

**Table C.7d** Saturated Refrigerant-134a Pressure Table (Metric Units)

Press. MPa <i>P</i>	Temp. °C <i>T</i> <sub>sat</sub>	Specific Volume m <sup>3</sup> /kg		Internal Energy kJ/kg			Enthalpy kJ/kg		Entropy kJ/(kg · K)	
		Sat. Liquid <i>v</i> <sub>f</sub>	Sat. Vapor <i>v</i> <sub>g</sub>	Sat. Liquid <i>u</i> <sub>f</sub>	Sat. Vapor <i>u</i> <sub>g</sub>	Sat. Liquid <i>h</i> <sub>f</sub>	Evap. <i>h</i> <sub>fg</sub>	Sat. Vapor <i>h</i> <sub>g</sub>	Sat. Liquid <i>s</i> <sub>f</sub>	Sat. Vapor <i>s</i> <sub>g</sub>
0.06	-37.07	0.000 709 7	0.3100	3.41	206.12	3.46	221.27	224.72	0.0147	0.9520
0.08	-31.21	0.000 718 4	0.2366	10.41	209.46	10.47	217.92	228.39	0.0440	0.9447
0.10	-26.43	0.000 725 8	0.1917	16.22	212.18	16.29	215.06	231.35	0.0678	0.9395
0.12	-22.36	0.000 732 3	0.1614	21.23	214.50	21.32	212.54	233.86	0.0879	0.9354
0.14	-18.80	0.000 738 1	0.1395	25.66	216.50	25.77	210.27	236.04	0.1055	0.9322
0.16	-15.62	0.000 743 5	0.1229	29.66	218.32	29.78	208.18	237.97	0.1211	0.9295
0.18	-12.73	0.000 748 5	0.1098	33.31	219.94	33.45	206.26	239.71	0.1352	0.9273
0.20	-10.09	0.000 753 2	0.0993	36.69	221.43	36.84	204.46	241.30	0.1481	0.9253
0.24	-5.37	0.000 761 8	0.0834	42.77	224.07	42.95	201.14	244.09	0.1710	0.9222
0.28	-1.23	0.000 769 7	0.0719	48.18	226.38	48.39	198.13	246.52	0.1911	0.9197
0.32	2.48	0.000 777 0	0.0632	53.06	228.43	53.31	195.35	248.66	0.2089	0.9177
0.36	5.84	0.000 783 9	0.0564	57.54	230.28	57.82	192.76	250.58	0.2251	0.9160
0.4	8.93	0.000 790 4	0.0509	61.69	231.97	62.00	190.32	252.32	0.2399	0.9145
0.5	15.74	0.000 805 6	0.0409	70.93	235.64	71.33	184.74	256.07	0.2723	0.9117
0.6	21.58	0.000 819 6	0.0341	78.99	238.74	79.48	179.71	259.19	0.2999	0.9097
0.7	26.72	0.000 832 8	0.0292	86.19	241.42	86.78	175.07	261.85	0.3242	0.9080
0.8	31.33	0.000 845 4	0.0255	92.75	243.78	93.42	170.73	264.15	0.3459	0.9066
0.9	35.53	0.000 857 6	0.0226	98.79	245.88	99.56	166.62	266.18	0.3656	0.9054
1.0	39.39	0.000 869 5	0.0202	104.42	247.77	105.29	162.68	267.97	0.3838	0.9043
1.2	46.32	0.000 892 8	0.0166	114.69	251.03	115.76	155.23	270.99	0.4164	0.9023
1.4	52.43	0.000 915 9	0.0140	123.98	253.74	125.26	148.14	273.40	0.4453	0.9003
1.6	57.92	0.000 939 2	0.0121	132.52	256.00	134.02	141.31	275.33	0.4714	0.8982
8	62.91	0.000 963 1	0.0105	140.49	257.88	142.22	134.60	276.83	0.4954	0.8959
2.0	67.49	0.000 987 8	0.0093	148.02	259.41	149.99	127.95	277.94	0.5178	0.8934
2.5	77.59	0.001 056 2	0.0069	165.48	261.84	168.12	111.06	279.17	0.5687	0.8854
3.0	86.22	0.001 141 6	0.0053	181.88	262.16	185.30	92.71	278.01	0.6156	0.8735

Source: Adapted from Moran, M. J., Shapiro, H. N., 1992. *Fundamentals of Engineering Thermodynamics*, second ed. Wiley, New York, pp. 710–715. Originally based on equations from Wilson, D. P., Basu, R. S., 1988. *Thermodynamic properties, of a new stratospherically safe working fluid—refrigerant 134a*. ASHRAE Trans. 94 (Pt. 2), 2095–2118.