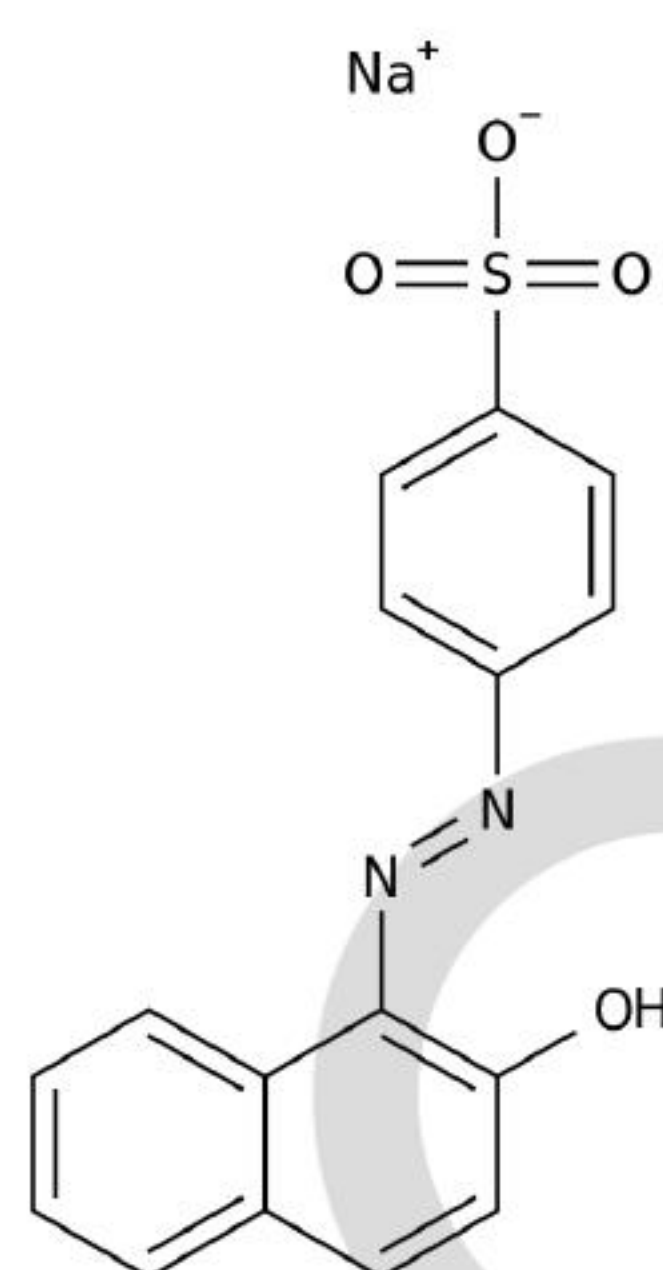


Certificate of Analysis

Reference Material & Standard

Product Name:	Acid Orange 7	Catalogue Number:	CWLT600222
Synonyms:	N/A	Lot Number:	0118-RD-0077
CAS Number:	633-96-5	Expiry Date:	May 28, 2029
Molecular Formula:	C ₁₆ H ₁₁ N ₂ O ₄ S Na	Storage:	Room Temp Protected from light and Sealed
Molecular Weight:	327.33 22.99		

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Orange-Red Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	98.490%
Water Content	Karl Fischer	5.3600%
Assay		93.2%
Uncertainty		±0.7%

Comment:

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

$$\text{Assay (\%)} = (100\% - \text{Water Content}) * \text{Purity HPLC (\%)} / 100\%$$

Water Content 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: May 29, 2025

Date: May 29, 2025

Date: May 29, 2025

