AC1051

Hydrofluoric acid, solution 40% w/w, for analysis, ExpertQ®, ISO

Identification

HF
M = 20,01 g/mol
CAS [7664-39-3]
EC number: 231-634-8
Taric code: 2811 11 00

Applications

analytical chemistry, acidifying agent, dissolution agent for silicates.

Specifications

assay (acidimetric)	min. 40 %
colour (Hazen)	max.10
hexafluorosilicic acid (H2SiF6)	max. 0,005 %
chlorides (Cl)	max. 0,0001 %
phosphates (as PO4)	max. 0,00005 %
sulfates (SO_4)	max. 0,0002 %
sulfites (SO3)	max. 0,0002 %
aluminium (Al)	max. 0,05 ppm
arsenic (As)	max. 0,05 ppm
barium (Ba)	max. 0,05 ppm
beryllium (Be)	max. 0,02 ppm
bismuth (Bi)	max. 0,02 ppm
cadmium (Cd)	max 0,01 ppm
calcium (Ca)	max. 0,2 ppm
chromium (Cr)	max. 0,02 ppm
cobalt (Co)	max. 0,02 ppm
copper (Cu)	max. 0,02 ppm
germanium (Ge)	max. 0,02 ppm
heavy metals (as Pb)	max. 1 ppm
iron (Fe)	max. 0,1 ppm
lead (Pb)	max. 0,02 ppm
lithium (Li)	max. 0,02 ppm
magnesium (Mg)	max. 0,1 ppm
manganese (Mn)	max. 0,03 ppm
molybdenum (Mo)	max. 0,02 ppm
nickel (Ni)	max. 0,02 ppm
potassium (K)	max. 0,1 ppm
silver (Ag)	max. 0,02 ppm
sodium (Na)	max. 0,2 ppm
strontium (Sr)	max. 0,02 ppm
thallium (Tl)	max. 0,02 ppm
titanium (Ti)	max. 0,02 ppm
vanadium (V)	max. 0,02 ppm
zinc (Zn)	max. 0,05 ppm
zirconium (Zr)	max. 0,02 ppm
residue on ignition	max. 0,0005 %

Physical data

- Density: 1,13 g/cm3
- Solub. in water: (20 ºC): miscible
- Melting point: ~ -44 ºC
- Boiling point: ~ 112 ºC
- pH(20 ºC) < 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