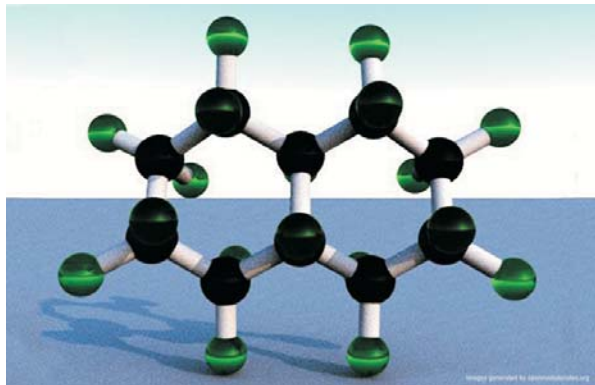




F2 Chemicals Ltd



FLUTEC™ PC6

Synonyms: Perfluorodecalin

CAS Number: 306-94-5

Description & Characteristics

Flutec PC6, C10F18, is a fully-fluorinated, odourless, colourless, non-volatile liquid containing a mixture of cis and trans isomers and has the following characteristics:

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

Applications

Flutec PC6 finds many applications in the cosmetic industry where its addition to formulations can enhance protective and film-forming properties. It is possible to obtain very stable emulsions in glycerol, diglycerol and other polyhydric emulsifying agents and its high solubility of Oxygen means it finds use as a product delivering oxygen to the skin, such as post laser resurfacing creams, bubble face masks, eye creams etc.

Safety & Handling

Although Perfluorodecalin is considered biologically and chemically inert, good laboratory practice should be observed when handling. Perfluorodecalin 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	142	Surface Tension, mN/m	17.6
Pour Point °C	-8	Vapour Pressure, mbar	8.8
Molecular Weight	462	Heat of vaporisation at Boiling Point, kj/kg	78.7
Density, kg/l	1.917	Oxygen solubility ml per 100ml	49
Viscosity (kinematic), mm ² /s	2.66	Refractive index, nD20	1.313
Viscosity, (dynamic), mPas	5.10		

* 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.