

**Qualikems**

Qualikems Lifesciences Pvt. Ltd.

(Formerly known as Qualikems fine chem Pvt Ltd)

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CERTIFICATE OF ANALYSIS

Name of Product	:	Glycerine	CAS No.	:	56-81-5
Molecular Formula	:	C ₃ H ₈ O ₃	Molecular Weight	:	92.09 g/mol
Batch No.	:	QF2502139	Grade	:	LR
Mfg. Date	:	February-2025	Retest Date	:	January-2030

Sr. No.	Tests	Specification	Observation
1	Appearance	Clear and colorless Viscous liquid	Complies
2	Minimum assay	98 %	98.61%
	Maximum Limits of Impurities:		
3	Impurities with an acidic or alkaline reaction, ester	Passes Test	Passes
4	Refractive index	1.470 – 1.475	1.473
5	d ₂₀ /4°	1.256 -1.261	1.258
6	Sulphate(SO ₄)	0.001 %	<0.001 %
7	Heavy metals(as Pb)	0.0005 %	0.0003 %
8	Chloride(Cl)	0.001 %	<0.001 %
9	Arsenic(As)	0.0001 %	<0.0001 %
10	Acrolein, glucose and ammonium compounds	To Pass Test	Passes Test
11	1,2,4-Butanetriol(TLC)	0.2 %	0.1 %
12	Halogenated Compounds (as Cl)	0.003 %	0.001 %
13	Sulphated ash	0.01 %	0.006 %
14	Water	2 %	1.25 %
15	Substances decolorized by (H ₂ SO ₄)	To Pass Test	Passes Test
16	Sugar	To Pass Test	Passes Test

Conclusion: Product complies as per above specification.

Note: This document has been produced electronically and it is valid without signature.

Quality of our product tested and reported in the COA as per the specification and without any prejudice/liability what so ever the end product performance.

(An ISO 9001 : 2015 & 14001 : 2015 & 45001:2018 Certified Company)

NSIC - CRISIL SE 2B which indicates " High Performance Capability & Moderate Financial Strength