

1: R245fa: V/L sat. T=0.0 to 110.0 °C

	Temperature (°C)	Pressure (bar)	Liquid Density (kg/m³)	Vapor Density (kg/m³)	Liquid Enthalpy (kJ/kg)	Vapor Enthalpy (kJ/kg)	Liquid Entropy (kJ/kg-K)	Vapor Entropy (kJ/kg-K)
1	0.0000	0.52922	1404.0	3.2305	200.00	404.47	1.0000	1.7486
2	2.0000	0.57952	1398.9	3.5187	202.55	405.93	1.0093	1.7484
3	4.0000	0.63359	1393.8	3.8272	205.11	407.39	1.0186	1.7484
4	6.0000	0.69163	1388.7	4.1568	207.68	408.86	1.0278	1.7484
5	8.0000	0.75384	1383.5	4.5086	210.25	410.32	1.0369	1.7485
6	10.000	0.82045	1378.3	4.8836	212.84	411.79	1.0461	1.7487
7	12.000	0.89166	1373.1	5.2830	215.43	413.25	1.0552	1.7489
8	14.000	0.96769	1367.9	5.7078	218.02	414.72	1.0642	1.7492
9	16.000	1.0488	1362.6	6.1593	220.63	416.18	1.0733	1.7496
10	18.000	1.1352	1357.3	6.6386	223.24	417.65	1.0822	1.7500
11	20.000	1.2270	1352.0	7.1469	225.86	419.12	1.0912	1.7504
12	22.000	1.3247	1346.6	7.6855	228.49	420.58	1.1001	1.7509
13	24.000	1.4283	1341.3	8.2557	231.13	422.04	1.1090	1.7515
14	26.000	1.5383	1335.8	8.8588	233.78	423.51	1.1178	1.7521
15	28.000	1.6547	1330.4	9.4963	236.44	424.97	1.1267	1.7527
16	30.000	1.7779	1324.9	10.169	239.10	426.43	1.1355	1.7534
17	32.000	1.9081	1319.3	10.880	241.78	427.89	1.1442	1.7541
18	34.000	2.0456	1313.7	11.629	244.46	429.35	1.1529	1.7549
19	36.000	2.1907	1308.1	12.418	247.15	430.81	1.1617	1.7557
20	38.000	2.3436	1302.4	13.249	249.86	432.26	1.1703	1.7566
21	40.000	2.5046	1296.7	14.124	252.57	433.71	1.1790	1.7574
22	42.000	2.6741	1291.0	15.044	255.29	435.16	1.1876	1.7583
23	44.000	2.8522	1285.2	16.011	258.03	436.61	1.1962	1.7593
24	46.000	3.0394	1279.3	17.027	260.77	438.05	1.2048	1.7603
25	48.000	3.2358	1273.4	18.094	263.52	439.49	1.2133	1.7613
26	50.000	3.4417	1267.4	19.213	266.29	440.93	1.2219	1.7623
27	52.000	3.6576	1261.4	20.388	269.07	442.36	1.2304	1.7633
28	54.000	3.8836	1255.3	21.619	271.85	443.78	1.2389	1.7644
29	56.000	4.1201	1249.2	22.910	274.65	445.21	1.2474	1.7655
30	58.000	4.3674	1243.0	24.263	277.46	446.62	1.2558	1.7666
31	60.000	4.6259	1236.8	25.679	280.29	448.04	1.2642	1.7678
32	62.000	4.8957	1230.4	27.163	283.12	449.44	1.2727	1.7689
33	64.000	5.1773	1224.1	28.716	285.97	450.84	1.2811	1.7701
34	66.000	5.4710	1217.6	30.341	288.83	452.23	1.2894	1.7713
35	68.000	5.7771	1211.1	32.041	291.70	453.62	1.2978	1.7724
36	70.000	6.0960	1204.4	33.820	294.59	455.00	1.3062	1.7736
37	72.000	6.4279	1197.8	35.680	297.49	456.36	1.3145	1.7748
38	74.000	6.7732	1191.0	37.626	300.40	457.72	1.3229	1.7760
39	76.000	7.1323	1184.1	39.660	303.33	459.08	1.3312	1.7773
40	78.000	7.5055	1177.2	41.788	306.28	460.42	1.3395	1.7785
41	80.000	7.8931	1170.1	44.013	309.24	461.75	1.3478	1.7797
42	82.000	8.2956	1163.0	46.339	312.21	463.06	1.3561	1.7809
43	84.000	8.7132	1155.7	48.772	315.20	464.37	1.3644	1.7821
44	86.000	9.1464	1148.4	51.316	318.21	465.66	1.3727	1.7833
45	88.000	9.5955	1140.9	53.978	321.24	466.94	1.3810	1.7845
46	90.000	10.061	1133.3	56.763	324.28	468.20	1.3893	1.7856
47	92.000	10.543	1125.6	59.677	327.34	469.45	1.3976	1.7868
48	94.000	11.042	1117.7	62.727	330.42	470.68	1.4059	1.7879
49	96.000	11.559	1109.7	65.922	333.52	471.89	1.4142	1.7890
50	98.000	12.093	1101.6	69.269	336.64	473.09	1.4225	1.7901
51	100.00	12.646	1093.3	72.777	339.78	474.26	1.4308	1.7912
52	102.00	13.217	1084.8	76.456	342.95	475.41	1.4391	1.7922
53	104.00	13.807	1076.2	80.316	346.13	476.53	1.4474	1.7932
54	106.00	14.418	1067.4	84.371	349.35	477.63	1.4558	1.7941
55	108.00	15.048	1058.4	88.633	352.58	478.70	1.4641	1.7950
56	110.00	15.698	1049.1	93.117	355.85	479.74	1.4725	1.7959

3: R245fa: Specified state points

	Temperature (°C)	Pressure (bar)	Density (kg/m³)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)
1	39.670	1.7374	9.5110	435.94	1.7856
2	28.321	10.564	1332.4	237.12	1.1267