

GLYCOL CONCENTRATION CORRESPONDING FREEZE POINT

ETHYLENE GLYCOL

Density (g/cm ³) @20°C	%by wt	%by vol	Freeze Point °C
1.000	0	0.0	0
1.001	2	1.8	-1
1.002	3	2.7	-1
1.003	4	3.6	-1
1.004	5	4.4	-2
1.006	6	5.4	-2
1.007	7	6.3	-2
1.008	8	7.2	-3
1.010	9	8.2	-3
1.011	10	8.9	-3
1.013	12	10.9	-4
1.016	14	12.8	-5
1.019	16	14.6	-6
1.021	18	16.5	-7
1.024	20	18.1	-8
1.030	24	22.0	-10
1.035	28	25.8	-13
1.041	32	29.6	-16
1.046	36	33.5	-20
1.051	40	37.5	-24
1.057	44	41.5	-28
1.062	48	45.5	-33
1.067	52	49.6	-39
1.072	56	53.7	-45
1.077	60	57.8	-51

Density (g/cm ³) @20°C	%by wt	%by vol	Freeze Point °C
1.000	0	0.0	0
1.003	4	3.8	-1
1.006	8	7.7	-2
1.009	12	11.6	-4
1.012	16	15.5	-5
1.016	20	19.4	-7
1.018	22	21.4	-8
1.020	24	23.4	-9
1.022	27	26.4	-11
1.025	30	29.4	-13
1.027	32	31.4	-14
1.029	34	33.5	-16
1.031	37	36.5	-18
1.034	40	39.6	-21
1.036	42	41.6	-22
1.038	45	44.7	-27
1.040	48	47.8	-30
1.041	50	49.9	-34

Due to the nature of propylene glycol, concentration greater than 50% must be performed by a refractometer, as specific gravity determinations are unreliable °F=(°Cx1.8)+32