



Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
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ThermoFisher Scientific's Quality System has been found to conform to Quality Management System
Standard ISO9001:2008 standard by SAI Global Certificate Number CERT - 0090918

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. ThermoFisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Certain products (USP/FCC/NF/EP/BP/JP grades) are sold for use in food, drug, or medical device manufacturing. ThermoFisher does not maintain DMF's with the FDA. The following are the actual analytical results obtained:

Catalog Number	A453	Quality Test / Release Date	08/16/2018
Lot Number	185042		
Description	METHANOL, PURGE & TRAP GRADE		
Country of Origin	Venezuela	Suggested Retest Date	Aug/2023
Chemical Origin	Organic - synthetic		
BSE/TSE Comment	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.		
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear colorless liquid free of suspended matter
2-BUTANONE	ppb	<= 50	<25
WATER (KARL FISCHER)	%	<= 0.2	0.02
OTHER DETECTABLE ALKANES	ppb	<= 50	<25
AROMATIC COMPOUNDS	ppb	<= 10	<10
ASSAY	%	>= 99.9	>99.99
CARBON TETRACHLORIDE	ppb	<= 10	<10
CHLOROFORM	ppb	<= 10	<10
OTHER DETECTABLE CHLOROHYDROCARBONS	ppb	<= 10	<10
EVAPORATION RESIDUE	ppm	<= 1	0.1
HEPTANE	ppb	<= 50	<25
HEXANE	ppb	<= 50	<25
ISO-OCTANE	ppb	<= 50	<25
OTHER DETECTABLE KETONES	ppb	<= 50	<25
METHYLENE CHLORIDE	ppb	<= 10	<10
METHYL ISO-AMYL KETONE	ppb	<= 50	<25
OTHER DETECTABLE PEAKS AS HEXANE	ppb	<= 50	<10
PENTANE	ppb	<= 50	<25
TITRATABLE ACID	MEQ/G	<= 0.0003	0.0002
TITRATABLE BASE	MEQ/G	<= 0.0002	<0.0001

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above. If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.



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VOLATILE ORGANIC CMPDS (EPA8260B OR EQUIV)	PASS/FAIL	= PASS TEST	PASS TEST
ACETONE	ppb	<= 50	<25

Quality Assurance Specialist - Certificate of Analysis Bridgewater

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