



Typical Physical Properties of Aqueous Solutions of Inhibited Ethylene Glycol (freezing and boiling points)

Wt. % Ethylene Glycol	Vol. % Ethylene Glycol	Wt. % HTF-EG	Vol. % HTF-EG	Freezing Point °F	Boiling Point °F @ 760 mm Hg	Refractive Index 72°F
0.0	0.0	0.0	0.0	32.0	212	1.3328
5.0	4.4	5.2	4.6	29.4	213	1.3378
10.0	8.9	10.5	9.3	26.2	214	1.3428
15.0	13.6	15.7	14.2	22.2	215	1.3478
20.0	18.1	20.9	19.0	17.9	216	1.3530
21.0	19.2	22.0	20.1	16.8	216	1.3540
22.0	20.1	23.0	21.0	15.9	216	1.3551
23.0	21.0	24.1	22.0	14.9	217	1.3561
24.0	22.0	25.1	23.0	13.7	217	1.3572
25.0	22.9	26.2	24.0	12.7	218	1.3582
26.0	23.9	27.2	25.0	11.4	218	1.3593
27.0	24.8	28.3	26.0	10.4	218	1.3603
28.0	25.8	29.3	27.0	9.2	219	1.3614
29.0	26.7	30.4	28.0	8.0	219	1.3624
30.0	27.7	31.4	29.0	6.7	220	1.3635
31.0	28.7	32.5	30.2	5.4	220	1.3646
32.0	29.6	33.5	31.0	4.2	220	1.3656
33.0	30.6	34.6	32.0	2.9	220	1.3667
34.0	31.6	35.6	33.1	1.4	220	1.3678
35.0	32.6	36.6	34.1	-0.2	221	1.3688
36.0	33.5	37.7	35.1	-1.5	221	1.3699
37.0	34.5	38.7	36.1	-3.0	221	1.3709
38.0	35.5	39.8	37.2	-4.5	221	1.3720
39.0	36.5	40.8	38.2	-6.4	221	1.3730
40.0	37.5	41.9	39.3	-8.1	222	1.3741
41.0	38.5	42.9	40.3	-9.8	222	1.3752
42.0	39.5	44.0	41.4	-11.7	222	1.3763
43.0	40.5	45.0	42.4	-13.5	223	1.3774
44.0	41.5	46.1	43.5	-15.5	223	1.3785
45.0	42.5	47.1	44.5	-17.5	224	1.3796
46.0	43.5	48.2	45.5	-19.8	224	1.3807
47.0	44.5	49.2	46.6	-21.6	224	1.3817
48.0	45.5	50.2	47.6	-23.9	224	1.3828
49.0	46.6	51.3	48.8	-26.7	224	1.3838
50.0	47.6	52.4	49.8	-28.9	225	1.3849
51.0	48.6	53.4	50.9	-31.2	225	1.3859
52.0	49.6	54.5	51.9	-33.6	225	1.3869
53.0	50.6	55.5	53.0	-36.2	226	1.3879
54.0	51.6	56.4	54.0	-38.8	226	1.3890
55.0	52.7	57.6	55.2	-42.0	227	1.3900
56.0	53.7	58.6	56.2	-44.7	227	1.3910
57.0	54.7	59.7	57.3	-47.5	228	1.3921
58.0	55.7	60.7	58.3	-50.0	228	1.3931
59.0	56.8	61.8	59.5	-52.7	229	1.3942
60.0	57.8	62.8	60.5	-54.9	230	1.3952
65.0	62.8	68.0	65.8	*	235	1.4003
70.0	68.3	73.3	71.5	*	242	1.4055
75.0	73.6	78.5	77.1	*	248	1.4107
80.0	78.9	83.8	82.6	-52.2	255	1.4159
85.0	84.3	89.0	88.3	-34.5	273	1.4208
90.0	89.7	94.2	93.9	-21.6	285	1.4255
95.0	95.0	99.5	99.5	-3.0	317	1.4300

*Freeze points are below -60°F.

Typical properties are not to be confused with specifications. For additional protection, select a temperature in the above table that is at least 5°F lower than the expected lowest ambient temperature. When using solutions of less than 30% glycol, adjust inhibitor levels.