

## 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	E120
Lot Number	257389
Description	PETROLEUM ETHER - OPTIMA
CAS Number	8032-32-4
Quality Test/Release Date	06/Feb/2026
Suggested retest date	05/Feb/2031
Country of Origin	United States

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, colorless liquid
ACIDITY	PASS/FAIL	IN PASS TEST	PASS TEST
BOILING TEMP (BEGINNING)	DEGREES CELSIUS	>= 35	38
BOILING TEMP (ENDPOINT)	DEGREES CELSIUS	<= 60	52
COLOR	APHA	<= 5	5
EVAPORATION RESIDUE	ppm	<= 1	0.7
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
PESTICIDE RESIDUE ANALYSIS	NG/L	<= 10	<1
REFRACTIVE INDEX @ 25 DEG C		Inclusive Between 1.3560 - 1.3660	1.3643
WATER (H2O)	%	<= 0.01	0.004



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.