

## **Certificate of Analysis**

## Reagent Alcohol, ACS Reagent Grade Anhydrous, Absolute

Product Number: 6590

Manufacture Date: APR 07, 2022 Expiration Date: FEB 2025

| Name              | CAS#    | Grade |  |
|-------------------|---------|-------|--|
| Ethyl Alcohol     | 64-17-5 | ACS   |  |
| Isopropyl Alcohol | 67-63-0 | ACS   |  |
| Methyl Alcohol    | 67-56-1 | ACS   |  |

| Test  | Specification     | Result       |  |
|---|-------------------|--------------|--|
| Appearance                                      | Colorless liquid  | Passed       |  |
| Color (APHA)                                    | max 10            | 10           |  |
| Ethanol (Ethyl Alcohol)                         | 89.5-91.5 % (v/v) | 90.5 % (v/v) |  |
| Isopropyl Alcohol                               | 4.0-6.0 % (v/v)   | 4.9 % (v/v)  |  |
| Methanol (Methyl Alcohol)                       | 4.0-5.0 % (v/v)   | 4.6 % (v/v)  |  |
| Residue after evaporation (Non-Volatile Matter) | max 0.001 %       | 0.001 %      |  |
| Water $(H_2O)$                                  | max 0.5 %         | 0.01 %       |  |
| Specification                                   | Reference         |              |  |

Reagent Alcohol

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

ACS (N/A)

| Part Number                          | Size / Package Type | Shelf Life (Unopened Container) |  |  |
|--------------------------------------|---------------------|---------------------------------|--|--|
| 6590-1                               | 4 L natural poly    | 36 months                       |  |  |
| $\mathbf{D}$ 110 120 2000 (2007 000) |                     |                                 |  |  |

Recommended Storage: 15°C - 30°C (59°F - 86°F)

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Paul Brandon (04/07/2022) Production Manager This document is designed to comply with ISO Guide 31 "Reference Materials --Contents of Certificates and Labels."

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