

Certificate of Analysis

Product: Isopropyl Alcohol, 99%
Item Number: IPAS99
Grade: Semiconductor
Lot Number: 5000108/2.1
Manufacture Date: 04/11/2023
Expiration Date: 04/10/2025
Country of Origin: United States

Tested Property	Specification	Analysis
Assay, %	Min. 99.5 %	99.98
Color (APHA)	Max. 10	5
Acidity, meq/g	Max. 0.2	<0.2
Alkalinity, meq/g	Max. 0.1	<0.1
Water, %	Max. 0.05	<0.02
Residue after evaporation, ppm	Max. 5	<1
Solubility in Water	To pass test	Passes
Chloride, ppm	Max. 0.2	<0.1
Phosphate, ppm	Max. 0.5	<0.1
Heavy metals (as Pb), ppm	Max. 0.2	<0.1
Arsenic & Antimony (as As), ppm	Max. 0.01	<0.001
Aluminium, ppm	Max. 1	<0.5
Barium, ppm	Max. 1	<0.5
Boron, ppm	Max. 0.01	<0.01
Cadmium, ppm	Max. 1	<0.5
Calcium, ppm	Max. 1	<0.5
Chromium, ppm	Max. 0.5	<0.5
Cobalt, ppm	Max. 0.1	<0.1
Copper, ppm	Max. 0.1	<0.1
Gallium, ppm	Max. 0.5	<0.5

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Germanium, ppm	Max. 1	<0.5
Gold, ppm	Max. 0.5	<0.5
Iron, ppm	Max. 0.1	<0.1
Lithium, ppm	Max. 1	<0.5
Magnesium, ppm	Max. 1	<0.5
Manganese, ppm	Max. 1	<0.1
Nickel, ppm	Max. 0.1	<0.1
Potassium, ppm	Max. 1	<0.5
Silicon, ppm	Max. 1	<0.5
Silver, ppm	Max. 0.5	<0.1
Sodium, ppm	Max. 1	<1
Strontium, ppm	Max. 1	<1
Tin, ppm	Max. 1	<1
Zinc, ppm	Max. 1	<1
Specific Gravity @ 25°C	Max. 0.783	0.783
Specific Gravity @ 20°C	Max. 0.786	0.786

Meets ACS Specifications and TT-I-735 Grade A and B.

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