

## 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	O301
Lot Number	254526
Description	ISO-OCTANE (2,2,4-TRIMETHYLPENTANE) - OPTIMA
CAS Number	540-84-1
Quality Test/Release Date	24/Nov/2025
Suggested retest date	23/Nov/2030
Country of Origin	Germany
Declaration of Origin	Organic - non animal
BSE/TSE	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.

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid free of suspended matter
ASSAY	%	>= 99	99.93
COLOR	APHA	<= 10	5
DENSITY AT 25 DEGREES C	GM/ML	<= 0.690	0.683
EVAPORATION RESIDUE	ppm	<= 1	0.5
FLUORESCENCE BACKGROUND	ppb	<= 1	<1
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
OPTICAL ABS AT 205 NM	ABSORBANCE UNITS	<= 1.0	0.28
OPTICAL ABS AT 225 NM	ABSORBANCE UNITS	<= 0.1	0.03
OPTICAL ABS AT 254 NM	ABSORBANCE UNITS	<= 0.01	0.007
PESTICIDE RESIDUE ANALYSIS	NG/L	<= 10	<1
REFRACTIVE INDEX @ 25 DEG C		Inclusive Between 1.3885 - 1.3905	1.3890
SULFUR COMPOUNDS	%	<= 0.005	<0.003
WATER (H2O)	%	<= 0.01	0.009
WATER-SOLUBLE TITRABLE ACID	MEQ/G	<= 0.0003	0.00007



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.

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.