

Saturated Pressure Table

temperature [°C]	pressure [bar]		density [kg/m³]		enthalpy [kJ/kg]		entropy [J/kg*K]	
	liquid	vapour	liquid	vapour	liquid	vapour	liquid	vapour
-60,0	0,430	0,277	1430,0	1,370	119,34	375,81	0,6688	1,8940
-59,0	0,455	0,295	1427,1	1,453	120,63	376,41	0,6749	1,8909
-58,0	0,481	0,314	1424,1	1,540	121,93	377,02	0,6809	1,8878
-57,0	0,509	0,333	1421,1	1,630	123,22	377,63	0,6869	1,8849
-56,0	0,537	0,354	1418,1	1,726	124,52	378,23	0,6929	1,8819
-55,0	0,567	0,376	1415,1	1,825	125,82	378,84	0,6988	1,8791
-54,0	0,599	0,399	1412,2	1,929	127,12	379,44	0,7047	1,8762
-53,0	0,631	0,423	1409,2	2,038	128,42	380,04	0,7106	1,8735
-52,0	0,666	0,448	1406,1	2,152	129,72	380,64	0,7165	1,8707
-51,0	0,701	0,475	1403,1	2,270	131,02	381,24	0,7224	1,8681
-50,0	0,738	0,502	1400,1	2,394	132,33	381,84	0,7283	1,8654
-49,0	0,777	0,531	1397,1	2,523	133,63	382,44	0,7341	1,8628
-48,0	0,817	0,561	1394,1	2,658	134,94	383,04	0,7399	1,8603
-47,0	0,859	0,593	1391,0	2,798	136,25	383,64	0,7457	1,8578
-46,0	0,903	0,626	1388,0	2,944	137,56	384,23	0,7514	1,8554
-45,0	0,948	0,661	1384,9	3,097	138,87	384,83	0,7572	1,8529
-44,0	0,995	0,697	1381,9	3,255	140,18	385,42	0,7629	1,8506
-43,0	1,044	0,734	1378,8	3,420	141,50	386,01	0,7686	1,8483
-42,0	1,095	0,773	1375,7	3,591	142,81	386,60	0,7743	1,8460
-41,0	1,148	0,814	1372,6	3,769	144,13	387,19	0,7800	1,8437
-40,0	1,203	0,857	1369,5	3,954	145,45	387,78	0,7856	1,8415
-39,0	1,259	0,901	1366,4	4,146	146,77	388,37	0,7913	1,8393
-38,0	1,318	0,947	1363,3	4,345	148,09	388,95	0,7969	1,8372
-37,0	1,379	0,995	1360,2	4,552	149,42	389,53	0,8025	1,8351
-36,0	1,443	1,045	1357,0	4,766	150,74	390,11	0,8081	1,8330
-35,0	1,508	1,097	1353,9	4,989	152,07	390,69	0,8136	1,8310
-34,0	1,576	1,150	1350,8	5,220	153,40	391,27	0,8192	1,8290
-33,0	1,646	1,206	1347,6	5,458	154,73	391,85	0,8247	1,8270
-32,0	1,719	1,264	1344,4	5,706	156,07	392,42	0,8302	1,8251
-31,0	1,794	1,325	1341,2	5,962	157,40	392,99	0,8357	1,8232
-30,0	1,871	1,387	1338,1	6,228	158,74	393,57	0,8412	1,8213
-29,0	1,952	1,452	1334,9	6,502	160,08	394,13	0,8467	1,8195
-28,0	2,034	1,519	1331,6	6,786	161,42	394,70	0,8522	1,8177
-27,0	2,120	1,588	1328,4	7,080	162,77	395,26	0,8576	1,8159
-26,0	2,208	1,660	1325,2	7,384	164,11	395,83	0,8630	1,8142
-25,0	2,299	1,735	1321,9	7,697	165,46	396,39	0,8685	1,8124
-24,0	2,393	1,812	1318,7	8,022	166,81	396,94	0,8739	1,8107
-23,0	2,490	1,891	1315,4	8,357	168,16	397,50	0,8792	1,8091
-22,0	2,590	1,974	1312,1	8,703	169,52	398,05	0,8846	1,8074
-21,0	2,693	2,059	1308,8	9,060	170,88	398,60	0,8900	1,8058
-20,0	2,799	2,147	1305,5	9,429	172,24	399,15	0,8953	1,8042

temperature [°C]	pressure [bar]		density [kg/m³]		enthalpy [kJ/kg]		entropy [J/kg*K]	
	liquid	vapour	liquid	vapour	liquid	vapour	liquid	vapour
-19,0	2,909	2,238	1302,2	9,809	173,60	399,70	0,9007	1,8026
-18,0	3,021	2,332	1298,9	10,20	174,96	400,24	0,9060	1,8010
-17,0	3,137	2,429	1295,5	10,61	176,33	400,78	0,9113	1,7995
-16,0	3,256	2,529	1292,2	11,02	177,70	401,32	0,9166	1,7980
-15,0	3,379	2,632	1288,8	11,46	179,07	401,85	0,9219	1,7965
-14,0	3,505	2,738	1285,4	11,90	180,45	402,39	0,9272	1,7951
-13,0	3,635	2,848	1282,0	12,36	181,82	402,91	0,9324	1,7936
-12,0	3,769	2,961	1278,6	12,83	183,20	403,44	0,9377	1,7922
-11,0	3,906	3,078	1275,1	13,31	184,59	403,96	0,9429	1,7908
-10,0	4,047	3,198	1271,7	13,81	185,97	404,49	0,9482	1,7894
-9,0	4,192	3,321	1268,2	14,33	187,36	405,00	0,9534	1,7880
-8,0	4,340	3,449	1264,7	14,86	188,75	405,52	0,9586	1,7867
-7,0	4,493	3,580	1261,2	15,40	190,15	406,03	0,9638	1,7853
-6,0	4,650	3,715	1257,7	15,96	191,55	406,53	0,9690	1,7840
-5,0	4,811	3,853	1254,2	16,54	192,95	407,04	0,9742	1,7827
-4,0	4,976	3,996	1250,6	17,14	194,35	407,54	0,9794	1,7814
-3,0	5,145	4,142	1247,1	17,75	195,76	408,04	0,9845	1,7801
-2,0	5,318	4,293	1243,5	18,38	197,17	408,53	0,9897	1,7789
-1,0	5,496	4,448	1239,8	19,02	198,58	409,02	0,9949	1,7776
0,0	5,679	4,607	1236,2	19,69	200,00	409,51	1,0000	1,7764
1,0	5,866	4,771	1232,6	20,37	201,42	409,99	1,0051	1,7752
2,0	6,057	4,938	1228,9	21,08	202,84	410,47	1,0103	1,7740
3,0	6,253	5,111	1225,2	21,80	204,27	410,94	1,0154	1,7728
4,0	6,454	5,288	1221,5	22,54	205,70	411,41	1,0205	1,7716
5,0	6,660	5,469	1217,8	23,30	207,14	411,88	1,0256	1,7704
6,0	6,871	5,655	1214,0	24,09	208,58	412,34	1,0307	1,7692
7,0	7,087	5,846	1210,2	24,90	210,02	412,79	1,0358	1,7681
8,0	7,307	6,042	1206,4	25,72	211,47	413,25	1,0409	1,7669
9,0	7,533	6,243	1202,6	26,57	212,92	413,69	1,0460	1,7658
10,0	7,764	6,449	1198,7	27,45	214,37	414,14	1,0511	1,7647
11,0	8,000	6,660	1194,9	28,35	215,83	414,58	1,0561	1,7636
12,0	8,242	6,876	1191,0	29,27	217,29	415,01	1,0612	1,7624
13,0	8,489	7,098	1187,0	30,21	218,76	415,44	1,0663	1,7613
14,0	8,741	7,324	1183,1	31,19	220,23	415,86	1,0713	1,7602
15,0	9,000	7,557	1179,1	32,18	221,71	416,28	1,0764	1,7591
16,0	9,263	7,795	1175,1	33,21	223,19	416,69	1,0814	1,7580
17,0	9,533	8,038	1171,0	34,26	224,68	417,10	1,0865	1,7570
18,0	9,808	8,287	1166,9	35,34	226,17	417,50	1,0915	1,7559
19,0	10,09	8,542	1162,8	36,45	227,66	417,89	1,0966	1,7548
20,0	10,38	8,803	1158,7	37,59	229,16	418,28	1,1016	1,7537

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temperature [°C]	pressure [bar]		density [kg/m³]		enthalpy [kJ/kg]		entropy [J/kg*K]	
	liquid	vapour	liquid	vapour	liquid	vapour	liquid	vapour
21,0	10,67	9,070	1154,5	38,77	230,67	418,66	1,1067	1,7526
22,0	10,97	9,343	1150,3	39,97	232,18	419,04	1,1117	1,7516
23,0	11,27	9,623	1146,1	41,20	233,69	419,41	1,1167	1,7505
24,0	11,59	9,908	1141,8	42,47	235,21	419,77	1,1218	1,7494
25,0	11,90	10,20	1137,5	43,77	236,74	420,13	1,1268	1,7483
26,0	12,23	10,50	1133,1	45,11	238,27	420,48	1,1318	1,7472
27,0	12,56	10,80	1128,8	46,48	239,81	420,82	1,1369	1,7462
28,0	12,90	11,12	1124,3	47,89	241,35	421,16	1,1419	1,7451
29,0	13,24	11,43	1119,9	49,34	242,90	421,48	1,1469	1,7440
30,0	13,59	11,76	1115,4	50,82	244,46	421,80	1,1520	1,7429
31,0	13,95	12,09	1110,8	52,35	246,02	422,11	1,1570	1,7418
32,0	14,31	12,43	1106,2	53,92	247,59	422,41	1,1621	1,7407
33,0	14,69	12,78	1101,6	55,53	249,17	422,71	1,1671	1,7396
34,0	15,06	13,13	1096,9	57,19	250,75	422,99	1,1722	1,7385
35,0	15,45	13,49	1092,1	58,89	252,34	423,27	1,1772	1,7373
36,0	15,84	13,86	1087,4	60,64	253,94	423,53	1,1823	1,7362
37,0	16,24	14,24	1082,5	62,44	255,54	423,79	1,1873	1,7350
38,0	16,65	14,62	1077,6	64,29	257,15	424,04	1,1924	1,7339
39,0	17,07	15,01	1072,7	66,19	258,77	424,27	1,1975	1,7327
40,0	17,49	15,41	1067,7	68,15	260,40	424,50	1,2025	1,7315
41,0	17,92	15,82	1062,6	70,16	262,04	424,71	1,2076	1,7303
42,0	18,36	16,24	1057,5	72,23	263,68	424,92	1,2127	1,7291
43,0	18,81	16,66	1052,3	74,36	265,34	425,11	1,2178	1,7279
44,0	19,26	17,10	1047,0	76,55	267,00	425,29	1,2230	1,7266
45,0	19,72	17,54	1041,7	78,81	268,67	425,45	1,2281	1,7254
46,0	20,19	17,99	1036,3	81,13	270,35	425,60	1,2332	1,7241
47,0	20,67	18,45	1030,8	83,53	272,04	425,74	1,2384	1,7228
48,0	21,16	18,91	1025,3	86,00	273,75	425,87	1,2435	1,7215
49,0	21,66	19,39	1019,6	88,54	275,46	425,98	1,2487	1,7201
50,0	22,16	19,88	1013,9	91,17	277,18	426,07	1,2539	1,7187
51,0	22,67	20,37	1008,1	93,87	278,92	426,15	1,2591	1,7173
52,0	23,19	20,88	1002,2	96,67	280,67	426,21	1,2643	1,7159
53,0	23,73	21,39	996,23	99,55	282,43	426,26	1,2696	1,7144
54,0	24,26	21,92	990,14	102,5	284,20	426,29	1,2748	1,7129
55,0	24,81	22,45	983,93	105,6	285,99	426,29	1,2801	1,7113
56,0	25,37	23,00	977,62	108,8	287,79	426,28	1,2854	1,7097
57,0	25,94	23,56	971,18	112,1	289,61	426,25	1,2908	1,7081
58,0	26,51	24,12	964,62	115,5	291,44	426,19	1,2961	1,7064
59,0	27,10	24,70	957,92	119,1	293,29	426,11	1,3015	1,7047
60,0	27,69	25,29	951,08	122,7	295,16	426,01	1,3069	1,7029

Saturated Pressure Table

temperature [°C]	pressure [bar]		density [kg/m ³]		enthalpy [kJ/kg]		entropy [J/kg*K]	
	liquid	vapour	liquid	vapour	liquid	vapour	liquid	vapour
61,0	28,30	25,89	944,09	126,5	297,05	425,87	1,3124	1,7011
62,0	28,91	26,50	936,94	130,5	298,96	425,72	1,3179	1,6992
63,0	29,54	27,12	929,61	134,6	300,88	425,53	1,3235	1,6972
64,0	30,17	27,75	922,10	138,9	302,83	425,31	1,3290	1,6952
65,0	30,81	28,40	914,38	143,4	304,81	425,05	1,3347	1,6931
66,0	31,47	29,06	906,45	148,1	306,81	424,76	1,3404	1,6909
67,0	32,13	29,73	898,27	152,9	308,84	424,43	1,3461	1,6886
68,0	32,81	30,41	889,84	158,0	310,90	424,06	1,3520	1,6862
69,0	33,49	31,11	881,12	163,4	312,99	423,65	1,3579	1,6838
70,0	34,19	31,82	872,09	169,0	315,12	423,18	1,3639	1,6811
71,0	34,90	32,55	862,71	175,0	317,29	422,66	1,3699	1,6784
72,0	35,61	33,29	852,94	181,2	319,51	422,07	1,3761	1,6755
73,0	36,34	34,04	842,73	187,9	321,77	421,42	1,3824	1,6724
74,0	37,08	34,81	832,02	194,9	324,09	420,70	1,3889	1,6692
75,0	37,83	35,60	820,75	202,4	326,48	419,89	1,3955	1,6657
76,0	38,59	36,41	808,82	210,5	328,94	418,98	1,4022	1,6620
77,0	39,36	37,23	796,11	219,2	331,48	417,97	1,4092	1,6580
78,0	40,14	38,07	782,49	228,7	334,13	416,82	1,4165	1,6536
79,0	40,94	38,93	767,74	239,0	336,90	415,51	1,4241	1,6489
80,0	41,74	39,81	751,59	250,4	339,84	414,01	1,4321	1,6436
81,0	42,55	40,71	733,61	263,2	342,97	412,27	1,4407	1,6377
82,0	43,37	41,65	713,14	277,9	346,39	410,21	1,4500	1,6309
83,0	44,19	42,61	688,99	295,2	350,22	407,71	1,4604	1,6229
84,0	45,00	43,61	658,64	316,7	354,76	404,50	1,4728	1,6130
85,0	45,79	44,68	614,85	346,1	360,89	399,98	1,4896	1,5995
86,0	46,39	45,90	516,33	403,2	374,09	390,98	1,5261	1,5735

Calculated by Refprop version 10.0

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