

Thermo Fisher Scientific Ward Hill, MA-Sites

 30 Bond Street
 220 Neck Road
 38 Shelley Road

 Ward Hill
 Ward Hill
 Ward Hill

 MA 01835
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## 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 045844
Lot Number W17L025

Description Ethanol, denatured, 91.6%, 3.7% methanol, 1.9% MIBK, 1% heptane, 1% ethyl

acetate, 1% toluene (v/v)

CAS Number 64-17-5
Quality Test/Release Date 17/Sep/2025
Suggested retest date 17/Sep/2030
Country of Origin United States

Result Name	Units	Specifications	Test Value
Assay		Toluene: 0.91-1.01%	Pass
Assay		MeOH: 3.48-3.84%	Pass
Assay		MIBK: 1.79-1.97%	Pass
Assay		Heptane: 0.91-1.01%	Pass
Assay		Ethyl Acetate: 0.91-1.01%	Pass
Assay		EtOH: 91.12-92.04%	Pass
Appearance (Color)		Clear	Clear
Free acid (titration)	%	≤0.005% (as Acetic Acid)	<0.005
Form		Liquid	Liquid
Specific Gravity		0.8140-0.8160 @ 15°C	0.8149

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Luis Perez Interim Director Quality, LCD

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.