

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	E197
Lot Number	254514
Description	ETHYL ETHER, ANHYDROUS, SPECTRANALYZED
CAS Number	60-29-7
Quality Test/Release Date	08/Dec/2025
Suggested retest date	28/Feb/2027
Country of Origin	Mexico
Declaration of Origin	Organic - synthetic
BSE/TSE	This product was derived from synthetic raw materials and the manufacturing process excluded contamination with any animal products.

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid free of suspended matter
ACIDITY	ppm	<= 5	<2
ALCOHOL CONTENT	%	Inclusive Between 1.5 - 2.5	1.8
ASSAY	%	>= 99	99.95
CARBONYL COMPOUNDS	%	<= 0.001	<0.001
COLOR	APHA	<= 10	<5
COPPER (Cu)	ppm	<= 0.1	<0.1
DENSITY AT 25 DEGREES C	GM/ML	Inclusive Between 0.708 - 0.710	0.710
EVAPORATION RESIDUE	%	<= 0.001	<0.00003
HEAVY METALS (as Pb)	ppm	<= 1	<1
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
NICKEL (Ni)	ppm	<= 0.1	<0.1
OPTICAL ABS AT 220 NM	ABSORBANCE UNITS	<= 1	0.11
OPTICAL ABS AT 221 NM	ABSORBANCE UNITS	<= 0.8	0.10
OPTICAL ABS AT 224 NM	ABSORBANCE UNITS	<= 0.6	0.10
OPTICAL ABS AT 231 NM	ABSORBANCE UNITS	<= 0.4	0.08
OPTICAL ABS AT 242 NM	ABSORBANCE UNITS	<= 0.2	0.05
OPTICAL ABS AT 254 NM	ABSORBANCE UNITS	<= 0.1	0.02
OPTICAL ABS AT 270 NM	ABSORBANCE UNITS	<= 0.03	0.01
OPTICAL ABS AT 400 NM	ABSORBANCE UNITS	<= 0.01	0.001
PEROXIDE	ppm	<= 5	<1
SUBSTANCES DARKENED BY H2SO4	PASS/FAIL	= PASS TEST	PASS TEST



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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