

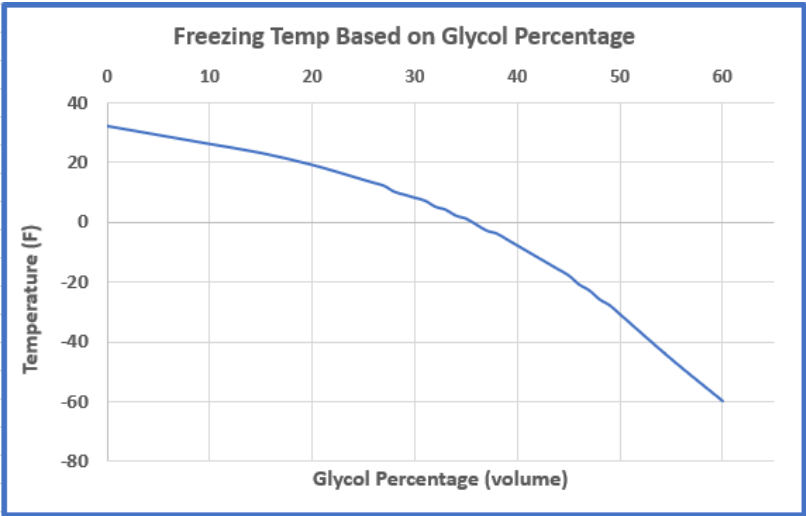


## HSE Corn Glycol Concentrated Formula

HotSpot Energy uses sustainable, bio-based materials (corn) in the manufacturing of propylene glycol. Unlike typical propylene or ethylene glycol which is made from fossil fuels, HSE Corn Glycol glycol is environmentally friendly, and domestically sustainable.

**HSE Corn Glycol is Propanediol 1,2 and is chemically identical to standard propylene glycol.**

HSE Corn Glycol is manufactured to be food grade – making it completely safe and non-toxic. This makes it an excellent choice for hydronic heating systems, chillers, solar heating or water heating systems and any applications that need safe, renewable, natural, anti-freeze protection. Shipped as a 100% concentrate, this glycol allows you to mix the ratio on site, allowing you to customize the exact freeze protection you need for your specific environment.



HSE Corn Glycol is available in 5 gallon pails, 55 gallon drums, 265 gallon totes, and 5,000 gallon tanker truck loads.

### Viscosity Chart

Temp, F	20%	25%	30%	35%	40%	45%	50%	55%	60%
-20									146
-10							45.6	86.8	128
0					24.3	28.2	32.1	43.6	55.1
10			10.9	14.7	18.4	21.3	24.2	30.7	37.1
20	5.10	6.80	8.60	11.4	14.1	16.5	18.8	23.3	27.8
30	4.12	5.47	6.81	8.81	10.8	12.7	14.6	18.1	21.6
40	3.38	4.40	5.42	6.91	8.39	9.95	11.5	14.2	16.9
50	2.81	3.59	4.37	5.46	6.55	7.81	9.07	11.2	13.3
60	2.35	2.96	3.56	4.37	5.18	6.20	7.22	8.86	10.5
70	1.99	2.46	2.93	3.54	4.15	4.98	5.80	7.10	8.40
80	1.70	2.07	2.44	2.91	3.38	4.05	4.72	5.73	6.73
90	1.47	1.77	2.06	2.43	2.79	3.34	3.89	4.67	5.44
100	1.28	1.52	1.76	2.05	2.34	2.80	3.25	3.86	4.46
120	1.00	1.17	1.33	1.53	1.72	2.04	2.36	2.74	3.12
140	0.80	0.92	1.04	1.19	1.34	1.58	1.81	2.06	2.31
160	0.67	0.76	0.85	0.97	1.09	1.27	1.45	1.63	1.81
180	0.57	0.64	0.71	0.82	0.93	1.07	1.21	1.36	1.50
200	0.49	0.56	0.62	0.73	0.83	0.95	1.06	1.19	1.32
220	0.44	0.50	0.55	0.66	0.77	0.87	0.96	1.09	1.22
240	0.40	0.45	0.50	0.62	0.73	0.81	0.89	1.04	1.19



## HSE Corn Glycol

### Propylene Glycol Derived From Corn

- ☼ Made in USA from corn with no fossil fuel or petroleum contents
- ☼ Up to 30% Lower Viscosity than standard PG
- ☼ 100% renewable
- ☼ Superior heat transfer
- ☼ Competitively priced

- ☼ Non-toxic, food-grade (but it doesn't taste very good)
- ☼ Biodegradable
- ☼ 8.2 PH
- ☼ Corrosion Inhibited Formula
- ☼ ISO-9001 Production Facility

Vol. %	Wt. %	Freezing Point		Burst Point		Boiling Point	*Reserve Alkalinity	Specific Gravity
PG	PG	°F	°C	°F	°C	°F	(mL)	22°C (72°F)
0	0.0	32	0	32	0.0	212	0	1.000
5	5.2	29	-1.7	27	-2.7	212	≥ 0.5	1.005
10	10.5	26	-3.3	22	-5.6	212	≥ 1.0	1.010
15	15.6	23	-5.0	19	-7.5	212	≥ 1.5	1.015
20	20.8	19	-7.2	11	-11.8	213	≥ 2.0	1.020
25	25.9	14	-10.1	-1	-18.4	214	≥ 2.5	1.025
26	27.0	13	-10.6	-4	-20.1	214	≥ 2.6	1.026
27	28.0	12	-11.1	-7	-21.8	214	≥ 2.7	1.027
28	29.0	10	-12.2	-10	-23.6	215	≥ 2.8	1.028
29	30.1	9	-12.8	-14	-25.5	216	≥ 2.9	1.029
30	31.1	8	-13.3	-18	-27.5	216	≥ 3.0	1.030
31	32.1	7	-13.9	-21	-29.6	216	≥ 3.1	1.031
32	33.1	5	-15.0	-24	-31.1	216	≥ 3.2	1.032
33	34.1	4	-15.6	-30	-34.4	216	≥ 3.3	1.032
34	35.1	2	-16.7	-38	-38.9	217	≥ 3.4	1.033
35	36.1	1	-17.2	-46	-43.3	217	≥ 3.5	1.034
36	37.2	-1	-18.3	-53	-47.2	217	≥ 3.6	1.035
37	38.2	-3	-19.4	-60	-51.1	218	≥ 3.7	1.036
38	39.2	-4	-20.0	<-60	<-51.1	218	≥ 3.8	1.037
39	40.2	-6	-21.1	<-60	<-51.1	219	≥ 3.9	1.038
40	41.2	-8	-22.2	<-60	<-51.1	219	≥ 4.0	1.039
41	42.2	-10	-23.3	<-60	<-51.1	219	≥ 4.1	1.040
42	43.2	-12	-24.4	<-60	<-51.1	219	≥ 4.2	1.041
43	44.2	-14	-25.5	<-60	<-51.1	219	≥ 4.3	1.042
44	45.2	-16	-26.7	<-60	<-51.1	220	≥ 4.4	1.043
45	46.2	-18	-27.8	<-60	<-51.1	220	≥ 4.5	1.044
46	47.2	-21	-29.4	<-60	<-51.1	220	≥ 4.6	1.045
47	48.2	-23	-30.6	<-60	<-51.1	221	≥ 4.7	1.046
48	49.2	-26	-32.2	<-60	<-51.1	221	≥ 4.8	1.047
49	50.2	-28	-33.3	<-60	<-51.1	222	≥ 4.9	1.048
50	51.2	-31	-35.0	<-60	<-51.1	222	≥ 5.0	1.049
55	56.2	-46	-43.3	<-60	<-51.1	223	≥ 5.5	1.052
60	61.2	<-60	-51.1	<-60	<-51.1	225	≥ 6.0	1.055
65	66.1	<-60	-51.1	<-60	<-51.1	227	≥ 6.5	1.057
70	71.0	<-60	-51.1	<-60	<-51.1	230	≥ 7.0	1.057
80	80.8	<-60	-51.1	<-60	<-51.1	246	≥ 8.0	1.059
90	90.4	<-60	-51.1			270	≥ 9.0	1.056
95	95.2	<-60	-51.1			310	≥ 9.5	1.052