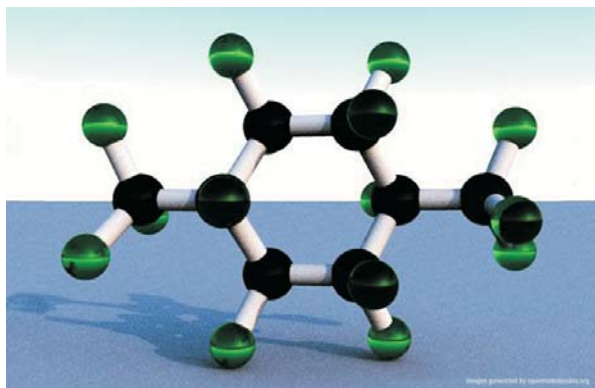




## F2 Chemicals Ltd



### Perfluoro-1,4-dimethylcyclohexane

**Synonyms:** Perfluoro-1,4-dimethylcyclohexane

**CAS Number:** 374-77-6

#### Description & Characteristics

Perfluoro-1,4-dimethylcyclohexane, C<sub>8</sub>F<sub>16</sub> is a fully-fluorinated, odourless, colourless liquid with the following characteristics:

- Compatibility with most construction materials
- Excellent chemical and thermal stability
- Non flammability
- Practically non-toxic<sup>1</sup>

#### Applications

Perfluoro-1,4-dimethylcyclohexane is used in tracing and tagging applications.

#### Safety & Handling

Although Perfluoro-1,4-dimethylcyclohexane is considered biologically and chemically inert, good laboratory practice should be observed when handling. Perfluoro-1,4-dimethylcyclohexane 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	102	Surface Tension mN/m	16.6
Melting Point °C	-80	Critical Temperature, K	514.0
Molecular Weight	400	Critical Temperature, °C	240.9
Partition Coefficient (log K <sub>ow</sub> )	6.6	Critical Pressure, bar	19
(estimated)		Vapour Pressure kPa	4.6
Density, g/l	1.838	Vapour Viscosity uPa s	13
Liquid Thermal Conductivity mW/m/K	60	Vapour Density	ca.
Specific Heat, kJ/kg °C	1.13	0.013 g/ml	
Viscosity, (dynamic), mPas	2.43	Relative Vapour Density (air=1)	10.0
Kinematic Viscosity	1.32		

\* Estimated value

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