

Certificate of Analysis

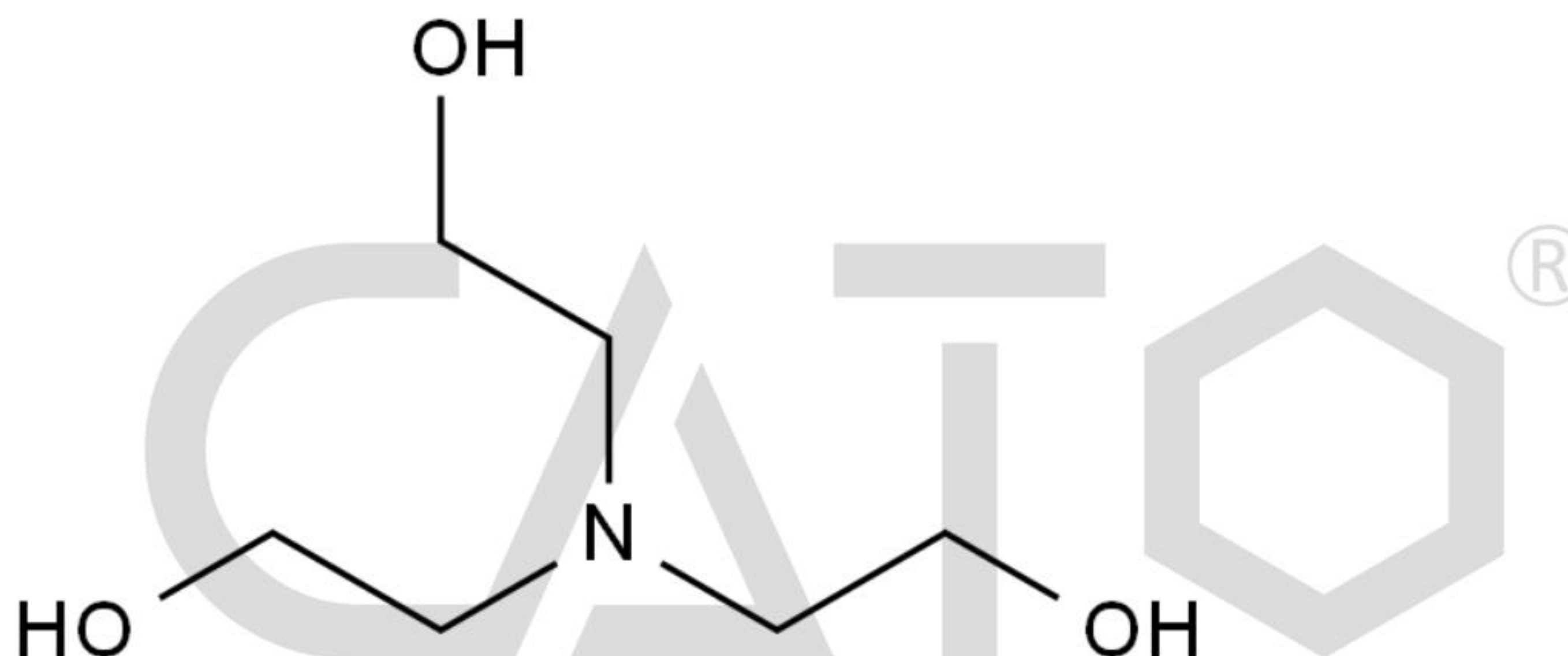
Reference Material & Standard

Product Name:	Triethanolamine	Catalogue Number:	CCEM500790
Synonyms:	N/A	Lot Number:	0802-RF-0075
CAS Number:	102-71-6	Expiry Date:	Aug 06, 2027
Molecular Formula:	C ₆ H ₁₅ NO ₃	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	149.19	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Sticky Liquid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	97.809%
Loss on Drying	TGA	6.5062%
Assay		91.4%
Uncertainty		±2.0%

Comment:

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

$$\text{Assay (\%)} = (100\% - \text{Loss on Drying}) * \text{Purity ELSD (\%)} / 100\%$$

Loss on Drying 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: Aug 07, 2024

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