

### Certificate of Analysis

**Product: Isopropyl Alcohol 99%**  
**Item Number: IPAHPLC**  
**Grade: HPLC**  
**Lot Number: 5000947/1.2**  
**Manufacture Date: 12/13/2022**  
**Expiration Date: 12/12/2027**  
**Country of Origin: United States**

Tested Property	Specification	Analysis
Assay	Min 99.0%	99.93
Assay (Corrected for Water)	Min 99.5%	99.93
Solubility in Water	To Pass Test	Passes
Color APHA	Max 10	1
Limit of Nonvolatile Residue	Max 2.5 mg	0.0
Residue after Evaporation	Max 0.001%	0.000
Specific Gravity @ 25°C	0.783 - 0.787	0.783
Identification A - Infrared Spectroscopy	To Pass Test	Passes
Identification B	To Pass Test	Passes
Identification C - Limit of Methanol	Max 0.02%	Passes
Refractive Index @ 20°C	1.376 - 1.378	1.377
Acidity	Max 0.70 mL of 0.020N NaOH is required	0.40
Titration Acid or Base	Max 0.0001 meq/g	0.0001
Carbonyl Compounds - Propionaldehyde	Max 0.002%	<0.002
Carbonyl Compounds - Acetone	Max 0.002%	0.001
UV Absorbance @ 210 nm	Max 1.0	0.34
UV Absorbance @ 220 nm	Max 0.40	0.16
UV Absorbance @ 230 nm	Max 0.20	0.08
UV Absorbance @ 245 nm	Max 0.08	0.02
UV Absorbance @ 260 nm	Max 0.04	0.00

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UV Absorbance @ 275 nm	Max 0.03	0.00
UV Absorbance @ 300 nm	Max 0.02	0.00
UV Absorbance @ 330 nm	Max 0.01	0.00
UV Absorbance @ 330 - 400 nm	Max 0.01	0.00
Limit of Volatile Impurities - Methanol	Max 0.02%	<0.02
Limit of Volatile Impurities - Diethyl Ether	Max 0.1%	<0.1
Limit of Volatile Impurities - Acetone	Max 0.1%	<0.1
Limit of Volatile Impurities - Diisopropyl Ether	Max 0.1%	<0.1
Limit of Volatile Impurities - n-Propyl Alcohol	Max 0.1%	<0.1
Limit of Volatile Impurities - 2-Butanol	Max 0.1%	<0.1
Limit of Volatile Impurities - Individual Unspecified	Max 0.1%	<0.1
Limit of Volatile Impurities - Total	Max 1.0%	<0.1
Water	Max 0.2%	0.04

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