

Appendix 9b: Properties of Saturated R-134a (Pressure Table)

Pressure, MPa	Temp., °C	Specific volume, m ³ /kg		Internal energy, kJ/kg		Enthalpy, kJ/kg		Entropy, kJ/ kgK	
<i>P</i>	<i>T_{sat}</i>	<i>v_f</i>	<i>v_g</i>	<i>u_f</i>	<i>u_g</i>	<i>h_f</i>	<i>h_g</i>	<i>s_f</i>	<i>s_g</i>
0.06	−37.07	0.000710	0.3100	3.41	206.12	3.46	224.72	0.0147	0.9520
0.08	−31.21	0.000718	0.2366	10.41	209.46	10.47	228.39	0.044	0.9447
0.10	−26.43	0.000726	0.1917	16.22	212.18	16.29	231.35	0.0678	0.9395
0.12	−22.36	0.000732	0.1614	21.23	214.50	21.32	233.86	0.0879	0.9354
0.14	−18.80	0.000738	0.1395	25.66	216.52	25.77	236.04	0.1055	0.9322
0.16	−15.62	0.000744	0.1229	29.66	218.32	29.78	237.97	0.1211	0.9295
0.18	−12.73	0.000749	0.1098	33.31	219.94	33.45	239.71	0.1352	0.9273
0.20	−10.09	0.000753	0.0993	36.69	221.43	36.84	241.30	0.1481	0.9253
0.24	−5.37	0.000762	0.0834	42.77	224.07	42.95	244.09	0.171	0.9222
0.28	−1.23	0.000770	0.0719	48.18	226.38	48.39	246.52	0.1911	0.9197
0.32	2.48	0.000777	0.0632	53.06	228.43	53.31	248.66	0.2089	0.9177
0.36	5.84	0.000784	0.0564	57.54	230.28	57.82	250.58	0.2251	0.9160
0.40	8.93	0.000790	0.0509	61.69	231.97	62.00	252.32	0.2399	0.9145
0.50	15.74	0.000806	0.0409	70.93	235.64	71.33	256.07	0.2723	0.9117
0.60	21.58	0.000820	0.0341	78.99	238.74	79.48	259.19	0.2999	0.9097
0.70	26.72	0.000833	0.0292	86.19	241.42	86.78	261.85	0.3242	0.9080
0.80	31.33	0.000845	0.0255	92.75	243.78	93.42	264.15	0.3459	0.9066
0.90	35.53	0.000858	0.0226	98.79	245.88	99.56	266.18	0.3656	0.9054
1.00	39.39	0.000870	0.0202	104.42	247.77	105.29	267.97	0.3838	0.9043
1.20	46.32	0.000893	0.0166	114.69	251.03	115.76	270.99	0.4164	0.9023
1.40	52.43	0.000916	0.0140	123.98	253.74	125.26	273.40	0.4453	0.9003
1.60	57.92	0.000939	0.0121	132.52	256.00	134.02	275.33	0.4714	0.8982
1.80	62.91	0.000963	0.0105	140.49	257.88	142.22	276.83	0.4954	0.8959
2.00	67.49	0.000988	0.0093	148.02	259.41	149.99	277.94	0.5178	0.8934
2.50	77.59	0.001056	0.0069	165.48	261.84	168.12	279.17	0.5687	0.8854
3.00	86.22	0.001142	0.0053	181.88	262.16	185.30	278.01	0.6156	0.8735