

MONOMER-06

HEXAFLUOROPROPYLENE OXIDE



Manufacturer:
"HaloPolymer Kirovo-Chepetsk", LLC

CHEMICAL NAME:	1,1,2,3,3,3-hexafluoro-1,2-epoxypropane;
SYNONYMS:	HFPO; hexafluoropropene oxide; perfluoromethoxyran; perfluoropropylene oxide; 1,2-epoxy-1,1,2,3,3,3-hexafluoropropane; hexafluoro-1,2-epoxypropane; trifluoro(trifluoromethyl)oxirane; (Trifluoromethyl)trifluorooxirane
TRADE NAME:	Hexafluoropropylene oxide (Monomer-06)
CHEMICAL FORMULA:	C ₃ F ₆ O
CAS N°:	428-59-1
EC N°:	207-050-4

Hexafluoropropylene oxide is a gas without color and odor under normal conditions. It is a heavy, removable, colorless liquid at the temperature - 28°C (lower than the boiling point) and under the pressure 101,3 kPa (760 mm Hg).



PROPERTIES	UNITS	VALUE
Volume fraction of hexafluoropropylene oxide, min	%	98,5
Volume fraction of other impurities determinated chromatographic method, max	%	1,5
Volume fraction of oxygen, max	%	0,06
Volume fraction of acid impurities in terms of acetyl fluoride, max	%	0,2
Mass fraction of moisture, max	%	0,02
Boiling point at the pressure 101,3 kPa (760 mm Hg)	°C	-27,4
Critical temperature	°C	91,329
Critical pressure	kPa	2747,7
Molecular weight	-	166,02

Note: * By order of customers the product may be produced with other quality parameters.



Main application:
Hexafluoropropylene oxide is used for production of fluororganic compounds.

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Package:

Hexafluoropropylene oxide is filled in steel cylinders with the capacity 12, 32, 40 and 50 dm³ for the pressure 9,8 or 14,7 MPa and in steel containers with the capacity 950 dm³ for the excess pressure of no less 2,0 MPa.



Transportation and storage :

Hexafluoropropylene oxide is transported by railway and automobile transport. Freight is covered by tarpaulin at transportation in open cars. Transportation of hexafluoropropylene oxide with other fluororganic products is allowed. Cylinders and containers with hexafluoropropylene oxide are stored in stock rooms or under the shed far from heating appliances and sun rays. Storage in open air is allowed at that cylinders and containers must be covered by tarpaulin.