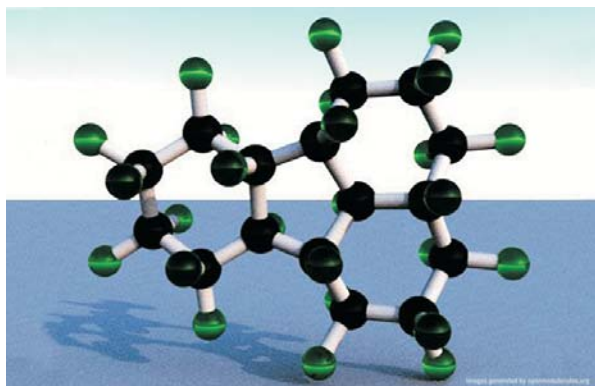




F2 Chemicals Ltd



Perfluoroperhydrofluorene

Synonyms: Perfluoroperhydrofluoranthene

CAS Number: 307-08-4

Description & Characteristics

Perfluoroperhydrofluorene, C₁₃F₂₂, is a fully-fluorinated, odourless, colourless, non-volatile liquid with the following characteristics:

- Compatibility with most construction material
- Excellent chemical and thermal stability
- Non flammability
- Practically non-toxic¹

Applications

Perfluoroperhydrofluorene finds many applications as a fluid for use in the electronics industries, including vapour phase soldering, condensation inert heating, fluid for testing and direct contact cooling.

Safety, Handling and Storage

Although Perfluoroperhydrofluorene is considered biologically and chemically inert, good laboratory practice should be observed when handling. Perfluoroperhydrofluorene has an indefinite shelf life if properly stored in its original sealed container. Safety data sheets are available on request

Typical Physical Properties

Boiling Point °C	194	Refractive Index	0.92*
Pour Point °C	-40	Critical Temperature, °C	357.2*
Molecular Weight	574	Critical Temperature, °K	630.2*
Density, g/l	1.984	Critical Pressure, bar	16.2*
Vapour Pressure kPa	<0.1	Critical Volume, l/kg	1.59*
Heat of vapourisation kJ/kg @ bp	67.9	Dielectric Breakdown Strength kV/mm 50Hz	>13
Surface Tension, mN/m	19.7	Thermal Conductivity, mW/m °C	56*
Vapour Pressure, mbar	<1	Expansion Coefficient, °C ⁻¹ (0°C)	0.00078
Heat of vaporisation at Boiling Point, kJ/kg	71*		

* Estimated value

Temperature dependant properties are quoted at 25°C unless otherwise stated. The above typical physical properties, in no way form or represent product specification.