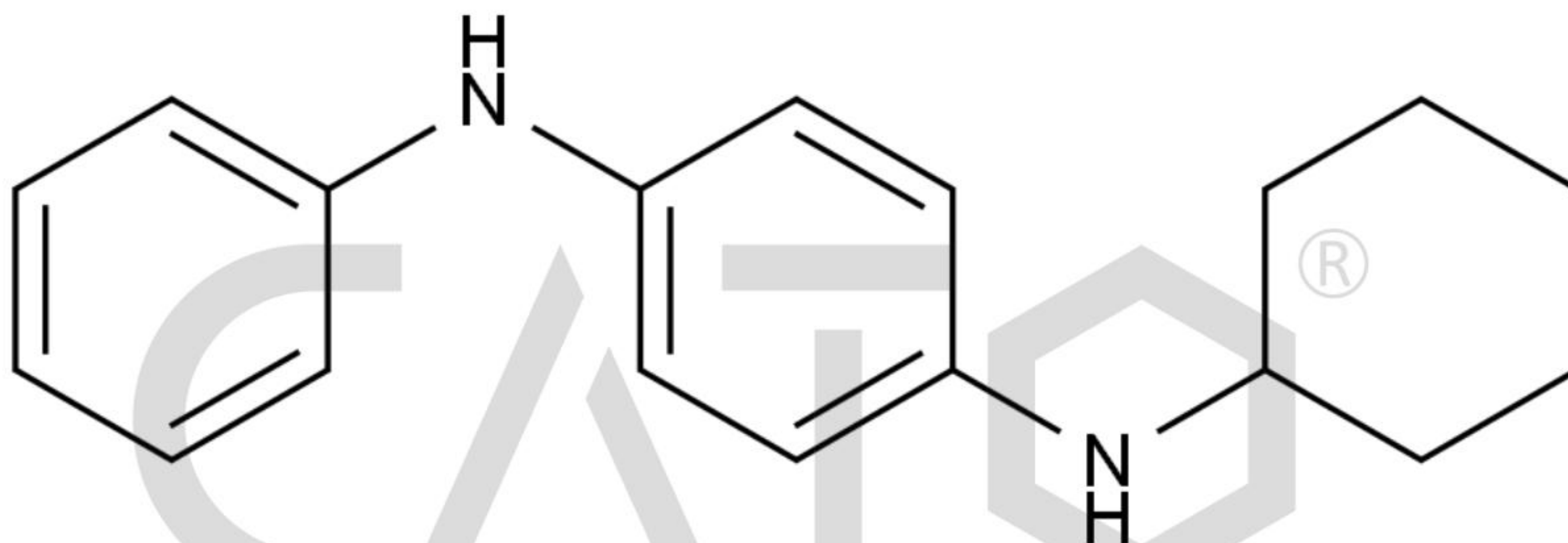


Certificate of Analysis

Reference Material & Standard

Product Name:	N-Phenyl-N'-cyclohexyl-p-phenylenediamine	Catalogue Number:	CCHM704338
Synonyms:	N/A	Lot Number:	0714-RG-0133
CAS Number:	101-87-1	Expiry Date:	Jul 16, 2029
Molecular Formula:	C18H22N2	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	266.38	Warning:	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Black Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	97.459%
Loss On Drying	TGA	0.6312%
Assay		96.8%
Uncertainty		±0.5%

Comment:

1. The calculation of the 100% method follows the formula (calculated on the non-dried basis):

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

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:

Nice

Reviewed by:

Lisa

Approved by General Manager:

David

Date: Jul 17, 2025

Date: Jul 17, 2025

Date: Jul 17, 2025

