

Dynalene EG

Inhibited Ethylene Glycol Heat Transfer Fluid

Dynalene EG[®] is an inhibited ethylene glycol, that offers superior performance at lower temperatures, when compared to other glycols. **Dynalene EG[®]** has been formulated to give your system better freeze, burst and corrosion protection at extreme temperatures.

Dynalene's Glycol family of fluids is available across North America in bulk trucks, IBC (totes) containers, 55-gallon drums, 30-gallon drums, and 5 gallon pails at a reasonable price.



Prime Applications

- HVAC/R
- Solar applications
- Thermal Energy Storage
- Process Cooling/Heating
- Line Heaters
- Ice and Snow Melting Systems
- Refrigeration Systems
- Plastic Extrusion
- Geothermal and Solar

Typical Properties of Dynalene EG[®]

Composition (% by weight)

Ethylene Glycol	:	94.5%
Inhibitors	:	5.5%

Appearance and Color: Clear
Odor: Sweet

Reserve Alkalinity (min.) :	10.6 ml
Flash Point (closed cup) :	120°C (248°F)
pH :	8.5 — 9.5

*-None for <85% Concentration

Recommended Temperature Ranges:
Closed System: -40°C (-40°F) to 121°C (250°F)

Benefits of using Dynalene EG[®]

- Pre-mix solutions
- Custom blends
- Ability to be re-inhibited
- Proven performance
- Available throughout North America
- Cost effective
- Total Fluid Care
- Business Partnership Program

For more technical, health and safety information or to request a Material Safety Data Sheet (MSDS), contact our Dynalene sales representative at:
Phone: 610-262-9686 Fax: 610-262-7437 E-mail: info@dynalene.com

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Dynalene EG		Freezing Point		Boiling Point	Refractive Index	Specific Gravity
Vol %	Wt %	°F	°C	°F	22°C (72°F)	22°C (72°F)
0	0	32	0	212	1.3328	1
5	5.6	29	-1.7	213	1.338	1.008
10	11.2	26	-3.3	214	1.344	1.02
15	16.6	22	-5.5	215	1.3495	1.026
20	22	16	-8.5	216	1.3551	1.033
21	23	15	-8.9	217	1.3561	1.035
22	24.1	14	-10	217	1.3573	1.036
23	25.2	13	-10.5	218	1.3584	1.037
24	26.2	11	-11.7	218	1.3595	1.039
25	27.3	10	-12.2	218	1.3606	1.04
26	28.4	9	-12.8	219	1.3618	1.041
27	29.4	8	-13.3	219	1.3628	1.042
28	30.5	6	-14.4	220	1.364	1.044
29	31.5	5	-15	220	1.3651	1.045
30	32.6	4	-15.6	220	1.3662	1.047
31	33.6	3	-16.1	220	1.3674	1.048
32	34.7	1	-17.2	220	1.3685	1.049
33	35.7	0	-17.8	221	1.3695	1.05
34	36.7	-2	-18.9	221	1.3706	1.052
35	37.7	-3	-19.4	221	1.3717	1.053
36	38.8	-5	-20.6	221	1.3728	1.054
37	39.8	-7	-21.7	222	1.3738	1.056
38	40.8	-9	-22.8	222	1.3749	1.057
39	41.9	-11	-23.9	222	1.3761	1.058
40	42.9	-13	-25	223	1.3773	1.06
41	43.9	-15	-26.1	223	1.3784	1.061
42	44.9	-17	-27.2	224	1.3795	1.062
43	46	-19	-28.3	224	1.3807	1.064
44	47	-21	-29.4	224	1.3817	1.065
45	48	-24	-31.1	224	1.3828	1.066
46	49	-26	-32.2	224	1.3838	1.068
47	50	-29	-33.9	225	1.3848	1.069
48	51	-31	-35	225	1.3859	1.07
49	52	-33	-36.1	225	1.3869	1.072
50	53	-36	-37.8	226	1.3879	1.073
51	54	-38	-38.9	226	1.389	1.074
52	55	-42	-41.1	227	1.39	1.076
53	56	-44	-42.2	227	1.391	1.077
54	57	-47	-43.9	228	1.3921	1.078
55	57.9	-50	-45.6	228	1.393	1.081
56	58.9	-52	-46.7	229	1.3941	1.082
57	59.9	-54	-47.8	230	1.3951	1.083
58	60.9	-56	-48.9	230	1.3961	1.084
59	61.9	<-60	<-51.1	231	1.3972	1.085
60	62.8	<-60	<-51.1	232	1.3982	1.086
65	67.9	<-60	<-51.1	237	1.4033	1.093
70	72.4	<-60	<-51.1	244	1.4077	1.1
75	77.2	<-60	<-51.1	251	1.4132	1.106
80	81.8	-52	-46.7	263	1.4171	1.11
90	91	-20	-28.9	290	1.4266	1.118
100	100	2	-16.7	317	1.43	1.127

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TEMP	Dynalene EG									
	Viscosity (cP)									
°F	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%
-30							89.67	128.79	185.22	
-20						40.38	60.46	89.93	131.32	284.48
-10						27.27	42.05	63.5	91.88	169.83
0					13.76	19.34	30.08	45.58	65.04	107.77
10				6.83	10.13	14.26	22.06	33.31	46.89	71.87
20			3.9	5.38	7.74	10.85	16.56	24.79	34.48	49.94
30		2.16	3.14	4.33	6.09	8.48	12.68	18.77	25.84	35.91
40	1.53	1.82	2.59	3.54	4.91	6.77	9.9	14.45	19.71	26.59
50	1.3	1.56	2.18	2.95	4.04	5.5	7.85	11.31	15.29	20.18
60	1.12	1.35	1.86	2.49	3.38	4.55	6.33	8.97	12.05	15.65
70	0.98	1.18	1.61	2.13	2.87	3.81	5.17	7.22	9.62	12.37
80	0.86	1.04	1.41	1.84	2.46	3.23	4.28	5.88	7.79	9.93
90	0.76	0.93	1.24	1.6	2.13	2.76	3.58	4.85	6.38	8.1
100	0.68	0.83	1.11	1.41	1.87	2.39	3.03	4.04	5.28	6.68
120	0.55	0.68	0.9	1.11	1.46	1.82	2.23	2.88	3.73	4.71
140	0.46	0.57	0.74	0.9	1.17	1.43	1.69	2.13	2.72	3.45
160	0.39	0.49	0.63	0.75	0.95	1.15	1.32	1.63	2.05	2.6
180	0.34	0.43	0.54	0.63	0.79	0.94	1.06	1.27	1.58	2.01
200	0.3	0.37	0.47	0.54	0.67	0.78	0.86	1.02	1.25	1.6
220	0.26	0.33	0.41	0.46	0.57	0.66	0.72	0.83	1.01	1.29

TEMP	Dynalene EG									
	Thermal Conductivity (Btu/(hr*ft*F))									
°F	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%
-30							0.178	0.167	0.158	
-20						0.193	0.181	0.17	0.16	0.151
-10						0.197	0.184	0.172	0.161	0.152
0					0.216	0.2	0.186	0.174	0.163	0.153
10				0.238	0.22	0.204	0.189	0.176	0.164	0.154
20			0.264	0.243	0.224	0.207	0.191	0.178	0.166	0.155
30		0.294	0.269	0.247	0.227	0.21	0.194	0.18	0.167	0.156
40	0.328	0.3	0.274	0.251	0.231	0.212	0.196	0.182	0.169	0.157
50	0.335	0.305	0.279	0.255	0.234	0.215	0.198	0.183	0.17	0.158
60	0.341	0.311	0.284	0.259	0.237	0.218	0.2	0.185	0.171	0.159
70	0.347	0.316	0.288	0.263	0.24	0.22	0.202	0.186	0.172	0.16
80	0.352	0.32	0.292	0.266	0.243	0.223	0.204	0.188	0.173	0.161
90	0.358	0.325	0.296	0.269	0.246	0.225	0.206	0.189	0.174	0.161
100	0.362	0.329	0.299	0.272	0.248	0.227	0.208	0.19	0.175	0.162
120	0.371	0.336	0.305	0.277	0.253	0.23	0.21	0.193	0.177	0.163
140	0.378	0.342	0.311	0.282	0.256	0.233	0.213	0.195	0.179	0.165
160	0.384	0.347	0.315	0.285	0.259	0.236	0.215	0.197	0.18	0.166
180	0.388	0.351	0.318	0.288	0.262	0.238	0.217	0.198	0.181	0.167
200	0.391	0.353	0.32	0.29	0.263	0.24	0.218	0.199	0.182	0.168
220	0.392	0.355	0.321	0.291	0.265	0.24	0.219	0.2	0.183	0.168

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TEMP	Dynalene EG									
	Specific Heat Btu/lb*F									
°F	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%
-30							0.669	0.61	0.55	
-20						0.73	0.674	0.617	0.557	0.495
-10						0.735	0.68	0.624	0.564	0.503
0					0.792	0.74	0.686	0.63	0.572	0.511
10				0.845	0.796	0.745	0.692	0.637	0.579	0.519
20			0.894	0.848	0.801	0.751	0.698	0.643	0.586	0.527
30		0.939	0.897	0.852	0.805	0.756	0.704	0.65	0.593	0.534
40	1.004	0.941	0.9	0.856	0.81	0.761	0.71	0.657	0.601	0.542
50	1.001	0.944	0.903	0.86	0.814	0.766	0.716	0.663	0.608	0.55
60	1	0.946	0.907	0.864	0.819	0.772	0.722	0.67	0.615	0.558
70	0.999	0.948	0.91	0.868	0.824	0.777	0.728	0.676	0.622	0.566
80	0.998	0.951	0.913	0.871	0.828	0.782	0.734	0.683	0.63	0.574
90	0.998	0.953	0.916	0.875	0.833	0.781	0.74	0.69	0.637	0.582
100	0.998	0.956	0.919	0.879	0.837	0.793	0.746	0.696	0.644	0.59
120	0.998	0.96	0.925	0.887	0.846	0.803	0.757	0.709	0.659	0.606
140	0.999	0.965	0.931	0.895	0.855	0.814	0.769	0.723	0.673	0.621
160	1.001	0.97	0.938	0.902	0.865	0.824	0.781	0.736	0.688	0.637
180	1.003	0.974	0.944	0.91	0.874	0.835	0.793	0.749	0.702	0.653
200	1.005	0.979	0.95	0.918	0.883	0.845	0.805	0.762	0.717	0.669
220	1.008	0.984	0.956	0.925	0.892	0.856	0.817	0.775	0.731	0.685

TEMP	Dynalene EG									
	Density lb/ft3									
°F	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%
-30							70.4	71.33	72.19	
-20						69.26	70.26	71.17	72.02	72.82
-10						69.12	70.1	71.01	71.85	72.63
0					67.93	68.97	69.94	70.84	71.67	72.45
10				66.68	67.79	68.82	69.78	70.66	71.49	72.26
20			65.36	66.55	67.64	68.66	69.6	70.48	71.3	72.08
30		63.97	65.23	66.41	67.49	68.49	69.43	70.29	71.1	71.86
40	62.42	63.86	65.1	66.27	67.33	68.32	69.24	70.1	70.9	71.65
50	62.38	63.74	64.97	66.11	67.17	68.14	69.08	69.9	70.7	71.44
60	62.34	63.62	64.83	65.96	66.99	67.96	68.86	69.7	70.48	71.32
70	62.27	63.49	64.68	65.79	66.82	67.77	68.66	69.49	70.27	70.99
80	62.19	63.35	64.52	65.62	66.63	67.58	68.46	69.28	70.05	70.77
90	62.11	63.21	64.36	65.45	66.44	67.38	68.25	69.06	69.82	70.53
100	62	63.06	64.2	65.27	66.25	67.17	68.03	68.83	69.59	70.29
120	61.73	62.74	63.85	64.88	65.84	66.74	67.58	68.36	69.1	69.8
140	61.39	62.4	63.47	64.48	65.41	66.28	67.1	67.87	68.6	69.29
160	61.01	62.04	63.07	64.05	64.95	65.8	66.61	67.36	68.08	68.75
180	60.57	61.64	62.65	63.59	64.47	65.3	66.09	66.83	67.53	68.2
200	60.13	61.23	62.2	63.11	63.97	64.78	65.54	66.27	66.96	67.62
220	59.63	60.79	61.72	62.61	63.44	64.23	64.98	65.69	66.37	67.03