

Certificate of Analysis

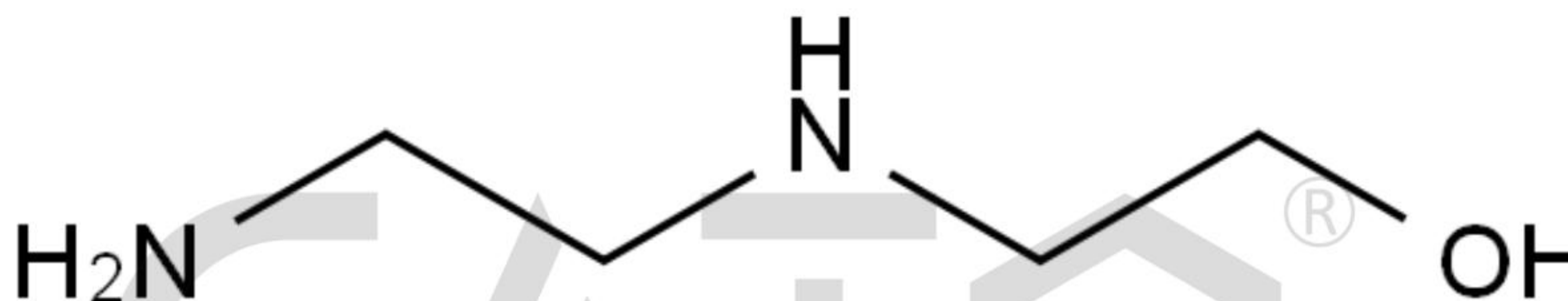
Reference Material & Standard

Product Name:	2-(2-Aminoethylamino)ethanol	Catalogue Number:	CCHM701461
Synonyms:	N/A	Lot Number:	0119-RH-0063
CAS Number:	111-41-1	Expiry Date:	Jan 18, 2030
Molecular Formula:	C ₄ H ₁₂ N ₂ O	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	104.15	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	LCMS&IR&UV&HNMR	Confirmed
Purity	ELSD	100.000%
Water Content	Karl Fischer	3.5613%
Assay		96.4%
Uncertainty		±0.4%

Comment:

1. The calculation of the mass balance method follows the formula (calculated on the non-dried basis):

Assay (%) = (100% - Water Content) * Purity ELSD (%) / 100%

Water Content is considered as absolute effect, ELSD purity is considered as relative effect.

2. The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

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Approved by General Manager:

David

Date: Jan 19, 2026

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