

## 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	22409
Lot Number	B0549216A
Description	ETHANOL, FOR SPECTROSCOPY, ANHYDROUS, CONTAINS 5% 2-PROPANOL AND 5% METHANOL
CAS Number	64-17-5
Quality Test/Release Date	13/Jun/2025
Suggested retest date	12/Jun/2030
Country of Origin	United States
Declaration of Origin	Organic - non animal
BSE/TSE	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear Liquid
COLOR	APHA	<= 5	<5
ETHANOL	%	>= 90	91
EVAPORATION RESIDUE	%	<= 0.0005	<0.0005
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
ISOPROPYL ALCOHOL	%	Inclusive Between 4.0 - 6.0	5.0
METHANOL	%	Inclusive Between 3.0 - 5.0	4.5
OPTICAL ABS AT 205 NM	ABSORBANCE UNITS	<= 1	1
OPTICAL ABS AT 210 NM	ABSORBANCE UNITS	<= 0.65	0.41
OPTICAL ABS AT 250 NM	ABSORBANCE UNITS	<= 0.04	0.02
OPTICAL ABS AT 300 NM	ABSORBANCE UNITS	<= 0.01	<0.01
WATER (H2O)	%	<= 0.1	<0.1

**Additional Information** No animal-derived substances, phthalates, or Bis-Phenol A are used in the manufacturing of this product. To the best of our knowledge, it does not contain any of these substances.



Matthew Micek  
QC Supervisor

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.

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.