

Certificate of Analysis

1 Reagent Lane
 Fair Lawn, NJ 07410
 201.796.7100 tel
 201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
 Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

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. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	A516	Quality Test / Release Date	11/27/2024
Lot Number	245747		
Description	2-PROPANOL, USP		
Country of Origin	Canada	Suggested Retest Date	Nov/2027
Chemical Origin	Organic - synthetic		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		
Comment	This product is free of Genetically Modified Organisms (GMO's). It is free of known allergy-stimulating substances: peanuts, soybeans, milk, eggs, fish, shellfish, tree nuts, and/or wheat or gluten.		

USP Grade			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ACIDITY	PASS/FAIL	= PASS TEST	PASS TEST
ASSAY	%	>= 99.0	100.0
IDENTIFICATION (ALL LISTED)	PASS/FAIL	= PASS TEST	PASS TEST
IMPURITIES LIMIT OF METHANOL	%	<= 0.02	<0.002
LIMIT OF VOLATILE IMPURITIES	PASS/FAIL	= PASS TEST	PASS TEST
LIMIT OF VOLATILE IMPURITIES (EACH INDIVIDUAL)	%	<= 0.1	<0.1
LIMIT OF VOLATILE IMPURITIES (TOTAL)	%	<= 1.0	<1.0
NON-VOLATILE RESIDUE	%	<= 0.005	0.000
OPTICAL ABS AT 230 NM	ABS. UNITS	<= 0.30	0.11
OPTICAL ABS AT 250 NM	ABS. UNITS	<= 0.10	0.02
OPTICAL ABS AT 270 NM	ABS. UNITS	<= 0.03	0.00
OPTICAL ABS AT 290 NM	ABS. UNITS	<= 0.02	0.00
OPTICAL ABS AT 310 NM	ABS. UNITS	<= 0.01	<0.01
REFRACTIVE INDEX @ 20 DEG C		Inclusive Between 1.376 - 1.378	1.377
RESIDUAL SOLVENTS	Meets Requirements	= MEETS REQUIREMENTS	MEETS REQUIREMENTS
SPECIFIC GRAVITY @ 25 C		Inclusive Between 0.783 - 0.787	0.783
USP PROTOCOL REQUIRED	Meets Requirements	= MEETS REQUIREMENTS	MEETS REQUIREMENTS
WATER	%	<= 0.5	0.0

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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Residual Solvents

None of the Class 1 solvents is likely to be present at the specified limits. Cyclohexane is the only Class 2 solvent likely to be present, below the Option 1 limit of 3880 PPM. 1-butanol, 2-butanol, 1-pentanol, 1-propanol, acetone, ethanol, and 2-methyl-1-propanol are Class 3 solvents that might be present at less than 0.5%. 2-propanol itself is a class 3 solvent. None of the Class 4 residual solvents are likely to be present.

A handwritten signature in blue ink that reads "Kalyan Paruchuri".

Kalyan Paruchuri - Quality Control Supervisor - Bridgewater

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