

Certificate of Analysis

Product: Isopropyl Alcohol, 99%
Item Number: IPAU99
Grade: USP
Lot Number: 292466
Manufacture Date: 08/24/2022
Expiration Date: 12/31/2024
Country of Origin: United States

Tested Property	Specification	Analysis
Purity, wt%	99.8 min	99.9%
Methanol, %	0.02 max.	Passes
Ethyl Ether, %	0.1 max.	Passes
Acetone, %	0.1 max.	Passes
Diisopropyl Ether, %	0.1 max.	Passes
1-propanol, %	0.1 max.	Passes
2-butanol, %	0.1 max.	Passes
Any Individual Impurity, %	0.1 max.	Passes
Total Impurities, %	1.0 max.	Passes
Water, wt%	0.10 max.	0.03%
APHA Color, Pt-Ca	5 max.	3
Acidity as Acetic Acid, wt%	0.001 max	0.001
Appearance	Clear & FFSM	Pass
Density @ 20°C, g/ml	0.785 - 0.786	0.785
Specific Gravity @ 20/20°C	0.785 - 0.787	0.787
Specific Gravity @ 25/25°C	0.783 - 0.787	0.783
Non Volatile Residue, g/100mL	0.0010 max.	0.0002
Refractive Index @ 20°C	1.376 - 1.378	1.377
Distillation IBP, °C	81.8 min.	82.1°C
Distillation DP, °C	82.8 max.	82.4°C

Phone: 512-668-9918, Fax: 512-886-4008,
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Water Miscibility	Clear & Miscible	Passes
Identification by IR	To pass the test	Passes
Identification by GC Retention	To pass the test	Passes
Purity, wt%	99.8 min	99.9%
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