

**Qualikems**

# Qualikems Lifesciences Pvt. Ltd.

(Formerly known as Qualikems fine chem Pvt Ltd)

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## CERTIFICATE OF ANALYSIS

<b>Name of Product</b>	:	Triethanolamine	<b>CAS No.</b>	:	102-71-6
<b>Molecular Formula</b>	:	C <sub>6</sub> H <sub>15</sub> NO <sub>3</sub>	<b>Molecular Weight</b>	:	149.19 g/mole
<b>Batch No.</b>	:	QF2507077	<b>Grade</b>	:	LR
<b>Mfg. Date</b>	:	July-2025	<b>Retest Date</b>	:	June-2030

Sr. No.	Tests	Specification	Observation
1	Appearance	A clear colorless to pale yellow viscous liquid	Complies
2	Minimum	98.0 %	98.74 %
	<b>Maximum limits of impurities:#</b>		
3	pH-(15% solution)	10-13	12.2
4	d 20°/4°	1.120-1.127	1.124
5	Refractive index	1.483-1.486	1.485
6	Chloride(Cl)	0.01 %	<0.01 %
7	Sulphate (SO <sub>4</sub> )	0.01 %	<0.01 %
8	Heavy metals(as Pb)	0.002%	0.001 %
9	Sulphated ash	0.05 %	0.03 %
10	Iron(Fe)	0.001%	<0.001 %
11	Water	0.5 %	0.4 %

**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 are 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\*