

Certificate of Analysis

Date of Testing: 2023-03-13 20:46:16

Date of Next Testing: 2027-03-12 20:46:16

Product Name: **Glycerol**

CAS Number: 56-81-5

Specifications & Purity: $\geq 99.5\%$ (GC)

Lot #: C23081355

SKU #: **G116205****Analysis: 192293**

Parameter	Limit Values	Result
Fatty acids & esters (ml 0.1N NaOH/25g)	0-0.2	0.15
Color scale	0-5	5.00
Water by Karl Fischer	0-0.5 (%)	0.11 %
halogen compounds (as Cl)	0-5 (ppm)	1.63 ppm
Heavy metal (as Pb)	0-1 (ppm)	0.51 ppm
Ash	0-0.01 (%)	0.00 %
Esters	≥ 8 (ml)	8.40 ml
Refractive index n ₂₀ /D	1.47-1.475	1.47
Density (20°C)	1.26-1.265	1.26
Purity(GC)	99.5-100%	99.83%
Sugars ₂	Negative	Negative
Appearance(G116205)	Colorless Viscous Liquid	colorless viscous liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure

John Su
QA & QC Manager