

### Certificate of Analysis

**Product: Propylene Glycol 99.5%**  
**Item Number: PGF**  
**Grade: USP/NF/FCC**  
**Lot Number: 5000894/1.1**  
**Manufacture Date: 09/08/2024**  
**Expiration Date: 09/07/2026**  
**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 @ 25Â°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                              | 0.0004   |
| Chlorides, ppm                   | Max. 0.5                                | <0.5     |
| Color, Pt-Co, APHA               | Max. 10                                 | 2        |
| 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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