

**Certificate of Analysis**

**Product: Isopropyl Alcohol, 99%**  
**Item Number: IPAHPLC**  
**Grade: HPLC**  
**Lot Number: 230328-B052308**  
**Manufacture Date: 03/10/2023**  
**Expiration Date: 03/09/2028**  
**Country of Origin: United States**

<b>Tested Property</b>	<b>Specification</b>	<b>Analysis</b>
Assay (corrected for water)	99.5% Min	99.92%
Carbonyl Compounds - Acetone	0.002% Max	0.000%
Carbonyl Compounds - Propionaldehyde	0.002% Max	LT 0.002%
Color, APHA	10 max	1
Residue after Evaporation	0.001% Max	0.000%
Solubility in Water	To Pass Test	Pass
Titration Acid or Base	0.0001 meq/g	0.0001 meq/g
Water, wt%	NMT 0.2%	0.03%
Absorbance	To Pass Test	Pass
Gradient Analysis @ 254nm	To Pass Test	Pass
Gradient Elution	To Pass Test	To Pass Test
Liquid Chromatography	To Pass Test	Pass
UV Absorbance @210nm	1.0 Max.	0.35
UV Absorbance @ 220nm	0.40 Max.	0.16
UV Absorbance @ 230nm	0.20 Max	0.09
UV Absorbance @ 245nm	0.08 Max	0.02
UV Absorbance @ 260nm	0.04 Max	0.01
UV Absorbance @ 275nm	0.03 Max	0.00
UV Absorbance @ 300nm	0.02 Max	0.00
UV Absorbance @ 400 - 330nm	0.01 Max	0.00

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Acidity	NMT 0.70 ml of 0.020N NaOH is required	0.50ml
Limit of Volatile Impurities - Diethyl Ether	NMT 0.1%	LT 0.1%
Limit of volatile Impurities - Diisopropyl Ether	NMT 0.1%	LT 0.1%
Limit of volatile Impurities -Individual unspecified	NMT 0.1%	LT 0.1%
Limit of volatile Impurities - Methanol	NMT 0.02%	LT 0.02%
Limit of volatile Impurities - n-Propyl Alcohol	NMT 0.1%	LT 0.1%
Limit of Nonvolatile Residue	NMT 2.5mg (0.005%)	0.0mg
Refractive Index @ 20°C	1.376 - 1.378	1.377
Specific Gravity @ 25°C	0.783 - 0.787	0.783
Limit of volatile Impurities - Total	NMT 1.0%	LT 0.1%

[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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