

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 @ 25Å,Å°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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