

# MONOMER-4 TETRAFLUOROETHYLENE



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

<b>CHEMICAL NAME:</b>	Tetrafluoroethylene
<b>SYNONYMS:</b>	1,1,2,2-tetrafluoroethylene, perfluoroethylene
<b>TRADE NAME:</b>	Tetrafluoroethylene (Monomer-4)
<b>CHEMICAL FORMULA:</b>	$C_2F_4$
<b>CAS №:</b>	116-14-3
<b>EC №:</b>	204-126-9

Tetrafluoroethylene is a gas without color and odor at normal conditions. It is a flammable, explosive, toxic substance.



PROPERTIES	UNITS	VALUE	
		Extra grade	First grade
Volume fraction of tetrafluoroethylene, min	%	99,98	99,97
Volume fraction of difluoromethane, max	%	0,015	0,025
Volume fraction of trifluoroethylene, max	%	0,0001	0,0001
Volume fraction of oxygen, max	%	0,005	0,005
Content of trimethylamine in the gaseous phase of cylinder (qualitatively)	-	It is present	It is present
Boiling point	°C	- 76,5	
Melting point	°C	- 131,15	
Self-ignition point (without air)	°C	780	
Critical temperature	°C	33,3	
Critical pressure	МПа	3,95	
Critical density	kg/m <sup>3</sup>	572	
Relative molecular weight	-	100,016	

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#### **Main application:**

Tetrafluoroethylene is used for production of different polymers, copolymers and different fluororganic compounds.



#### **Package:**

Tetrafluoroethylene is filled in the cylinders with capacity to 40 dm<sup>3</sup> for the working pressure 15 or 20 MPa.



#### **Transportation and storage :**

Tetrafluoroethylene is transported by railway and automobile transport. Cylinders with the product must be stored in rooms at ambient temperature. Guaranteed storage time is 3 months from date of production.