

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
-50,0	0,421	0,341	1425,3	1,942	135,54	356,44	0,7407	1,7372
-49,0	0,444	0,361	1422,4	2,050	136,78	357,08	0,7462	1,7355
-48,0	0,469	0,382	1419,5	2,162	138,03	357,72	0,7518	1,7339
-47,0	0,495	0,404	1416,6	2,278	139,28	358,36	0,7573	1,7324
-46,0	0,521	0,427	1413,7	2,400	140,53	359,00	0,7628	1,7308
-45,0	0,549	0,451	1410,7	2,527	141,78	359,64	0,7683	1,7293
-44,0	0,578	0,476	1407,8	2,660	143,03	360,28	0,7737	1,7279
-43,0	0,608	0,503	1404,9	2,797	144,28	360,91	0,7792	1,7264
-42,0	0,640	0,530	1401,9	2,941	145,54	361,55	0,7846	1,7250
-41,0	0,672	0,559	1399,0	3,090	146,79	362,19	0,7900	1,7237
-40,0	0,706	0,589	1396,0	3,245	148,05	362,83	0,7954	1,7223
-39,0	0,742	0,620	1393,1	3,406	149,31	363,46	0,8008	1,7211
-38,0	0,779	0,653	1390,1	3,574	150,57	364,10	0,8061	1,7198
-37,0	0,817	0,687	1387,1	3,748	151,83	364,73	0,8115	1,7186
-36,0	0,857	0,722	1384,1	3,929	153,10	365,37	0,8168	1,7174
-35,0	0,898	0,759	1381,1	4,116	154,36	366,00	0,8221	1,7162
-34,0	0,941	0,797	1378,1	4,311	155,63	366,64	0,8274	1,7150
-33,0	0,985	0,836	1375,1	4,512	156,90	367,27	0,8327	1,7139
-32,0	1,031	0,878	1372,1	4,722	158,17	367,90	0,8380	1,7128
-31,0	1,079	0,921	1369,1	4,938	159,45	368,54	0,8433	1,7118
-30,0	1,129	0,965	1366,0	5,163	160,72	369,17	0,8485	1,7107
-29,0	1,180	1,011	1363,0	5,395	162,00	369,80	0,8537	1,7097
-28,0	1,233	1,059	1359,9	5,636	163,28	370,42	0,8589	1,7088
-27,0	1,288	1,109	1356,9	5,885	164,56	371,05	0,8641	1,7078
-26,0	1,345	1,160	1353,8	6,143	165,84	371,68	0,8693	1,7069
-25,0	1,404	1,214	1350,7	6,410	167,13	372,31	0,8745	1,7060
-24,0	1,465	1,269	1347,6	6,685	168,41	372,93	0,8796	1,7051
-23,0	1,528	1,326	1344,5	6,970	169,70	373,55	0,8848	1,7042
-22,0	1,593	1,386	1341,4	7,265	170,99	374,18	0,8899	1,7034
-21,0	1,660	1,447	1338,3	7,569	172,29	374,80	0,8950	1,7026
-20,0	1,729	1,510	1335,1	7,883	173,58	375,42	0,9001	1,7018
-19,0	1,801	1,576	1332,0	8,208	174,88	376,03	0,9052	1,7010
-18,0	1,874	1,644	1328,8	8,542	176,18	376,65	0,9103	1,7002
-17,0	1,951	1,714	1325,7	8,888	177,48	377,27	0,9154	1,6995
-16,0	2,029	1,786	1322,5	9,244	178,79	377,88	0,9205	1,6988
-15,0	2,110	1,861	1319,3	9,612	180,09	378,49	0,9255	1,6981
-14,0	2,194	1,938	1316,1	9,991	181,40	379,10	0,9305	1,6974
-13,0	2,280	2,018	1312,9	10,38	182,72	379,71	0,9356	1,6967
-12,0	2,368	2,100	1309,6	10,78	184,03	380,32	0,9406	1,6961
-11,0	2,459	2,185	1306,4	11,20	185,35	380,93	0,9456	1,6954
-10,0	2,553	2,272	1303,1	11,63	186,67	381,53	0,9506	1,6948

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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
-50,0	0,421	0,341	1425,3	1,942	135,54	356,44	0,7407	1,7372
-49,0	0,444	0,361	1422,4	2,050	136,78	357,08	0,7462	1,7355
-48,0	0,469	0,382	1419,5	2,162	138,03	357,72	0,7518	1,7339
-47,0	0,495	0,404	1416,6	2,278	139,28	358,36	0,7573	1,7324
-46,0	0,521	0,427	1413,7	2,400	140,53	359,00	0,7628	1,7308
-45,0	0,549	0,451	1410,7	2,527	141,78	359,64	0,7683	1,7293
-44,0	0,578	0,476	1407,8	2,660	143,03	360,28	0,7737	1,7279
-43,0	0,608	0,503	1404,9	2,797	144,28	360,91	0,7792	1,7264
-42,0	0,640	0,530	1401,9	2,941	145,54	361,55	0,7846	1,7250
-41,0	0,672	0,559	1399,0	3,090	146,79	362,19	0,7900	1,7237
-40,0	0,706	0,589	1396,0	3,245	148,05	362,83	0,7954	1,7223
-39,0	0,742	0,620	1393,1	3,406	149,31	363,46	0,8008	1,7211
-38,0	0,779	0,653	1390,1	3,574	150,57	364,10	0,8061	1,7198
-37,0	0,817	0,687	1387,1	3,748	151,83	364,73	0,8115	1,7186
-36,0	0,857	0,722	1384,1	3,929	153,10	365,37	0,8168	1,7174
-35,0	0,898	0,759	1381,1	4,116	154,36	366,00	0,8221	1,7162
-34,0	0,941	0,797	1378,1	4,311	155,63	366,64	0,8274	1,7150
-33,0	0,985	0,836	1375,1	4,512	156,90	367,27	0,8327	1,7139
-32,0	1,031	0,878	1372,1	4,722	158,17	367,90	0,8380	1,7128
-31,0	1,079	0,921	1369,1	4,938	159,45	368,54	0,8433	1,7118
-30,0	1,129	0,965	1366,0	5,163	160,72	369,17	0,8485	1,7107
-29,0	1,180	1,011	1363,0	5,395	162,00	369,80	0,8537	1,7097
-28,0	1,233	1,059	1359,9	5,636	163,28	370,42	0,8589	1,7088
-27,0	1,288	1,109	1356,9	5,885	164,56	371,05	0,8641	1,7078
-26,0	1,345	1,160	1353,8	6,143	165,84	371,68	0,8693	1,7069
-25,0	1,404	1,214	1350,7	6,410	167,13	372,31	0,8745	1,7060
-24,0	1,465	1,269	1347,6	6,685	168,41	372,93	0,8796	1,7051
-23,0	1,528	1,326	1344,5	6,970	169,70	373,55	0,8848	1,7042
-22,0	1,593	1,386	1341,4	7,265	170,99	374,18	0,8899	1,7034
-21,0	1,660	1,447	1338,3	7,569	172,29	374,80	0,8950	1,7026
-20,0	1,729	1,510	1335,1	7,883	173,58	375,42	0,9001	1,7018
-19,0	1,801	1,576	1332,0	8,208	174,88	376,03	0,9052	1,7010
-18,0	1,874	1,644	1328,8	8,542	176,18	376,65	0,9103	1,7002
-17,0	1,951	1,714	1325,7	8,888	177,48	377,27	0,9154	1,6995
-16,0	2,029	1,786	1322,5	9,244	178,79	377,88	0,9205	1,6988
-15,0	2,110	1,861	1319,3	9,612	180,09	378,49	0,9255	1,6981
-14,0	2,194	1,938	1316,1	9,991	181,40	379,10	0,9305	1,6974
-13,0	2,280	2,018	1312,9	10,38	182,72	379,71	0,9356	1,6967
-12,0	2,368	2,100	1309,6	10,78	184,03	380,32	0,9406	1,6961
-11,0	2,459	2,185	1306,4	11,20	185,35	380,93	0,9456	1,6954

temperature [°C]	pressure [bar]		density [kg/m ³]		enthalpy [kJ/kg]		entropy [J/kg*K]	
	liquid	vapour	liquid	vapour	liquid	vapour	liquid	vapour
31,0	9,418	8,833	1153,8	44,48	243,41	403,98	1,1488	1,6787
32,0	9,677	9,085	1149,6	45,81	244,88	404,45	1,1535	1,6784
33,0	9,941	9,342	1145,4	47,16	246,35	404,91	1,1583	1,6781
34,0	10,21	9,605	1141,2	48,56	247,83	405,37	1,1630	1,6778
35,0	10,49	9,873	1136,9	49,99	249,31	405,82	1,1677	1,6775
36,0	10,77	10,15	1132,6	51,45	250,80	406,26	1,1725	1,6772
37,0	11,05	10,43	1128,2	52,96	252,29	406,70	1,1772	1,6768
38,0	11,35	10,71	1123,8	54,50	253,79	407,13	1,1820	1,6765
39,0	11,64	11,00	1119,4	56,09	255,29	407,55	1,1867	1,6762
40,0	11,95	11,30	1114,9	57,71	256,80	407,97	1,1914	1,6759
41,0	12,26	11,60	1110,3	59,39	258,31	408,38	1,1962	1,6755
42,0	12,57	11,91	1105,7	61,10	259,84	408,78	1,2009	1,6752
43,0	12,90	12,23	1101,1	62,86	261,36	409,18	1,2057	1,6748
44,0	13,22	12,55	1096,4	64,67	262,90	409,57	1,2104	1,6744
45,0	13,56	12,88	1091,7	66,53	264,44	409,95	1,2152	1,6741
46,0	13,90	13,21	1086,9	68,44	265,99	410,32	1,2199	1,6737
47,0	14,24	13,55	1082,1	70,40	267,54	410,68	1,2247	1,6733
48,0	14,60	13,90	1077,2	72,42	269,10	411,04	1,2295	1,6729
49,0	14,96	14,25	1072,3	74,49	270,67	411,38	1,2342	1,6725
50,0	15,32	14,61	1067,2	76,62	272,25	411,72	1,2390	1,6720
51,0	15,70	14,98	1062,2	78,82	273,83	412,05	1,2438	1,6716
52,0	16,08	15,35	1057,0	81,07	275,42	412,36	1,2486	1,6711
53,0	16,46	15,74	1051,8	83,39	277,03	412,67	1,2534	1,6706
54,0	16,86	16,12	1046,6	85,78	278,63	412,97	1,2582	1,6701
55,0	17,26	16,52	1041,2	88,24	280,25	413,25	1,2630	1,6696
56,0	17,66	16,92	1035,8	90,77	281,88	413,52	1,2679	1,6691
57,0	18,08	17,33	1030,3	93,37	283,52	413,78	1,2727	1,6685
58,0	18,50	17,75	1024,7	96,06	285,16	414,03	1,2776	1,6679
59,0	18,93	18,18	1019,0	98,83	286,82	414,26	1,2824	1,6673
60,0	19,37	18,61	1013,3	101,7	288,49	414,49	1,2873	1,6667
61,0	19,81	19,05	1007,4	104,6	290,17	414,69	1,2922	1,6660
62,0	20,26	19,50	1001,5	107,7	291,85	414,88	1,2971	1,6653
63,0	20,72	19,96	995,41	110,8	293,56	415,06	1,3021	1,6646
64,0	21,19	20,42	989,25	114,1	295,27	415,22	1,3070	1,6638
65,0	21,67	20,90	982,97	117,4	297,00	415,36	1,3120	1,6630
66,0	22,15	21,38	976,57	120,9	298,74	415,48	1,3170	1,6622
67,0	22,64	21,87	970,05	124,5	300,49	415,58	1,3220	1,6613
68,0	23,14	22,37	963,39	128,2	302,26	415,66	1,3270	1,6604
69,0	23,65	22,88	956,58	132,1	304,05	415,72	1,3321	1,6594
70,0	24,17	23,40	949,62	136,1	305,85	415,76	1,3372	1,6584

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
71,0	24,70	23,92	942,50	140,3	307,67	415,77	1,3424	1,6573
72,0	25,23	24,46	935,21	144,7	309,51	415,76	1,3475	1,6562
73,0	25,77	25,01	927,73	149,2	311,37	415,72	1,3527	1,6550
74,0	26,33	25,56	920,05	153,9	313,25	415,64	1,3580	1,6537
75,0	26,89	26,13	912,15	158,8	315,15	415,54	1,3633	1,6524
76,0	27,46	26,70	904,02	164,0	317,08	415,40	1,3686	1,6510
77,0	28,04	27,29	895,63	169,4	319,04	415,22	1,3740	1,6495
78,0	28,63	27,88	886,96	175,0	321,02	415,00	1,3795	1,6479
79,0	29,23	28,49	877,98	181,0	323,04	414,74	1,3850	1,6461
80,0	29,84	29,11	868,66	187,3	325,09	414,43	1,3907	1,6443
81,0	30,46	29,73	858,97	193,9	327,18	414,06	1,3964	1,6423
82,0	31,09	30,37	848,85	200,9	329,31	413,63	1,4022	1,6402
83,0	31,73	31,02	838,25	208,4	331,49	413,13	1,4081	1,6379
84,0	32,38	31,69	827,11	216,5	333,72	412,56	1,4141	1,6354
85,0	33,04	32,36	815,33	225,1	336,02	411,89	1,4203	1,6327
86,0	33,71	33,05	802,81	234,4	338,39	411,13	1,4267	1,6297
87,0	34,40	33,76	789,41	244,5	340,85	410,23	1,4333	1,6264
88,0	35,09	34,47	774,93	255,6	343,41	409,20	1,4402	1,6228
89,0	35,80	35,21	759,10	268,0	346,11	407,97	1,4474	1,6186

Calculated by Chemours Refrigerant Expert version 1.0

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