

Solvay Specialty Polymers Galden® HT80 PFPE Heat Transfer Fluid

Category : Fluid , Polymer

Material Notes:

Galden® HT grades are specifically recommended for use as heat transfer fluids. Galden® PFPE is a line of high-performance, inert, fluorinated fluids. Various grades, with a variety of service temperature ranges, are available. Uses include heat transfer, electronic reliability testing, vapor phase soldering, solvents, and acid spill mitigation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Galden-HT80-PFPE-Heat-Transfer-Fluid.php

Physical Properties	Metric	English	Comments
Density	1.69 g/cc	0.0611 lb/in ³	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Solubility of Water	0.0014 %	0.0014 %	
Kinematic Viscosity	0.57 cSt	0.57 cSt	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	0.83 cSt	0.83 cSt	
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	1.22 cSt	1.22 cSt	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	2.0 cSt	2.0 cSt	
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Molecular Weight	430 g/mol	430 g/mol	average
Vapor Pressure	0.140 bar	105 torr	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Surface Tension	16 dynes/cm	16 dynes/cm	

Thermal Properties	Metric	English	Comments
Heat of Vaporization	71.1 J/g	30.6 BTU/lb	
	@Temperature 80.0 °C	@Temperature 176 °F	at boiling point
converted from volumetric expansion			

Thermal Properties	Metric	English	Comments
			of 0.0011 cm ³ /cm ³ /sup>/cm³- Â°C
Specific Heat Capacity	0.960 J/g-Â°C	0.229 BTU/lb-Â°F	
Thermal Conductivity	0.0650 W/m-K	0.451 BTU-in/hr-ftÂ²- Â°F	
Boiling Point	80.0 Â°C	176 Â°F	
Maximum Service Temperature, Air	80.0 Â°C	176 Â°F	as heat transfer fluid
Minimum Service Temperature, Air	-75.0 Â°C	-103 Â°F	as heat transfer fluid
Pour Point	<= -110 Â°C	<= -166 Â°F	

Optical Properties	Metric	English	Comments
Refractive Index	1.280	1.280	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.50e+15 ohm-cm	1.50e+15 ohm-cm	
Dielectric Constant	1.89 @Frequency 1000 Hz	1.89 @Frequency 1000 Hz	
Dielectric Strength	15.7 kV/mm	399 kV/in	2.54 mm gap
Dissipation Factor	0.00020 @Frequency 1000 Hz	0.00020 @Frequency 1000 Hz	

Descriptive Properties	Value	Comments
Solubility of Air (cmÂ³ gas / 100 cmÂ³ liquid)	26	

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