



Dynalene BioGlycol

“Natures First Glycol”

Inhibited Trimethylene Glycol Heat Transfer Fluid

Dynalene BioGlycol[®] is a domestically produced, non-toxic, renewably sourced fluid. Dynalene BioGlycol[®] provides a 30% lower viscosity at low temperatures, compared to traditional petroleum derived propylene glycol.

Dynalene BioGlycol[®] offers greater thermal stability while possessing similar or better physical properties compared to ethylene and propylene glycol fluids. Dynalene BioGlycol[®] offers better performance than propylene glycol, while giving it's users an environmentally safer product than ethylene glycol fluids.

Typical Properties of Dynalene BioGlycol		
Composition: BioGlycol + DI + Corrosion Water Inhibitor		
Appearance and Color: Clear		
Odor: Sweet		
Property	SI units	US units
Boiling Point:	>100 °C	>212 °F
Melting Point:	-53° C	-64° F
Flash Point:	None	None
Autoignition Temp:	None	None
Refractive Index * :	1.439	
* - at 20° C (68° F)		

Recommended Temperature Ranges: Closed System: -29°C(-20°F) to 121°C (250°F)

What makes Dynalene BioGlycol[®] better for the environment?

- Produced from domestically grown corn instead of oil
- Completely renewable
- Completely non-toxic

What makes Dynalene BioGlycol[®] better for your system?

- Better thermal stability means longer lifetime of fluid
- Lower viscosity at lower temperatures means less energy to pump
- A drop in replacement for Propylene Glycol means no modifications to change your system to a “green” system

What makes Dynalene BioGlycol[®] Better for you?

- Safe to use: non-toxic and non-hazardous
- Competitively Priced: Name your price we will try to match it!
- Peace of mind: Our state of the art laboratory and tech support services keep your fluid working properly and help to stop problems before they happen!

“Better for the environment”
“Better for your system”
“Better for you”



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

Dynalene BioGlycol

% by wt	% by Vol	Melting Point °F	Melting Point °C	Specific Gravity at 72°F
0	0	31	-1	1.017
5	5	29	-2	1.019
15	15	25	-4	1.023
25	25	16	-9	1.027
35	35	5	-15	1.031
45	45	-9	-23	1.035
50	50	-17	-27	1.037
55	55	-27	-33	1.039
65	65	-50	-46	1.043
75	75	-57	-49	1.047
85	85	-64	-53	1.051

Temp (°F)	Dynalene BioGlycol							
	Specific Heat (Btu/(lb)(°F))							
	10%	20%	30%	40%	50%	60%	70%	80%
-20						0.74	0.69	0.65
-10					0.79	0.75	0.70	0.66
0				0.84	0.80	0.75	0.71	0.66
10			0.89	0.85	0.81	0.76	0.72	0.67
20		0.95	0.90	0.86	0.81	0.77	0.72	0.68
30	1.00	0.96	0.91	0.87	0.82	0.78	0.73	0.69
40	1.01	0.96	0.92	0.87	0.83	0.78	0.74	0.69
50	1.02	0.97	0.93	0.88	0.84	0.79	0.75	0.70
60	1.02	0.98	0.93	0.89	0.84	0.80	0.75	0.71
70	1.03	0.99	0.94	0.90	0.85	0.81	0.76	0.72
80	1.04	0.99	0.95	0.90	0.86	0.81	0.77	0.73
90	1.05	1.00	0.96	0.91	0.87	0.82	0.78	0.73
100	1.05	1.01	0.96	0.92	0.87	0.83	0.79	0.74
110	1.06	1.02	0.97	0.93	0.88	0.84	0.79	0.75
120	1.07	1.02	0.98	0.94	0.89	0.85	0.80	0.76
130	1.08	1.03	0.99	0.94	0.90	0.85	0.81	0.76
140	1.08	1.04	1.00	0.95	0.91	0.86	0.82	0.77
150	1.09	1.05	1.00	0.96	0.91	0.87	0.82	0.78
160	1.10	1.06	1.01	0.97	0.92	0.88	0.83	0.79
170	1.11	1.06	1.02	0.97	0.93	0.88	0.84	0.79
180	1.12	1.07	1.03	0.98	0.94	0.89	0.85	0.80
190	1.12	1.08	1.03	0.99	0.94	0.90	0.85	0.81
200	1.13	1.09	1.04	1.00	0.95	0.91	0.86	0.82
210	1.14	1.09	1.05	1.00	0.96	0.92	0.87	0.83
220	1.15	1.10	1.06	1.01	0.97	0.92	0.88	0.83
230	1.15	1.11	1.06	1.02	0.98	0.93	0.89	0.84
240	1.16	1.12	1.07	1.03	0.98	0.94	0.89	0.85

Temp (°F)	Dynalene BioGlycol						
	Viscosity cP						
	10%	20%	30%	40%	50%	60%	70%
-20						146.00	190.18
-10					45.65	128.66	119.55
0				24.31	32.10	55.14	77.34
10			10.98	18.45	24.29	37.12	52.11
20		5.07	8.62	14.11	18.80	27.87	36.82
30	2.57	4.12	6.81	10.84	14.67	21.65	27.25
40	2.28	3.38	5.42	8.39	11.50	16.99	20.94
50	2.02	2.81	4.37	6.55	9.07	13.38	16.51
60	1.77	2.35	3.56	5.18	7.22	10.57	13.19
70	1.55	1.99	2.93	4.15	5.80	8.40	10.60
80	1.35	1.70	2.44	3.38	4.72	6.73	8.53
90	1.17	1.47	2.06	2.79	3.89	5.44	6.86
100	1.01	1.28	1.76	2.34	3.25	4.46	5.54
110	0.87	1.13	1.52	1.99	2.75	3.70	4.50
120	0.74	1.00	1.33	1.72	2.36	3.12	3.71
130	0.63	0.89	1.17	1.51	2.05	2.66	3.11
140	0.54	0.80	1.04	1.34	1.81	2.31	2.67
150	0.47	0.73	0.93	1.20	1.61	2.03	2.34
160	0.41	0.67	0.85	1.09	1.45	1.81	2.10
170	0.37	0.61	0.77	1.00	1.32	1.64	1.92
180	0.35	0.57	0.71	0.93	1.21	1.50	1.79
190	0.34	0.53	0.66	0.88	1.13	1.40	1.69
200	0.34	0.49	0.62	0.83	1.06	1.32	1.61
210	0.36	0.46	0.58	0.80	1.00	1.26	1.56
220	0.38	0.44	0.55	0.77	0.96	1.22	1.53
230	0.43	0.42	0.53	0.75	0.92	1.20	1.51
240	0.48	0.40	0.50	0.73	0.89	1.19	1.52

Dynalene BioGlycol

Temp (°F)	Dynalene BioGlycol							
	Density (lb/ft³)							
	10%	20%	30%	40%	50%	60%	70%	80%
-20					66.46	66.93	67.34	68.13
-10					66.35	66.81	67.2	67.87
0				65.71	66.23	66.68	67.05	67.62
10			65	65.6	66.11	66.54	66.89	67.36
20		64.23	64.9	65.48	65.97	66.38	66.72	67.1
30	63.38	64.14	64.79	65.35	65.82	66.22	66.54	66.83
40	63.3	64.03	64.67	65.21	65.67	66.05	66.35	66.57
50	63.2	63.92	64.53	65.06	65.5	65.87	66.16	66.3
60	63.1	63.79	64.39	64.9	65.33	65.68	65.95	66.04
70	62.98	63.66	64.24	64.73	65.14	65.47	65.73	65.77
80	62.86	63.52	64.08	64.55	64.95	65.26	65.51	65.49
90	62.73	63.37	63.91	64.36	64.74	65.04	65.27	65.22
100	62.59	63.2	63.73	64.16	64.53	64.81	65.03	64.92
120	62.28	62.85	63.33	63.74	64.06	64.32	64.51	64.39
140	61.93	62.46	62.9	63.27	63.57	63.79	63.95	63.83
160	61.54	62.03	62.43	62.76	63.03	63.22	63.35	63.26
180	61.11	61.56	61.92	62.22	62.45	62.61	62.72	62.68
200	60.65	61.05	61.37	61.63	61.83	61.97	62.05	62.1
220	60.15	60.5	60.78	61	61.17	61.28	61.33	61.51
240	59.61	59.91	60.15	60.34	60.47	60.55	60.58	60.91

TEMP (°F)	Dynalene BioGlycol							
	Thermal Conductivity (Btu/hr*ft*F)							
	10%	20%	30%	40%	50%	60%	70%	80%
-20					0.188	0.174	0.16	0.148
-10					0.191	0.176	0.161	0.148
0				0.211	0.194	0.178	0.162	0.149
10			0.235	0.215	0.196	0.179	0.163	0.149
20		0.262	0.239	0.218	0.199	0.181	0.164	0.15
30	0.293	0.267	0.243	0.222	0.201	0.183	0.165	0.15
40	0.299	0.272	0.247	0.225	0.204	0.184	0.166	0.15
50	0.304	0.277	0.251	0.227	0.206	0.186	0.167	0.15
60	0.31	0.281	0.254	0.23	0.208	0.187	0.168	0.15
70	0.315	0.285	0.258	0.233	0.21	0.188	0.168	0.151
80	0.319	0.289	0.261	0.235	0.211	0.189	0.169	0.151
90	0.323	0.292	0.263	0.237	0.213	0.19	0.169	0.151
100	0.327	0.295	0.266	0.239	0.214	0.191	0.17	0.151
120	0.331	0.298	0.268	0.241	0.215	0.192	0.17	0.151
140	0.34	0.306	0.274	0.245	0.218	0.194	0.171	0.15
160	0.345	0.309	0.277	0.247	0.22	0.194	0.171	0.15
180	0.348	0.312	0.279	0.249	0.221	0.195	0.17	0.149
200	0.351	0.314	0.28	0.249	0.221	0.194	0.17	0.148
220	0.352	0.314	0.28	0.249	0.22	0.194	0.169	0.147