

Certificate of Analysis

**EHRENSTORFER™**

Product Identification

11890300 theta-Cypermethrin

CA Cyclopropanecarboxylic acid, 3-(2,2-dichloroethenyl)-2,2-dimethyl-, (R)-cyano-(3-

IUPAC mixture (R)/(S)-a-cyano-3-phenoxybenzyl (1S,3R)-3-(2,2-dichlorovinyl)-2,2-

Formula C₂₂H₁₉Cl₂NO₃

Mol.Weight 416.3

CAS No. 71697-59-1

Expiry Date 10.08.2024

Lot Number 979326

Store at 20 °C ±4 °C

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

Toxicological Data



R Code 20/22-37-53

S Code 22-60-61

LD50 (Rats female/male in mg/kg) 3200-7700

Physical Data

Phase crystalline solid

Color colourless

Melt.Range 80.0 °C

Vapour pressure 1.8x10⁻⁴ mPa at 20 °C

Solubility in water <0.1 g/l at 25 °C

Boiling Range (lit.)

Analytical Data

Detection: HPLC/DAD

Column: ReproSil 100 C18 5µ 250x3

Inj.-Vol.: 10.00 µl

Flow: 1.0 ml/min

Ret.-Time: 20.75 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: UV, RT, MS, EA, NMR

Comment

Water Content 0.3 %

Determined by Karl-Fischer Titration

Det. Purity 97.0 %

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 w hich is U_c(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 10.08.2018

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.

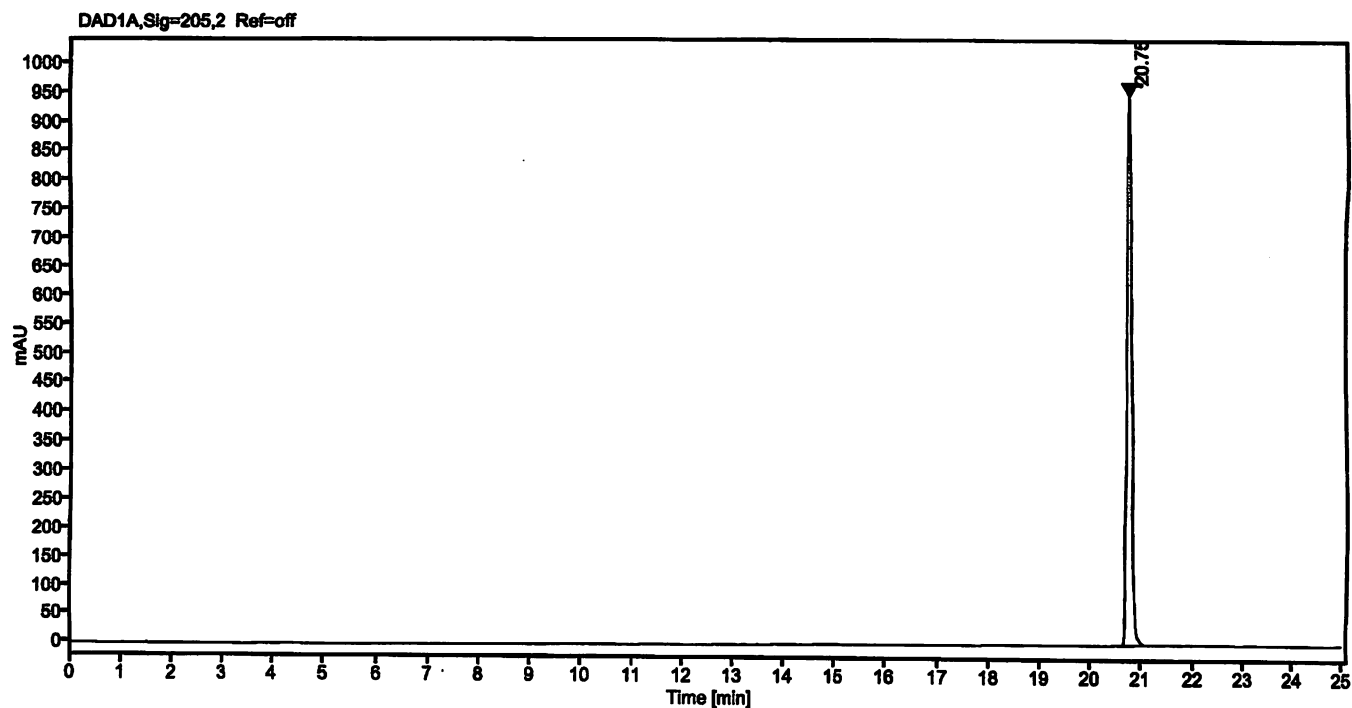
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The warranty for this product is limited to the purchasing price of this product.

Data file: 11890300-05-r001.dx
Sample name: 80730CY 979326
Inj. volume [µl]: 10.0
Acq. method: S1_Gradient_10-100_PK.amx

Instrument: DAD5
Sequence Name: 31072018-1a
Injection date: 7/31/2018 7:45:00 PM
Location: P2-A4

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Sample Description theta-Cypermethrin



Signal: DAD1A, Sig=205,2 Ref=off

Nr.	RT [min]	Area	Height	Area%
1	20.75	6121.96884	942.34	100.00
	Sum	6121.97		

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