

Certificate of Analysis

Date of Testing: 2024-12-05 19:08:43

Date of Next Testing: 2028-12-04 19:08:43

Product Name: **Glycerol**

CAS Number: 56-81-5

Specifications & Purity: PharmPure™, USP, JP, BP, Ph.Eur.

Lot #: L2405617

SKU #: **G116214**

Version: **2**

Analysis #: **442710**

Parameter	Limit Values	Result
Purity C ₃ H ₈ O ₃ (anhydrous basis)	99-101 (%)	100.25 %
Refractive index n ₂₀ /D	1.47-1.475	1.47
Density (20°C)	1.26-1.264	1.26
Ignition Residue	0-0.01 (%)	0.00 %
Heavy metals	0-5 (ppm)	0.00 ppm
Chloride Content	0-0.001 (%)	0.00 %
Total impurities	0-1 (%)	0.00 %
Fatty Acid Esters(Volume of 0.5N NaOH)	0-1 (ml)	0.00 ml
Water by Karl Fischer	0-5 (%)	0.65 %
Sulfate(SO ₄ ²⁻)	0-0.002 (%)	0.00 %
Diethylene glycol	< 0.1 (%)	0.09000 %
Ethylene Glycol	< 0.1 (%)	0.09 %
Appearance (G116214)	colorless viscous liquid	colorless viscous liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager