

# MONOMER-6

## HEXAFLUOROPROPYLENE



**Manufacturer:**  
“HaloPolymer Kirovo-Chepetsk”, LLC  
“HaloPolymer Perm”, OJSC  
QMS for production is certified: ISO 9001

<b>CHEMICAL NAME:</b>	Hexafluoropropene
<b>SYNONYMS:</b>	Perfluoropropene, perfluoropropylene, halocarbon R-1216, fluorocarbon 1216, hexafluoropropylene, hexafluoropropene, HFP
<b>TRADE NAME:</b>	Hexafluoropropylene (Monomer-6)
<b>CHEMICAL FORMULA:</b>	$C_3F_6$
<b>CAS N°:</b>	116-15-4
<b>EC N°:</b>	204-127-4

Hexafluoropropylene is a gas without color and odor under normal conditions. It is a difficult-flammable gas, the mixtures of hexafluoropropylene with air don't inflame from electric spark. Hexafluoropropylene is an explosive gas at the pressure more than 2.1 MPa.



PROPERTIES	UNITS	VALUE	
		Grade 1	Grade 2
Volume fraction of hexafluoropropylene, min	%	98,5	96,0
Volume fraction of octafluoropropane, max	%	0,0008	0,006
Volume fraction of perfluorobutyne-2, max	%	0,0001	0,002
Volume fraction of tetrafluoropropylene and pentafluoropropylene in total, max	%	0,0003	0,01
Volume fraction of other impurities in total, max	%	0,0001	0,001
Volume fraction of oxygen, max	%	0,003	0,003
Acidity	-	Coloring of indicator must not change	
Boiling point	°C	- 29,1	
Melting point	°C	- 156,2	
Critical temperature	°C	86,0	
Critical pressure	MPa	3,14	
Critical density	kg/m <sup>3</sup>	600	
Relative molecular mass	-	150,023	

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### **Main application:**

Hexafluoropropylene is used for the production of copolymers with tetrafluoroethylene and other fluoromonomers and for various fluororganic syntheses.



### **Package:**

Hexafluoropropylene is filled into steel cylinders for working pressure 10 and 15 MPa with a capacity from 12 to 50 dm<sup>3</sup>, into containers with a capacity no more than 950 dm<sup>3</sup> for working pressure not less than 3 MPa and also into returnable cylinders and containers (tuns).



### **Transportation and storage :**

Hexafluoropropylene is transported by railway and automobile transport. Transportation and storage of hexafluoropropylene with other fluorinated products is allowed. Tightly closed containers have to be stored in store rooms of the producer (consumer) or under a canopy far from heating devices and direct sunshine. Storage is allowed in the open air at the same time cylinders or containers have to be closed by tarpaulin or other similar material.

Guarantee storage time of hexafluoropropylene of grade 1 is 1 year from the date of production, hexafluoropropylene of grade 2 is 2 years from the date of production.