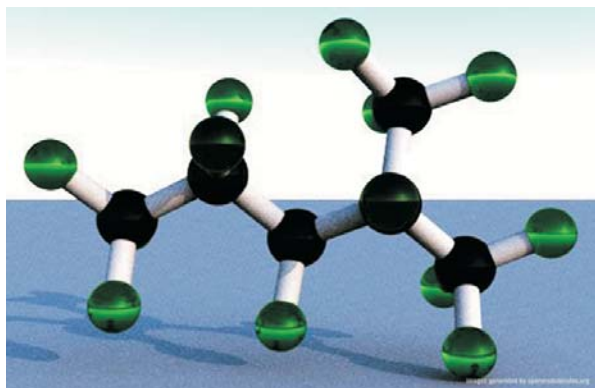




F2 Chemicals Ltd



FLUTEC™ PC1

Synonyms: Perfluoro-2-methylpentane / Perfluoro-i-hexane

CAS Number: 355-04-4

Description & Characteristics

Flutec PC1, C₆F₁₄, is a fully-fluorinated, odourless, colourless liquid with the following characteristics:

- Non Toxic
- Non flammability
- High solubility for gases particularly oxygen
- Excellent chemical and thermal stability

Applications

Flutec PC1 finds many applications in the cosmetic industry where its addition to formulations can enhance protective and film forming properties, add texture to mousse type formulations or to assist in creating bubbles in self-foaming products.

Safety & Handling

Although Flutec PC1 is considered biologically and chemically inert, good laboratory practice should be observed when handling. Flutec PC1 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	57	Specific Heat, kJ/kg °C	1.09
Pour Point °C	-90	Critical Temperature, °C	177.9
Molecular Weight	338	Critical Temperature, oK	451.1
Density, kg/l	1.682	Critical Pressure, bar	18.34
Viscosity (kinematic), mm ² /s	0.39	Critical Volume, l/kg	1.582
Viscosity, (dynamic), mPas	0.656	Resistivity ohm.cm	>10 ¹³
Surface Tension, mN/m	11.1	Dielectric Breakdown Strength kV/mm 50Hz	>16
Vapour Pressure, mbar	294	Thermal Conductivity, mW/m °C	65.3
Heat of vaporisation at Boiling Point, kJ/kg	78.7	Expansion Coefficient, ?-1(0?)	0.00159
Specific Heat, kJ/kg °C	1.09		

* Estimated value

The above typical physical properties, in no way form or represent product specification.