

# Certificate of Analysis



## Product Identification

15895900 Patent Blue V

CA Ethanaminium, N-[4-[[4-(diethylamino)phenyl](5-hydroxy-2,4-disulfophenyl)methylene]-2,5-

IUPAC

Formula C<sub>27</sub>H<sub>31</sub>N<sub>2</sub>O<sub>7</sub>S<sub>2</sub>Na

Mol.Weight 582.67

CAS No. 20262-76-4

Expiry Date 10.10.2024

Lot Number 173890

Store at 20 °C ±4 °C

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) N/A

## Physical Data

Phase crystalline solid

Color green-blueish

Melt.Range

Vapour pressure NA at °C

Solubility in water NA g/l at °C

Boiling Range (lit.)

## Analytical Data

Detection: UHPLC/DAD

Column: LUNA Omega C18 1.6 µm 100 x 2.1 mm

Inj.-Vol.: 2.00 µl

Flow: 0.5 ml/min

Ret.-Time: 4.58 min.

Method Details:

Eluent A: WA + 0.5% H<sub>3</sub>PO<sub>4</sub>

Eluent B: Acetonitrile

Time/min	A	B
0	90%	10%
0.3	90%	10%
8	0%	100%
9.5	0%	100%
10	90%	10%

Identity: RT, UV, MS, EA, NMR

Comment

Water Content 4.6 % Determined by Karl-Fischer Titration

Det. Purity 84.0 % Tolerance/Uncertainty +/- 3.0 %

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 10.10.2018

by M. Beck

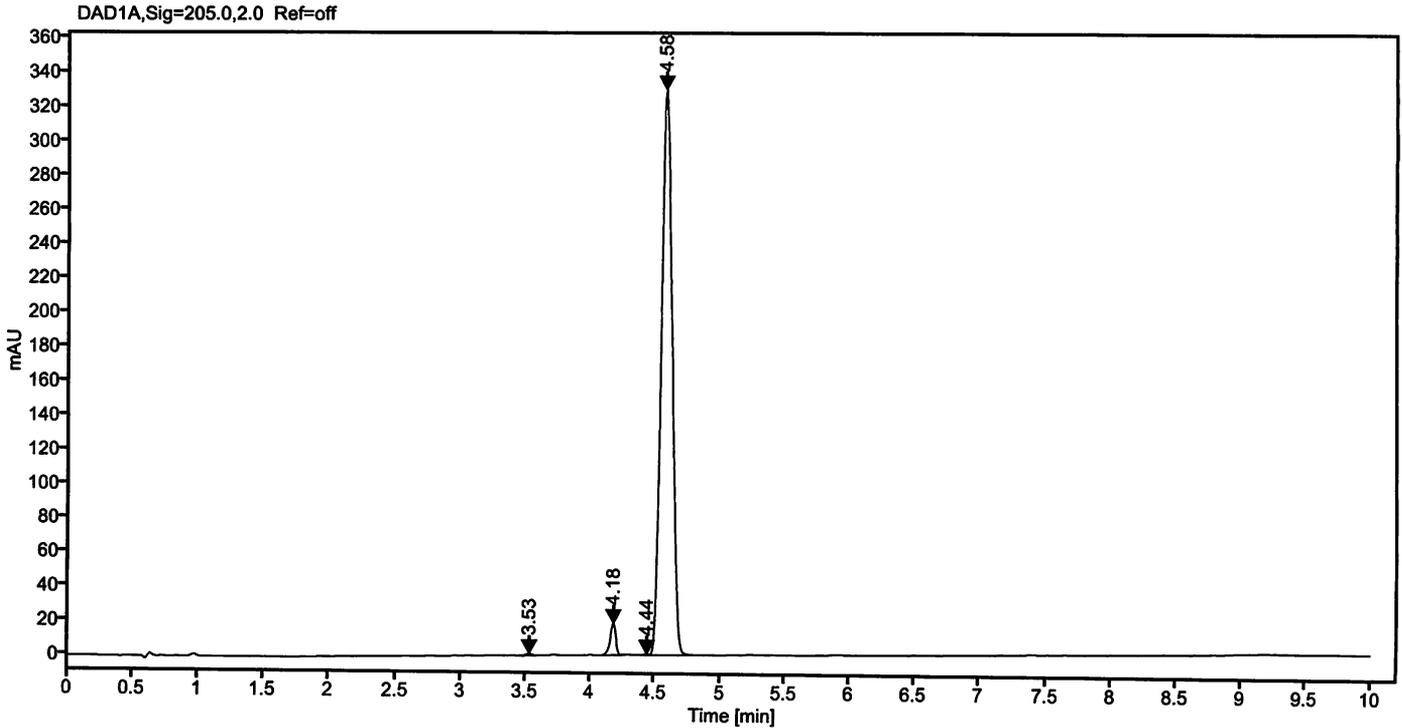
The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances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

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Data file: 15895900-20-r001.dx Instrument: UHPLC 2  
Sample name: 80914WA 173890 Sequence Name: 14092018-2a  
Inj. volume [µl]: 2.0 Injection date: 9/15/2018 1:59:48 AM  
Acq. method: Gradient\_10-100\_P.amx Location: P3-A7

Sample Description Patent Blue V



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

Nr.	RT [min]	Area	Height	Area%
1	3.53	3.45284	1.11	0.17
2	4.18	55.75008	18.30	2.80
3	4.44	1.47741	0.58	0.07
4	4.58	1932.76558	328.21	96.96
	Sum	1993.45		

M. Bek