

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	0,451	0,126	621,96	0,346	64,16	503,61	0,6045	2,7694
-59,0	0,473	0,134	620,90	0,367	66,30	504,90	0,6145	2,7645
-58,0	0,496	0,143	619,84	0,390	68,44	506,19	0,6245	2,7597
-57,0	0,519	0,152	618,78	0,413	70,59	507,48	0,6344	2,7550
-56,0	0,544	0,162	617,72	0,438	72,75	508,77	0,6444	2,7504
-55,0	0,569	0,172	616,65	0,463	74,90	510,07	0,6543	2,7459
-54,0	0,596	0,183	615,58	0,490	77,07	511,36	0,6641	2,7415
-53,0	0,623	0,194	614,51	0,518	79,23	512,66	0,6740	2,7372
-52,0	0,651	0,206	613,44	0,548	81,40	513,96	0,6838	2,7330
-51,0	0,681	0,219	612,36	0,578	83,57	515,26	0,6935	2,7289
-50,0	0,711	0,232	611,29	0,610	85,75	516,56	0,7033	2,7249
-49,0	0,742	0,245	610,21	0,644	87,93	517,86	0,7130	2,7210
-48,0	0,775	0,260	609,13	0,679	90,11	519,17	0,7227	2,7171
-47,0	0,809	0,275	608,04	0,715	92,30	520,47	0,7324	2,7134
-46,0	0,843	0,290	606,96	0,753	94,49	521,78	0,7420	2,7097
-45,0	0,879	0,307	605,87	0,793	96,69	523,08	0,7516	2,7061
-44,0	0,917	0,324	604,78	0,834	98,89	524,39	0,7612	2,7026
-43,0	0,955	0,342	603,69	0,877	101,09	525,70	0,7708	2,6992
-42,0	0,994	0,361	602,59	0,921	103,30	527,01	0,7804	2,6958
-41,0	1,035	0,380	601,50	0,967	105,51	528,32	0,7899	2,6926
-40,0	1,078	0,401	600,40	1,016	107,73	529,63	0,7994	2,6894
-39,0	1,121	0,422	599,29	1,066	109,95	530,94	0,8089	2,6862
-38,0	1,166	0,444	598,19	1,118	112,17	532,26	0,8183	2,6832
-37,0	1,212	0,467	597,08	1,171	114,40	533,57	0,8277	2,6802
-36,0	1,260	0,491	595,97	1,227	116,64	534,88	0,8371	2,6773
-35,0	1,309	0,516	594,86	1,285	118,87	536,20	0,8465	2,6745
-34,0	1,360	0,542	593,74	1,345	121,12	537,52	0,8559	2,6717
-33,0	1,412	0,569	592,62	1,408	123,36	538,83	0,8652	2,6690
-32,0	1,465	0,597	591,50	1,472	125,62	540,15	0,8745	2,6664
-31,0	1,521	0,626	590,37	1,539	127,87	541,46	0,8838	2,6638
-30,0	1,578	0,656	589,25	1,608	130,13	542,78	0,8931	2,6613
-29,0	1,636	0,688	588,12	1,680	132,40	544,10	0,9024	2,6589
-28,0	1,696	0,720	586,98	1,754	134,67	545,42	0,9116	2,6565
-27,0	1,758	0,754	585,85	1,830	136,95	546,73	0,9208	2,6542
-26,0	1,821	0,789	584,71	1,909	139,23	548,05	0,9300	2,6519
-25,0	1,886	0,826	583,56	1,991	141,51	549,37	0,9392	2,6497
-24,0	1,953	0,863	582,42	2,076	143,80	550,69	0,9484	2,6476
-23,0	2,022	0,902	581,27	2,163	146,10	552,01	0,9575	2,6455
-22,0	2,093	0,943	580,11	2,253	148,40	553,32	0,9667	2,6435
-21,0	2,165	0,984	578,96	2,346	150,70	554,64	0,9758	2,6415
-20,0	2,240	1,028	577,80	2,442	153,01	555,96	0,9849	2,6396

temperature [°C]	pressure [bar]		density [kg/m³]		enthalpy [kJ/kg]		entropy [J/kg*K]	
	liquid	vapour	liquid	vapour	liquid	vapour	liquid	vapour
-19,0	2,316	1,072	576,63	2,541	155,33	557,28	0,9939	2,6377
-18,0	2,394	1,118	575,47	2,643	157,65	558,60	1,0030	2,6359
-17,0	2,475	1,166	574,30	2,748	159,98	559,91	1,0120	2,6341
-16,0	2,557	1,215	573,12	2,857	162,31	561,23	1,0211	2,6324
-15,0	2,641	1,266	571,94	2,968	164,64	562,55	1,0301	2,6307
-14,0	2,728	1,319	570,76	3,083	166,99	563,86	1,0391	2,6291
-13,0	2,816	1,373	569,58	3,202	169,33	565,18	1,0481	2,6275
-12,0	2,907	1,429	568,39	3,324	171,69	566,49	1,0570	2,6260
-11,0	3,000	1,487	567,19	3,449	174,04	567,81	1,0660	2,6245
-10,0	3,095	1,546	566,00	3,579	176,41	569,12	1,0749	2,6230
-9,0	3,193	1,607	564,79	3,711	178,78	570,43	1,0838	2,6216
-8,0	3,292	1,671	563,59	3,848	181,15	571,74	1,0928	2,6203
-7,0	3,394	1,736	562,38	3,989	183,54	573,05	1,1016	2,6190
-6,0	3,499	1,803	561,16	4,133	185,92	574,36	1,1105	2,6177
-5,0	3,606	1,872	559,95	4,282	188,32	575,67	1,1194	2,6164
-4,0	3,715	1,943	558,72	4,435	190,71	576,98	1,1283	2,6152
-3,0	3,826	2,016	557,49	4,591	193,12	578,29	1,1371	2,6141
-2,0	3,940	2,091	556,26	4,753	195,53	579,59	1,1459	2,6129
-1,0	4,057	2,168	555,03	4,918	197,95	580,90	1,1548	2,6119
0,0	4,176	2,248	553,78	5,088	200,37	582,20	1,1636	2,6108
1,0	4,298	2,330	552,54	5,263	202,80	583,50	1,1724	2,6098
2,0	4,423	2,414	551,29	5,442	205,24	584,80	1,1811	2,6088
3,0	4,550	2,500	550,03	5,625	207,68	586,10	1,1899	2,6079
4,0	4,679	2,589	548,77	5,814	210,13	587,40	1,1987	2,6070
5,0	4,812	2,680	547,50	6,007	212,58	588,69	1,2074	2,6061
6,0	4,947	2,773	546,23	6,206	215,04	589,99	1,2162	2,6052
7,0	5,085	2,869	544,95	6,409	217,51	591,28	1,2249	2,6044
8,0	5,226	2,968	543,67	6,618	219,98	592,57	1,2336	2,6036
9,0	5,370	3,069	542,38	6,832	222,46	593,86	1,2424	2,6028
10,0	5,517	3,172	541,09	7,052	224,95	595,14	1,2511	2,6021
11,0	5,666	3,278	539,79	7,276	227,45	596,43	1,2598	2,6014
12,0	5,819	3,387	538,48	7,507	229,95	597,71	1,2685	2,6007
13,0	5,974	3,499	537,17	7,743	232,46	598,99	1,2771	2,6001
14,0	6,133	3,613	535,85	7,985	234,97	600,26	1,2858	2,5995
15,0	6,295	3,731	534,53	8,233	237,50	601,54	1,2945	2,5989
16,0	6,459	3,851	533,20	8,487	240,03	602,81	1,3031	2,5983
17,0	6,627	3,974	531,87	8,746	242,56	604,08	1,3118	2,5978
18,0	6,799	4,100	530,52	9,013	245,11	605,34	1,3204	2,5972
19,0	6,973	4,229	529,17	9,285	247,66	606,61	1,3291	2,5967
20,0	7,150	4,361	527,82	9,564	250,22	607,87	1,3377	2,5962

temperature [°C]	pressure [bar]		density [kg/m³]		enthalpy [kJ/kg]		entropy [J/kg*K]	
	liquid	vapour	liquid	vapour	liquid	vapour	liquid	vapour
21,0	7,331	4,496	526,46	9,850	252,79	609,13	1,3463	2,5958
22,0	7,515	4,634	525,09	10,14	255,36	610,38	1,3549	2,5954
23,0	7,703	4,775	523,71	10,44	257,94	611,63	1,3635	2,5949
24,0	7,894	4,920	522,33	10,75	260,53	612,88	1,3722	2,5945
25,0	8,088	5,068	520,94	11,06	263,13	614,13	1,3808	2,5942
26,0	8,286	5,219	519,54	11,38	265,74	615,37	1,3894	2,5938
27,0	8,487	5,374	518,13	11,71	268,35	616,61	1,3980	2,5935
28,0	8,692	5,532	516,72	12,05	270,97	617,84	1,4065	2,5931
29,0	8,900	5,694	515,29	12,39	273,60	619,07	1,4151	2,5928
30,0	9,112	5,859	513,86	12,74	276,24	620,30	1,4237	2,5926
31,0	9,328	6,027	512,43	13,10	278,89	621,52	1,4323	2,5923
32,0	9,547	6,200	510,98	13,47	281,55	622,74	1,4409	2,5920
33,0	9,770	6,376	509,52	13,85	284,21	623,95	1,4494	2,5918
34,0	9,997	6,555	508,06	14,23	286,88	625,16	1,4580	2,5915
35,0	10,23	6,739	506,59	14,62	289,56	626,36	1,4666	2,5913
36,0	10,46	6,926	505,10	15,03	292,26	627,56	1,4751	2,5911
37,0	10,70	7,117	503,61	15,44	294,96	628,76	1,4837	2,5909
38,0	10,94	7,313	502,11	15,86	297,66	629,95	1,4923	2,5907
39,0	11,19	7,512	500,60	16,29	300,38	631,13	1,5008	2,5906
40,0	11,44	7,715	499,08	16,73	303,11	632,31	1,5094	2,5904
41,0	11,69	7,922	497,55	17,18	305,85	633,49	1,5180	2,5902
42,0	11,95	8,134	496,00	17,64	308,59	634,65	1,5265	2,5901
43,0	12,21	8,349	494,45	18,11	311,35	635,82	1,5351	2,5900
44,0	12,48	8,569	492,89	18,59	314,12	636,97	1,5437	2,5898
45,0	12,75	8,793	491,31	19,08	316,89	638,12	1,5522	2,5897
46,0	13,02	9,022	489,73	19,58	319,68	639,27	1,5608	2,5896
47,0	13,30	9,255	488,13	20,09	322,48	640,40	1,5694	2,5895
48,0	13,58	9,492	486,52	20,62	325,28	641,53	1,5780	2,5893
49,0	13,87	9,734	484,90	21,16	328,10	642,66	1,5865	2,5892
50,0	14,16	9,981	483,26	21,71	330,93	643,77	1,5951	2,5891
51,0	14,46	10,23	481,61	22,27	333,77	644,88	1,6037	2,5890
52,0	14,76	10,49	479,95	22,84	336,62	645,98	1,6123	2,5889
53,0	15,06	10,75	478,28	23,43	339,49	647,07	1,6209	2,5888
54,0	15,37	11,02	476,59	24,03	342,36	648,16	1,6295	2,5887
55,0	15,69	11,29	474,88	24,65	345,25	649,23	1,6381	2,5886
56,0	16,00	11,56	473,17	25,27	348,14	650,30	1,6467	2,5885
57,0	16,33	11,84	471,43	25,92	351,05	651,36	1,6553	2,5883
58,0	16,65	12,13	469,68	26,57	353,97	652,41	1,6639	2,5882
59,0	16,99	12,42	467,92	27,25	356,91	653,45	1,6726	2,5881
60,0	17,32	12,72	466,14	27,94	359,86	654,48	1,6812	2,5880

temperature [°C]	pressure [bar]		density [kg/m³]		enthalpy [kJ/kg]		entropy [J/kg*K]	
	liquid	vapour	liquid	vapour	liquid	vapour	liquid	vapour
61,0	17,66	13,02	464,34	28,64	362,82	655,50	1,6899	2,5878
62,0	18,01	13,32	462,52	29,36	365,79	656,50	1,6985	2,5877
63,0	18,36	13,64	460,69	30,10	368,78	657,50	1,7072	2,5875
64,0	18,72	13,95	458,84	30,85	371,78	658,49	1,7159	2,5873
65,0	19,08	14,28	456,97	31,63	374,79	659,46	1,7246	2,5872
66,0	19,44	14,61	455,08	32,42	377,82	660,42	1,7333	2,5870
67,0	19,81	14,94	453,16	33,23	380,87	661,37	1,7420	2,5868
68,0	20,19	15,28	451,23	34,06	383,93	662,31	1,7508	2,5865
69,0	20,57	15,63	449,28	34,91	387,00	663,23	1,7595	2,5863
70,0	20,95	15,98	447,30	35,78	390,09	664,14	1,7683	2,5860
71,0	21,34	16,34	445,30	36,68	393,20	665,03	1,7771	2,5857
72,0	21,74	16,71	443,27	37,59	396,32	665,91	1,7859	2,5854
73,0	22,14	17,08	441,22	38,53	399,46	666,78	1,7947	2,5851
74,0	22,54	17,45	439,15	39,49	402,62	667,62	1,8035	2,5848
75,0	22,95	17,84	437,04	40,48	405,80	668,45	1,8124	2,5844
76,0	23,37	18,23	434,91	41,49	408,99	669,27	1,8213	2,5840
77,0	23,79	18,63	432,75	42,53	412,21	670,06	1,8302	2,5836
78,0	24,22	19,03	430,56	43,60	415,44	670,83	1,8392	2,5831
79,0	24,65	19,44	428,34	44,70	418,69	671,59	1,8481	2,5826
80,0	25,09	19,86	426,08	45,83	421,97	672,32	1,8571	2,5821
81,0	25,53	20,28	423,79	46,98	425,26	673,03	1,8661	2,5815
82,0	25,98	20,71	421,46	48,17	428,58	673,72	1,8752	2,5809
83,0	26,43	21,15	419,10	49,40	431,92	674,39	1,8843	2,5802
84,0	26,89	21,60	416,69	50,66	435,29	675,03	1,8934	2,5795
85,0	27,35	22,05	414,24	51,96	438,68	675,64	1,9026	2,5787
86,0	27,82	22,52	411,75	53,29	442,10	676,23	1,9118	2,5779
87,0	28,30	22,98	409,21	54,67	445,55	676,79	1,9211	2,5771
88,0	28,78	23,46	406,62	56,09	449,02	677,31	1,9304	2,5761
89,0	29,27	23,95	403,98	57,56	452,52	677,81	1,9397	2,5751
90,0	29,76	24,44	401,29	59,07	456,06	678,27	1,9491	2,5741
91,0	30,26	24,94	398,54	60,63	459,63	678,70	1,9586	2,5729
92,0	30,76	25,45	395,72	62,25	463,23	679,08	1,9681	2,5717
93,0	31,27	25,97	392,84	63,92	466,87	679,43	1,9778	2,5704
94,0	31,78	26,50	389,89	65,66	470,55	679,74	1,9874	2,5690
95,0	32,30	27,04	386,86	67,45	474,27	680,00	1,9972	2,5675
96,0	32,83	27,59	383,75	69,32	478,03	680,21	2,0070	2,5659
97,0	33,36	28,14	380,55	71,26	481,85	680,36	2,0170	2,5642
98,0	33,89	28,71	377,25	73,27	485,71	680,47	2,0270	2,5624
99,0	34,44	29,29	373,86	75,38	489,63	680,51	2,0372	2,5604
100,0	34,98	29,88	370,35	77,57	493,60	680,49	2,0474	2,5583

Saturated Pressure Table

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temperature [°C]	pressure [bar]		density [kg/m ³]		enthalpy [kJ/kg]		entropy [J/kg*K]	
	liquid	vapour	liquid	vapour	liquid	vapour	liquid	vapour
101,0	35,54	30,48	366,71	79,86	497,64	680,39	2,0578	2,5560
102,0	36,09	31,09	362,94	82,27	501,76	680,22	2,0684	2,5535
103,0	36,66	31,71	359,02	84,79	505,94	679,97	2,0791	2,5509
104,0	37,22	32,34	354,93	87,44	510,22	679,62	2,0901	2,5480
105,0	37,79	32,99	350,65	90,24	514,59	679,16	2,1012	2,5449
106,0	38,37	33,65	346,16	93,20	519,07	678,60	2,1126	2,5415
107,0	38,95	34,32	341,42	96,34	523,67	677,90	2,1243	2,5378
108,0	39,53	35,01	336,40	99,70	528,42	677,06	2,1363	2,5337
109,0	40,12	35,72	331,05	103,3	533,33	676,05	2,1487	2,5292
110,0	40,70	36,44	325,30	107,2	538,44	674,84	2,1616	2,5243
111,0	41,29	37,18	319,08	111,4	543,79	673,40	2,1751	2,5187
112,0	41,87	37,95	312,28	116,0	549,44	671,67	2,1893	2,5125
113,0	42,45	38,73	304,72	121,1	555,46	669,61	2,2044	2,5054
114,0	43,02	39,55	296,18	126,9	561,99	667,09	2,2208	2,4972
115,0	43,57	40,40	286,28	133,6	569,23	663,98	2,2390	2,4875
116,0	44,09	41,29	274,37	141,5	577,54	659,99	2,2599	2,4756
117,0	44,56	42,25	259,21	151,6	587,65	654,57	2,2854	2,4600
118,0	44,89	43,34	237,66	166,4	601,50	646,09	2,3205	2,4365

Calculated by Refprop version 10.0

A guarantee, warranty or liability for the accuracy, completeness and timeliness of the content and information provided cannot be assumed.

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