CATO Research Chemicals Inc.

Make the Tests More Accurate

ISO 17034 : 2016 | ISO 9001 : 2015

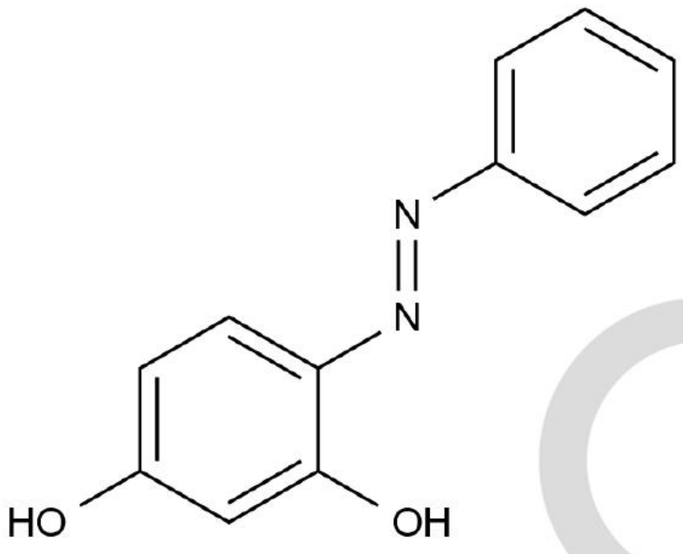
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Certificate of Analysis

Reference Material & Standard

Product Name:	Sudan Orange G	**Catalogue Number:**	CCFD200243
Synonyms:	N/A	**Lot Number:**	0927-RE-0076
CAS Number:	2051-85-6	**Expiry Date:**	Oct 09, 2027
Molecular Formula:	C12H10N2O2	**Storage:**	2°C ~ 8°C Protected from light and Sealed
Molecular Weight:	214.22	**Warning:**	

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	Red Solid
Identification	LCMS&HNMR	Confirmed
Purity	HPLC	61.255%
Loss On Drying	TGA	1.0487%
Assay		60.6%
Uncertainty		±2.0%

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Comment:

1. The calculation of the 100% 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: Alice Date: Oct 10, 2023

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Aporoved by General Manager: David Date: Oct 10, 2023

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