

## Certificate of Analysis

Date of Testing: 2023-01-04 13:43:36  
 Date of Next Testing: 2027-01-03 13:43:36  
 Product Name: **Isopropyl Alcohol**  
 CAS Number: 67-63-0  
 Specifications & Purity: ACS, ≥99.5%  
 Lot #: L2220383  
 SKU #: **I112014**  
**Analysis: 173974**

| Parameter                      | Limit Values          | Result                |
|--------------------------------|-----------------------|-----------------------|
| Tit. acid or base              | 0-0.0001 (mg/g)       | 0.00 mg/g             |
| Purity(GC)                     | 99.5-100 (%)          | 99.96 %               |
| Water by Karl Fischer          | 0-0.2 (%)             | 0.01 %                |
| UV Absorbance 220nm            | 0-0.4                 | 0.12                  |
| UV Absorbance 300nm            | 0-0.02                | 0.01                  |
| Evaporation Residue            | 0-0.001 (%)           | 0.00 %                |
| UV Absorbance 210nm            | 0-1                   | 0.29                  |
| Carbonly compounds             | 0-0.002 (%)           | 0.00 %                |
| UV Absorbance 400nm            | 0-0.01                | 0.00                  |
| UV Absorbance 330nm            | 0-0.01                | 0.00                  |
| UV Absorbance 275nm            | 0-0.03                | 0.01                  |
| UV Absorbance 245nm            | 0-0.08                | 0.00                  |
| UV Absorbance 230nm            | 0-0.2                 | 0.05                  |
| UV Absorbance 260nm            | 0-0.04                | 0.00                  |
| Appearance (I112014)           | Colorless Liquid      | Colorless liquid      |
| Infrared spectrum              | Conforms to Structure | Conforms to Structure |
| Solubility in H <sub>2</sub> O | Almost transparency   | almost transparency   |
| λ, H <sub>2</sub> O reference  | Pass                  | Pass                  |



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su  
QA & QC Manager