

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by Intertek Global
 Certificate Number: CERT-0120633

| | |
|---------------------------|---|
| Catalogue Number | A451 |
| Lot Number | 260168 |
| Description | 2-PROPANOL, HPLC, A.C.S. |
| CAS Number | 67-63-0 |
| Quality Test/Release Date | 10/Feb/2026 |
| Suggested retest date | 09/Feb/2031 |
| Country of Origin | Canada |
| Declaration of Origin | Organic - synthetic |
| BSE/TSE | This product is produced entirely from petrochemical sources and does not contain or come into contact with any material of animal or vegetable origin. |

| Result Name | Units | Specifications | Test Value |
|--------------------------|----------------------|------------------------|-------------------------|
| APPEARANCE | | REPORT | Clear, colorless liquid |
| ACETONE | % | <= 0.002 | <0.002 |
| ASSAY | % | >= 99.8 | 99.9 |
| COLOR | APHA | <= 10 | <5 |
| EVAPORATION RESIDUE | ppm | <= 2 | <2 |
| FLUORESCENCE BACKGROUND | ppb | <= 20 | <20 |
| IDENTIFICATION | CONFORMS TO STANDARD | = CONFORMS TO STANDARD | CONFORMS TO STANDARD |
| OPTICAL ABS 330 - 400 NM | ABSORBANCE UNITS | <= 0.01 | <0.01 |
| OPTICAL ABS AT 210 NM | ABSORBANCE UNITS | <= 1.00 | 0.48 |
| OPTICAL ABS AT 220 NM | ABSORBANCE UNITS | <= 0.40 | 0.22 |
| OPTICAL ABS AT 230 NM | ABSORBANCE UNITS | <= 0.20 | 0.11 |
| OPTICAL ABS AT 245 NM | ABSORBANCE UNITS | <= 0.08 | 0.03 |
| OPTICAL ABS AT 260 NM | ABSORBANCE UNITS | <= 0.04 | 0.01 |
| OPTICAL ABS AT 275 NM | ABSORBANCE UNITS | <= 0.03 | <0.03 |
| OPTICAL ABS AT 300 NM | ABSORBANCE UNITS | <= 0.02 | <0.02 |
| PROPIONALDEHYDE | % | <= 0.002 | <0.002 |
| SOLUBILITY IN WATER | PASS/FAIL | = PASS TEST | PASS TEST |
| TITRATABLE ACID OR BASE | mEq/g. | <= 0.0001 | 0.0001 |
| WATER (H2O) | % | <= 0.2 | <0.2 |

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of the catalogue number listed above.



Ash Frey
Supervisor, Quality Control

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third-party data or information associated with the product. Products are for research use or further manufacturing. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

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