

Certificate of Analysis

Dr. Ehrenstorfer



Product Identification

14283750 Imidacloprid Impurity 1

CA Imidazolidinimine, 1,3-bis[(6-chloro-3-pyridyl)methyl]-N-nitro

IUPAC 1,3-bis (6-chloro-3-pyridylmethyl)-N-nitroimidazolidin-2-ylideneamine

Formula C₁₅H₁₄Cl₂N₆O₂

Mol.Weight 381.22

CAS No. 105828-41-9

Reference Materials for Residue Analysis

Expiry Date 07.11.2021

Lot Number 158487

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 colourless

Melt.Range

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.:

Flow: 1.0 ml/min

Ret.-Time: 4.49 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, IR, MS, EA, NMR

Comment Inj.-Vol.: 2µl

Water Content 0.1 % Determined by Karl-Fischer Titration

Det. Purity 99.6 % Tolerance/Uncertainty +/- 1.0 %

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 $Uc(y) \cdot K$, 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 07.11.2017

by N. Müller

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.

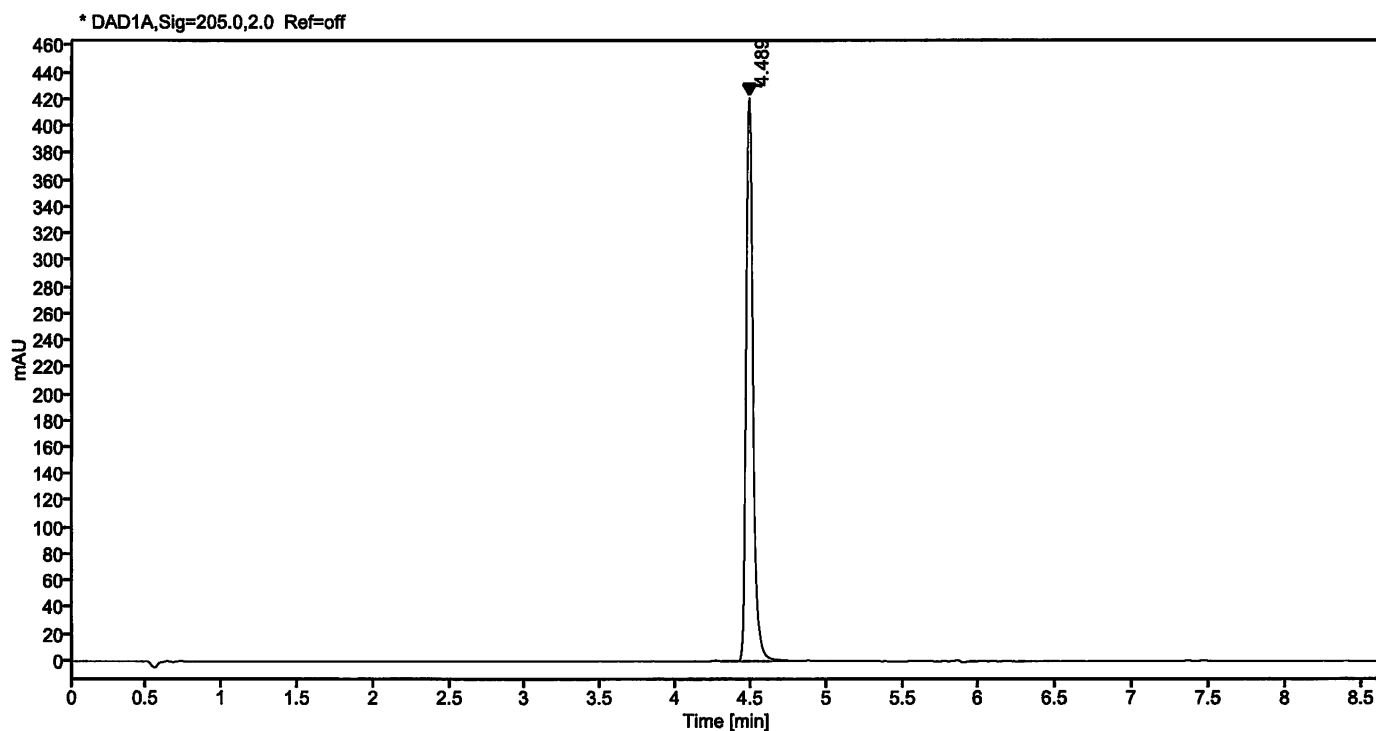
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The warranty for this product is limited to the purchasing price of this product.

24.10.12
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Data file: 14283750-26-r002.dx
Sample name: 71019AL 158487
Inj. volume [µl]: 2.0
Acq. method: Gradient_10-100_P.amx

Instrument: UHPLC 1
Sequence Name: 23102017-1a
Injection date: 10/24/2017 3:25:58 AM
Location: P2-D3

Sample Description Imidacloprid Impurity 1



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

Nr.	RT [min]	Area	Height	Area%
1	4.489	1363.43939	422.54	100.00
	Sum	1363.44		

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