

### Certificate of Analysis

**Product: Isopropyl Alcohol 99.8%**  
**Item Number: IPAU99**  
**Grade: USP**  
**Lot Number: 5000349/1.1**  
**Manufacture Date: 10/27/2023**  
**Expiration Date: 10/26/2025**  
**Country of Origin: United States**

Tested Property	Specification	Analysis
Purity, wt%	>99.0	99.9%
Limit of individual volatile impurities , %	≤0.1	Pass
Limit of total volatile impurities , %	≤1.0	Pass
Water, wt%	≤0.5	0.05
Identification test A (IR)	Pass the test	Pass
Identification test B (GC retention)	Pass the test	Pass
Specific gravity @ 25/25°C	0.783 - 0.787	0.787
Refractive Index @20°C	1.376 - 1.378	1.377
Limit of Nonvolatile Residue, g/100mL	≤0.005	0.0002
Acidity as Acetic Acid, wt%	≤0.001	0.001
Appearance	Clear/clean free of suspended particles	Pass
Color, APHA (Pt-Co)	Max 5	3
Distillation Range	1°C max, includes 82.3 °C	Pass
Distillation IBP, °C	Min 81.8	82.1
Distillation DP, °C	Max 82.8	82.4
Water miscibility	Clear and miscible	Pass

Meets USP monograph specifications for Isopropyl Alcohol. Meets U.S. Federal Specification TT-I-735A Amendment 3, Notice 3, 6 June 2007, Grades A & B.

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