

CERTIFICATE OF ANALYSIS

Product Name: Propylene Glycol USP Kosher

Code #: 50-6105-21

Lot #: Y02814U

MFG. Date: 4/27/16

Expiration Date: 4/27/18

| ITEMS | SPECIFICATION | RESULTS |
|--------------------------|---------------|---------|
| Identification | Min. Pass | Pass |
| Appearance | Min. Clear | Clear |
| MPG, wt% | Min. 99.8 | 99.96 |
| Sp, Gr, 20/20°C | 1.037-1.039 | 1.038 |
| Sp, Gr, (USP), 25/25° | C1.035-1.038 | 1.036 |
| Chloride, ppm | Max. 1 | 0.1 |
| Sulfate, ppm | Max. 10 | 0 |
| Acidity, ml | Max. 0.1 | 0.02 |
| Fe, ppm | Max. 0.1 | 0.03 |
| Heavy Metal as Pb, ppm | Max. 5.0 | LT1.0 |
| Residue on Ignition, ppm | Max. 20 | 5.0 |
| Water, ppm | Max. 700 | 100 |
| Color, APHA | Max. 10 | 2 |
| I.B.P °C | Min. 186 | 186.2 |
| D.P°C | Max. 189 | 187.4 |
| As, ppm | Max. 1 | LT0.1 |
| EG, ppm | Max. 50 | 0 |
| DEG, ppm | Max. 50 | 0 |



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