

Certificate of Analysis

Product Name:

Hydrofluoric acid PurTrace for Trace Analysis 47-51% (Below 1.0 ppb impurities)

Product No.: PSR50402
Lot No.: Sample COA
Brand: PureSynth
CAS No.: 7664-39-3
Molecular Formula: HF
Molecular Weight: 20.01 g/mol
Date of Mfg.: NA
Date of Exp.: NA

Test	Specification	Result
Appearance	Colorless liquid	Colorless liquid
Assay	47.0-51.0 %	49.1 %
Aluminum (Al)	NMT 1.0 ppb	< 0.5 ppb
Antimony (Sb)	NMT 0.2 ppb	< 0.1 ppb
Arsenic (As)	NMT 5.0 ppb	< 0.1 ppb
Gold (Au)	NMT 0.5 ppb	< 0.1 ppb
Barium (Ba)	NMT 0.1 ppb	< 0.1 ppb
Beryllium (Be)	NMT 0.1 ppb	< 0.1 ppb
Bismuth (Bi)	NMT 0.1 ppb	< 0.1 ppb
Boron (B)	NMT 1.0 ppb	< 0.5 ppb
Cadmium (Cd)	NMT 0.1 ppb	< 0.1 ppb
Calcium (Ca)	NMT 1.0 ppb	< 0.5 ppb
Cerium (Ce)	NMT 0.1 ppb	< 0.1 ppb
Cesium (Cs)	NMT 0.1 ppb	< 0.1 ppb
Chromium (Cr)	NMT 1.0 ppb	< 1.0 ppb
Cobalt (Co)	NMT 0.1 ppb	< 0.1 ppb
Copper (Cu)	NMT 1.0 ppb	< 1.0 ppb
Dysprosium (Dy)	NMT 0.1 ppb	< 0.1 ppb
Erbium (Er)	NMT 0.1 ppb	< 0.1 ppb
Europium (Eu)	NMT 0.1 ppb	< 0.1 ppb
Gadolinium (Gd)	NMT 0.1 ppb	< 0.1 ppb
Gallium (Ga)	NMT 0.1 ppb	< 0.1 ppb
Germanium (Ge)	NMT 0.1 ppb	< 0.1 ppb
Gold (Au)	NMT 0.2 ppb	< 0.1 ppb
Hafnium (Hf)	NMT 0.1 ppb	< 0.1 ppb
Holmium (Ho)	NMT 0.1 ppb	< 0.1 ppb
Indium (In)	NMT 0.1 ppb	< 0.1 ppb

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Iron (Fe)	NMT 10.0 ppb	< 0.5 ppb
Lanthanum (La)	NMT 0.1 ppb	< 0.1 ppb
Lead (Pb)	NMT 0.1 ppb	< 0.1 ppb
Lithium (Li)	NMT 0.1 ppb	< 0.1 ppb
Lutetium (Lu)	NMT 0.1 ppb	< 0.1 ppb
Magnesium (Mg)	NMT 1.0 ppb	< 0.2 ppb
Manganese (Mn)	NMT 0.1 ppb	< 0.1 ppb
Mercury (Hg)	NMT 1.0 ppb	< 0.2 ppb
Molybdenum (Mo)	NMT 0.1 ppb	< 0.1 ppb
Neodymium (Nd)	NMT 0.1 ppb	< 0.1 ppb
Nickel (Ni)	NMT 0.5 ppb	< 0.1 ppb
Niobium (Nb)	NMT 0.1 ppb	< 0.1 ppb
Palladium (Pd)	NMT 0.2 ppb	< 0.2 ppb
Platinum (Pt)	NMT 0.2 ppb	< 0.2 ppb
Potassium (K)	NMT 1.0 ppb	< 0.2 ppb
Praseodymium (Pr)	NMT 0.1 ppb	< 0.1 ppb
Rhenium (Re)	NMT 0.1 ppb	< 0.1 ppb
Rhodium (Rh)	NMT 0.1 ppb	< 0.1 ppb
Rubidium (Rb)	NMT 0.1 ppb	< 0.1 ppb
Ruthenium (Ru)	NMT 0.1 ppb	< 0.1 ppb
Samarium (Sm)	NMT 0.1 ppb	< 0.1 ppb
Scandium (Sc)	NMT 0.1 ppb	< 0.1 ppb
Selenium (Se)	NMT 1.0 ppb	< 1.0 ppb
Silver (Ag)	NMT 0.5 ppb	< 1.0 ppb
Sodium (Na)	NMT 1.0 ppb	< 0.5 ppb
Strontium (Sr)	NMT 0.1 ppb	< 0.1 ppb
Tantalum (Ta)	NMT 0.5 ppb	< 0.5 ppb
Tellurium (Te)	NMT 0.1 ppb	< 0.1 ppb
Terbium (Tb)	NMT 0.1 ppb	< 0.1 ppb
Thallium (Tl)	NMT 0.1 ppb	< 0.1 ppb
Thorium (Th)	NMT 0.1 ppb	< 0.1 ppb
Thulium (Tm)	NMT 0.1 ppb	< 0.1 ppb
Tin (Sn)	NMT 0.5 ppb	< 1.0 ppb
Titanium (Ti)	NMT 1.0 ppb	< 0.5 ppb
Tungsten (W)	NMT 0.5 ppb	< 0.5 ppb
Uranium (U)	NMT 0.1 ppb	< 0.1 ppb
Vanadium (V)	NMT 0.1 ppb	< 0.1 ppb
Ytterbium (Yb)	NMT 0.1 ppb	< 0.1 ppb
Yttrium (Y)	NMT 0.1 ppb	< 0.1 ppb
Zinc (Zn)	NMT 1.0 ppb	< 1.0 ppb
Zirconium (Zr)	NMT 0.1 ppb	< 0.1 ppb

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Remarks:

This is to certify that the mentioned batch has been analysed at the time of quality release and has been found to be in compliance with prescribed specifications

The current Specification sheet may be available at www.pure-synth.com

Inspect on receipt

Storage Condition:

Store at room temperature and keep the container tightly closed

PureSynth Research Chemicals GmbH

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