

### 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 @ 25Â°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

Phone: 512-668-9918, Fax: 512-886-4008,  
 E-mail: [Customerservice@laballey.com](mailto:Customerservice@laballey.com),  
[www.laballey.com](http://www.laballey.com),

12501 Pauls Valley Road, Suite A, Austin, Texas 78737.

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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 186.0Å°C	186.0Å°C
Distillation DP @ 760 mmHg	Max 189.0Å°C	188.5Å°C
IR Spectrum	To Pass Test	Passes
Oxidizing Substances	Max 0.2, mL Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	0.0
Refractive Index @ 20Å°C	1.4310 - 1.4330	1.4328
Solubility @ 25Å°C	To Pass Test	Passes
Specific Gravity @ 20/20Å°C	1.0377 - 1.0389	1.0387
Specific Gravity @ 25/25Å°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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