

# Certificate of Analysis

**EHRENSTORFER™**

## Product Identification

10125000 Allura Red AC

Expiry Date 28.06.2022

CA 2-Naphthalenesulfonic acid, 6-hydroxy-5-[2-(2-methoxy-5-methyl-4-sulfophenyl)diazenyl]-,

Lot Number 661019

IUPAC 6-Hydroxy-5-((2-methoxy-5-methyl-4-sulfophenyl)azo)-2-naphthalenesulfonic acid disodium salt

Store at 20 °C ±4 °C

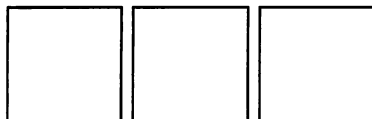
Formula C<sub>18</sub>H<sub>14</sub>N<sub>2</sub>O<sub>8</sub>S<sub>2</sub> 2Na

Mol.Weight 496.424

CAS No. 25956-17-6

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) 2000

## 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 Na<sub>2</sub>HPO<sub>4</sub>, pH=3.35

Flow: 1.0 ml/min

Ret.-Time: 6.35 min.

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

Identity: UV, RT, EA, NMR

Comment Purity was determined by elemental analysis.

Water Content 6.1 % Determined by Karl-Fischer Titration

Det. Purity 84.6 % 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 28.06.2018

by M. Beck

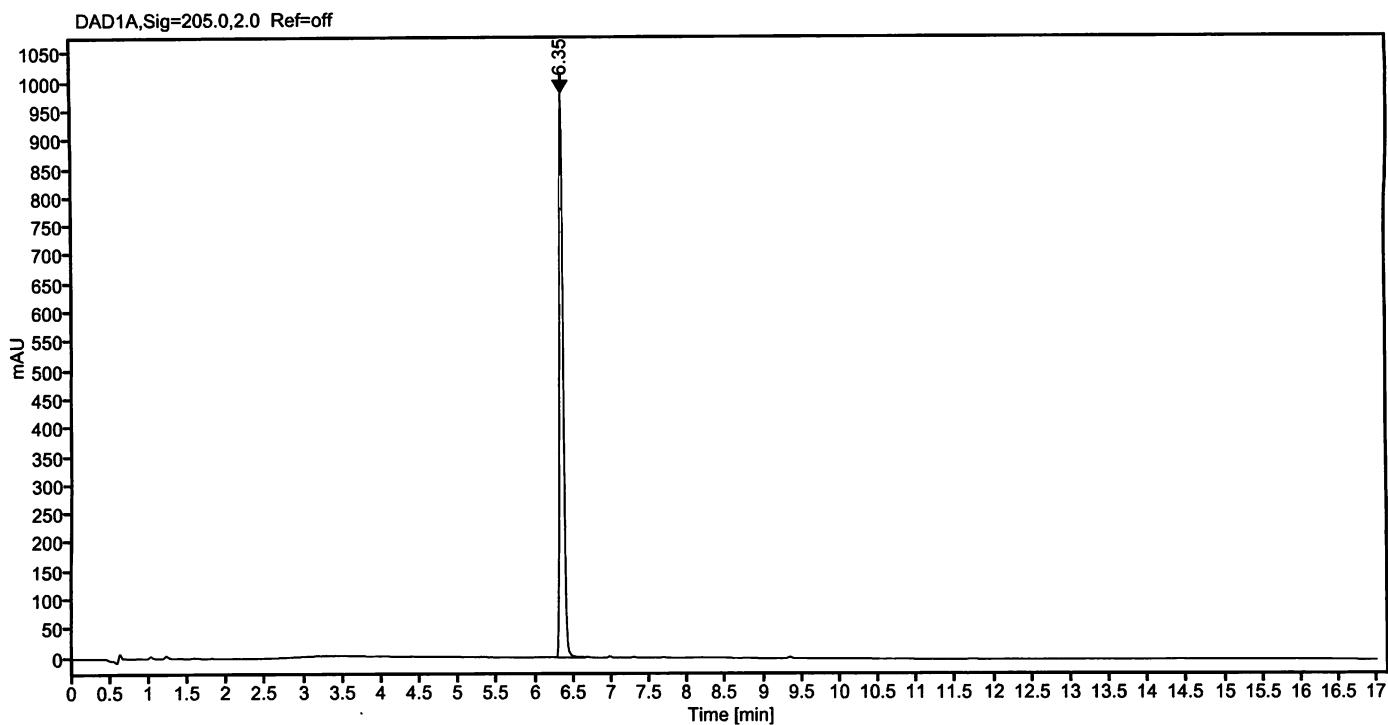
The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances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

Data file: 10125000-06-r001.dx  
Sample name: 80523WA 661019  
Inj. volume [µl]: 10.0  
Acq. method: GRADIENT\_BRILLIANTBLACK\_  
S2.amx

Instrument: DAD4  
Sequence Name: 29052018-SE  
Injection date: 5/29/2018 10:30:09 AM  
Location: 17

Sample Description Allura Red AC



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

Nr.	RT [min]	Area	Height	Area%
1	6.35	3453.81220	979.44	100.00
	Sum	3453.81		

*Beer*