

# Certificate of Analysis

**EHRENSTORFER™**

## Product Identification

16284000 Ponceau 4RC (E124)

Expiry Date 03.08.2022

CA 1,3-Naphthalenedisulfonic acid, 7-hydroxy-8-[(4-sulfo-1-naphthalenyl)azo]-, sodium salt (1:3)

Lot Number 976937

IUPAC Trisodium 1-(1-naphthylazo)-2-hydroxynaphthalene-4',6,8-trisulphonate

Store at 20 °C ±4 °C

Formula C20H11N2 Na3O10S3

Mol.Weight 604.47

CAS No. 2611-82-7

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

## Toxicological Data



R Code

S Code

LD50 (Rats female/male in mg/kg) &gt;8000

## Physical Data

Phase crystalline solid

Vapour pressure N/A at °C

Color red

Solubility in water N/A g/l at °C

Melt.Range

Boiling Range (lit.)

## Analytical Data

Detection: HPLC/DAD

Method Details:

Column: Poroshell 120 EC-C18 2.7µm 4.6x50mm

Eluent A: Acetonitrile

Inj.-Vol.: 10.00 µl

Eluent B: WA + 1.7g/L Tetrabutylammoniumhydrogen sulfate  
+ 0.7g/L Na2HPO4, pH=3.35

Flow: 1.0 ml/min

Ret.-Time: 7.57 min.

Time[min]	Eluent A [%]	Eluent B [%]
0	20	80
1	20	80
9	50	50
15	50	50
20	20	80

Identity: NMR, EA, UV, RT

Comment Purity was determined by elemental analysis

Water Content 7.0 % Determined by Karl-Fischer Titration

Det. Purity 87.0 % 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  $U_c(y) \cdot K$ , 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 03.08.2018

by Dr. K. Wörmann

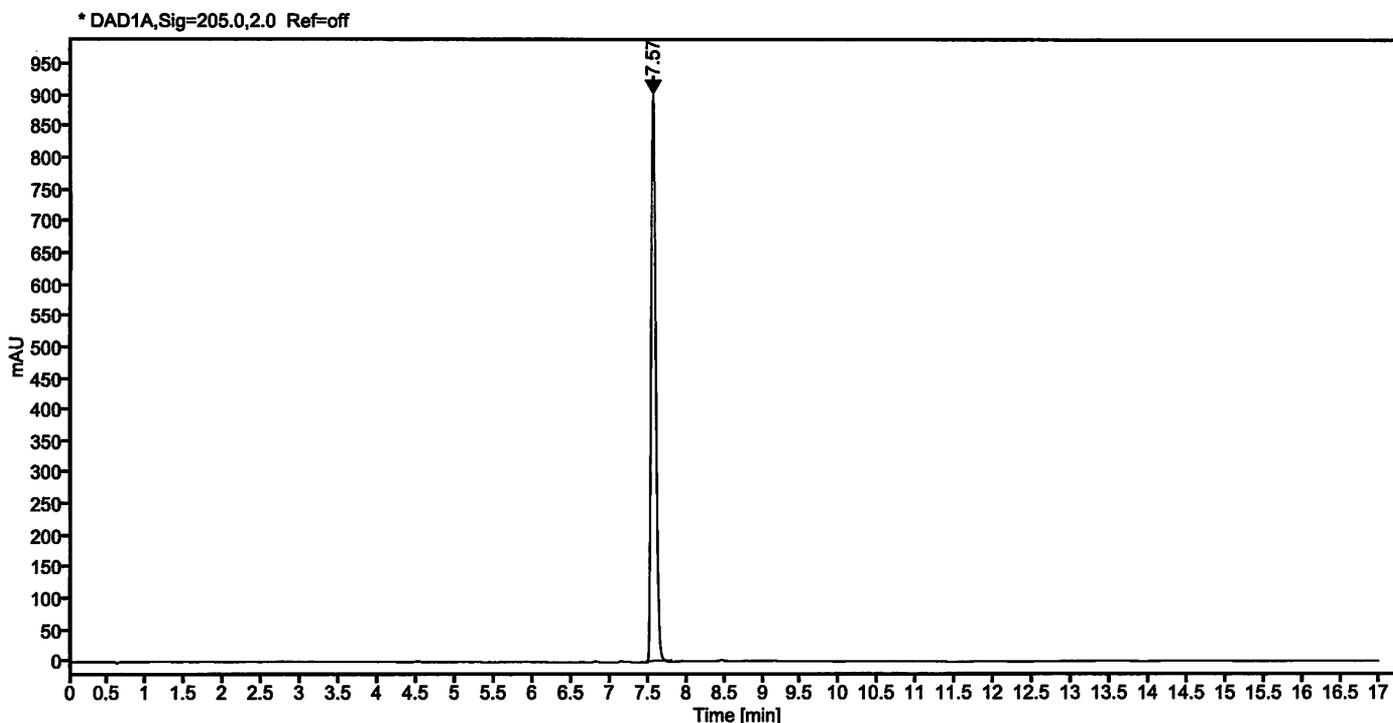
The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances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

2007.18  
HG

Data file: 16284000-05-r001.dx Instrument: DAD3  
Sample name: 80713WA 976937 Sequence Name: 19072018-SE  
Inj. volume [µl]: 10.0 Injection date: 7/19/2018 8:39:15 AM  
Acq. method: GRADIENT\_BRILLIANTBLACK\_S2.amx Location: 18

Sample Description Ponceau 4RC (E124)  
Column: Poroshell 120 EC-C18, 2,7 µm, 50 x 4,6 mm  
Eluent B: Acetonitrile  
Eluent D: 1,7 g Tetrabutylammoniumhydrogen sulfate + 0.7 g Na2HPO4 pro 1L WA, pH = 3.35



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

Nr.	RT [min]	Area	Height	Area%
1	7.57	3809.16158	901.58	100.00
	Sum	3809.16		