

Certificate of Analysis

Product: Isopropyl Alcohol 99%
Item Number: IPAS99
Grade: Semiconductor
Lot Number: 122122
Manufacture Date: 12/21/2022
Expiration Date: 12/20/2024
Country of Origin: United States

Tested Property	Specification	Analysis
Assay (CH ₃ CHOH CH ₃)	99.5% min	99.98
Color (APHA)	10 Max.	5
Acidity	0.2 ueg/g	<0.2 meq/g
Alkalinity	0.1 ueg/g	<0.1 meq/g
Water (H ₂ O)	0.05%	<0.02%
Residue after Evaporation	5 ppm	<1 ppm
Solubility in water	To pass test	Pass
Chloride (Cl)	0.2 ppm	<0.1 ppm
Phosphate (PO ₄)	0.5 ppm	<0.1 ppm
Heavy Metals (as Pb)	0.2 ppm	<0.1 ppm
Arsenic & Antimony (as As)	0.01 ppm	<0.001 ppm
Aluminium (Al)	1 ppm	<0.5 ppm
Barium (Ba)	1 ppm	<0.5 ppm
Boron (B)	0.01 ppm	<0.01 ppm
Cadmium (Ca)	1 ppm	<0.5 ppm
Calcium (Ca)	1 ppm	<0.5 ppm
Chromium (Cr)	0.5 ppm	<0.5 ppm
Cobalt (Co)	0.1 ppm	<0.1 ppm
Copper (Cu)	0.1 ppm.	<0.1 ppm
Gallium (Ga)	0.5 ppm	<0.5 ppm

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Germanium (Ge)	1 ppm	<0.5 ppm
Gold (Au)	0.5 ppm	<0.5 ppm
Iron (Fe)	0.1 ppm	<0.1 ppm
Magnesium (Mg)	1 ppm	<0.5 ppm
Manganese (Mn)	1 ppm	<0.5 ppm
Nickel (Ni)	0.1 ppm	<0.1 ppm
Potassium (K)	1 ppm	<0.5 ppm
Silicon (Si)	1 ppm	<0.5 ppm
Silver (Ag)	0.5 ppm	<0.1 ppm
Sodium (Na)	1 ppm	<1 ppm
Strontium (Sr)	1 ppm	<1 ppm
Tin (Sn)	1 ppm	<1 ppm
Zinc (Zn)	1 ppm	<1 ppm

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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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