

R 245fa

1,1,1,3,3-Pentafluoropropane



Saturated Pressure Table

temperature [°C]	pressure [bar]	density [kg/m ³]		enthalpy [kJ/kg]		entropy [J/kg*K]	
		liquid	vapour	liquid	vapour	liquid	vapour
-5,0	0,422	1416,5	2,597	193,71	400,98	0,9768	1,7497
-4,0	0,443	1414,0	2,715	194,97	401,73	0,9815	1,7497
-3,0	0,464	1411,5	2,837	196,22	402,47	0,9861	1,7496
-2,0	0,486	1409,0	2,964	197,48	403,22	0,9908	1,7495
-1,0	0,509	1406,4	3,095	198,74	403,97	0,9954	1,7495
0,0	0,533	1403,9	3,231	200,00	404,72	1,0000	1,7495
1,0	0,557	1401,4	3,372	201,26	405,47	1,0046	1,7495
2,0	0,583	1398,8	3,518	202,53	406,22	1,0092	1,7495
3,0	0,610	1396,3	3,668	203,80	406,97	1,0138	1,7495
4,0	0,637	1393,7	3,824	205,07	407,72	1,0184	1,7496
5,0	0,666	1391,2	3,984	206,34	408,47	1,0230	1,7497
6,0	0,695	1388,6	4,151	207,61	409,22	1,0275	1,7497
7,0	0,726	1386,0	4,322	208,89	409,97	1,0321	1,7498
8,0	0,758	1383,4	4,499	210,17	410,72	1,0366	1,7500
9,0	0,790	1380,8	4,682	211,45	411,47	1,0412	1,7501
10,0	0,824	1378,3	4,871	212,73	412,22	1,0457	1,7502
11,0	0,859	1375,7	5,066	214,01	412,97	1,0502	1,7504
12,0	0,895	1373,0	5,267	215,30	413,72	1,0547	1,7506
13,0	0,933	1370,4	5,474	216,59	414,47	1,0592	1,7508
14,0	0,971	1367,8	5,688	217,88	415,22	1,0637	1,7510
15,0	1,011	1365,2	5,908	219,17	415,97	1,0682	1,7512
16,0	1,053	1362,5	6,135	220,47	416,72	1,0727	1,7514
17,0	1,095	1359,9	6,368	221,77	417,47	1,0772	1,7516
18,0	1,139	1357,2	6,609	223,07	418,22	1,0816	1,7519
19,0	1,184	1354,6	6,857	224,37	418,97	1,0861	1,7522
20,0	1,231	1351,9	7,112	225,68	419,72	1,0905	1,7524
21,0	1,279	1349,2	7,375	226,98	420,47	1,0950	1,7527
22,0	1,328	1346,6	7,645	228,29	421,22	1,0994	1,7530
23,0	1,379	1343,9	7,923	229,60	421,97	1,1038	1,7534
24,0	1,432	1341,2	8,209	230,92	422,71	1,1082	1,7537
25,0	1,486	1338,5	8,503	232,24	423,46	1,1126	1,7540
26,0	1,542	1335,7	8,806	233,56	424,21	1,1170	1,7544
27,0	1,599	1333,0	9,117	234,88	424,96	1,1214	1,7547
28,0	1,658	1330,3	9,436	236,20	425,70	1,1258	1,7551
29,0	1,718	1327,5	9,765	237,53	426,45	1,1302	1,7555
30,0	1,781	1324,8	10,10	238,86	427,19	1,1346	1,7559
31,0	1,845	1322,0	10,45	240,19	427,94	1,1390	1,7563
32,0	1,911	1319,3	10,80	241,52	428,68	1,1433	1,7567
33,0	1,979	1316,5	11,17	242,86	429,42	1,1477	1,7571
34,0	2,048	1313,7	11,55	244,20	430,17	1,1520	1,7575
35,0	2,120	1310,9	11,93	245,54	430,91	1,1564	1,7579

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Saturated Pressure Table

temperature [°C]	pressure [bar]	density [kg/m ³]		enthalpy [kJ/kg]		entropy [J/kg*K]	
		liquid	vapour	liquid	vapour	liquid	vapour
36,0	2,193	1308,1	12,33	246,89	431,65	1,1607	1,7584
37,0	2,268	1305,2	12,73	248,23	432,39	1,1651	1,7588
38,0	2,346	1302,4	13,15	249,58	433,13	1,1694	1,7593
39,0	2,425	1299,6	13,57	250,94	433,87	1,1737	1,7597
40,0	2,507	1296,7	14,01	252,29	434,61	1,1780	1,7602
41,0	2,590	1293,8	14,46	253,65	435,34	1,1823	1,7607
42,0	2,676	1291,0	14,92	255,01	436,08	1,1866	1,7612
43,0	2,764	1288,1	15,39	256,37	436,81	1,1909	1,7617
44,0	2,854	1285,2	15,88	257,74	437,55	1,1952	1,7622
45,0	2,946	1282,3	16,37	259,11	438,28	1,1995	1,7627
46,0	3,040	1279,3	16,88	260,48	439,01	1,2038	1,7632
47,0	3,137	1276,4	17,40	261,86	439,74	1,2081	1,7637
48,0	3,236	1273,4	17,94	263,23	440,47	1,2123	1,7642
49,0	3,338	1270,5	18,49	264,61	441,20	1,2166	1,7648
50,0	3,442	1267,5	19,05	266,00	441,93	1,2209	1,7653
51,0	3,549	1264,5	19,62	267,38	442,65	1,2251	1,7658
52,0	3,658	1261,5	20,21	268,77	443,38	1,2294	1,7664
53,0	3,769	1258,5	20,81	270,16	444,10	1,2336	1,7669
54,0	3,883	1255,4	21,43	271,56	444,82	1,2379	1,7675
55,0	4,000	1252,4	22,06	272,96	445,54	1,2421	1,7680
56,0	4,120	1249,3	22,70	274,36	446,26	1,2463	1,7686
57,0	4,242	1246,2	23,37	275,76	446,97	1,2506	1,7692
58,0	4,367	1243,2	24,04	277,17	447,69	1,2548	1,7697
59,0	4,494	1240,0	24,74	278,58	448,40	1,2590	1,7703
60,0	4,625	1236,9	25,45	279,99	449,11	1,2632	1,7709
61,0	4,758	1233,8	26,17	281,41	449,82	1,2674	1,7714
62,0	4,894	1230,6	26,92	282,83	450,53	1,2717	1,7720
63,0	5,033	1227,4	27,68	284,25	451,24	1,2759	1,7726
64,0	5,175	1224,3	28,45	285,68	451,94	1,2801	1,7732
65,0	5,321	1221,0	29,25	287,11	452,64	1,2843	1,7738
66,0	5,469	1217,8	30,07	288,54	453,34	1,2885	1,7744
67,0	5,620	1214,6	30,90	289,98	454,04	1,2927	1,7750
68,0	5,775	1211,3	31,75	291,42	454,73	1,2968	1,7755
69,0	5,932	1208,0	32,62	292,86	455,42	1,3010	1,7761
70,0	6,093	1204,7	33,52	294,31	456,11	1,3052	1,7767
71,0	6,258	1201,4	34,43	295,76	456,80	1,3094	1,7773
72,0	6,425	1198,0	35,36	297,22	457,48	1,3136	1,7779
73,0	6,596	1194,7	36,32	298,67	458,16	1,3178	1,7785
74,0	6,770	1191,3	37,30	300,13	458,84	1,3219	1,7791
75,0	6,948	1187,9	38,30	301,60	459,52	1,3261	1,7797

temperature [°C]	pressure [bar]	density [kg/m³]		enthalpy [kJ/kg]		entropy [J/kg*K]	
		liquid	vapour	liquid	vapour	liquid	vapour
76,0	7,129	1184,4	39,32	303,07	460,19	1,3303	1,7803
77,0	7,314	1181,0	40,36	304,54	460,86	1,3344	1,7809
78,0	7,502	1177,5	41,43	306,02	461,53	1,3386	1,7815
79,0	7,694	1174,0	42,53	307,50	462,19	1,3428	1,7821
80,0	7,890	1170,5	43,65	308,98	462,86	1,3469	1,7826
81,0	8,090	1166,9	44,79	310,47	463,51	1,3511	1,7832
82,0	8,293	1163,4	45,96	311,96	464,17	1,3552	1,7838
83,0	8,500	1159,7	47,16	313,46	464,82	1,3594	1,7844
84,0	8,711	1156,1	48,39	314,96	465,46	1,3636	1,7850
85,0	8,925	1152,5	49,64	316,47	466,11	1,3677	1,7855
86,0	9,144	1148,8	50,92	317,97	466,74	1,3719	1,7861
87,0	9,367	1145,1	52,23	319,49	467,38	1,3760	1,7867
88,0	9,594	1141,3	53,58	321,01	468,01	1,3802	1,7872
89,0	9,824	1137,5	54,95	322,53	468,63	1,3843	1,7878
90,0	10,06	1133,7	56,36	324,06	469,26	1,3885	1,7883
91,0	10,30	1129,9	57,80	325,59	469,87	1,3926	1,7889
92,0	10,54	1126,0	59,27	327,12	470,48	1,3968	1,7894
93,0	10,79	1122,1	60,78	328,67	471,09	1,4009	1,7899
94,0	11,04	1118,2	62,32	330,21	471,69	1,4051	1,7905
95,0	11,30	1114,2	63,90	331,76	472,29	1,4093	1,7910
96,0	11,56	1110,2	65,52	333,32	472,88	1,4134	1,7915
97,0	11,83	1106,1	67,17	334,88	473,47	1,4176	1,7920
98,0	12,10	1102,0	68,87	336,45	474,04	1,4217	1,7925
99,0	12,37	1097,9	70,61	338,02	474,62	1,4259	1,7930
100,0	12,65	1093,7	72,39	339,60	475,19	1,4301	1,7934
101,0	12,93	1089,5	74,21	341,18	475,75	1,4342	1,7939
102,0	13,22	1085,2	76,08	342,77	476,30	1,4384	1,7943
103,0	13,52	1080,9	78,00	344,36	476,85	1,4426	1,7948
104,0	13,81	1076,5	79,96	345,97	477,39	1,4468	1,7952
105,0	14,12	1072,1	81,98	347,57	477,92	1,4509	1,7956
106,0	14,43	1067,7	84,04	349,19	478,45	1,4551	1,7960
107,0	14,74	1063,1	86,16	350,81	478,96	1,4593	1,7964
108,0	15,06	1058,6	88,33	352,43	479,47	1,4635	1,7968
109,0	15,38	1053,9	90,57	354,07	479,97	1,4677	1,7972
110,0	15,71	1049,3	92,86	355,71	480,46	1,4719	1,7975
111,0	16,05	1044,5	95,21	357,35	480,94	1,4761	1,7978
112,0	16,39	1039,7	97,63	359,01	481,42	1,4803	1,7982
113,0	16,73	1034,8	100,1	360,67	481,88	1,4846	1,7984
114,0	17,08	1029,9	102,7	362,34	482,33	1,4888	1,7987
115,0	17,44	1024,9	105,3	364,02	482,77	1,4930	1,7990

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1,1,1,3,3-Pentafluoropropane



Saturated Pressure Table

temperature [°C]	pressure [bar]	density [kg/m ³]		enthalpy [kJ/kg]		entropy [J/kg*K]	
		liquid	vapour	liquid	vapour	liquid	vapour
116,0	17,80	1019,8	108,0	365,71	483,20	1,4973	1,7992
117,0	18,17	1014,6	110,8	367,40	483,61	1,5015	1,7994
118,0	18,54	1009,4	113,6	369,10	484,02	1,5058	1,7996
119,0	18,92	1004,0	116,6	370,82	484,41	1,5101	1,7998
120,0	19,30	998,60	119,6	372,54	484,79	1,5144	1,7999
121,0	19,70	993,08	122,7	374,27	485,15	1,5187	1,8000
122,0	20,09	987,47	126,0	376,02	485,50	1,5230	1,8001
123,0	20,50	981,75	129,3	377,77	485,83	1,5273	1,8001
124,0	20,90	975,93	132,8	379,54	486,15	1,5317	1,8001
125,0	21,32	969,99	136,3	381,31	486,45	1,5360	1,8001
126,0	21,74	963,93	140,0	383,10	486,73	1,5404	1,8000
127,0	22,17	957,75	143,8	384,90	486,99	1,5448	1,7999
128,0	22,61	951,43	147,8	386,72	487,23	1,5492	1,7998
129,0	23,05	944,97	151,9	388,55	487,45	1,5537	1,7996
130,0	23,50	938,36	156,1	390,39	487,64	1,5581	1,7993
131,0	23,95	931,59	160,5	392,25	487,82	1,5626	1,7991
132,0	24,41	924,65	165,1	394,13	487,96	1,5671	1,7987
133,0	24,88	917,52	169,9	396,02	488,08	1,5717	1,7983
134,0	25,36	910,20	174,9	397,94	488,16	1,5762	1,7978
135,0	25,84	902,66	180,1	399,87	488,22	1,5809	1,7973
136,0	26,33	894,89	185,5	401,82	488,24	1,5855	1,7967
137,0	26,83	886,88	191,3	403,80	488,22	1,5902	1,7960
138,0	27,34	878,59	197,3	405,81	488,16	1,5949	1,7952
139,0	27,85	870,01	203,6	407,84	488,06	1,5997	1,7944
140,0	28,37	861,09	210,2	409,90	487,91	1,6046	1,7934
141,0	28,90	851,82	217,3	411,99	487,71	1,6095	1,7923
142,0	29,44	842,13	224,8	414,13	487,44	1,6145	1,7911
143,0	29,98	831,98	232,7	416,30	487,11	1,6196	1,7897
144,0	30,54	821,30	241,2	418,52	486,71	1,6247	1,7882
145,0	31,10	810,00	250,4	420,80	486,22	1,6300	1,7865
146,0	31,67	797,98	260,4	423,14	485,62	1,6354	1,7845
147,0	32,25	785,09	271,2	425,57	484,91	1,6410	1,7823
148,0	32,84	771,10	283,2	428,09	484,04	1,6469	1,7797
149,0	33,44	755,70	296,6	430,73	482,99	1,6529	1,7767
150,0	34,05	738,39	312,0	433,55	481,69	1,6594	1,7732

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1,1,1,3,3-Pentafluoropropane



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
151,0	34,67	718,26	330,2	436,63	480,03	1,6665	1,7688
152,0	35,30	693,36	353,2	440,13	477,76	1,6745	1,7630
153,0	35,94	657,85	386,6	444,60	474,17	1,6848	1,7542

Calculated by Refprop version 10.0

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