

### Certificate of Analysis

**Product: Isopropyl Alcohol, 99%**  
**Item Number: IPAS99**  
**Grade: Semiconductor**  
**Lot Number: 5000822/1.2**  
**Manufacture Date: 08/13/2024**  
**Expiration Date: 08/12/2027**  
**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

Phone: 512-668-9918, Fax: 512-886-4008,  
 E-mail: [Customerservice@laballey.com](mailto:Customerservice@laballey.com),  
[www.laballey.com](http://www.laballey.com),

12501 Pauls Valley Road, Suite A, Austin, Texas 78737.

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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 @ 25Â°C	0.7830 - 0.7870	0.7830
Specific Gravity @ 20Â°C	0.7850 - 0.7870	0.7860

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

[Isopropyl Alcohol, 99%](#)

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