

### Certificate of Analysis

**Product: Propylene Glycol 99.5%**  
**Item Number: PGF**  
**Grade: USP/NF/FCC**  
**Lot Number: 5000479/1.1**  
**Manufacture Date: 12/26/2023**  
**Expiration Date: 12/25/2025**  
**Country of Origin: United States**

Tested Property	Specification	Analysis
Visual	Clear/Clean free of suspended particles	Passes
Odor	Odorless	Odorless
Color	Colorless	Passes
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, by IR	Identified as Propylene Glycol	Passes
Identification B, Limit % DEG	Max. 0.1	<0.10
Identification B, Limit % EG	Max. 0.1	<0.10
Identification C	Retention is equal for sample standard	Passes
Acidity as acetic acid, weight %	Max. 0.002	0.0007
Chlorides, ppm	Max. 0.5	<0.5
Color, Pt-Co, APHA	Max. 10	5
Heavy metals as Pb, weight ppm	Max. 5	<1
Iron, weight ppm	Max. 0.5	0.01
Suspended Matter	To pass test	Passes
Residual Solvents	To pass test	Passes
Assay as PG, dry basis, %	Min. 99.90	99.95
Diethylene glycol, wt%	Max. 0.008	<0.001
Ethylene glycol, wt%	Max. 0.008	<0.001

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Arsenic, weight ppm	Max 1	<1
Sulfate, wt%	Max 0.006	<0.006
Residue on ignition, wt%	Max 0.005	0.001
Reducing substances	To pass the test	Pass

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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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