

Certificate of Analysis

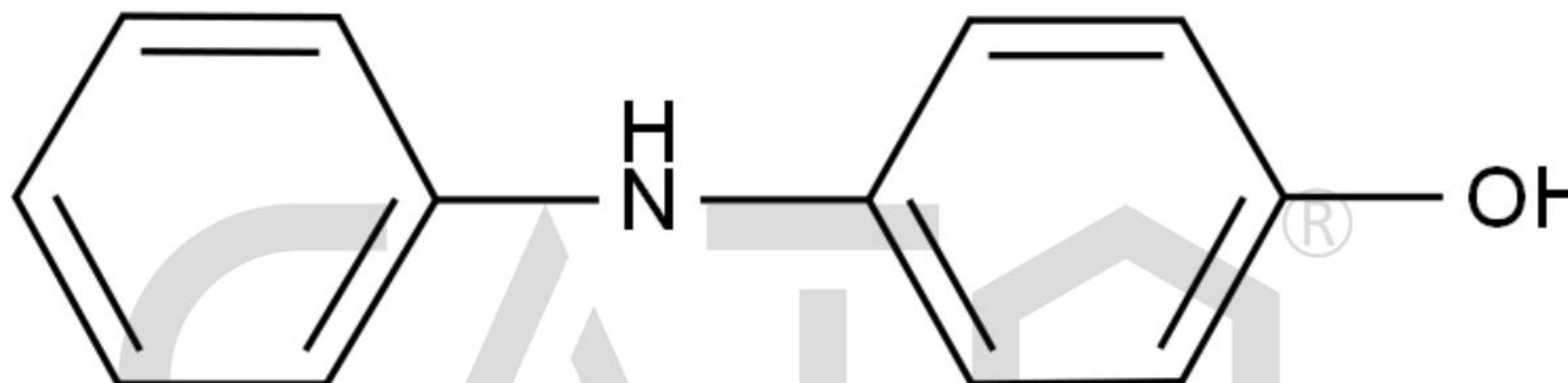
Reference Material & Standard

Product Name:	4-Hydroxydiphenylamine	Catalogue Number:	CCHM704156
Synonyms:	N/A	Lot Number:	1009-RG-0052
CAS Number:	122-37-2	Expiry Date:	Oct 12, 2029
Molecular Formula:	C ₁₂ H ₁₁ NO	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	185.22		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Dark Grey Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.436%
Water Content	Karl Fischer	6.0941%
Assay		93.4%
Uncertainty		±0.7%

Comment:

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

$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity HPLC (\%)} / 100\%$

Water Content 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: Oct 13, 2025

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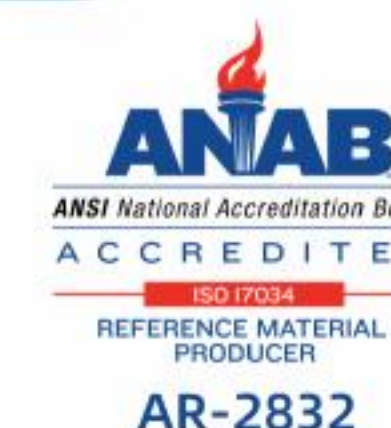
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