

TUNGSTEN HEXAFLUORIDE

CHEMICAL NAME:	Tungsten hexafluoride
SYNONYMS:	Hexafluorotungsten, Tungsten (VI) fluoride
CHEMICAL FORMULA:	WF ₆
CAS №:	7783-82-6

DESCRIPTION:

Tungsten hexafluoride is a transparent, colorless gas fuming in air. It is a toxic, non-flammable, non-explosive. It does not form flammable and explosive mixtures with air.

APPLICATIONS:

It is used to obtain of the tungsten coating, powdery tungsten and tungsten isotope separation.

PHYSICAL-CHEMICAL PROPERTIES

No	Parameters	Units	Value
1	Mass fraction of tungsten, within	%	61-62
2	Mass fraction of fluorine, within	%	28-41
3	Mass fraction of molybdenum, max	%	0,20
4	Mass fraction of metallic impurities without molybdenum, in total, max	%	0,01
5	Boiling point	°C	17,3
6	Melting point	°C	2
7	Density	kg/m ³	12
8	Density at the temperature 17 °C	kg/m ³	3430
9	Relative molecular mass	-	297.84

PACKAGING:

- special containers is made from stainless steel, nickel, aluminium or copper according to the plans of the factory-producer or the factory-consumer with the capacity from 5 to 25 dm³ designed for the pressure 0,26 MPa.
- alloyed steel cylinders with the capacity from 0,4 to 1 dm³ designed for the pressure 0,5 MPa equipped with chloride valves.

TRANSPORTATION AND STORAGE:

Tungsten hexafluoride is transported by covered automobile or railway transport. It is stored at the temperature no more than 40 °C in covered stockrooms. Guaranteed storage life is 1 year from date of production.

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