



BRITON® 410A Technical Data

Briton® 410A BASIC PROPERTIES

Chemical formula	R125: CHF ₂ CF ₃ (50% by weight) R32: CH ₂ F ₂ (50% by weight)	Boiling point at 1 atmosphere	-51.5°C
Molecular weight	72.6	Critical temperature	71.4°C
		Critical pressure	48.9 bar absolute
		Temperature glide	0.1K

Briton® 410A THERMODYNAMIC PROPERTIES

Pressure (bar)	Liquid Temperature (°C)	Vapour Temperature (°C)	Liquid Density (kg/m ³)	Vapour Density (kg/m ³)	Liquid Enthalpy (kJ/kg)	Vapour Density (kJ/kg)	Liquid Entropy (kJ/kg.K)	Vapour Entropy (kJ/kg.K)
0.5	-64.4	-64.3	1389.7	2.2	109.9	393.6	0.693	2.051
0.6	-61.2	-61.1	1380.0	2.6	114.2	395.3	0.713	2.039
0.7	-58.5	-58.4	1371.5	3.0	118.0	396.8	0.731	2.029
0.8	-56.0	-55.9	1363.9	3.3	121.4	398.1	0.747	2.021
0.9	-53.7	-53.7	1356.9	3.7	124.4	399.3	0.761	2.013
1.0	-51.7	-51.6	1350.5	4.1	127.2	400.4	0.773	2.007
1.013	-51.5	-51.4	1349.7	4.2	127.6	400.5	0.775	2.006
1.5	-43.4	-43.3	1324.1	6.0	138.6	404.6	0.824	1.981
2.0	-37.1	-37.0	1303.4	7.9	147.4	407.7	0.861	1.964
2.5	-31.9	-31.8	1286.1	9.8	154.7	410.2	0.892	1.950
3.0	-27.4	-27.4	1271.1	11.7	161.0	412.2	0.917	1.939
3.5	-23.5	-23.5	1257.6	13.6	166.6	413.9	0.940	1.930
4.0	-20.0	-20.0	1245.3	15.4	171.6	415.3	0.959	1.922
4.5	-16.9	-16.8	1233.9	17.3	176.2	416.6	0.977	1.915
5.0	-14.0	-13.9	1223.3	19.2	180.4	417.7	0.994	1.909
5.5	-11.3	-11.2	1213.4	21.1	184.4	418.8	1.009	1.903
6.0	-8.7	-8.6	1203.9	23.0	188.1	419.7	1.023	1.898
6.5	-6.4	-6.3	1194.9	24.9	191.6	420.5	1.036	1.893
7.0	-4.2	-4.1	1186.3	26.8	195.0	421.2	1.048	1.889
7.5	-2.0	-1.9	1178.1	28.7	198.1	421.9	1.060	1.885
8.0	0.0	0.1	1170.1	30.7	201.2	422.5	1.071	1.881
8.5	1.9	2.0	1162.4	32.6	204.1	423.1	1.081	1.877
9.0	3.7	3.8	1154.9	34.6	206.9	423.6	1.091	1.874
9.5	5.5	5.6	1147.6	36.5	209.6	424.1	1.101	1.870
10.0	7.2	7.3	1140.5	38.5	212.2	424.5	1.110	1.867
11.0	10.4	10.5	1126.8	42.5	217.3	425.3	1.127	1.861
12.0	13.3	13.5	1113.7	46.6	222.0	425.9	1.144	1.855
13.0	16.2	16.3	1101.1	50.8	226.5	426.4	1.159	1.850
14.0	18.8	18.9	1088.8	55.0	230.8	426.8	1.174	1.845
15.0	21.3	21.4	1076.9	59.3	234.9	427.1	1.187	1.840
16.0	23.7	23.8	1065.2	63.7	238.9	427.3	1.200	1.835
17.0	26.0	26.1	1053.8	68.1	242.7	427.5	1.213	1.831
18.0	28.1	28.3	1042.6	72.7	246.4	427.5	1.225	1.826
19.0	30.2	30.3	1031.6	77.3	250.0	427.5	1.237	1.822
20.0	32.2	32.3	1020.7	82.1	253.5	427.5	1.248	1.817
21.0	34.2	34.3	1009.9	87.0	256.9	427.3	1.259	1.813
22.0	36.0	36.1	999.2	91.9	260.3	427.1	1.269	1.809
23.0	37.8	37.9	988.6	97.0	263.5	426.9	1.279	1.804
24.0	39.6	39.7	978.0	102.3	266.7	426.5	1.289	1.800
25.0	41.3	41.4	967.5	107.7	269.9	426.2	1.299	1.796
26.0	42.9	43.0	957.0	113.2	273.0	425.7	1.308	1.792
27.0	44.5	44.6	946.4	118.9	276.0	425.2	1.318	1.787
28.0	46.0	46.1	935.8	124.8	279.1	424.7	1.327	1.783
29.0	47.5	47.6	925.2	130.8	282.0	424.1	1.336	1.779
30.0	49.0	49.1	914.5	137.1	285.0	423.4	1.345	1.774

