

Certificate of Analysis

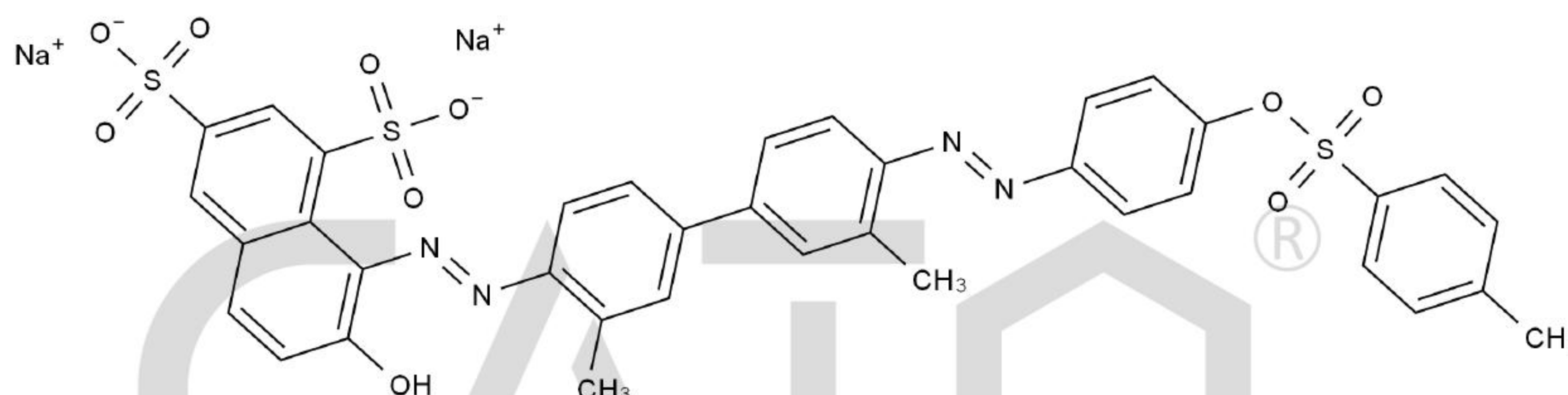
Reference Material & Standard

Product Name:	Acid Red 114	Catalogue Number:	CWLT600787
Synonyms:	N/A	Lot Number:	0411-RG-0046
CAS Number:	6459-94-5	Expiry Date:	Apr 10, 2029
Molecular Formula:	C ₃₇ H ₂₈ N ₄ O ₁₀ S ₃ 2*Na	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	784.83 2*22.99	Shipping Condition:	Shipping at Room Temperature

Warning:



Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Red-Brown Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	91.373%
Water Content	Karl Fischer	7.5397%
Assay		84.5%
Uncertainty		±1.7%

Comment:

1. The calculation of the mass balance 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: Apr 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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