Certificate of Analysis ISO Guide 34 Reference Material



Product Identification

Article Code: DRE-C16380400

Article Name: Propachlor oxalamic acid (OA)

Formula: C11H13NO3 Mol. Weight: 207.23 CAS No.: 70628-36-3

Lot Number:

G173011

Expiry Date:

05.03.2024

Storage Temperature:

20°C ± 4°C

Storage and handling: The RM should be stored in the original sealed bottle at the temperatur given above. After use the bottle should be tightly closed and protected from moisture and light. The expiry date is valid for original sealed bottles under recommended storage conditions only.

Purity:

99.34% (g/g)

Expanded Uncertainty U= 0.30% (g/g)

The uncertainty of this standard is calculated in accordance with the ISO Guide 34 and EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement. Second Edition. The expans uncertainty is U(exp) = u(RM) x k, where k is the coverage factor at the 95% confidence level (k=2). Uncertainty u(RM) is based on the combination of the uncertainties associated with each individual operation involved in the analysis of the product: u(RM) = vu(char)² + u(bb)² + u(lts)² + u(sts)² ; u(char) is the uncertainty of purity determination; u(bb) uncertainty of homogeneity test; u(its) uncertainty of stability test long-term; u(sts) uncertainty of stability test hont-term. u(its) and u(sts) are not included in the calculation as the stability statement is based on real evidence opposed to simulation.

Minimum sample: 1 mg is recommended as the minimal sample amount. If less material is used, it is recommended to increase the certified uncertainty by a factor of two for half sample and a factor of four for a quarter of sample.

Intended use: Use this RM as calibrant for chromatography or any other analytical technique.

Analytical Data

Fraceability of chromatography: To the International System of Units (SI).

DAD LUNA Omega C18 1.6 µm 100 x 2.1 mm

inj.-Vol.: 2.0 µl 0.5 ml/mls Ret.Time: 2.84 mln

Eluent A: WA + 0.5% H3PO4 Eluent B: Acetonitrile

0.0 90 90 0.3 100

Traceability: The balances used are calibrated with weights traceable to the national standards (DKD).

Calibrated class A glassware is used for volumetric measurements.

Water Content: 0.22% (g/g) by Karl-Fischer-Titration (U(exp) = 0.03% (g/g)).

Identity: EA. NMR. RT. IR. UV. MS

Certificate Revision 1 - 05.03.2018 - N. Müller

Certified on: Certified by:

05.03.2018 N. Müller

The LGC Labor GmbH, accreditated 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 of organic pure substances. Data file:

16380400-04.dx

Sample name:

80302AL G173011

Inj. volume [µl]: Acq. method: 2.0

2.0

Gradient_10-100_P.amx

Instrument:

UHPLC 2

Sequence Name:

01032018-2

Injection date:

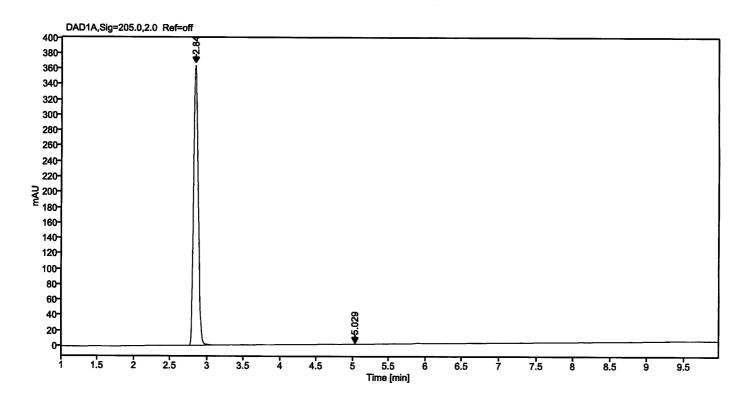
3/1/2018 4:38:00 PM

Location:

P2-B2

Sample Description

Propachlor oxalamic acid (OA)



Signal:	DAD1A,Sig=205.0,2.0 Ref=off			
Nr.	RT [min]	Area	Height	Area%
1	2.840	1575.55312	365.73	99.91
2	5.029	1.46405	0.50	0.09
	Sum	1577.02		

HOLD.