

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-12-25 13:14:57

Date of Next Testing: 2029-12-24 13:14:57

Product Name: **Glycerol**

CAS Number: 56-81-5

Specifications & Purity: PharmPure™, USP, JP, BP, Ph.Eur.

Lot #: GML2522126

SKU #: **G774622**

Version: **1**

Analysis #: **630535**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Assay(Anhydrous Basis)	99-101 (%)	99.37000 %
Refractive index n ₂₀ /D	1.47-1.475	1.47400
Aldehydes	0-10 (ppm)	0.07400 ppm
Impurity(diethylene glycol)	≤0.1 (%)	0.00000 %
Related substances(any other impurity)	≤0.1 (%)	0.10000 %
Related substances(total of all impurities)	≤0.5 (%)	0.46000 %
Halogenated compounds	≤35 (ppm)	0.00000 ppm
Water by Karl Fischer	0-2 (%)	0.05190 %
Residue on ignition(Ash)	0-0.01 (%)	0.00009 %
Chloride (Cl ⁻)	0-0.001 (%)	0.00000 %
Sulfate(SO ₄)	0-0.002 (%)	0.00000 %
Specific gravity 25 °C	≥ 1.249	1.26200
Heavy metals	0-2 (ppm)	0.00800 ppm
Iron(Fe)	0-0.001 (%)	0.00000 %
Arsenic(As)	0-0.3 (ppm)	0.00800 ppm
Appearance(G774622)	clear, colourless or almost colourless, very hygroscopic, syrupy liquid	clear, colourless or almost colourless, very hygroscopic, syrupy liquid
Solubility: miscible with water and with ethanol (96 per cent), slightly soluble in acetone, practically insoluble in fatty oils and in essential oils	Pass	Pass
Identity(Refractive index)	Pass	Pass
Identity (IR)	passes test	Passes test
Identity(Relative density)	Pass	Pass
Identity Test B (USP)	Pass	Pass

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Parameter	Limit Values	Result
Identity Test C (USP)	Pass	Pass
Appearance of solution	Passes test	Passes test
Acidity or alkalinity	passes test	Passes test
Fatty acids and esters	Pass	Pass
sugar	pass	Pass
Acrolein and ammonium salts	Pass	Pass
Calcium(Ca)	Pass	Pass
Readily carbonizable substance	pass	Pass

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager