



CERTIFICATE OF ANALYSIS

Product	Glycerol
Grade	USP
Product Code	GB0232
Formula	C ₃ H ₈ O ₃
MW	92.09
CAS#	56-81-5
Lot No.	
Re-Assay Date	

Test Items	Specifications	Result
Assay	99.00 – 101.00%	
Water Content	≤ 0.3%	
Specific gravity at 25°C (USP-NF 2023)	≥ 1.249	
Colour	Pass	
Residue on ignition	≤ 0.01%	
Chlorides	≤ 10 ppm	
Sulfates	≤ 20 ppm	
Heavy metals (as Pb)	≤ 5 ppm	
Limit of chlorinated compounds	≤ 30 ppm	
Fatty acids & ester (as mL of 0.5 N NaOH consumed)	≤ 1.00 mL	
Identification A (Infrared spectroscopy)	Pass	
Diethylene glycol	≤ 0.1%	
Ethylene glycol	≤ 0.1%	
Identification C (Retention time of glycerin's peak)	Meet test requirement	
Individual impurities (excluding any solvent peak and diethylene glycol)	≤ 0.1%	
Total impurities	≤ 1.0%	
Colour (APHA)	≤ 10 APHA	
Appearance	Clear, colourless	
Lead (Pb)	≤ 1 ppm	
Readily carbonizable substances	Pass	
Specific gravity at 25°C (FCC 13)	≥ 1.259	



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Storage: 18~25°C

This Signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.

Signature: *Nancy G.*

Title: Quality Manager

Date: February 4, 2026