

Certificate of Analysis

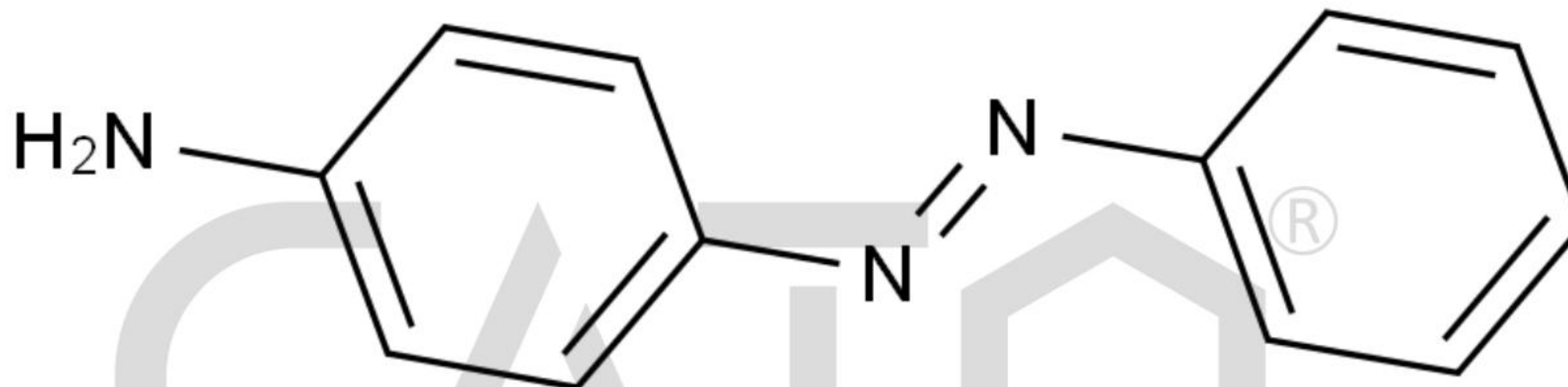
Reference Material & Standard

Product Name:	4-Aminoazobenzene	Catalogue Number:	CAZO111426
Synonyms:	N/A	Lot Number:	0519-RH-0079
CAS Number:	60-09-3	Expiry Date:	May 18, 2030
Molecular Formula:	C ₁₂ H ₁₁ N ₃	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	197.24	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Orange Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.662%
Water Content	Karl Fischer	0.2664%
Assay		99.4%
Uncertainty		±0.2%

Comment:

- 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.
- 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: May 19, 2026

Date: May 19, 2026

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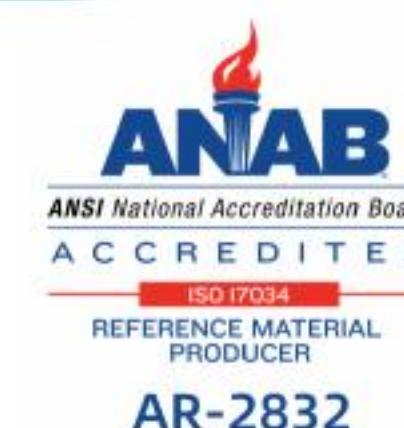
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Page 1 of 5



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