

Certificate of Analysis

Product: Propylene Glycol 99.5%
Item Number: PGF
Grade: USP/NF/FCC
Lot Number: 0002831990
Manufacture Date: 05/06/2022
Expiration Date: 12/31/2024
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 | 0.012 |
| Specific Gravity @ 25°C | 1.035 - 1.037 | 1.0356 |
| Refractive Index | 1.4310 - 1.4330 | 1.4313 |
| Identification A, by IR | Identified as Propylene Glycol | Passes |
| Identification B, Limit % DEG | Max. 0.1 | Passes |
| Identification B, Limit % EG | Max. 0.1 | Passes |
| Identification C | Retention is equal for sample standard | Passes |
| Acidity as acetic acid, weight % | Max. 0.002 | 0.0006 |
| Appearance | To pass test | Passes |
| PG retention time, ID test C | To pass test | Passes |
| 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 | 99.97 |

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