

## 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	H306	Quality Test / Release Date	09/16/2022
Lot Number	221666		
Description	HEXANE 95%, OPTIMA		
Country of Origin	South Korea	Suggested Retest Date	Sep/2027
Chemical Origin	Organic - non animal		
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.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ASSAY (N-HEXANE)	%	>= 95	99.1
ASSAY (SUM C6 HYDROCARBONS)	%	>= 99.0	>99.99
COLOR	APHA	<= 5	<5
DENSITY AT 25 DEGREES C	GM/ML	Inclusive Between 0.653 - 0.673	0.655
EVAPORATION RESIDUE	ppm	<= 1	<0.5
FLUORESCENCE BACKGROUND	ppb	<= 1	0.05
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OPTICAL ABS AT 195 NM	ABSORBANCE UNITS	<= 1.00	0.6224
OPTICAL ABS AT 210 NM	ABSORBANCE UNITS	<= 0.25	0.1426
OPTICAL ABS AT 220 NM	ABSORBANCE UNITS	<= 0.07	0.0487
OPTICAL ABS AT 254 NM	ABSORBANCE UNITS	<= 0.005	0.0037
OPTICAL ABS AT 280 NM	ABSORBANCE UNITS	<= 0.005	0.0007
REFRACTIVE INDEX @ 25 DEG C		Inclusive Between 1.3710 - 1.3750	1.3723
SUITABILITY FOR GC/MS	PASS/FAIL	= PASS TEST	PASS TEST
SULFUR COMPOUNDS	%	<= 0.005	<0.005
THIOPHENE	PASS/FAIL	= PASS TEST	PASS TEST
WATER (H2O)	%	<= 0.01	0.002
WATER-SOLUBLE TITRABLE ACID	MEQ/G	<= 0.0003	0.00004



Ira Marootian - Quality Control Manager - Bridgewater

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.