Korfron 141b PC - Datasheet

Physical properties

Chemical name		1,1- Dichloro - 1 - fluoroethane
Chemical formula		CCI2F-CH3
CAS number		1717-00-6
EINECS		404-080-1
Molecular weight		116.9
Boiling point	°C	32
Melting point	°C	-103.5
Critical temperature	°C	208.3
Critical pressure	bar	42,5
Density of the liquid at 25 °C	g/cm3	1.22
Density of the liquid at 50 °C	g/cm3	1.18
Heat of vaporization	kJ/kg	225
Viscosity of the liquid at -20 °C	mPa.s	0.44
Flammability		non flammable
Ignition temperature	°C	550
Lower explosion limit	% volume in air	6.0
Upper explosion limit	% volume in air	20.3
Thermal conductivity (gasphase)	W/mK	0.0095
Vapour pressure at		
20 °C	kPa	64.0
50°C	kPa	183.0
Solubility in water	g/kg	4

- Korfron 141b PC has no flash point. For this reason, as in this respect comparable liquids such as for example trichloroethane and methylene chloride, it is not subject to the Flammable Liquid's Regulation .
- Air-vapour mixtures comprised of between 6.0 and 20.3% by volume (the explosion limits) are flammable. However the minimum energy necessary to initiate ignition is 20 Joules (in comparison to 0.001 Joule for acetone).
- Korfron 141b PC is not categorized as toxic according to the Dangerous Substances Regulations

Storage and handling

Korfron 141b PC must be stored in a cool and well ventilated area; direct exposure of the containers to sunlight must be avoided. Due to the low boiling point of Korfron 141b PC, there may be a slight, normal over-pressure in the packagings; care must, therefore, be exercised when opening them. Korfron 141b PC must be kept in a tightly closed container. Humidity and rust must be avoided to ensure optimum stability of the product.
Korfron 141b PC is not subject to any transport regulation.
It can be handled without risk with the normal precautions.
Korfron 141b PC is slightly irritating to the skin, the eyes and the digestive mucous membranes.

Quality

Purity	min. 99,7%
Water content	max. 20 ppm
Acid content (as HCI)	max. 1 ppm
Non-volatile residue	max. 10 ppm