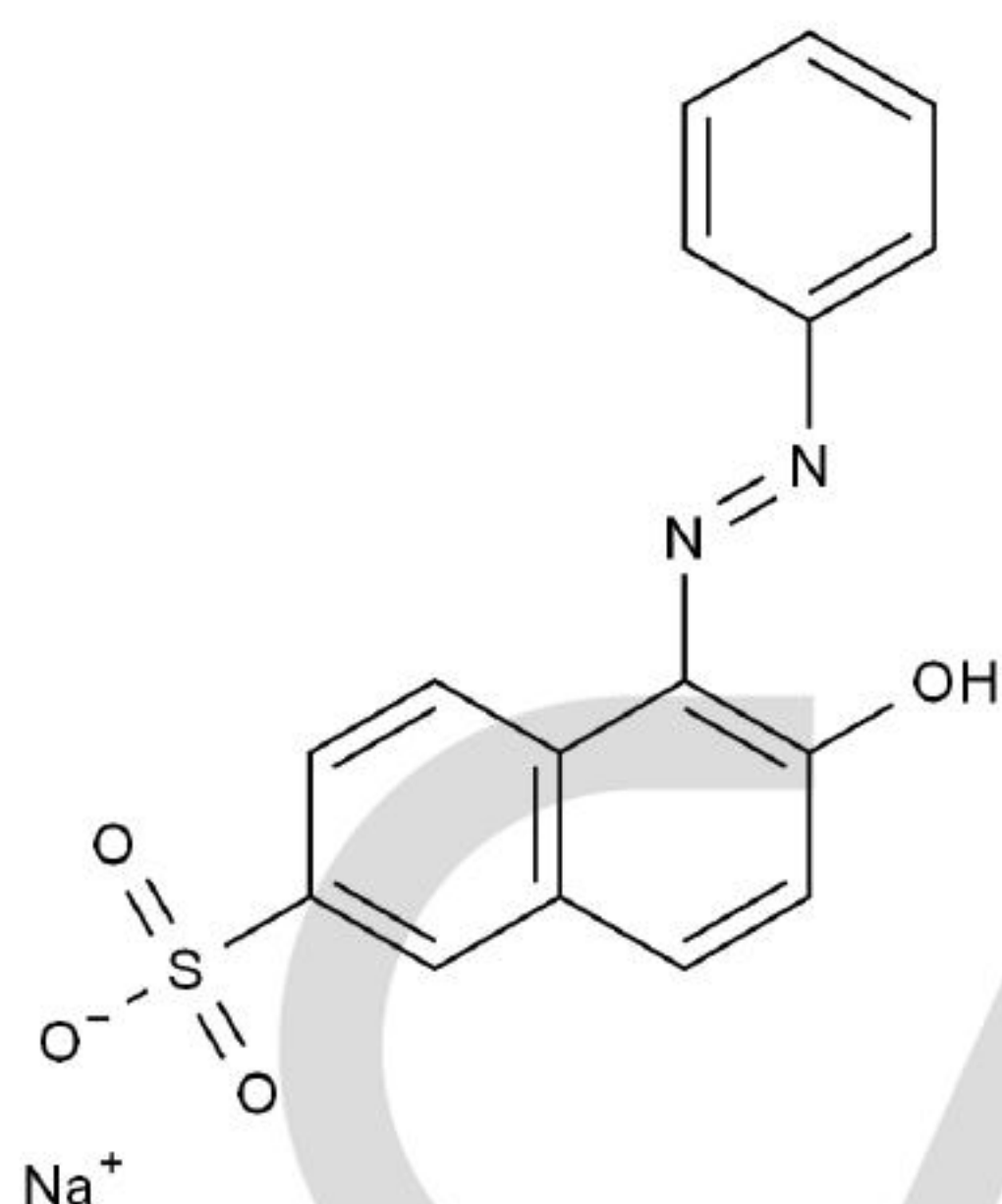


Certificate of Analysis

Reference Material & Standard

Product Name:	Crocein Orange G	Catalogue Number:	CWLT600641
Synonyms:	N/A	Lot Number:	0618-RG-0070
CAS Number:	1934-20-9	Expiry Date:	Jun 17, 2029
Molecular Formula:	C ₁₆ H ₁₁ N ₂ O ₄ S Na	Storage:	-20°C±5°C Protected from light and Sealed
Molecular Weight:	327.33 22.99		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Red Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	93.865%
Loss On Drying	TGA	2.0382%
Assay		92.0%
Uncertainty		±1.2%

Comment:

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

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

Loss On Drying 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:

Hinlam

Approved by General Manager:

David

Date: Jun 18, 2025

Date: Jun 18, 2025

Date: Jun 18, 2025

