

# Technical Data Sheet

## Therminol® 68 Heat Transfer Fluid

### Applications

- Chemicals & petrochemicals
- Htf - bakery
- Htf - food production
- Lube oil refining
- Oil treatment / sweetening / desulphuriz
- Plasticizer
- Polyamide
- Polymer processing
- Refining
- Resins
- Specialty and batch chemical production
- Specialty chemicals
- Waste heat recover + orc

### Key Attributes

- Low Odor
- Non-corrosive

### Product Description

Therminol 68 is a high temperature liquid phase heat transfer fluid with excellent thermal stability. Therminol 68 was developed for use at temperatures up to 360° C (680°F) in liquid phase heat transfer fluid systems. Therminol 68 has a boiling point of 308°C (586°F), but static pressure of about 2 bar should maintain the liquid phase at high temperatures.

### Performance Benefits

- **Noncorrosive**—This product is noncorrosive to typical heat transfer system materials of construction and has low odor and good handling characteristics.
- **Low Odor**—Easy to use

### Typical Properties

Property	Test Method	Typical Value, Units
<b>General</b>		
Appearance		Clear, pale yellow liquid
Composition		Mixture of synthetic aromatics
Maximum bulk temperature		360 °C (680 °F)
Maximum film temperature		390 °C (735 °F)
Normal Boiling Point		308 °C (586 °F)
Pumpability		
@300 mm <sup>2</sup> /s (cSt)		-10 °C (14 °F)
@ 2000 mm <sup>2</sup> /s (cSt)		-26 °C (-14 °F)
Flash Point		
COC	ASTM D92	155 °C (311 °F)
Autoignition Temperature	DIN 51794	400 °C (752 °F)
Pour Point	ISO 3016	-33 °C (-27 °F)
Viscosity, Kinematic		
@ 40°C	ASTM D 445	13.6 cSt, mm <sup>2</sup> /s
Liquid Density		

@ 15°C	ASTM D 4052	1030 kg/m <sup>3</sup> (8.6 lb/gal)
Acidity	ASTM D 664	<0.2 mg KOH/g
Molecular Weight (Average)		226
Copper Corrosion	ASTM D 130	<<1a
Moisture Content, maximum	ASTM E-203	200 ppm
Dielectric Constant		
@ 23°C	ASTM D-924	2.8

## Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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