

Certificate of Analysis

**EHRENSTORFER™**

Product Identification

10411500 Azorubin (E122)

CA 1-Naphthalene sulfonic acid, 4-hydroxy-3-[2-(4-sulfo-1-naphthalenyl)diazenyl]-, sodium salt

IUPAC Disodium 2-(4-sulfo-1-naphthylazo)-1-naphthol-4-sulfonate

Formula C₂₀H₁₂N₂O₇S₂ Na₂

Mol.Weight 502.4

CAS No. 3567-69-9

Expiry Date 15.02.2024

Lot Number 752668

Store at 20 °C ±4 °C

Please note: The expiry date is valid under recommended storage conditions only.

Toxicological Data



R Code 36/37/38

S Code 22-25

LD50 (Rats female/male in mg/kg) >10000

Physical Data

Phase crystalline solid

Color red

Melt.Range

Vapour pressure N/A at °C

Solubility in water N/A g/l at °C

Boiling Range (lit.)

Analytical Data

Detection: HPLC/DAD

Column:

Inj.-Vol.: 10.00 µl

Flow: 1.0 ml/min

Ret.-Time: 7.06 min.

Method Details:

Eluent A: Acetonitrile:H₂O+0,5% H₃PO₄ 1:9 for 1 min

Eluent B: Acetonitrile 100% for 5 min

Eluent A -> Eluent B: 19 min

Identity: IR, UV, RT, MS, EA, NMR

Comment Column: YMC-Pack ODS-AQ, 150 x 3 mm, 3 µm

Water Content 10.9 % Determined by Karl-Fischer Titration

Det. Purity 87.4 % Tolerance/Uncertainty +/- 2.0 %

The uncertainty/tolerance of this standard is calculated in accordance with the EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement - Second Edition. The uncertainty given is the expanded combined uncertainty and represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The expanded uncertainty is U which is $Uc(y)*K$, where K is the coverage factor at the 95% confidence level ($K=2$). The expanded uncertainty is based on the combination of uncertainties associated with each individual operation involved in the preparation of this product.

Certified on 13.06.2018

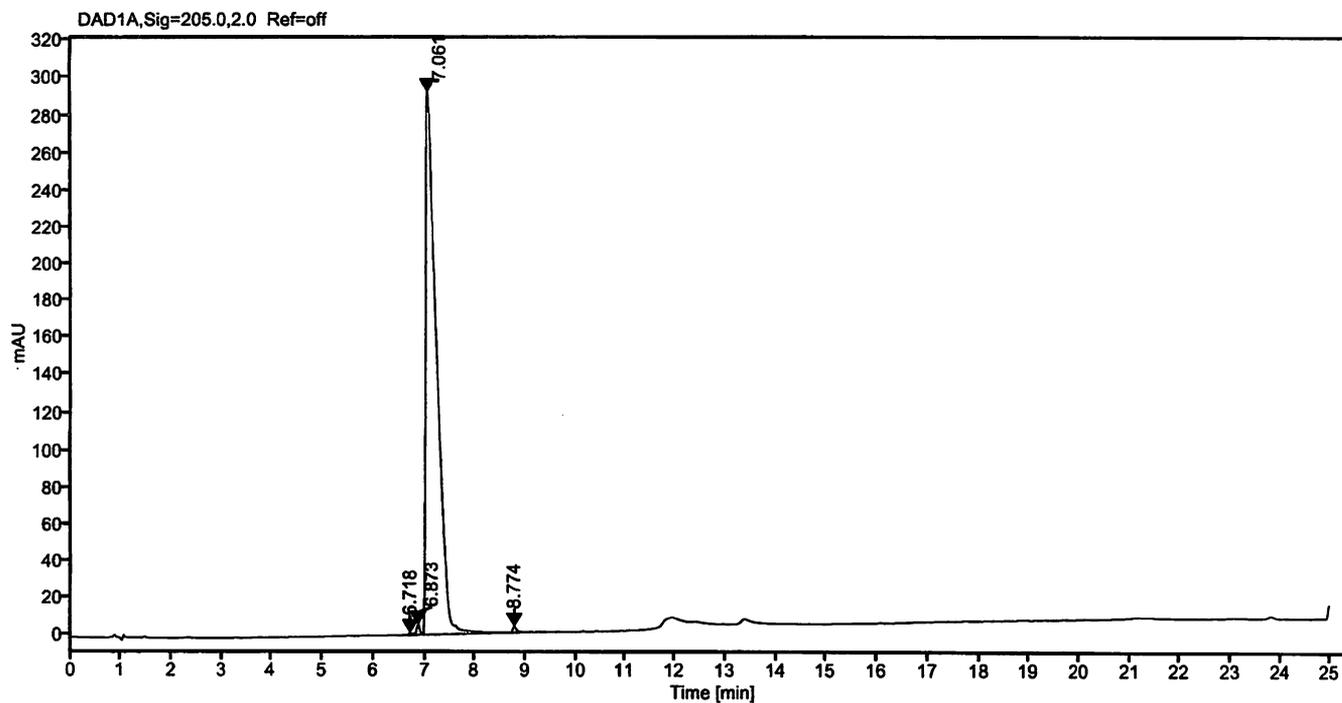
by D. Schmid

The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances and in form of single and multi-component solutions organic pure substances.

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The warranty for this product is limited to the purchasing price of this product.

3101 AS

Data file: 10411500-05-r001.dx Instrument: DAD4
Sequence Name: 30012018-1b
Inj. volume [µl]: 10.0 Injection date: 1/31/2018 12:40:40 AM
Acq. method: Gradient_10-100_PK_S2.amx Location: 11
Sample Description Azorubin (E122)
Column: YMC-Pack ODS-AQ, 150 x 3 mm, 3 µm



Signal: DAD1A, Sig=205.0, 2.0 Ref=off

Nr.	RT [min]	Area	Height	Area%
1	6.718	3.91117	1.13	0.09
2	6.873	25.04705	5.49	0.56
3	7.061	4442.34412	292.10	98.95
4	8.774	18.06662	3.18	0.40
	Sum	4489.37		

Schmid D.