

Certificate of Analysis

Product: Isopropyl Alcohol, 99%
Item Number: IPAS99
Grade: Semiconductor
Lot Number: 5000881/1.1
Manufacture Date: 09/17/2024
Expiration Date: 09/16/2027
Country of Origin: United States

Tested Property	Specification	Analysis
Assay, wt%	Min. 99.80	99.97
Color (APHA)	Max. 10	5
Acidity, meq/g	Max. 0.2	<0.2
Alkalinity, meq/g	Max. 0.1	<0.1
Water, wt%	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	<0.5
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	0.7830 - 0.7870	0.7830
Specific Gravity @ 20°C	0.7850 - 0.7870	0.7860

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

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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, however Lab Alley assumes no obligation or liability for the information in this document. Since conditions of actual use are beyond our control, any recommendations or suggestions regarding merchantability and fitness for particular purposes are made without warranty, expressed or implied.

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