

# IODINE PENTAFLUORIDE (IPF)



**Manufacturer:**  
"HaloPolymer Perm", OJSC  
QMS for production is certified: ISO 9001

<b>CHEMICAL NAME:</b>	Iodine pentafluoride
<b>SYNONYMS:</b>	Iodine pentafluoride, Iodpentafluoride, Iodine fluoride (V)
<b>CHEMICAL FORMULA:</b>	IF <sub>5</sub>
<b>CAS N°:</b>	7783-66-6
<b>EC N°:</b>	232-019-7

Colorless or light-pink fluid. Relates to toxic and chemical aggressive substances. Strong oxidizer. May cause a fire in case of contact with organic matters.



## PHYSICAL-CHEMICAL PROPERTIES

PARAMETERS	UNITS	VALUE	
		Grade A	Grade B
Mass content of IPF (min)	%	99,5	97,0
Mass content of HF (max)	%	0,5	1
Mass content of free iodine (max)	%	0,3	2,0
Molecular weight	-	221,9	
Boiling point	°C	100,5	
Melting point	°C	9,4	
Density (at 25 °C)	kg/m <sup>3</sup>	3200	



**Main application:**  
Most widely used as a raw material for organic synthesis.



**Package:**  
Special containers from stainless steel, nickel or copper, made in accordance with the schemes of the producer or the consumer with the volume from 5 to 25 dm<sup>3</sup> designed for the pressure 0,26 MPa. Other cylinders may be used in case of preliminary agreement with consumers.



**Transportation and storage:**  
Iodine pentafluoride is transported by covered automobile and railway transport or in sea containers. Product can be stored at the temperature no more than 40 °C in covered stockrooms. Guaranteed storage time is 1 year from the date of production.