Fisher Scientific L.L.C. US
755 US Highway
Route 202, Bridgewater,
NJ 08807, United States of America

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	A453
Lot Number	261015
Description	METHANOL, PURGE & TRAP GRADE
CAS Number	67-56-1
Quality Test/Release Date	10/Sep/2026
Suggested retest date	09/Sep/2031
Country of Origin	Venezuela
Declaration of Origin	Organic - synthetic
BSE/TSE	This product is derived from petroleum products. It does not contain any materials that are of human or animal origin, nor does it come into contact with such materials during the manufacturing process. Therefore, to the best of our knowledge, there is no potential for BSE or TSE to be present in this product.

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear Colorless Liquid free of suspended matter
2-BUTANONE	ppb	<= 50	<50
ACETONE	ppb	<= 50	<50
ALKANES	ppb	<= 50	<10
AROMATIC COMPOUNDS	ppb	<= 10	<10
ASSAY	%	>= 99.9	99.99
CARBON TETRACHLORIDE	ppb	<= 10	<10
CHLOROFORM	ppb	<= 10	<10
CHLOROHYDROCARBONS (NON-AROMANTIC)	ppb	<= 10	<10
EVAPORATION RESIDUE	ppm	<= 1	0.1
HEPTANE	ppb	<= 50	<50
HEXANE	ppb	<= 50	<10
IDENTIFICATION	PASS/FAIL	IN PASS TEST	PASS TEST
ISO-OCTANE	ppb	<= 50	<50
METHYL ISO-AMYL KETONE	ppb	<= 50	<50
METHYLENE CHLORIDE	ppb	<= 10	<10
OTHER DETECTABLE ALKANES	ppb	<= 50	<50
OTHER DETECTABLE CHLOROHYDROCARBONS	ppb	<= 10	<10
OTHER DETECTABLE KETONES	ppb	<= 50	<50
OTHER DETECTABLE PEAKS AS HEXANE	ppb	<= 50	<50
PENTANE	ppb	<= 50	<10
TITRATABLE ACID	MEQ/G	<= 0.0003	0.0002
TITRATABLE BASE	MEQ/G	<= 0.0002	0.00002
VOLATILE ORGANIC CMPDS (EPA8260B OR EQUIV)	PASS/FAIL	IN PASS TEST	PASS TEST
WATER (KARL FISCHER)	%	<= 0.3	0.002

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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Liam Higgins
Senior Manager, 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 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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