

**Identification**

HF  
 M = 20,00 g/mol  
 CAS [7664-39-3]  
 EC number: 231-634-8  
 Taric code: 2811 11 00

**Specifications**

assay (acidimetric).....	47 - 51 %	magnesium (Mg).....	max. 1 ppb
colour (Hazen).....	max. 10	manganese (Mn).....	max. 0,1 ppb
chlorides (Cl).....	max. 0,0004 %	mercury (Hg).....	max. 1 ppb
hexafluorosilicic acid (H <sub>2</sub> SiF <sub>6</sub> ) .....	max. 0,002 %	molybdenum (Mo).....	max. 0,1 ppb
total phosphorus (P).....	max. 0,000005 %	neodymium (Nd).....	max. 0,1 ppb
total sulfur (S).....	max. 0,00001 %	nickel (Ni).....	max. 0,5 ppb
aluminium (Al).....	max. 1 ppb	niobium (Nb).....	max. 0,1 ppb
antimony (Sb).....	max. 0,2 ppb	palladium (Pd).....	max. 0,2 ppb
arsenic (As).....	max. 0,5 ppb	platinum (Pt).....	max. 0,2 ppb
barium (Ba).....	max. 0,1 ppb	potassium (K).....	max. 1 ppb
beryllium (Be).....	max. 0,1 ppb	praseodymium (Pr).....	max. 0,1 ppb
bismuth (Bi).....	max. 0,1 ppb	rhenium (Re).....	max. 0,1 ppb
boron (B).....	max. 1 ppb	rhodium (Rh).....	max. 0,1 ppb
cadmium (Cd).....	max. 0,1 ppb	rubidium (Rb).....	max. 0,1 ppb
calcium (Ca).....	max. 1 ppb	ruthenium (Ru).....	max. 0,1 ppb
cerium (Ce).....	max. 0,1 ppb	samarium (Sm).....	max. 0,1 ppb
cesium (Cs).....	max. 0,1 ppb	scandium (Sc).....	max. 0,1 ppb
chromium (Cr).....	max. 1 ppb	selenium (Se).....	max. 1 ppb
cobalt (Co).....	max. 0,1 ppb	silver (Ag).....	max. 0,5 ppb
copper (Cu).....	max. 0,5 ppb	sodium (Na).....	max. 1 ppb
dysprosium (Dy).....	max. 0,1 ppb	strontium (Sr) .....	max. 0,1 ppb
erbium (Er).....	max. 0,1 ppb	tantalum (Ta).....	max. 0,1 ppb
europium (Eu).....	max. 0,1 ppb	tellurium (Te).....	max. 0,1 ppb
gadolinium (Gd).....	max. 0,1 ppb	terbium (Tb).....	max. 0,1 ppb
gallium (Ga).....	max. 0,1 ppb	thallium (Tl).....	max. 0,1 ppb
germanium (Ge).....	max. 0,1 ppb	thorium (Th).....	max. 0,1 ppb
gold (Au).....	max. 0,2 ppb	thulium (Tm).....	max. 0,1 ppb
hafnium (Hf).....	max. 0,1 ppb	tin (Sn).....	max. 0,5 ppb
holmium (Ho).....	max. 0,1 ppb	titanium (Ti).....	max. 1 ppb
indium (In).....	max. 0,1 ppb	tungsten (W).....	max. 0,5 ppb
iron (Fe).....	max. 1 ppb	uranium (U).....	max. 0,1 ppb
lanthanum (La).....	max. 0,1 ppb	vanadium (V).....	max. 0,1 ppb
lead (Pb).....	max. 0,1 ppb	ytterbium (Yb).....	max. 0,1 ppb
lithium (Li).....	max. 0,1 ppb	yttrium (Y).....	max. 0,1 ppb
lutetium (Lu).....	max. 0,1 ppb	zinc (Zn).....	max. 1 ppb
		zirconium (Zr).....	max. 0,1 ppb

**Physical data**

- Density: 1,16 g/cm<sup>3</sup>
- Solub. in water: (20 °C): miscible
- Melting point: ~ -35 °C
- Boiling point: ~ 106 °C
- pH(20 °C) < 1

**Safety - GHS**

**Signal Word:** Danger

**Hazard Statements:**

- H310: Fatal in contact with skin.  
 H330: Fatal if inhaled.  
 H314: Causes severe skin burns and eye damage.


**Precautionary Statements:**

- P260: Do not breathe dust / fume / gas / mist / vapours / spray.  
 P303+P361+P353: IF ON SKIN (or hair): Remove / Take off immediately all contaminated clothing. Rinse skin with water / shower.  
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310: Immediately call a POISON CENTER or doctor / physician.  
 P320: Specific treatment is urgent (see on this label).  
 P405: Store locked up.  
 P501a: Dispose of contents / container in accordance with local / regional / national / international regulations.



**Transport/storage**

- ADR: 8 CT1 II • UN 1790 • HYDROFLUORIC ACID
- IMDG: 8 II • UN 1790 • HYDROFLUORIC ACID
- IATA/ICAO: 8 II • UN 1790 • HYDROFLUORIC ACID
- PAX: 809
- CAO: 813
- 10°C - 30°C