

R 1233zd(E)

trans-1-Chloro-3,3,3-trifluoropropene



Saturated Pressure Table

temperature [°C]	pressure [bar]	density [kg/m ³]		enthalpy [kJ/kg]		entropy [J/kg*K]	
		liquid	vapour	liquid	vapour	liquid	vapour
-20,0	0,183	1365,7	1,151	176,73	389,68	0,9116	1,7528
-19,0	0,193	1363,5	1,209	177,88	390,37	0,9162	1,7522
-18,0	0,204	1361,3	1,269	179,03	391,06	0,9207	1,7517
-17,0	0,214	1359,2	1,332	180,18	391,75	0,9252	1,7511
-16,0	0,226	1357,0	1,397	181,34	392,44	0,9297	1,7506
-15,0	0,237	1354,8	1,465	182,49	393,14	0,9342	1,7501
-14,0	0,249	1352,6	1,535	183,65	393,83	0,9386	1,7497
-13,0	0,262	1350,4	1,608	184,81	394,53	0,9431	1,7492
-12,0	0,275	1348,1	1,684	185,97	395,22	0,9475	1,7488
-11,0	0,289	1345,9	1,762	187,13	395,92	0,9520	1,7484
-10,0	0,304	1343,7	1,844	188,29	396,62	0,9564	1,7480
-9,0	0,318	1341,5	1,928	189,46	397,31	0,9608	1,7477
-8,0	0,334	1339,3	2,016	190,62	398,01	0,9652	1,7473
-7,0	0,350	1337,0	2,107	191,79	398,71	0,9696	1,7470
-6,0	0,367	1334,8	2,201	192,96	399,41	0,9740	1,7467
-5,0	0,384	1332,5	2,298	194,13	400,10	0,9783	1,7465
-4,0	0,402	1330,3	2,398	195,30	400,80	0,9827	1,7462
-3,0	0,421	1328,1	2,502	196,47	401,50	0,9870	1,7460
-2,0	0,440	1325,8	2,610	197,65	402,20	0,9914	1,7458
-1,0	0,460	1323,5	2,721	198,82	402,90	0,9957	1,7456
0,0	0,481	1321,3	2,836	200,00	403,60	1,0000	1,7454
1,0	0,503	1319,0	2,955	201,18	404,30	1,0043	1,7452
2,0	0,525	1316,7	3,078	202,36	405,00	1,0086	1,7451
3,0	0,548	1314,4	3,205	203,54	405,70	1,0129	1,7449
4,0	0,572	1312,2	3,336	204,72	406,40	1,0171	1,7448
5,0	0,597	1309,9	3,471	205,91	407,10	1,0214	1,7447
6,0	0,622	1307,6	3,610	207,10	407,80	1,0257	1,7447
7,0	0,649	1305,3	3,754	208,28	408,50	1,0299	1,7446
8,0	0,676	1303,0	3,902	209,47	409,21	1,0341	1,7445
9,0	0,704	1300,6	4,054	210,66	409,91	1,0383	1,7445
10,0	0,734	1298,3	4,212	211,86	410,61	1,0426	1,7445
11,0	0,764	1296,0	4,374	213,05	411,31	1,0468	1,7445
12,0	0,795	1293,7	4,541	214,25	412,01	1,0510	1,7445
13,0	0,827	1291,3	4,713	215,44	412,71	1,0551	1,7445
14,0	0,860	1289,0	4,890	216,64	413,41	1,0593	1,7445
15,0	0,894	1286,6	5,073	217,84	414,11	1,0635	1,7446
16,0	0,930	1284,3	5,260	219,04	414,81	1,0676	1,7447
17,0	0,966	1281,9	5,453	220,25	415,51	1,0718	1,7447
18,0	1,003	1279,6	5,652	221,45	416,20	1,0759	1,7448
19,0	1,042	1277,2	5,856	222,66	416,90	1,0800	1,7449
20,0	1,082	1274,8	6,066	223,87	417,60	1,0841	1,7450

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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
21,0	1,122	1272,4	6,282	225,08	418,30	1,0883	1,7451
22,0	1,164	1270,0	6,504	226,29	419,00	1,0924	1,7453
23,0	1,208	1267,6	6,732	227,50	419,69	1,0965	1,7454
24,0	1,252	1265,2	6,966	228,72	420,39	1,1005	1,7456
25,0	1,298	1262,8	7,206	229,93	421,09	1,1046	1,7457
26,0	1,345	1260,4	7,453	231,15	421,78	1,1087	1,7459
27,0	1,394	1257,9	7,707	232,37	422,48	1,1127	1,7461
28,0	1,443	1255,5	7,967	233,59	423,17	1,1168	1,7463
29,0	1,495	1253,1	8,234	234,82	423,86	1,1208	1,7465
30,0	1,547	1250,6	8,508	236,04	424,56	1,1249	1,7467
31,0	1,601	1248,1	8,790	237,27	425,25	1,1289	1,7469
32,0	1,657	1245,7	9,078	238,50	425,94	1,1329	1,7472
33,0	1,714	1243,2	9,374	239,73	426,63	1,1369	1,7474
34,0	1,772	1240,7	9,678	240,96	427,32	1,1409	1,7477
35,0	1,832	1238,2	9,989	242,19	428,01	1,1449	1,7479
36,0	1,893	1235,7	10,31	243,43	428,70	1,1489	1,7482
37,0	1,957	1233,2	10,64	244,67	429,39	1,1529	1,7485
38,0	2,021	1230,7	10,97	245,91	430,08	1,1569	1,7488
39,0	2,088	1228,1	11,31	247,15	430,76	1,1608	1,7490
40,0	2,156	1225,6	11,67	248,39	431,45	1,1648	1,7493
41,0	2,225	1223,1	12,03	249,64	432,13	1,1687	1,7496
42,0	2,297	1220,5	12,39	250,88	432,81	1,1727	1,7500
43,0	2,370	1217,9	12,77	252,13	433,50	1,1766	1,7503
44,0	2,445	1215,4	13,16	253,38	434,18	1,1805	1,7506
45,0	2,521	1212,8	13,56	254,63	434,86	1,1845	1,7509
46,0	2,600	1210,2	13,96	255,89	435,54	1,1884	1,7513
47,0	2,680	1207,6	14,38	257,15	436,22	1,1923	1,7516
48,0	2,763	1205,0	14,80	258,40	436,89	1,1962	1,7520
49,0	2,847	1202,4	15,24	259,66	437,57	1,2001	1,7523
50,0	2,933	1199,7	15,68	260,93	438,24	1,2040	1,7527
51,0	3,021	1197,1	16,14	262,19	438,92	1,2079	1,7531
52,0	3,112	1194,4	16,60	263,46	439,59	1,2117	1,7534
53,0	3,204	1191,8	17,08	264,73	440,26	1,2156	1,7538
54,0	3,298	1189,1	17,56	266,00	440,93	1,2195	1,7542
55,0	3,394	1186,4	18,06	267,27	441,60	1,2233	1,7546
56,0	3,493	1183,7	18,57	268,55	442,26	1,2272	1,7550
57,0	3,594	1181,0	19,09	269,82	442,93	1,2311	1,7554
58,0	3,696	1178,3	19,63	271,10	443,59	1,2349	1,7558
59,0	3,802	1175,5	20,17	272,39	444,25	1,2387	1,7562
60,0	3,909	1172,8	20,73	273,67	444,91	1,2426	1,7566

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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
61,0	4,018	1170,0	21,30	274,96	445,57	1,2464	1,7570
62,0	4,130	1167,2	21,88	276,24	446,23	1,2502	1,7574
63,0	4,245	1164,5	22,47	277,54	446,89	1,2540	1,7578
64,0	4,361	1161,7	23,08	278,83	447,54	1,2578	1,7582
65,0	4,480	1158,9	23,70	280,12	448,19	1,2617	1,7587
66,0	4,602	1156,0	24,33	281,42	448,84	1,2655	1,7591
67,0	4,726	1153,2	24,98	282,72	449,49	1,2693	1,7595
68,0	4,852	1150,3	25,64	284,03	450,14	1,2730	1,7600
69,0	4,981	1147,5	26,32	285,33	450,78	1,2768	1,7604
70,0	5,113	1144,6	27,01	286,64	451,43	1,2806	1,7608
71,0	5,247	1141,7	27,72	287,95	452,07	1,2844	1,7613
72,0	5,384	1138,8	28,44	289,26	452,70	1,2882	1,7617
73,0	5,523	1135,9	29,17	290,58	453,34	1,2919	1,7621
74,0	5,665	1132,9	29,92	291,90	453,98	1,2957	1,7626
75,0	5,810	1129,9	30,69	293,22	454,61	1,2995	1,7630
76,0	5,958	1127,0	31,48	294,54	455,24	1,3032	1,7635
77,0	6,108	1124,0	32,28	295,87	455,86	1,3070	1,7639
78,0	6,261	1121,0	33,10	297,20	456,49	1,3107	1,7644
79,0	6,418	1117,9	33,93	298,53	457,11	1,3145	1,7648
80,0	6,577	1114,9	34,79	299,86	457,73	1,3182	1,7653
81,0	6,739	1111,8	35,66	301,20	458,35	1,3220	1,7657
82,0	6,904	1108,8	36,55	302,54	458,96	1,3257	1,7661
83,0	7,071	1105,7	37,46	303,89	459,58	1,3294	1,7666
84,0	7,243	1102,5	38,39	305,23	460,19	1,3332	1,7670
85,0	7,417	1099,4	39,33	306,58	460,79	1,3369	1,7675
86,0	7,594	1096,3	40,30	307,94	461,40	1,3406	1,7679
87,0	7,774	1093,1	41,29	309,29	462,00	1,3444	1,7684
88,0	7,958	1089,9	42,30	310,65	462,59	1,3481	1,7688
89,0	8,145	1086,7	43,33	312,01	463,19	1,3518	1,7692
90,0	8,335	1083,4	44,39	313,38	463,78	1,3555	1,7697
91,0	8,528	1080,1	45,46	314,75	464,37	1,3592	1,7701
92,0	8,725	1076,9	46,56	316,12	464,95	1,3630	1,7705
93,0	8,925	1073,6	47,69	317,50	465,53	1,3667	1,7710
94,0	9,128	1070,2	48,83	318,88	466,11	1,3704	1,7714
95,0	9,335	1066,9	50,00	320,26	466,68	1,3741	1,7718
96,0	9,545	1063,5	51,20	321,65	467,25	1,3778	1,7722
97,0	9,759	1060,1	52,43	323,04	467,82	1,3815	1,7726
98,0	9,977	1056,6	53,67	324,44	468,38	1,3852	1,7731
99,0	10,198	1053,2	54,95	325,84	468,94	1,3889	1,7735
100,0	10,423	1049,7	56,26	327,24	469,49	1,3926	1,7739

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Saturated Pressure Table

temperature [°C]	pressure [bar]	density [kg/m³]		enthalpy [kJ/kg]		entropy [J/kg*K]	
		liquid	vapour	liquid	vapour	liquid	vapour
101,0	10,651	1046,2	57,59	328,65	470,04	1,3963	1,7743
102,0	10,883	1042,6	58,95	330,06	470,59	1,4001	1,7746
103,0	11,119	1039,0	60,35	331,47	471,13	1,4038	1,7750
104,0	11,359	1035,4	61,77	332,89	471,66	1,4075	1,7754
105,0	11,603	1031,8	63,23	334,32	472,19	1,4112	1,7758
106,0	11,850	1028,1	64,71	335,75	472,72	1,4149	1,7761
107,0	12,102	1024,4	66,24	337,18	473,24	1,4186	1,7765
108,0	12,357	1020,6	67,79	338,62	473,75	1,4223	1,7769
109,0	12,617	1016,9	69,39	340,06	474,26	1,4260	1,7772
110,0	12,880	1013,1	71,02	341,51	474,77	1,4297	1,7775
111,0	13,148	1009,2	72,68	342,96	475,26	1,4335	1,7779
112,0	13,420	1005,3	74,39	344,42	475,75	1,4372	1,7782
113,0	13,696	1001,4	76,14	345,88	476,24	1,4409	1,7785
114,0	13,976	997,4	77,92	347,35	476,72	1,4446	1,7788
115,0	14,261	993,4	79,75	348,83	477,19	1,4484	1,7791
116,0	14,550	989,3	81,63	350,31	477,66	1,4521	1,7793
117,0	14,843	985,2	83,55	351,79	478,11	1,4558	1,7796
118,0	15,141	981,1	85,52	353,29	478,56	1,4596	1,7799
119,0	15,443	976,9	87,53	354,78	479,01	1,4633	1,7801
120,0	15,750	972,6	89,60	356,29	479,44	1,4671	1,7803
121,0	16,061	968,3	91,72	357,80	479,87	1,4708	1,7805
122,0	16,377	964,0	93,89	359,32	480,28	1,4746	1,7807
123,0	16,698	959,6	96,12	360,84	480,69	1,4784	1,7809
124,0	17,024	955,1	98,41	362,38	481,09	1,4821	1,7811
125,0	17,354	950,6	100,8	363,92	481,48	1,4859	1,7812
126,0	17,689	946,0	103,2	365,46	481,86	1,4897	1,7813
127,0	18,030	941,3	105,7	367,02	482,23	1,4935	1,7814
128,0	18,375	936,6	108,2	368,58	482,59	1,4973	1,7815
129,0	18,725	931,8	110,8	370,15	482,93	1,5012	1,7816
130,0	19,080	926,9	113,5	371,74	483,27	1,5050	1,7816
131,0	19,441	921,9	116,3	373,33	483,59	1,5088	1,7817
132,0	19,806	916,9	119,1	374,93	483,90	1,5127	1,7817
133,0	20,177	911,8	122,1	376,54	484,20	1,5166	1,7816
134,0	20,554	906,6	125,1	378,16	484,48	1,5204	1,7816
135,0	20,935	901,3	128,3	379,79	484,74	1,5243	1,7815
136,0	21,323	895,9	131,5	381,43	484,99	1,5282	1,7814
137,0	21,716	890,3	134,8	383,08	485,22	1,5322	1,7812
138,0	22,114	884,7	138,3	384,75	485,44	1,5361	1,7810
139,0	22,518	879,0	141,8	386,43	485,64	1,5401	1,7808
140,0	22,928	873,1	145,5	388,12	485,81	1,5441	1,7805

temperature [°C]	pressure [bar]	density [kg/m³]		enthalpy [kJ/kg]		entropy [J/kg*K]	
		liquid	vapour	liquid	vapour	liquid	vapour
141,0	23,344	867,1	149,3	389,83	485,97	1,5481	1,7802
142,0	23,766	861,0	153,3	391,55	486,10	1,5521	1,7799
143,0	24,193	854,7	157,4	393,29	486,21	1,5562	1,7795
144,0	24,627	848,3	161,7	395,05	486,30	1,5603	1,7790
145,0	25,067	841,6	166,1	396,83	486,36	1,5644	1,7785
146,0	25,514	834,8	170,8	398,62	486,39	1,5686	1,7780
147,0	25,966	827,8	175,6	400,44	486,39	1,5728	1,7773
148,0	26,426	820,6	180,7	402,28	486,35	1,5770	1,7766
149,0	26,891	813,2	186,0	404,14	486,28	1,5813	1,7759
150,0	27,364	805,4	191,5	406,03	486,16	1,5856	1,7750
151,0	27,843	797,4	197,4	407,96	486,01	1,5900	1,7741
152,0	28,329	789,1	203,6	409,91	485,80	1,5945	1,7730
153,0	28,823	780,4	210,1	411,90	485,55	1,5990	1,7718
154,0	29,323	771,3	217,0	413,93	485,23	1,6036	1,7706
155,0	29,831	761,8	224,4	416,01	484,85	1,6084	1,7691
156,0	30,346	751,7	232,3	418,15	484,39	1,6132	1,7675
157,0	30,869	741,1	240,9	420,34	483,84	1,6181	1,7657
158,0	31,400	729,7	250,1	422,61	483,19	1,6232	1,7637
159,0	31,938	717,4	260,2	424,96	482,41	1,6285	1,7614
160,0	32,485	704,0	271,4	427,43	481,49	1,6340	1,7588
161,0	33,041	689,3	283,9	430,03	480,38	1,6398	1,7558
162,0	33,605	672,8	298,3	432,82	479,02	1,6461	1,7522
163,0	34,179	653,6	315,2	435,88	477,32	1,6529	1,7479
164,0	34,762	630,5	336,0	439,35	475,09	1,6606	1,7424
165,0	35,355	600,2	363,9	443,57	471,96	1,6701	1,7348
166,0	35,960	550,7	410,9	449,88	466,47	1,6842	1,7220

Calculated by Refprop version 10.0

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