

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-12-05 10:54:30  
Date of Next Testing: 2027-12-04 10:54:30  
Product Name: **Glycerol**  
CAS Number: 56-81-5  
Specifications & Purity: EP,BP,JP,USP grade  
Lot #: K2329432  
SKU #: **G116214**  
Analysis: **298270**

Parameter	Limit Values	Result
Purity C <sub>3</sub> H <sub>8</sub> O <sub>3</sub> (anhydrous basis)	99-101 (%)	100.70 %
Refractive index n <sub>20</sub> /D	1.47-1.475	1.47
Density (20°C)	1.26-1.264	1.26
Ignition Residue	0-0.01 (%)	0.01 %
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 (%)	0.39 %
Chloride (Cl <sup>-</sup> )	0-0.003 (%)	0.00 %
Sulfate(SO <sub>4</sub> <sup>2-</sup> )	0-0.002 (%)	0.00 %
Appearance (G116214)	colorless viscous liquid	colorless viscous liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager