

## Certificate of Analysis

Date of Testing: 2022-04-15 08:30:00

Date of Next Testing: 2026-04-14 08:30:00

Product Name: **Glycerol**

CAS Number: 56-81-5

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

Lot #: D2213025

SKU #: **G116205****Analysis: 087063**

Parameter	Limit Values	Result
Fatty acids & esters (ml 0.1N NaOH/25g)	0-0.2	0.12
Color scale	0-5	2.30
Water by Karl Fischer	0-0.3 (%)	0.13%
halogen compounds (as Cl)	0-5 (ppm)	1.90 ppm
Heavy metal (as Pb)	0-1 (ppm)	0.23 ppm
Ash	0-0.01 (%)	0.00%
Esters	$\geq 8$ (ml)	8.00 ml
Refractive index n <sub>20</sub> /D	1.47-1.475	1.47
Density (20°C)	1.26-1.265	1.26
Purity(GC)	99.5-100%	99.57%
Sugars <sub>2</sub>	Negative	Negative

John Su  
QA & QC Manager