# **F**<sub>2</sub>

## **F2 CHEMICALS LTD**

# Octafluoropropane

**Synonyms:** Perfluoropropane, C<sub>3</sub>F<sub>8</sub>, Flutec PP30

**CAS Number :** 76-19-7

### **Description & Characteristics**

Octafluoropropane, C<sub>3</sub>F<sub>8</sub> is a fully-fluorinated, odourless, colourless compressed gas.

\* Compatibility with most construction materials

\* Non flammability

\* Practically non-toxic1

### **Applications**

Octafluoropropane is used in semiconductor manufacture for CVD Chamber cleaning and etching. It is also used in contrast imaging applications and as an evaporative cooling fluid.

### Safety & Handling

Although Octafluoropropane is considered biologically and chemically inert, good laboratory practice should be observed when handling. Safety data sheets are available on request

# **Typical Physical Properties**

Molecular Weight	188
Boiling Point	37°C
Freezing Point	183°C
Vapour Pressure @ 21.1°C	
Absolute Density, Gas @ 101.325 kPa, 20°C	8.004 kg/m³
Relative Density, Gas @ 101.325 kPa, 20°C	6.69
Density Liquid @ Saturation Pressure, 20°C	1.352 kg/l
Critical Temperature	71.9°C
Critical Pressure	
Critical Volume	
Critical Compressability Factor	0.279
Viscosity, Gas @ 101.325 kPa, 25°C	0.01454 mPa s
Typical Thermosphysical Properties	
Molar Specific Heat, Gas @ 101.325 kPa	145.1 J/(mol.K)
@10°C	
	156.0 J/(mol.K) @50°C
Thermal Conductivity, Gas @ 101.325 kPa;25°C	0.0138 W/(m.K)
Latent Heat of Vapourisation	
	16.8 kJ/mol @ 0.0°C
Heat Capacity, Ideal Gas @ 25°C	147.7 J/(mol.K)
The above typical physical properties, in no way form or represent product specification.	