

Certificate of Analysis

Date of Testing: 2023-12-08 11:53:57

Date of Next Testing: 2026-12-07 11:53:57

Product Name: **Hydrofluoric acid 48%**

CAS Number: 7664-39-3

Specifications & Purity: Premium-Grade Reagents ,for Analysis, ACS,ISO,Reag. Ph Eur

Lot #: L2306080

SKU #: **H485836**

Version: **1**

Analysis #: **305612**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Assay(acidimetric)	48-51 (%)	49.15000 %
Chloride (Cl-)	0-1 (ppm)	0.00 ppm
Hexafluorosilicate(SiF ₆)	0-50 (ppm)	25.50000 ppm
Nitrate(NO ₃)	0-5 (ppm)	0.00000 ppm
Phosphate(PO ₄)	0-0.5 (ppm)	0.30 ppm
Sulfate and sulphite(as SO ₄)	0-5 (ppm)	0.30000 ppm
Heavy metals(as Pb)	0-0.5 (ppm)	0.00 ppm
Silver (Ag)	0-0.02 (ppm)	0.00 ppm
Aluminium(Al)	0-0.05 (ppm)	0.00000 ppm
Arsenic(As)	0-0.03 (ppm)	0.00000 ppm
Gold(Au)	0-0.1 (ppm)	0.00000 ppm
Boron(B)	0-0.05 (ppm)	0.00 ppm
Barium(Ba)	0-0.01 (ppm)	0.00 ppm
Beryllium(Be)	0-0.02 (ppm)	0.00 ppm
Bismuth(Bi)	0-0.02 (ppm)	0.00 ppm
Calcium(Ca)	0-0.2 (ppm)	0.00 ppm
Cadmium(Cd)	0-0.01 (ppm)	0.00 ppm
Cobalt(Co)	0-0.02 (ppm)	0.00 ppm
Chromium(Cr)	0-0.01 (ppm)	0.00 ppm
Copper(Cu)	0-0.02 (ppm)	0.00 ppm
Iron(Fe)	0-0.1 (ppm)	0.00 ppm
Gallium(Ga)	0-0.02 (ppm)	0.00 ppm
Germanium (Ge)	0-0.02 (ppm)	0.00 ppm
Indium (In)	0-0.02 (ppm)	0.00 ppm
Potassium(K)	0-0.1 (ppm)	0.00 ppm

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14078 Meridian Parkway, Riverside, CA. 92518

Parameter	Limit Values	Result
Lithium(Li)	0-0.01 (ppm)	0.00 ppm
Magnesium(Mg)	0-0.1 (ppm)	0.00 ppm
Manganese(Mn)	0-0.03 (ppm)	0.00 ppm
Molybdenum(Mo)	0-0.02 (ppm)	0.00 ppm
Sodium(Na)	0-0.2 (ppm)	0.00 ppm
Nickel(Ni)	0-0.02 (ppm)	0.00 ppm
Lead(Pb)	0-0.02 (ppm)	0.00 ppm
Platinum(Pt)	0-0.2 (ppm)	0.00 ppm
Tin(Sn)	0-0.1 (ppm)	0.00 ppm
Strontium(Sr)	0-0.02 (ppm)	0.00 ppm
Titanium(Ti)	0-0.02 (ppm)	0.00 ppm
Thallium(Tl)	0-0.02 (ppm)	0.00000 ppm
Vanadium(V)	0-0.02 (ppm)	0.00 ppm
Zinc(Zn)	0-0.05 (ppm)	0.00 ppm
Zirconium(Zr)	0-0.02 (ppm)	0.00 ppm
Residue on ignition (as sulfate)	0-5 (ppm)	2.80000 ppm

A handwritten signature in black ink that reads "John Su".John Su
QA & QC Manager