

**Certificate of Analysis**

**Product: Isopropyl Alcohol, 99%**  
**Item Number: IPAS99**  
**Grade: Semiconductor**  
**Lot Number: 5001239/1.1**  
**Manufacture Date: 02/08/2025**  
**Expiration Date: 02/07/2028**  
**Country of Origin: United States**

<b>Tested Property</b>	<b>Specification</b>	<b>Analysis</b>
Assay, wt%	Min. 99.50	99.98
Color (APHA)	Max. 10	5
Titration acid or base, meq/g	Max. 0.0001	<0.0001
Carbonyl compounds	Max. 0.002%	<0.0002
Water	Max. 0.2%	<0.01
Residue after evaporation	Max. 0.001%	<0.001
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
Density @ 25°C	0.7830 - 0.7840 g/ml	0.7831
Density @ 20°C	0.7862 - 0.7870 g/ml	0.7864
Boiling range	82.3°C +/-0.1°C	Pass

Meets ACS, TT-I-735 and D770 Grade A and B Federal specification.

[Isopropyl Alcohol, 99%](#)

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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