Fisher Scientific L.L.C. US
755 US Highway
Route 202, Bridgewater,
NJ 08807, United States of America

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	P355
Lot Number	260890
Description	PROPYLENE GLYCOL, USP/FCC
CAS Number	57-55-6
Quality Test/Release Date	21/Aug/2026
Expiration Date	09/Jan/2028
Country of Origin	United States
Declaration of Origin	Organic - synthetic
BSE/TSE	No animal or plant products are used as starting raw material ingredients. The raw materials are derived from synthetic hydrocarbons and water from condensed steam. The chemical reaction takes place at high temperature and pressure, in a closed process, using dedicated equipment, without the use of additives or process aids. Therefore, this product should have no issue with BSE or TSE.

Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear, Colorless Viscous Liquid
FCC Grade - ACIDITY	PASS/FAIL	= PASS TEST	PASS TEST
FCC Grade - ASSAY	%	>= 99.5	99.9
FCC Grade - DISTILLATION RANGE - FINISH	DEGREES CELSIUS	Inclusive Between 185 - 189	188
FCC Grade - DISTILLATION RANGE - START	DEGREES CELSIUS	Inclusive Between 185 - 189	186
FCC Grade - DISTILLATION RANGE-ENTIRE	DEGREES CELSIUS	<= 4	2
FCC Grade - IDENTIFICATION (ALL LISTED)	PASS/FAIL	= PASS TEST	PASS TEST
FCC Grade - IGNITION RESIDUE	%	<= 0.007	0.002
FCC Grade - SPECIFIC GRAVITY @ 25 C		Inclusive Between 1.035 - 1.037	1.036
FCC Grade - WATER	%	<= 0.2	0.1
N/A - LEAD (Pb) BY ICP OES	MG/KG	<= 1	<1
USP Grade - ACIDITY	PASS/FAIL	= PASS TEST	PASS TEST
USP Grade - ASSAY	%	>= 99.5	99.9
USP Grade - CHLORIDE	ppm	<= 70	70
USP Grade - IDENTIFICATION (ALL LISTED)	PASS/FAIL	= PASS TEST	PASS TEST
USP Grade - IGNITION RESIDUE	MG	<= 3.5	1.5
USP Grade - RESIDUAL SOLVENTS	Meets Requirements	= MEETS REQUIREMENTS	MEETS REQUIREMENTS
USP Grade - SPECIFIC GRAVITY @ 25 C		Inclusive Between 1.035 - 1.037	1.036
USP Grade - SULFATE (SO4)	ppm	<= 60	60
USP Grade - WATER	%	<= 0.2	0.1

Additional Information Propylene Glycol does not contain, nor has it been manufactured at any stage with, heavy metals, melamine, latex, or genetically modified organisms, and is believed to be free of known allergy-stimulating substances.

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.

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Liam Higgins
Senior Manager, Quality

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.

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