

Certificate of Analysis

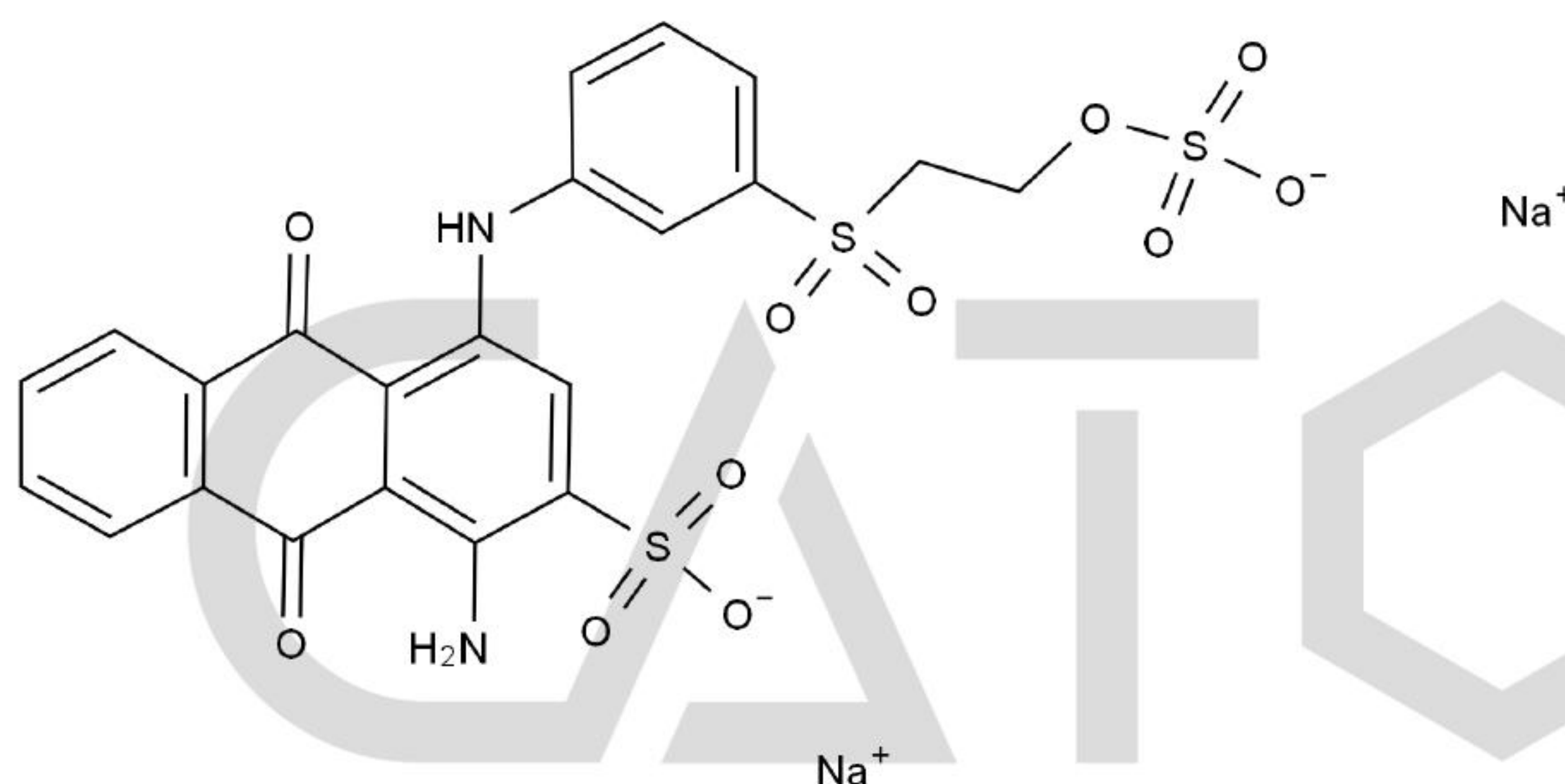
Reference Material & Standard

Product Name:	Reactive Blue 19	Catalogue Number:	CCHM702293
Synonyms:	N/A	Lot Number:	1211-RG-0029
CAS Number:	2580-78-1	Expiry Date:	Dec 10, 2029
Molecular Formula:	C ₂₂ H ₁₆ N ₂ O ₁₁ S ₃ 2*Na	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	580.56 2*22.99	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Black Solid
Purity	HPLC	76.841%
Loss on Drying	TGA	6.4905%
Assay		71.9%
Uncertainty		±3.6%

Comment:

1. The calculation of the mass balance 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:

Lisa

Reviewed by:

Hinlam

Approved by General Manager:

David

Date: Dec 11, 2025

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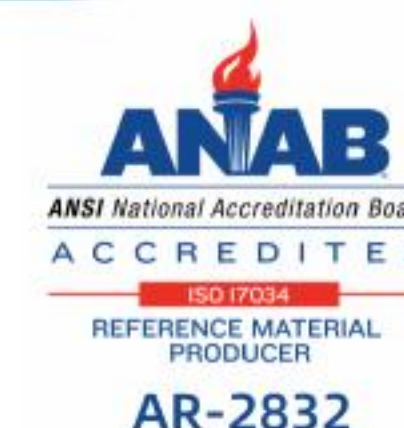
Add: 3rd Floor, Building B, No.179, Guangpu Rd East, Huangpu District, Guangzhou, China

Tel: +86-20-81960175

Email: supports@cato-chem.com

Web: <https://www.cato-chem.com>

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