

## CERTIFICATE OF ANALYSIS

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by TUV SUD America Inc.  
 Certificate Number. 951001163

Catalogue Number	022931
Lot Number	S05L722
Description	Ethanol, anhydrous, denatured, Spectrophotometric Grade, 90%, 5% methanol, 5% isopropanol
CAS Number	64-17-5
Quality Test/Release Date	11/Jun/2025
Suggested retest date	11/Jun/2030
Country of Origin	United States
Declaration of Origin	Synthetic

Result Name	Units	Specifications	Test Value
Color (APHA)	APHA	10, max	5
Assay (GC)	%	88 to 92% Ethanol	90
Assay (GC)	%	4 to 6% Methanol	5
Assay (GC)	%	4 to 6% 2-Propanol	5
Appearance (Color)		Colorless	Colorless
Form		Liquid	Liquid
Water Content (Karl Fischer Titration)	%	0.1%, max	0.02
Optical Absorbance at	AU	270nm: .01AU, max	0.004
Optical Absorbance at	AU	250nm: 0.05AU, max	0.02
Optical Absorbance at	AU	230nm: 0.20AU, max	0.09
Optical Absorbance at	AU	220nm: 0.50AU, max	0.18
Optical Absorbance at	AU	210nm: 1.00AU, max	0.36
Residue on Evaporation	ppm	5ppm, max	1



John Astarita  
 Director, Quality

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 and development use only. 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.