

Certificate of Analysis

Reference Material & Standard

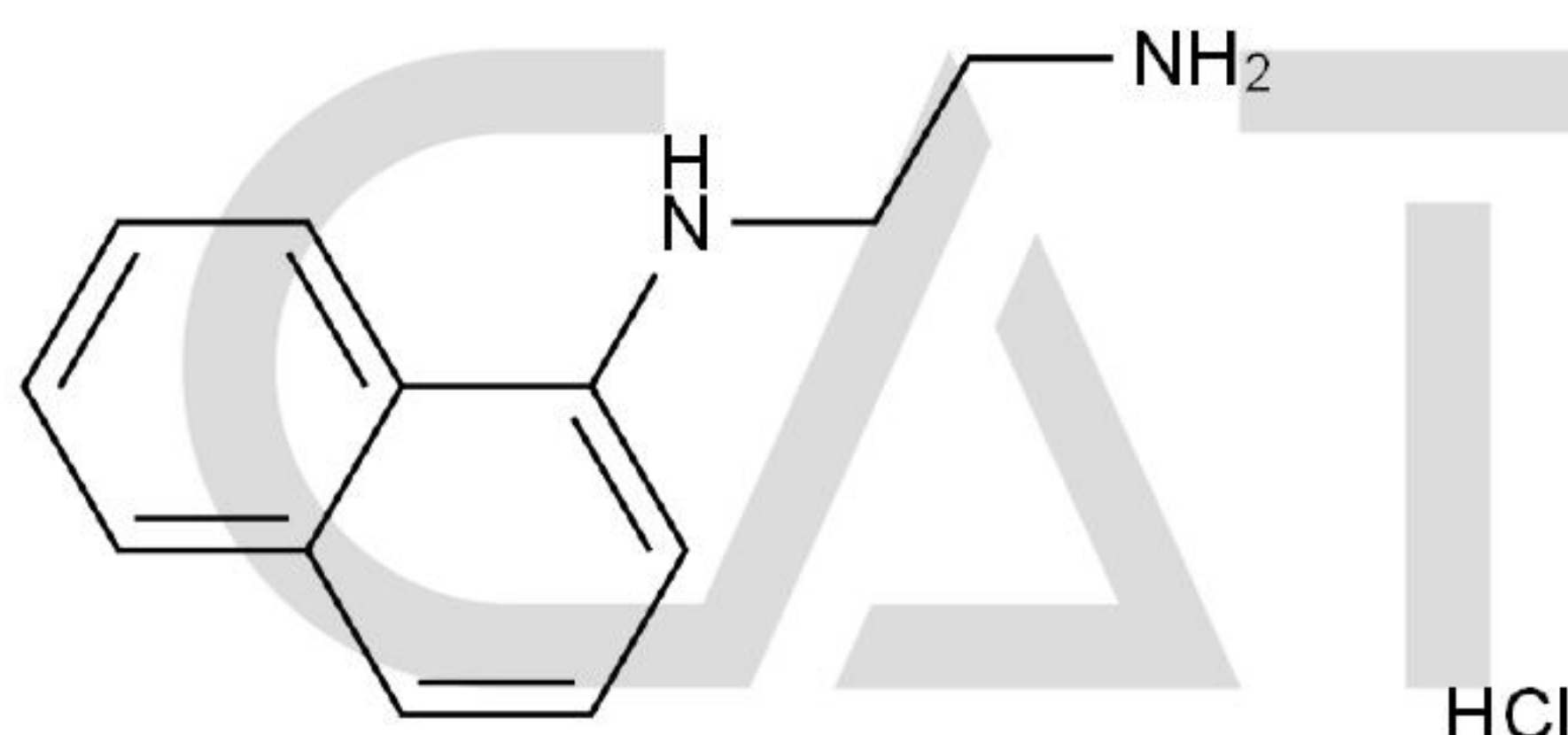
Product Name:	N-(1-Naphthyl)ethylenediamine Dihydrochloride	Catalogue Number:	CCHM701610
Synonyms:	N/A	Lot Number:	0321-RG-0061
CAS Number:	1465-25-4	Expiry Date:	Mar 20, 2029
Molecular Formula:	C ₁₂ H ₁₄ N ₂ 2*HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	186.25 2*36.46		

Warning:



HCl

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Yellow Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.516%
Loss On Drying	TGA	0.3315%
Assay		99.2%
Uncertainty		±2.0%

Comment:

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

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

Loss On Drying is considered as absolute effect, HPLC 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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Date: Mar 21, 2025

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