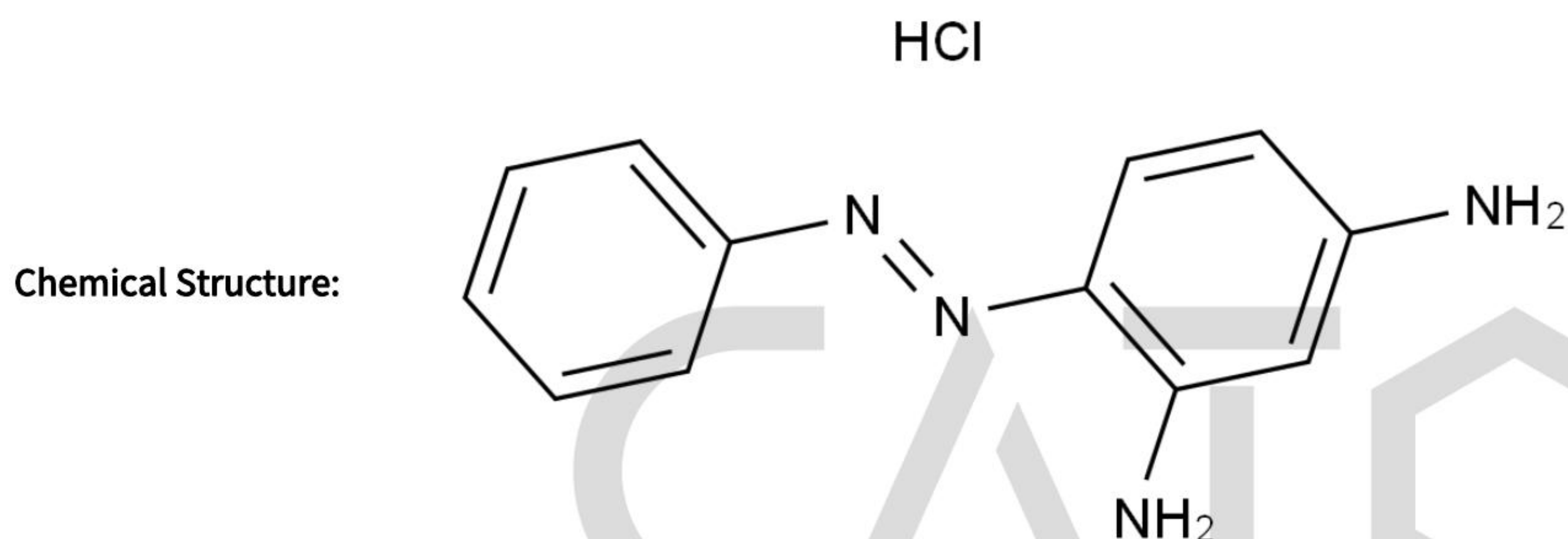


Certificate of Analysis

Reference Material & Standard

Product Name:	Basic Orange 2	Catalogue Number:	CCHM700729
Synonyms:	N/A	Lot Number:	0208-RC-0063
CAS Number:	532-82-1	Expiry Date:	May 28, 2028
Molecular Formula:	C ₁₂ H ₁₂ N ₄ HCl	Storage:	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	212.25 36.46	Warning:	



Test Items	Method	Results
Appearance	Visual inspection	Black Crystalline Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	99.4045%
Water Content	Karl Fischer	12.7211%
Assay		86.8%
Uncertainty		±2.0%

Comment:

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

Assay (%) = (100% - Water Content) * 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:

Lisa

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: May 29, 2024

Date: May 29, 2024

Date: May 29, 2024

