

Non-Toxic, Low Odor, Low-Temperature Heat Transfer Fluid

Process Applications

- Low temperature applications
- Pharmaceutical
- Food and beverage
- Process cooling & heating
- Calibration baths
- Small circulation systems
- Refrigeration systems
- Reactor cooling
- Open temperature baths

■ Dynalene LO-170 Overview

Dynalene LO-170 heat transfer fluid is a non-toxic, thermally effective, odorless fluid. It can be used in a variety of different applications, including open temperature baths or closed loop industrial heat transfer systems. Due to the non-aqueous nature of the fluid, it can be used with water-sensitive chemicals to reduce process hazards.

Dynalene LO-170 is a food-safe product used in pharmaceutical, food & beverage, and process heating and cooling systems. This fluid meets several Food & Drug Administration 21 CFR requirements. Contact our sales personnel for more information.

■ Materials Compatibility

Polymer and Gasket Compatibility:

- Acetal
- Aramid Fiber
- Chemraz (FFKM)
- Epoxy
- Fluorocarbon (FILM)
- Fluoroelastomer
- Glass Fiber
- Gylon
- Kalrez
- Kel-F (CTFE)
- Peek
- PTFE
- Teflon (All)
- PTFE-Silicone
- PTFE-Viton
- PTFE-Fiberglass
- Viton
- Resin-Graphite

Metal Compatibility:

- Aluminum
- Brass
- Bronze (All)
- Carbon Steel
- Copper
- Copper-Nickel
- Monel
- Nickel
- Stainless Steel (All)
- Stainless Steel Clad
- Tantalum
- Titanium

■ Benefits of Choosing Dynalene LO-170

- Non-toxic
- Odorless
- Thermally effective
- Available worldwide
- Cost-effective
- Total fluid care option
- Proven performance
- Available in colorless or blue

Recommended Temperature Range:

Open System:

-40°C (-40°F) to 74°C (165°F)

Closed System:

-40°C (-40°F) to 205°C (400°F)

■ Properties of Dynalene LO-170

A comprehensive list of all thermo-physical properties of Dynalene LO-170 can be found on page 2. For health and safety information or to request a Safety Data Sheet, contact our Dynalene sales representatives.

Composition:	Aliphatic hydrocarbon blend
Appearance:	Clear
Odor:	None
Freezing Point:	<-60°C (<-76°F)
Boiling Point:	>223°C (>433°F)
Flash Point (Closed):	>90°C (>194°F)
Autoignition Temperature:	262°C (504°F)
Viscosity*:	2.6 mPa·s (2.6 cP)
Specific Gravity*:	0.776
Specific Heat*:	1.88 kJ/kgK (0.45 BTU/lb°F)
Thermal Conductivity*:	0.11 W/mK (0.065 BTU/fthr°F)
<i>*taken at 20°C (68°F)</i>	
Molecular Weight	191
Dielectric Constant	2.05

■ Quantity & Availability

Dynalene LO products are usually purchased in 1, 5, and 55-gallon containers, but bulk tankers are also available. Pricing depends on quantity, and Dynalene, Inc. will work with you to try to fit your budget.

■ Dynalene's Fluid Care Program

Coupling our Dynalene fluids with a fluid care program can extend the life of your systems significantly. We offer yearly testing of the heat transfer fluid in your system and can track the changes in the fluid year to year so adjustments can be made to keep your system working at its best.

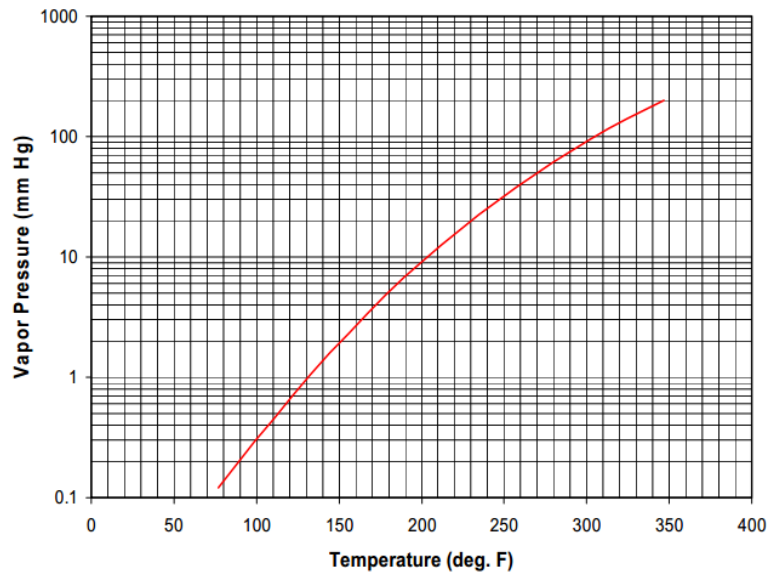
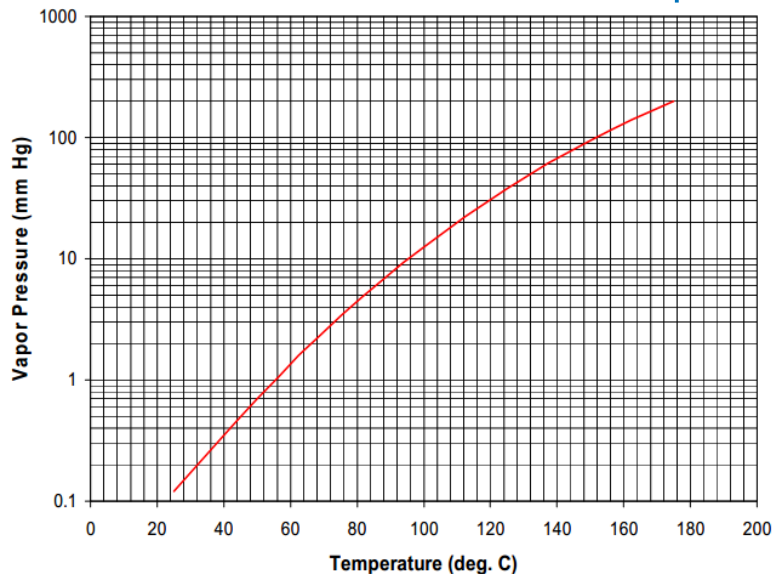
US Units

SI Units

Temp °F	Viscosity cP	Thermal Cond. BTU/hr-ft-°F	Specific Heat BTU/lb-°F	Density lb/ft ³
-40	33.2	0.0732	0.395	50.1
-20	15.9	0.0719	0.405	49.7
0	9.10	0.0706	0.415	49.4
20	5.80	0.0693	0.425	49.0
40	4.00	0.0680	0.435	48.7
60	2.90	0.0667	0.445	48.3
80	2.30	0.0654	0.455	48.0
100	1.80	0.0641	0.465	47.6
120	1.40	0.0627	0.476	47.3
140	1.20	0.0614	0.486	46.9
160	1.00	0.0601	0.496	46.6
180	0.84	0.0588	0.506	46.3
200	0.73	0.0575	0.516	45.9
220	0.63	0.0562	0.526	45.6
240	0.56	0.0549	0.536	45.2
260	0.49	0.0536	0.546	44.9
280	0.44	0.0523	0.556	44.5
300	0.39	0.0510	0.566	44.2
320	0.35	0.0497	0.576	43.8
340	0.32	0.0484	0.586	43.5
360	0.29	0.0471	0.597	43.1
380	0.27	0.0458	0.607	42.8

Temperature °C	Viscosity mPa-s	Thermal Cond. W/m-K	Specific Heat kJ/kg-K	Density kg/m ³
-40	33.2	0.1245	1.652	804
-30	16.9	0.1225	1.690	799
-20	10.0	0.1205	1.728	794
-10	6.60	0.1185	1.766	789
0	4.60	0.1165	1.804	784
10	3.40	0.1145	1.842	779
20	2.60	0.1125	1.880	774
30	2.10	0.1105	1.918	769
40	1.70	0.1085	1.956	764
50	1.40	0.1065	1.994	759
60	1.20	0.1045	2.032	754
70	1.00	0.1025	2.070	749
80	0.87	0.1005	2.108	744
90	0.76	0.0985	2.146	739
100	0.67	0.0965	2.184	734
110	0.59	0.0945	2.222	729
120	0.53	0.0925	2.260	724
130	0.48	0.0905	2.298	719
140	0.43	0.0885	2.336	714
150	0.39	0.0865	2.374	709
160	0.35	0.0845	2.412	704
170	0.32	0.0825	2.450	699
180	0.30	0.0805	2.488	694
190	0.28	0.0785	2.526	689
200	0.25	0.0765	2.564	684
205	0.24	0.0755	2.583	681

Vapor Pressure



Product Disclaimer

The information contained in this entire publication is presented in good faith at “no charge” and is believed to be correct as of the date indicated. No representations or warranties are made as to its completeness or accuracy. The information listed is supplied upon the condition that the persons receiving it will make their own determination as to its suitability for their purposes prior to use. In no event will the seller be responsible for damages of any nature whatsoever resulting from the use of, or reliance upon, this information or the product to which this information refers. Nothing contained on this page is to be construed as a recommendation to use the product, process, equipment or formulation in conflict with any patent. No representation or warranty, expressed or implied, is made that the use of this product will not infringe any patent.

No representations or warranties, either expressed or implies, of merchantability, fitness for a particular purpose or for any other nature are made with respect to the information, or the product to which the information refers.

Contact Information

Corporate Headquarters

Dynalene, Inc.
5250 West Coplay Road
Whitehall, Pennsylvania 18052
Phone: 610-262-9686 / 1-877-244-5525
Fax: 610-262-7437
Email: info@dynalene.com
Website: www.dynalene.com

Midwest Location

248 Beinoris Dr
Wood Dale, IL 60191
Phone: 1-855-216-7639
Email: centralsales@dynalene.com

West Location

1701 S 5350 W
Salt Lake City, UT 84104
Phone: 1-877-244-5525
Email: westsales@dynalene.com