LAB ALLEY
ESSENTIAL CHEMICALS

Certificate of Analysis

Product: Hydrofluoric Acid 49% Solution, Electronic/Cleanroom Grade
Item Number: T1000
CAS#: 7664-39-3
Grade: Electronic/Cleanroom
Lot Number: 119301
Manufacture Date: 08/05/2025
Expiration Date: 08/04/2028
Country of Origin: United States

Tested Property	Specification	Analysis
Assay (HF)	48.0 - 50.2%	49.05%
Color	≤7 APHA	<7 APHA
Fluorosilicic acid	≤10 ppm	<10 ppm
Chloride	≤1 ppm	<1 ppm
Nitrate	≤1 ppm	<1 ppm
Phosphate	≤0.4 ppm	<0.025 ppm
Sulfate	≤0.5 ppm	<0.5 ppm
Aluminum	≤10 ppm	<1 ppm
Arsenic	≤3 ppm	<0.3 ppm
Barium	≤1 ppm	<0.1 ppm
Bismuth	≤10 ppm	<1 ppm
Boron	≤1 ppm	<0.5 ppm
Cadmium	≤10 ppm	<5 ppm
Calcium	≤10 ppm	<2 ppm
Chromium	≤10 ppm	<5 ppm
Cobalt	≤10 ppm	<0.1 ppm
Copper	≤1 ppm	<0.1 ppm
Gallium	≤2 ppm	<0.2 ppm
Germanium	≤5 ppm	<0.5 ppm
Gold	≤5 ppm	<0.5 ppm

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Iron	≤10 ppm	<0.1 ppm
Lead	≤5 ppm	<0.5 ppm
Lithium	≤1 ppm	<0.1 ppm
Magnesium	≤1 ppm	<0.1 ppm
Manganese	≤1 ppm	<0.1 ppm
Molybdenum	≤10 ppm	<0.2 ppm
Nickel	≤2 ppm	<0.2 ppm
Niobium	≤10 ppm	<10 ppm
Potassium	≤10 ppm	<1 ppm
Silicon	≤1000 ppm	<1000 ppm
Silver	≤1 ppm	<0.1 ppm
Sodium	≤10 ppm	<1 ppm
Strontium	≤1 ppm	<0.1 ppm
Tantalum	≤10 ppm	<0.2 ppm
Thallium	≤10 ppm	<0.2 ppm
Tin	≤5 ppm	<0.5 ppm
Titanium	≤3 ppm	<0.3 ppm
Vanadium	≤10 ppm	<10 ppm
Zinc	≤5 ppm	<0.5 ppm
Zirconium	≤10 ppm	<0.1 ppm
Particles 1 Micron and Greater	≤2 mL	<0.5 mL
Particles 0.5 Micron and Greater	≤10 mL	<1.77 mL
Appearance	Clear/colorless	Pass
Antimony	≤10 ppm	<1 ppm

Store in a cool, dry, and well-ventilated place.

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Note: The information and recommendations of Lab Alley concerning this product are based upon laboratory tests and experience. To the best of our knowledge and belief these are true and accurate,

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