LAB ALLEY
ESSENTIAL CHEMICALS

Certificate of Analysis

Product: Propylene Glycol 99.5%
Item Number: PGF
Grade: USP/NF/FCC
Lot Number: 5000938/1.1
Manufacture Date: 10/10/2024
Expiration Date: 10/09/2026
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
Water Content	Max 0.2%	0.0
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%	0.0005
Chlorides	Max 0.5 ppm	<0.5
Heavy Metals as Pb	Max 5, wt ppm	<1
Iron	Max 0.5, wt ppm	0.15
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

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Sulfate	Max 0.006, wt%	<0.006
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 Na2S2O3	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

Propylene Glycol 99.5%

Note: The information and recommendations of Lab Alley concerning this product are based upon laboratory tests and experience. To the best of our knowledge and belief these are true and accurate, however Lab Alley assumes no obligation or liability for the information in this document. Since conditions of actual use are beyond our control, any recommendations or suggestions regarding merchantability and fitness for particular purposes are made without warranty, expressed or implied.

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