

CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by INTERTEK SAI Global
Certificate Number. QMS42099

| | |
|---------------------------|---|
| Catalogue Number | E/0555 |
| Lot Number | 2547437 |
| Description | Ethanol, 96% v/v AR For analysis |
| CAS Number | 64-17-5 |
| Quality Test/Release Date | 06/Aug/2025 |
| Expiry Phrase | Use within 5 yrs of opening |
| Country of Origin | Germany |
| Declaration of Origin | Synthetic |
| BSE/TSE | Not directly derived from or manufactured with any animal byproducts in any way (Including but not limited to fermentation or nutrient broth, catalysts, enzymes). |

| Result Name | Units | Specifications | Test Value |
|---|-------|------------------|------------------|
| Acetone | % | <= 0.002 | None Detected |
| Acidity/alkalinity (meq/g) | meq/g | <= 0.0005 | 0.00005 |
| Aldehyde | % | <= 0.001 | <0.001 |
| Amyl alcohol and non volatile carbonisable substances | | Must be 'Pass' | Pass |
| Assay (v/v %) | % v/v | >= 96 | 96.34 |
| Benzene | % | <= 0.0002 | 0.000099 |
| Calcium (Ca) | ppm | <= 1 | <0.02 |
| Chemical form | | Mobile liquid | Mobile liquid |
| Colour | APHA | <= 10 | <5 |
| Copper (Cu) | ppm | <= 0.05 | <0.01 |
| Furfuraldehyde | % | <= 0.001 | None Detected |
| Iron (Fe) | ppm | <= 0.2 | <0.02 |
| Lead (Pb) | ppm | <= 0.05 | <0.005 |
| Magnesium (Mg) | ppm | <= 0.2 | <0.01 |
| Methanol | % | <= 0.02 | 0.00022 |
| Other impurities | % | <= 0.02 | 0.0045 |
| Potassium (K) | ppm | <= 0.1 | <0.02 |
| Propan-2-ol | % | <= 0.02 | 0.00024 |
| Residue after evaporation (ppm) | ppm | <= 10 | None Detected |
| Sodium (Na) | ppm | <= 2 | <0.2 |
| Substances darkened by H2SO4 (APHA) | APHA | <= 10 | <5 |
| Substances reducing KMnO4 | % | <= 0.0005 | <0.0005 |
| Total phosphorus (P) | ppm | <= 0.2 | <0.02 |
| Total silicon (Si) | ppm | <= 0.05 | <0.02 |
| Total sulfur (S) | ppm | <= 2 | <0.05 |
| Visual colour | | Clear colourless | Clear colourless |
| Water insoluble substances (Pass/Fail) | | Must be 'Pass' | Pass |
| Zinc (Zn) | ppm | <= 0.2 | <0.01 |

Additional Information Meets the current analytical specification of BP and Ph. Eur.



Ashok Ganatra
Supervisor, QC

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.

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