

Temperature (°C)	Liquid Phase	Vapor Phase	Liquid Phase	Vapor Phase	Liquid Phase	Vapor Phase	Liquid Phase	Vapor Phase
	Pressure (bar)	Pressure (bar)	Density (kg/m ³)	Density (kg/m ³)	Enthalpy (kJ/kg)	Enthalpy (kJ/kg)	Entropy (kJ/kg-K)	Entropy (kJ/kg-K)
-60	0.49774	0.47457	1348	2.6904	122.21	331.4	0.68107	1.6651
-59	0.526	0.50199	1345	2.8357	123.44	332.02	0.68682	1.6633
-58	0.55553	0.53066	1342	2.9872	124.68	332.63	0.69255	1.6616
-57	0.58636	0.56063	1339	3.1449	125.91	333.24	0.69826	1.6599
-56	0.61854	0.59192	1336	3.3092	127.15	333.85	0.70396	1.6582
-55	0.65212	0.62459	1333	3.4801	128.38	334.46	0.70963	1.6566
-54	0.68713	0.65868	1330	3.6579	129.62	335.07	0.71528	1.655
-53	0.72361	0.69423	1326.9	3.8428	130.86	335.68	0.72091	1.6535
-52	0.76161	0.73127	1323.9	4.035	132.1	336.29	0.72653	1.652
-51	0.80118	0.76987	1320.9	4.2346	133.35	336.9	0.73213	1.6505
-50	0.84236	0.81005	1317.8	4.4419	134.59	337.51	0.73771	1.6491
-49	0.88519	0.85188	1314.8	4.657	135.84	338.11	0.74327	1.6477
-48	0.92972	0.89538	1311.7	4.8803	137.09	338.72	0.74881	1.6463
-47	0.976	0.94062	1308.7	5.1119	138.34	339.33	0.75434	1.645
-46	1.0241	0.98763	1305.6	5.352	139.59	339.93	0.75985	1.6437
-45	1.074	1.0365	1302.5	5.6008	140.85	340.53	0.76535	1.6424
-44	1.1258	1.0872	1299.4	5.8586	142.1	341.14	0.77083	1.6412
-43	1.1795	1.1398	1296.3	6.1257	143.36	341.74	0.77629	1.64
-42	1.2353	1.1944	1293.2	6.4022	144.62	342.34	0.78174	1.6388
-41	1.293	1.2511	1290.1	6.6883	145.89	342.94	0.78717	1.6377
-40	1.3529	1.3098	1286.9	6.9844	147.15	343.53	0.79259	1.6365
-39	1.4149	1.3706	1283.8	7.2907	148.42	344.13	0.79799	1.6355
-38	1.4791	1.4336	1280.6	7.6074	149.69	344.73	0.80338	1.6344
-37	1.5455	1.4988	1277.5	7.9348	150.96	345.32	0.80876	1.6333
-36	1.6142	1.5663	1274.3	8.2731	152.23	345.91	0.81412	1.6323
-35	1.6853	1.6362	1271.1	8.6227	153.51	346.51	0.81947	1.6313
-34	1.7588	1.7084	1267.9	8.9837	154.79	347.1	0.8248	1.6304
-33	1.8347	1.7831	1264.7	9.3565	156.07	347.68	0.83012	1.6294
-32	1.9131	1.8603	1261.5	9.7413	157.35	348.27	0.83543	1.6285
-31	1.9942	1.94	1258.3	10.138	158.64	348.86	0.84073	1.6276
-30	2.0778	2.0223	1255	10.548	159.93	349.44	0.84601	1.6267
-29	2.1641	2.1073	1251.8	10.971	161.22	350.02	0.85128	1.6259
-28	2.2532	2.1951	1248.5	11.407	162.52	350.6	0.85654	1.625
-27	2.345	2.2856	1245.2	11.856	163.81	351.18	0.86179	1.6242
-26	2.4397	2.3789	1241.9	12.32	165.11	351.75	0.86703	1.6234
-25	2.5373	2.4752	1238.6	12.797	166.41	352.33	0.87225	1.6226
-24	2.6379	2.5744	1235.3	13.289	167.72	352.9	0.87747	1.6219
-23	2.7415	2.6766	1231.9	13.796	169.03	353.47	0.88267	1.6211
-22	2.8481	2.7819	1228.6	14.318	170.34	354.04	0.88787	1.6204
-21	2.958	2.8903	1225.2	14.855	171.65	354.6	0.89305	1.6197
-20	3.071	3.0019	1221.8	15.409	172.97	355.16	0.89822	1.619
-19	3.1873	3.1168	1218.4	15.979	174.29	355.72	0.90339	1.6183
-18	3.3069	3.235	1215	16.565	175.61	356.28	0.90854	1.6177
-17	3.43	3.3566	1211.5	17.169	176.93	356.84	0.91369	1.617
-16	3.5564	3.4816	1208.1	17.789	178.26	357.39	0.91883	1.6164
-15	3.6864	3.6101	1204.6	18.428	179.6	357.94	0.92395	1.6158
-14	3.82	3.7422	1201.1	19.085	180.93	358.49	0.92907	1.6152
-13	3.9572	3.878	1197.6	19.761	182.27	359.03	0.93419	1.6146
-12	4.0981	4.0174	1194.1	20.456	183.61	359.58	0.93929	1.614
-11	4.2428	4.1606	1190.5	21.17	184.96	360.11	0.94439	1.6134
-10	4.3913	4.3076	1186.9	21.905	186.31	360.65	0.94947	1.6129
-9	4.5437	4.4586	1183.4	22.66	187.66	361.18	0.95456	1.6123
-8	4.7001	4.6135	1179.7	23.436	189.01	361.71	0.95963	1.6118
-7	4.8605	4.7724	1176.1	24.233	190.37	362.24	0.9647	1.6113
-6	5.025	4.9354	1172.5	25.053	191.74	362.76	0.96976	1.6107
-5	5.1937	5.1026	1168.8	25.895	193.1	363.28	0.97481	1.6102
-4	5.3666	5.274	1165.1	26.761	194.48	363.8	0.97986	1.6097
-3	5.5438	5.4497	1161.3	27.65	195.85	364.31	0.9849	1.6092
-2	5.7254	5.6298	1157.6	28.563	197.23	364.82	0.98994	1.6087
-1	5.9114	5.8143	1153.8	29.502	198.61	365.32	0.99497	1.6082
0	6.1019	6.0033	1150	30.465	200	365.82	1	1.6078
1	6.297	6.1969	1146.2	31.456	201.39	366.32	1.005	1.6073
2	6.4968	6.3952	1142.3	32.473	202.79	366.81	1.01	1.6068
3	6.7013	6.5982	1138.4	33.517	204.19	367.29	1.0151	1.6064
4	6.9106	6.8059	1134.5	34.59	205.59	367.78	1.0201	1.6059
5	7.1247	7.0186	1130.6	35.692	207	368.25	1.0251	1.6054
6	7.3438	7.2362	1126.6	36.823	208.41	368.73	1.0301	1.605

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7	7.5679	7.4588	1122.6	37.985	209.83	369.2	1.0351	1.6045
8	7.7971	7.6865	1118.6	39.179	211.26	369.66	1.0401	1.6041
9	8.0314	7.9194	1114.5	40.405	212.68	370.12	1.0451	1.6036
10	8.271	8.1575	1110.4	41.664	214.12	370.57	1.0501	1.6032
11	8.5159	8.4009	1106.3	42.957	215.56	371.01	1.0551	1.6027
12	8.7661	8.6497	1102.1	44.286	217	371.45	1.06	1.6023
13	9.0219	8.904	1097.9	45.65	218.45	371.89	1.065	1.6018
14	9.2832	9.1639	1093.6	47.052	219.9	372.32	1.07	1.6013
15	9.5501	9.4294	1089.4	48.491	221.36	372.74	1.075	1.6009
16	9.8227	9.7006	1085	49.971	222.83	373.15	1.08	1.6004
17	10.101	9.9776	1080.7	51.49	224.3	373.56	1.085	1.5999
18	10.385	10.26	1076.3	53.052	225.78	373.96	1.09	1.5994
19	10.675	10.549	1071.8	54.657	227.26	374.36	1.095	1.5989
20	10.972	10.844	1067.3	56.306	228.75	374.74	1.1	1.5984
21	11.274	11.145	1062.7	58.002	230.25	375.12	1.105	1.5979
22	11.582	11.452	1058.2	59.744	231.75	375.49	1.11	1.5974
23	11.897	11.766	1053.5	61.536	233.26	375.85	1.115	1.5969
24	12.218	12.086	1048.8	63.379	234.77	376.21	1.12	1.5964
25	12.546	12.412	1044.1	65.274	236.3	376.55	1.125	1.5958
26	12.88	12.745	1039.2	67.223	237.83	376.89	1.13	1.5953
27	13.221	13.084	1034.4	69.229	239.37	377.22	1.1351	1.5947
28	13.568	13.431	1029.5	71.293	240.91	377.53	1.1401	1.5941
29	13.922	13.784	1024.5	73.418	242.47	377.84	1.1451	1.5935
30	14.283	14.144	1019.4	75.605	244.03	378.14	1.1502	1.5929
31	14.651	14.511	1014.3	77.858	245.6	378.42	1.1552	1.5923
32	15.027	14.885	1009.1	80.179	247.18	378.7	1.1603	1.5916
33	15.409	15.266	1003.8	82.57	248.77	378.96	1.1654	1.5909
34	15.798	15.655	998.49	85.035	250.37	379.21	1.1704	1.5903
35	16.195	16.051	993.07	87.577	251.97	379.45	1.1755	1.5895
36	16.6	16.455	987.57	90.2	253.59	379.68	1.1806	1.5888
37	17.012	16.866	981.98	92.906	255.22	379.89	1.1858	1.588
38	17.431	17.285	976.3	95.7	256.86	380.08	1.1909	1.5872
39	17.859	17.712	970.52	98.586	258.51	380.26	1.1961	1.5864
40	18.294	18.146	964.65	101.57	260.17	380.43	1.2012	1.5855
41	18.737	18.589	958.67	104.65	261.85	380.58	1.2064	1.5846
42	19.189	19.04	952.58	107.84	263.53	380.71	1.2116	1.5837
43	19.648	19.499	946.38	111.15	265.23	380.82	1.2169	1.5827
44	20.116	19.967	940.05	114.57	266.95	380.92	1.2221	1.5817
45	20.593	20.443	933.59	118.12	268.68	380.99	1.2274	1.5807
46	21.078	20.928	927	121.8	270.42	381.05	1.2327	1.5796
47	21.572	21.422	920.26	125.62	272.18	381.08	1.2381	1.5784
48	22.074	21.924	913.37	129.59	273.96	381.08	1.2434	1.5772
49	22.586	22.436	906.31	133.73	275.76	381.06	1.2488	1.5759
50	23.106	22.957	899.07	138.04	277.57	381.01	1.2543	1.5746
51	23.636	23.487	891.65	142.53	279.41	380.93	1.2598	1.5732
52	24.175	24.027	884.02	147.22	281.27	380.82	1.2653	1.5717
53	24.724	24.577	876.16	152.13	283.15	380.68	1.2709	1.5701
54	25.283	25.136	868.07	157.28	285.06	380.5	1.2766	1.5685
55	25.851	25.705	859.72	162.68	286.99	380.28	1.2823	1.5667
56	26.43	26.285	851.09	168.36	288.96	380.01	1.288	1.5648
57	27.019	26.875	842.13	174.35	290.95	379.69	1.2939	1.5628
58	27.618	27.476	832.83	180.69	292.99	379.32	1.2998	1.5607
59	28.228	28.088	823.14	187.41	295.06	378.89	1.3059	1.5584
60	28.849	28.711	813.01	194.57	297.18	378.4	1.312	1.5559
61	29.481	29.345	802.38	202.22	299.35	377.82	1.3183	1.5532
62	30.124	29.991	791.18	210.43	301.58	377.16	1.3247	1.5503
63	30.779	30.649	779.31	219.32	303.87	376.4	1.3313	1.5471
64	31.446	31.32	766.64	228.99	306.24	375.51	1.338	1.5436
65	32.126	32.004	753.01	239.62	308.71	374.48	1.3451	1.5397
66	32.818	32.701	738.18	251.43	311.3	373.27	1.3525	1.5353
67	33.523	33.412	721.8	264.78	314.04	371.84	1.3602	1.5302
68	34.242	34.138	703.33	280.19	316.98	370.09	1.3686	1.5243
69	34.976	34.88	681.82	298.59	320.22	367.91	1.3778	1.5172
70	35.725	35.64	655.33	321.83	323.96	365.04	1.3883	1.5081