

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-01-18 10:59:41

Date of Next Testing: 2028-01-17 10:59:41

Product Name: **Glycerol**

CAS Number: 56-81-5

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

Lot #: A2409311

SKU #: **G116205****Analysis: 309484**

| Parameter | Limit Values | Result |
|---|--------------------------|--------------------------|
| Fatty acids & esters (ml 0.1N NaOH/25g) | 0-0.2 | 0.03 |
| Color scale | 0-5 | 5.00 |
| Water by Karl Fischer | 0-0.5 (%) | 0.05 % |
| halogen compounds (as Cl) | 0-5 (ppm) | 0.36 ppm |
| Heavy metal (as Pb) | 0-1 (ppm) | 0.05 ppm |
| Ash | 0-0.01 (%) | 0.00 % |
| Esters | ≥ 8 (ml) | 8.04 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 (%) | 99.53 % |
| 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