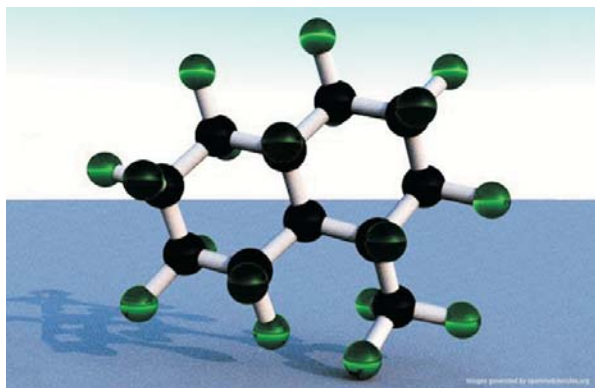




F2 Chemicals Ltd



Perfluoromethyldecalin

Synonyms: Perfluoromethyldecalin

CAS Number: 306-9-3

Description & Characteristics

Perfluoromethyldecalin, C₁₁F₂₀ is a fully-fluorinated, odourless, colourless, non-volatile liquid with the following characteristics:

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

Applications

Perfluoromethyldecalin finds many applications including as a fluid for testing and cooling in the electronics industry, as a fluid for vapour phase sterilisation of medical equipment and various energy transfer applications.

Safety & Handling

Although Perfluoromethyldecalin is considered biologically and chemically inert, good laboratory practice should be observed when handling. Perfluoromethyldecalin 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	155	Surface Tension	13.0 mN/m
Pour Point °C	-70	Critical Temperature	474.8 °C
Molecular Weight	512	Critical Temperature °K	201.6
Density, kg/l	1.972	Critical Pressure, bar	16.20 bar
Viscosity (kinematic), mm ² /s	3.25	Critical Volume, l/kg	1.5
Viscosity, (dynamic), mPas	1.2600	Resistivity ohm.cm	>10 ¹³
Specific Heat	311.00 kJ/kg/K	Dielectric Breakdown Strength kV/mm 50Hz	>19
Viscosity	0.90 mPa s	Thermal Conductivity, mW/m °C	57.5
Kinematic Viscosity	0.52 mm ² /s	Expansion Coefficient, oC-1(°C)	0.00097

* 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.