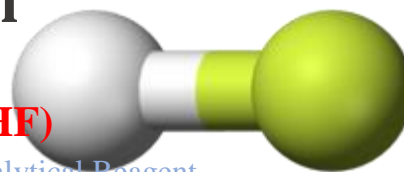


Specification

Hydrofluoric acid (HF)

Ultrapure Analytical Reagent



Catalog No :	UP-10F	Exp :	6 months after Mfg.
CAS No :	7664-39-3	Packaging :	500g in PFA Bottle
Grade :	Ultrapure	Identified uses	Laboratory Reagent
Empirical Formula :	HF	Description :	For Ultratrace Analysis
Density :	1.15 g/cm ³ (25 °C)	Storage Condition :	Store at 4~8°C

1. Chemical properties

Item	Spec.
Assay(acidimetric) (as HF ,%)	49±1.0
Color (APHA)	≤10
Particle (≥0.5um)	≤100

2. Cation traces

[Unit : ppt]

Element	Spec.
Al (Aluminum)	≤10
As (Arsenic)	≤10
Au (Gold)	≤10
Ba (Barium)	≤10
Be (Beryllium)	≤10
Bi (Bismuth)	≤10
Ca (Calcium)	≤10
Cd (Cadmium)	≤10
Co (Cobalt)	≤10
Cr (Chromium)	≤10
Cu (Copper)	≤10
Fe (Iron)	≤10
Ga (Gallium)	≤10
Ge (Germanium)	≤10
Hf (Hafnium)	≤10
Mg (Magnesium)	≤10
In (Indium)	≤10
K (Potassium)	≤10
Li (Lithium)	≤10
Mn (Manganese)	≤10

Na (Sodium)	≤10
Nb (Niobium)	≤10
Ni (Nickel)	≤10
Pb (Lead)	≤10
Pd (Palladium)	≤10
Pt (Platinum)	≤10
Sb (Antimony)	≤10
Se (Selenium)	≤10
Sn (Tin)	≤10
Sr (Strontium)	≤10
Ta (Tantalum)	≤10
Te (Tellurium)	≤10
Ti (Titanium)	≤10
Th (Thorium)	≤10
Tl (Thallium)	≤10
U (Uranium)	≤10
W (Tungsten)	≤10
Zn (Zinc)	≤10
V (Vanadium)	≤10
Zr (Zirconium)	≤10

ICP-MS: Determination after evaporation to dryness with ICP-MS

ICP-MS*: Determination with ICP-MS

GFAAS**: Determination with graphite furnace atomic absorption spectrometry

Actual analysis values are subject to unavoidable systematic variations in this concentration range. Each metallic impurity level guaranteed to be 10 ppt or less. Open and use in a clean environment of CLASS 10 or higher. This product is for laboratory analysis and research purpose only. Keep tightly capped and stored under the conditions stated above. Products are tested by validated methods specified in the manufacturer's quality system. The manufacturer warrants that its products shall conform to the description of such as provided in its catalog or on the specific product label. This warranty is exclusive, and the manufacturer makes no other warranty, express implied, including any implied warranty of merchantability of fitness for any particular purpose.

For use in laboratory analysis.