

Galden® HT80 perfluoropolyether

Galden® HT PFPE are inert, dielectric and high-performance heat transfer fluids with boiling points ranging from 55°C to 270°C. This range is broader than other fluorinated heat transfer fluids and enables PFPE to be used at end-use temperatures up to 290°C.

Syensqo offers a reliable and non-flammable Heat Transfer (HT) media for demanding applications, including:

- Semiconductor
- Chemical
- Pharmaceutical
- Vapor phase heating
- Transformer and super computer cooling
- Recirculating chillers
- Nuclear"

General

Material Status	• Commercial: Active
Availability	• Asia Pacific • Europe • North America
Forms	• Liquid

Physical

	Typical Value	Unit
Density (25°C)	1.69	g/cm ³
Average Molecular Weight	430	
Kinematic Viscosity	0.570	cSt
Solubility		
of air	26.0	ml gas/100 ml liquid
of water	< 10.0	wppm
Surface Tension (25°C)	16	dyne/cm
Vapor Pressure (25°C)	105	torr

Thermal

	Typical Value	Unit
Thermal Conductivity (25°C)	0.065	W/m/k
Boiling Point	80	°C
Heat of Vaporization - at Boiling Point	17.0	cal/g
Pour Point	-110	°C
Specific Heat Capacity (25°C)	0.23	cal/g/°C

Electrical

	Typical Value	Unit
Volume Resistivity (25°C)	1.0E+15	ohms·cm
Dielectric Constant (25°C)	1.89	
Dielectric Strength - 2.54 mm gap (25°C)	40	kV
Dissipation Factor - 1 KHz	2.0E-4	

Optical

	Typical Value	Unit	Test method
Refractive Index	1.28		ASTM D542

Additional Information

Coefficient of thermal expansion: 0.0011 cm³/cm³°C

