

Certificate of Analysis

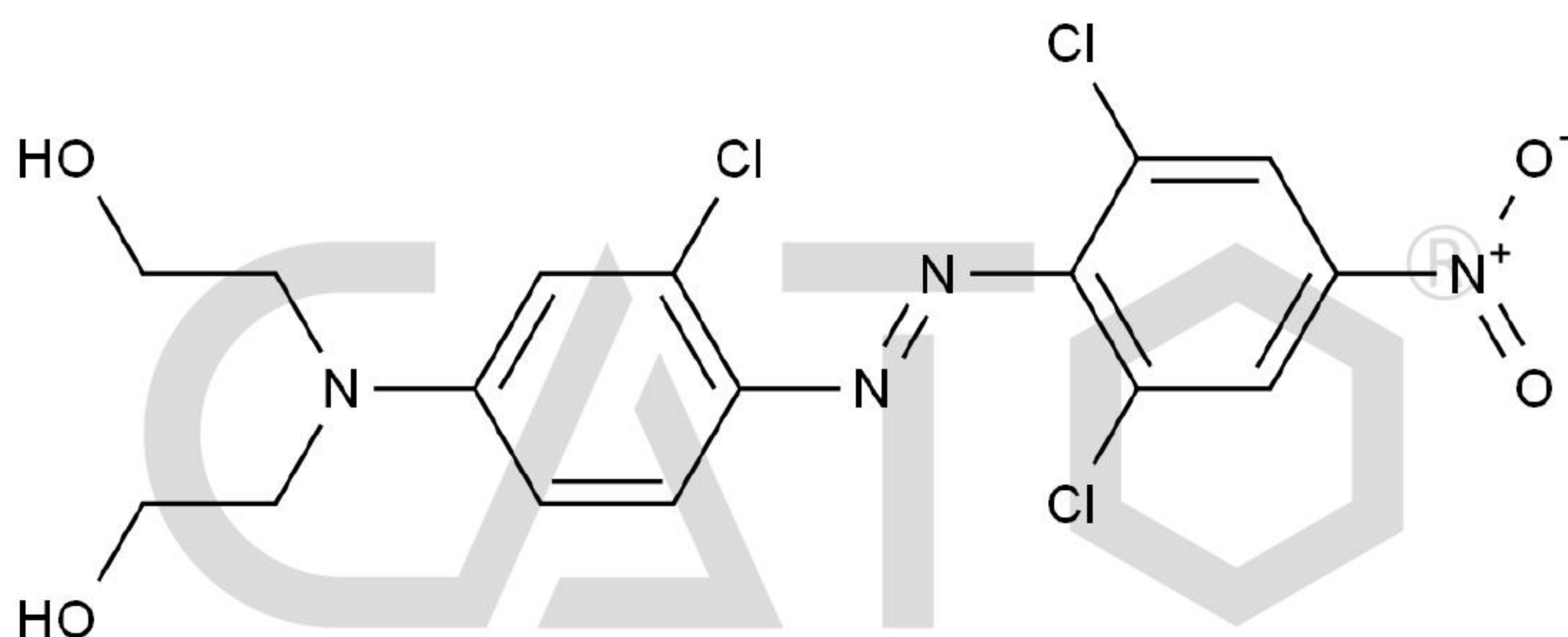
Reference Material & Standard

Product Name:	Disperse Brown 1	Catalogue Number:	CWLT600620
Synonyms:	N/A	Lot Number:	0801-RF-0055
CAS Number:	23355-64-8	Expiry Date:	Dec 11, 2029
Molecular Formula:	C ₁₆ H ₁₅ Cl ₃ N ₄ O ₄	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	433.67		

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Dark Brown to Black Crystalline Solid
Purity	UPLC	99.18%
Loss On Drying	TGA	0.0942%
Assay		99.1%
Uncertainty		±0.3%

Comment:

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

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

Loss On Drying is considered as absolute effect, UPLC 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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Reviewed by:

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Approved by General Manager:

David

Date: Sep 19, 2025

Date: Sep 22, 2025

Date: Sep 22, 2025



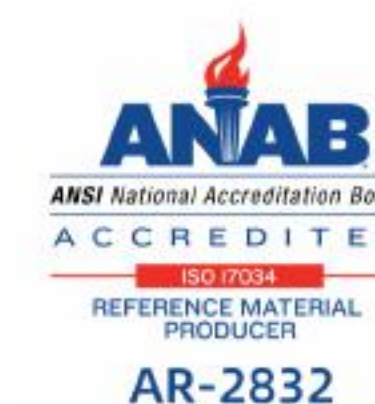
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