

Certificate of Analysis

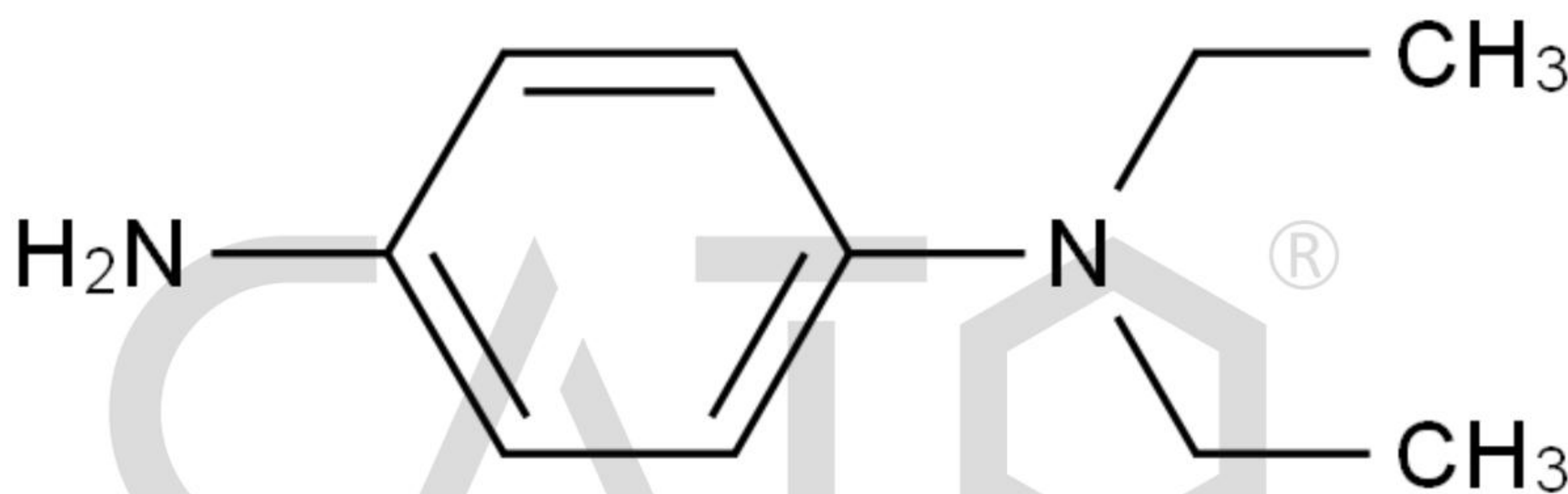
Reference Material & Standard

Product Name:	N,N-Diethyl-p-phenylenediamine	Catalogue Number:	CCHM703040
Synonyms:	N/A	Lot Number:	1121-RG-0103
CAS Number:	93-05-0	Expiry Date:	Nov 20, 2029
Molecular Formula:	C ₁₀ H ₁₆ N ₂	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	164.25	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Black Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	100.000%
Loss on Drying	TGA	2.5283%
Assay		97.5%
Uncertainty		±0.3%

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:

Prepared by:

Lisa

Reviewed by:

Hin Lam

Approved by General Manager:

David

Date: Nov 21, 2025

Date: Nov 24, 2025

Date: Nov 24, 2025



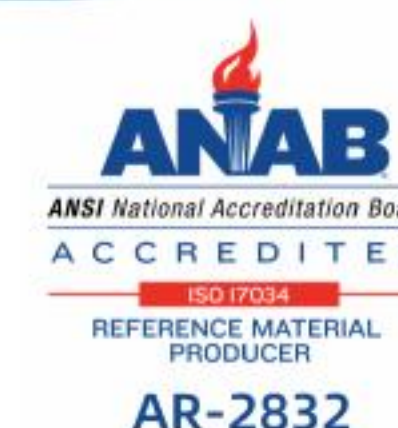
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