

Certificate of Analysis

Product: Propylene Glycol 99.5%
Item Number: PGF
Grade: USP/NF/FCC
Lot Number: 5000966/1.1
Manufacture Date: 10/20/2024
Expiration Date: 10/19/2026
Country of Origin: United States

Tested Property	Specification	Analysis
Visual	Clear/Clean free of suspended particles	Passes
Odor	To Pass Test	Passes
Color, Pt-Co	Max 10	2
Specific Gravity @ 25°C	1.035 - 1.037	1.035
Refractive Index	1.4310 - 1.4330	1.4330
Identification A, IR	Identified as Propylene Glycol	Passes
Identification B, Limit of DEG	Max 0.10%	<0.10
Identification B, Limit of EG	Max 0.10%	<0.10
Identification C, GC	Retention is equal for Sample Standard	Passes
Acidity as Acetic Acid	Max 0.0020, wt%	0.0008
Chlorides	Max 0.5 ppm	<0.5
Heavy Metals as Pb	Max 5, wt ppm	<1
Iron	Max 0.5, wt ppm	0.01
Suspended Matter	To Pass Test	Passes
Residual Solvents	To Pass Test	Passes
Assay as PG, dry basis	Min 99.90, wt%	99.95
Diethylene Glycol	Max 0.008, wt%	<0.001
Ethylene Glycol	Max 0.008, wt%	<0.001
Arsenic as As	Max 1, wt ppm	<1
Sulfate	Max 0.006, wt%	<0.006

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Residue on Ignition	Max 0.005, wt%	0.001
Reducing Substances	To Pass Test	Passes
CONEG Metals	To Pass Test	Passes
Distillation IBP @ 760 mmHg	Min 186.0°C	186.0°C
Distillation DP @ 760 mmHg	Max 189.0°C	188.5°C
IR Spectrum	To Pass Test	Passes
Oxidizing Substances	Max 0.2, mL Na ₂ S ₂ O ₃	0.0
Refractive Index @ 20°C	1.4310 - 1.4330	1.4328
Solubility @ 25°C	To Pass Test	Passes
Specific Gravity @ 20/20°C	1.0377 - 1.0389	1.0387
Specific Gravity @ 25/25°C	1.0352 - 1.0364	1.0358
Acidity	Max 0.03, mL 0.1N NaOH/10 mL	0.01
Water	Max 0.200, wt%	0.005
PG Retention Time, ID Test C	To Pass Test	Passes
Appearance	To Pass Test	Passes

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