	1.1354	1.1381	140.2	115
120	0.0087	434.3	1.7126	1.1099	1.1223	144.1		0.0079	433.3	1.7057	1.1280	1.1286	142.0	120
125	0.0088	439.9	1.7266	1.1056	1.1150	145.7		0.0081	438.9	1.7199	1.1220	1.1203	143.8	125
130	0.0090	445.4	1.7404	1.1021	1.1086	147.3		0.0082	444.5	1.7339	1.1172	1.1131	145.4	130
135	0.0092	450.9	1.7539	1.0995	1.1029	148.8		0.0084	450.1	1.7476	1.1133	1.1066	147.0	135
140	0.0093	456.4	1.7673	1.0974	1.0978	150.3		0.0085	455.6	1.7611	1.1102	1.1009	148.5	140
145	0.0095	461.9	1.7805	1.0960	1.0932	151.6		0.0087	461.2	1.7745	1.1078	1.0958	149.9	145
150	0.0096	467.3	1.7935	1.0950	1.0890	153.0		0.0088	466.7	1.7876	1.1060	1.0912	151.3	150
155	0.0098	472.8	1.8064	1.0945	1.0853	154.2		0.0090	472.2	1.8006	1.1047	1.0871	152.6	155
160	0.0099	478.3	1.8191	1.0943	1.0819	155.4		0.0091	477.8	1.8135	1.1039	1.0834	153.8	160
165	0.0101	483.8	1.8316	1.0945	1.0788	156.6		0.0092	483.3	1.8261	1.1034	1.0800	155.1	165
170	0.0102	489.2	1.8441	1.0949	1.0759	157.8		0.0094	488.8	1.8386	1.1033	1.0769	156.2	170
175	0.0104	494.7	1.8564	1.0956	1.0734	158.9		0.0095	494.3	1.8510	1.1035	1.0741	157.3	175
180	0.0105	500.2	1.8685	1.0965	1.0710	160.0		0.0096	499.8	1.8633	1.1039	1.0715	158.4	180
185	0.0106	505.7	1.8806	1.0976	1.0688	161.0		0.0098	505.3	1.8754	1.1045	1.0691	159.5	185
190	0.0108	511.2	1.8925	1.0989	1.0668	162.0		0.0099	510.9	1.8874	1.1054	1.0669	160.5	190
195	0.0109	516.7	1.9043	1.1003	1.0649	163.0		0.0100	516.4	1.8992	1.1064	1.0649	161.5	195
200	0.0110	522.2	1.9160	1.1018	1.0632	163.9		0.0101	521.9	1.9110	1.1076	1.0631	162.5	200
205	0.0111	527.7	1.9276	1.1035	1.0616	164.9		0.0102	527.5	1.9227	1.1089	1.0614	163.4	205

TEMP °C	PRESSURE = 3000.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 3200.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
57.51	0.0011	285.7	1.2759	2.6284	2.6669	148.6	SAT LIQ SAT VAP	0.0012	292.3	1.2952	3.3474	3.2972	127.9	60.45
57.51	0.0038	344.9	1.4550	3.0714	2.8704	90.0		0.0033	342.8	1.4466	4.2401	3.8410	86.1	60.45
60	0.0042	351.4	1.4745	2.2659	2.1524	95.9		—	—	—	—	—	60	
65	0.0047	361.2	1.5036	1.7471	1.6899	104.0		0.0040	355.7	1.4849	2.1792	2.0404	97.3	65
70	0.0050	369.3	1.5276	1.5362	1.5014	110.0		0.0044	365.3	1.5131	1.7374	1.6549	104.8	70
75	0.0054	376.7	1.5489	1.4190	1.3958	114.9		0.0048	373.5	1.5366	1.5418	1.4839	110.6	75
80	0.0056	383.6	1.5685	1.3437	1.3274	119.0		0.0051	380.9	1.5578	1.4291	1.3848	115.3	80
85	0.0059	390.2	1.5870	1.2913	1.2791	122.6		0.0053	387.8	1.5773	1.3554	1.3195	119.3	85
90	0.0061	396.5	1.6047	1.2529	1.2431	125.8		0.0056	394.4	1.5957	1.3035	1.2730	122.8	90
95	0.0063	402.7	1.6216	1.2237	1.2152	128.7		0.0058	400.9	1.6133	1.2651	1.2380	126.0	95
100	0.0065	408.8	1.6379	1.2010	1.1929	131.3		0.0060	407.1	1.6301	1.2357	1.2108	128.8	100
105	0.0067	414.7	1.6538	1.1830	1.1746	133.7		0.0062	413.2	1.6464	1.2127	1.1890	131.4	105
110	0.0069	420.6	1.6692	1.1685	1.1595	136.0		0.0063	419.2	1.6622	1.1944	1.1711	133.8	110
115	0.0071	426.4	1.6843	1.1568	1.1467	138.1		0.0065	425.2	1.6776	1.1796	1.1562	136.0	115
120	0.0073	432.2	1.6990	1.1472	1.1357	140.0		0.0067	431.0	1.6926	1.1676	1.1436	138.1	120
125	0.0074	437.9	1.7135	1.1394	1.1263	141.9		0.0068	436.9	1.7073	1.1577	1.1329	140.0	125
130	0.0076	443.6	1.7277	1.1330	1.1180	143.6		0.0070	442.6	1.7217	1.1495	1.1236	141.8	130
135	0.0077	449.2	1.7416	1.1277	1.1108	145.2		0.0071	448.4	1.7358	1.1428	1.1154	143.5	135
140	0.0079	454.9	1.7553	1.1235	1.1044	146.8		0.0073	454.1	1.7497	1.1373	1.1083	145.1	140
145	0.0080	460.5	1.7688	1.1201	1.0988	148.2		0.0074	459.7	1.7634	1.1327	1.1020	146.7	145
150	0.0081	466.1	1.7821	1.1174	1.0937	149.7		0.0075	465.4	1.7768	1.1291	1.0964	148.1	150
155	0.0083	471.6	1.7952	1.1153	1.0891	151.0		0.0077	471.0	1.7901	1.1261	1.0914	149.5	155
160	0.0084	477.2	1.8081	1.1137	1.0850	152.3		0.0078	476.6	1.8031	1.1237	1.0869	150.8	160
165	0.0085	482.8	1.8209	1.1126	1.0813	153.5		0.0079	482.3	1.8160	1.1219	1.0829	152.1	165
170	0.0087	488.3	1.8335	1.1118	1.0780	154.7		0.0080	487.9	1.8287	1.1206	1.0792	153.3	170
175	0.0088	493.9	1.8460	1.1115	1.0749	155.9		0.0081	493.5	1.8413	1.1196	1.0759	154.5	175
180	0.0089	499.4	1.8583	1.1114	1.0721	157.0		0.0083	499.1	1.8537	1.1190	1.0729	155.6	180
185	0.0090	505.0	1.8705	1.1116	1.0696	158.1		0.0084	504.7	1.8660	1.1187	1.0702	156.7	185
190	0.0091	510.6	1.8826	1.1120	1.0672	159.1		0.0085	510.3	1.8781	1.1187	1.0676	157.8	190
195	0.0092	516.1	1.8946	1.1126	1.0651	160.1		0.0086	515.8	1.8901	1.1190	1.0653	158.8	195
200	0.0094	521.7	1.9064	1.1135	1.0631	161.1		0.0087	521.4	1.9020	1.1194	1.0632	159.8	200
205	0.0095	527.3	1.9181	1.1144	1.0613	162.0		0.0088	527.0	1.9138	1.1200	1.0613	160.7	205
210	0.0096	532.8	1.9297	1.1156	1.0596	163.0		0.0089	532.6	1.9255	1.1208	1.0595	161.7	210
215	—	—	—	—	—	—		0.0090	538.2	1.9370	1.1218	1.0578	162.6	215

TABLE 2 (continued)
HFC-125 Superheated Vapor—Constant Pressure Tables

V = Volume in m³/kg H = Enthalpy in kJ/kg S = Entropy in kJ/(kg)(K) v_s = Velocity of Sound in m/sec
 Cp = Heat Capacity at Constant Pressure in kJ/(kg)(°C) Cp/Cv = Heat Capacity Ratio (Dimensionless)

TEMP °C	PRESSURE = 3400.00 kPa (abs)						SAT LIQ SAT VAP	PRESSURE = 3600.00 kPa (abs)						TEMP °C
	V	H	S	Cp	Cp/Cv	v _s		V	H	S	Cp	Cp/Cv	v _s	
63.23	0.0012	299.8	1.3168	5.3492	5.0817	106.1		0.0015	311.6	1.3510	40.0610	35.7600	81.1	65.86
63.23	0.0028	339.2	1.4339	7.4011	6.4923	81.9		0.0021	329.7	1.4042	54.5462	46.3792	76.5	65.86
65	0.0032	347.6	1.4586	3.4813	3.1261	88.6		—	—	—	—	—	—	65
70	0.0038	360.4	1.4963	2.0783	1.9229	99.1		0.0033	353.9	1.4752	2.8110	2.5142	92.4	70
75	0.0042	369.7	1.5234	1.7150	1.6121	106.0		0.0037	365.4	1.5086	1.9799	1.8138	101.1	75
80	0.0046	377.8	1.5465	1.5388	1.4611	111.4		0.0041	374.5	1.5345	1.6853	1.5662	107.4	80
85	0.0048	385.2	1.5673	1.4332	1.3703	115.9		0.0044	382.5	1.5570	1.5298	1.4354	112.5	85
90	0.0051	392.2	1.5867	1.3626	1.3091	119.8		0.0046	389.8	1.5775	1.4326	1.3535	116.8	90
95	0.0053	398.9	1.6049	1.3122	1.2650	123.3		0.0048	396.8	1.5966	1.3661	1.2970	120.6	95
100	0.0055	405.4	1.6224	1.2745	1.2315	126.3		0.0050	403.5	1.6147	1.3178	1.2557	123.9	100
105	0.0057	411.7	1.6391	1.2454	1.2053	129.1		0.0052	410.0	1.6319	1.2813	1.2241	126.9	105
110	0.0059	417.8	1.6554	1.2225	1.1842	131.7		0.0054	416.4	1.6486	1.2530	1.1991	129.6	110
115	0.0060	423.9	1.6711	1.2041	1.1669	134.0		0.0056	422.6	1.6647	1.2304	1.1789	132.0	115
120	0.0062	429.9	1.6864	1.1892	1.1524	136.2		0.0057	428.7	1.6803	1.2122	1.1622	134.3	120
125	0.0063	435.8	1.7013	1.1770	1.1401	138.2		0.0059	434.7	1.6955	1.1973	1.1482	136.5	125
130	0.0065	441.7	1.7160	1.1669	1.1296	140.1		0.0060	440.7	1.7104	1.1851	1.1363	138.4	130
135	0.0066	447.5	1.7303	1.1585	1.1205	141.9		0.0062	446.6	1.7249	1.1750	1.1261	140.3	135
140	0.0067	453.2	1.7444	1.1516	1.1126	143.5		0.0063	452.4	1.7392	1.1665	1.1173	142.0	140
145	0.0069	459.0	1.7582	1.1459	1.1056	145.1		0.0064	458.2	1.7532	1.1595	1.1096	143.7	145
150	0.0070	464.7	1.7718	1.1412	1.0995	146.6		0.0065	464.0	1.7669	1.1536	1.1028	145.3	150
155	0.0071	470.4	1.7851	1.1373	1.0940	148.1		0.0066	469.8	1.7804	1.1488	1.0968	146.7	155
160	0.0072	476.1	1.7983	1.1341	1.0891	149.4		0.0068	475.5	1.7938	1.1447	1.0914	148.1	160
165	0.0074	481.7	1.8113	1.1315	1.0847	150.7		0.0069	481.2	1.8069	1.1414	1.0866	149.5	165
170	0.0075	487.4	1.8242	1.1295	1.0807	152.0		0.0070	486.9	1.8198	1.1387	1.0823	150.8	170
175	0.0076	493.0	1.8368	1.1280	1.0771	153.2		0.0071	492.6	1.8326	1.1365	1.0784	152.0	175
180	0.0077	498.7	1.8493	1.1268	1.0738	154.4		0.0072	498.3	1.8452	1.1348	1.0749	153.2	180
185	0.0078	504.3	1.8617	1.1261	1.0709	155.5		0.0073	503.9	1.8576	1.1335	1.0718	154.3	185
190	0.0079	509.9	1.8739	1.1256	1.0682	156.5		0.0074	509.6	1.8699	1.1326	1.0689	155.4	190
195	0.0080	515.6	1.8860	1.1254	1.0657	157.6		0.0075	515.3	1.8821	1.1320	1.0662	156.4	195
200	0.0081	521.2	1.8980	1.1255	1.0634	158.6		0.0076	520.9	1.8941	1.1316	1.0638	157.5	200
205	0.0082	526.8	1.9098	1.1257	1.0614	159.5		0.0077	526.6	1.9060	1.1315	1.0616	158.4	205
210	0.0083	532.4	1.9215	1.1262	1.0595	160.5		0.0078	532.2	1.9178	1.1316	1.0595	159.4	210
215	0.0084	538.1	1.9331	1.1268	1.0577	161.4		0.0078	537.9	1.9294	1.1319	1.0577	160.3	215
220	—	—	—	—	—	—		0.0079	543.6	1.9410	1.1324	1.0559	161.2	220



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