

Hydrofluoric acid, 48%, Ultratrace®, ppt-trace analysis grade

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 %	manganese (Mn).....	max. 10 ppt
total sulfur (S).....	max. 0,00001 %	mercury (Hg).....	max. 50 ppt
aluminium (Al).....	max. 20 ppt	molybdenum (Mo).....	max. 10 ppt
antimony (Sb).....	max. 20 ppt	neodymium (Nd).....	max. 1 ppt
arsenic (As).....	max. 50 ppt	nickel (Ni).....	max. 20 ppt
barium (Ba).....	max. 10 ppt	niobium (Nb).....	max. 10 ppt
beryllium (Be).....	max. 10 ppt	palladium (Pd).....	max. 20 ppt
bismuth (Bi).....	max. 10 ppt	platinum (Pt).....	max. 20 ppt
boron (B).....	max. 100 ppt	potassium (K).....	max. 10 ppt
cadmium (Cd).....	max. 10 ppt	praseodymium (Pr).....	max. 1 ppt
calcium (Ca).....	max. 10 ppt	rhenium (Re).....	max. 10 ppt
cerium (Ce).....	max. 10 ppt	rhodium (Rh).....	max. 20 ppt
cesium (Cs).....	max. 10 ppt	rubidium (Rb).....	max. 20 ppt
chromium (Cr).....	max. 10 ppt	ruthenium (Ru).....	max. 20 ppt
cobalt (Co).....	max. 10 ppt	samarium (Sm).....	max. 1 ppt
copper (Cu).....	max. 10 ppt	scandium (Sc).....	max. 10 ppt
dysprosium (Dy).....	max. 1 ppt	silver (Ag).....	max. 10 ppt
erbium (Er).....	max. 1 ppt	sodium (Na).....	max. 10 ppt
europium (Eu).....	max. 1 ppt	strontium (Sr).....	max. 10 ppt
gadolinium (Gd).....	max. 1 ppt	tellurium (Te).....	max. 1 ppt
gallium (Ga).....	max. 10 ppt	terbium (Tb).....	max. 1 ppt
germanium (Ge).....	max. 10 ppt	thallium (Tl).....	max. 10 ppt
gold (Au).....	max. 20 ppt	thorium (Th).....	max. 1 ppt
hafnium (Hf).....	max. 10 ppt	thulium (Tm).....	max. 1 ppt
holmium (Ho).....	max. 1 ppt	tin (Sn).....	max. 20 ppt
indium (In).....	max. 1 ppt	titanium (Ti).....	max. 20 ppt
iron (Fe).....	max. 10 ppt	tungsten (W).....	max. 20 ppt
lanthanum (La).....	max. 10 ppt	uranium (U).....	max. 1 ppt
lead (Pb).....	max. 10 ppt	vanadium (V).....	max. 10 ppt
lithium (Li).....	max. 10 ppt	ytterbium (Yb).....	max. 1 ppt
lutetium (Lu).....	max. 1 ppt	yttrium (Y).....	max. 1 ppt
magnesium (Mg).....	max. 10 ppt	zinc (Zn).....	max. 10 ppt
		zirconium (Zr).....	max. 10 ppt

Physical data

- Density: 1,16 g/cm³
- 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.

**Hydrofluoric acid, 48%, Ultratrace[®], ppt-trace analysis grade****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