

**Certificate of Analysis****Product: Isopropyl Alcohol 99.8% USP Grade, Kosher, Halal****Item Number: IPAU99****CAS#: 67-63-0****Grade: USP****Lot Number: 5001886/1.1****Manufacture Date: 12/15/2025****Expiration Date: 12/14/2028****Country of Origin: United States**

| Tested Property                                | Specification                      | Analysis |
|------------------------------------------------|------------------------------------|----------|
| Isopropyl Alcohol Purity/Assay                 | Min 99.0 Wt. %                     | 99.9     |
| Water                                          | Max 0.10 Wt. %                     | 0.02     |
| Specific Gravity @20°C                         | 0.783 - 0.787                      | 0.787    |
| Refractive Index @20°C                         | 1.376 - 1.378                      | 1.377    |
| Limit of Nonvolatile Residue                   | Max 0.005 g/100mL                  | 0.0002   |
| Acidity as Acetic Acid                         | Max 0.001 Wt. %                    | 0.001    |
| Appearance                                     | Clear, free of suspended particles | Pass     |
| Color, APHA                                    | Max 5 (Pt-Co)                      | <5       |
| Water miscibility                              | Clear and miscible                 | Pass     |
| Distillation Range                             | 1 °C max, includes 82.3°C          | Pass     |
| Distillation IBP                               | Min 81.8°C                         | 82.0     |
| Distillation DP                                | Max 82.8°C                         | 82.3     |
| Acidity, mL 0.020 N NaOH to neutralize         | Max 0.70                           | 0.50     |
| Identification A (IR)                          | Pass the test                      | Pass     |
| Identification B (GC retention)                | Pass the test                      | Pass     |
| Limit of Volatile Impurities (Total)           | Max 1.0 %                          | Pass     |
| Limit of Volatile Impurities (Each individual) | Max 0.1 %                          | Pass     |
| Methanol                                       | <200 ppm                           | Pass     |

Meets U.S. Federal Specification TT-I-735A Amendment 3, Notice 3, 6 June 2007, Grades A &amp;B.

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