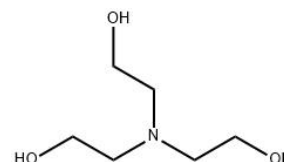


Technical Data Sheet

Triethanolamine

Compound Information

Product Name:	Triethanolamine
CAS No.:	102-71-6
Molecular Formula:	C ₆ H ₁₅ NO ₃
Molecular Weight:	149.19
Revision Date:	2026-04-16



Analytical Information

Tests	Specifications
Grade	USP-NF/Ph.Eur
Solubility	H ₂ O: 1 M, clear, colorless
Identification (By chemical test)	The blue color should remain unchanged.
Identification (By Chemical test)	A carmine red color is produced.
Identification (By Refractive index)	1.482-1.485
Identification (By Relative density)	1.120-1.130
Identification (By Chromatography)	The principal peak in the chromatogram obtained with the test solution is similar in retention time and size to the principal peak in the chromatogram obtained with reference solution(a).
Specific gravity, 25°C	1.120 - 1.128
Related substances Impurity A (Ethanolamine)	NMT 0.1%
Related substances Impurity B (Diethanolamine)	NMT 0.5%
Related substances Impurity C (N-nitrosodiethanolamine)	NMT 24ppb
Related substances Total impurity	NMT 1.0%
Water	NMT 0.5% w/w
Residue on ignition /Sulfated ash	NMT 0.05% w/w
MS	Pass test
¹H NMR	Pass test
¹³C NMR	Pass test
IR	Pass test
Raman	Pass test

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