

Certificate of Analysis



Product Identification

17048000 Sunset Yellow (E110)

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

IUPAC 2-Naphthalenesulfonic acid, 6-hydroxy-5-[2-(4-sulfophenyl)diazenyl]-, sodium salt

Formula C₁₆H₁₀N₂Na₂O₇S₂

Mol.Weight 452.37

CAS No. 2783-94-0

Expiry Date 29.11.2021

Lot Number 992397

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) >1000

Physical Data

Phase crystalline solid

Color red

Melt.Range dec. °C

Vapour pressure N/A at °C

Solubility in water N/A g/l at °C

Boiling Range (lit.)

Analytical Data

Detection: HPLC/DAD

Column: ReproSil 100 C18 5µ 250x3

Inj.-Vol.: 10.00 µl

Flow: 0.5 ml/min

Ret.-Time: 8.48 min.

Method Details:

Eluent A: Acetonitrile:H₂O+0,5% H₃PO₄ 1:9 for 2 min

Eluent B: Acetonitrile 100% for 5 min

Eluent A -> Eluent B: 45 min

Identity: UV, IR, RT, EA, NMR

Comment Purity was determined by elemental analysis.

Water Content 17.4 % Determined by Karl-Fischer Titration

Det. Purity 77.4 % 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 $U_c(y) \cdot K$, 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 29.11.2018

by M. Beck

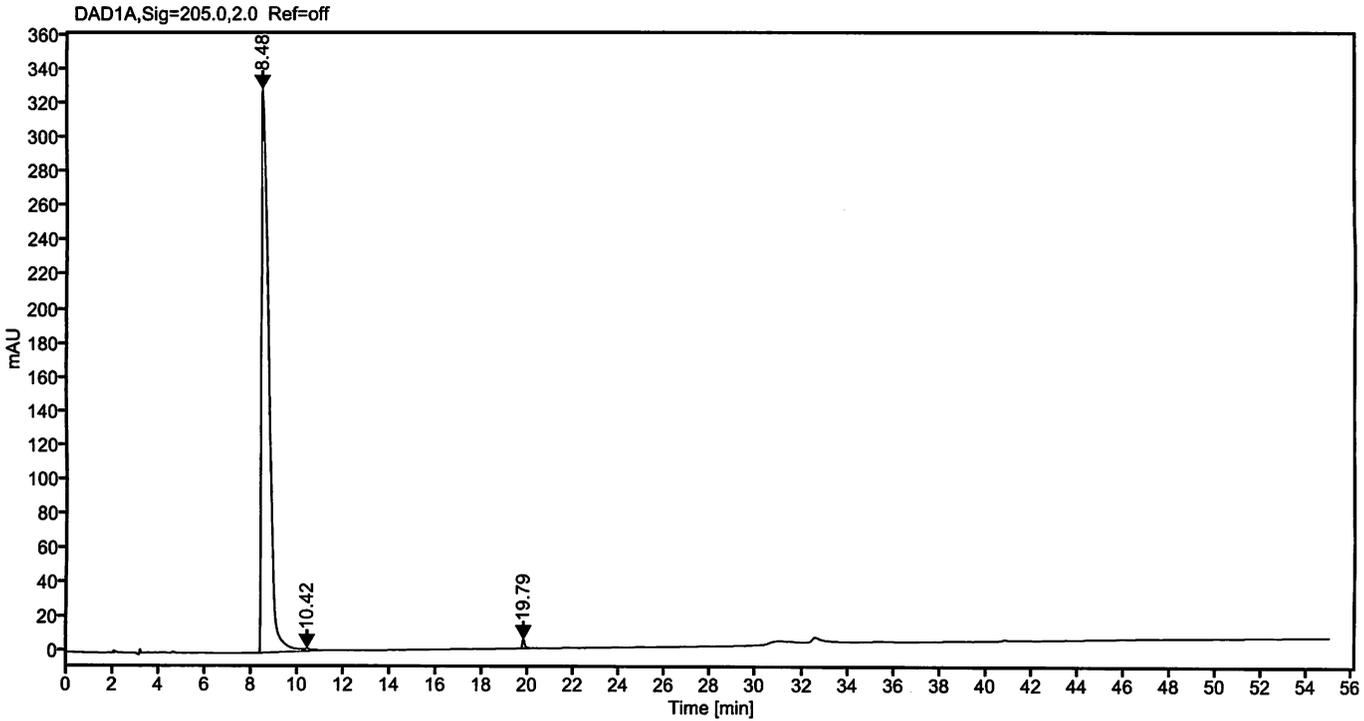
The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances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

27.11.18
HG

Data file: 17048000-08-r001.dx Instrument: DAD3
Sample name: 81122WA 992397 Sequence Name: 22112018-2
Inj. volume [µl]: 10.0 Injection date: 11/22/2018 8:54:49 PM
Acq. method: Gradient_10-100_P.amx Location: 57

Sample Description Sunset Yellow (E110)



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

| Nr. | RT [min] | Area | Height | Area% |
|-----|----------|------------|--------|-------|
| 1 | 8.48 | 7254.21436 | 330.23 | 99.03 |
| 2 | 10.42 | 29.87360 | 1.97 | 0.41 |
| 3 | 19.79 | 40.86767 | 5.49 | 0.56 |
| | Sum | 7324.96 | | |