

Certificate of Analysis

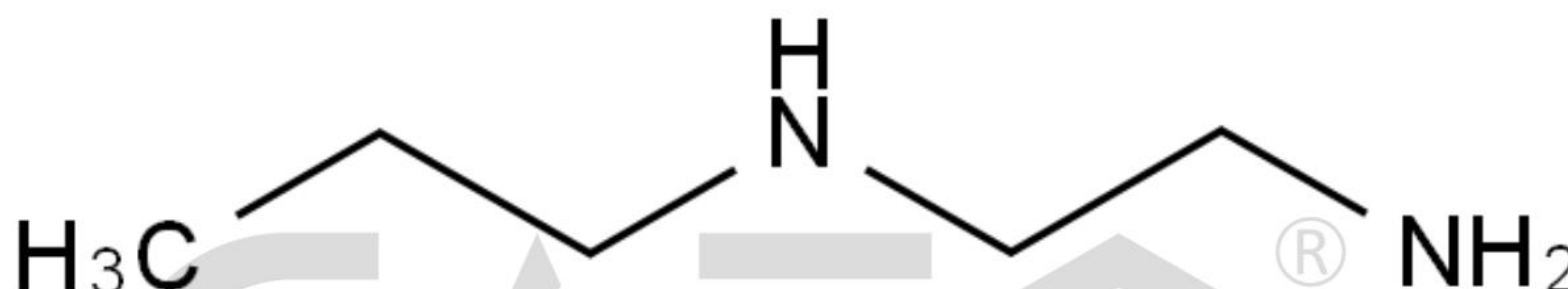
Reference Material & Standard

Product Name:	N-Propylethylenediamine	Catalogue Number:	CCHM703690
Synonyms:	N/A	Lot Number:	0516-RE-0075
CAS Number:	111-39-7	Expiry Date:	May 21, 2027
Molecular Formula:	C ₅ H ₁₄ N ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	102.18		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Colourless Liquid
Identification	LCMS&HNMR	Confirmed
Purity	ELSD	100.000%
Water Content	Karl Fischer	2.5062%
Assay		97.5%
Uncertainty		±2.0%

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: May 22, 2023

Date: May 22, 2023

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