

Certificate of Analysis



ISO Guide 34 Reference Material

Product Identification

Article Code: DRE-C10241000

Article Name: Ammelide

Formula: C₃H₄N₄O₂

Mol. Weight: 128.09

CAS No.: 645-93-2

Lot Number: G833156

Expiry Date: 22.05.2024

Storage Temperature: 20°C ± 4°C

Storage and handling: The RM should be stored in the original sealed bottle at the temperature given above. After use the bottle should be tightly closed and protected from moisture

Purity: 99.47% (g/g)

Expanded Uncertainty U= 0.89% (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 expanded uncertainty is $U(\text{exp}) = u(\text{RM}) \times k$, where k is the coverage factor at the 95% confidence level ($k=2$). Uncertainty $u(\text{RM})$ is based on the combination of the uncertainties associated with each individual operation involved in the analysis of the product: $u(\text{RM}) = \sqrt{u(\text{char})^2 + u(\text{bb})^2 + u(\text{Its})^2 + u(\text{sts})^2}$; $u(\text{char})$ is the uncertainty of characterisation; $u(\text{bb})$ uncertainty of homogeneity test; $u(\text{Its})$ uncertainty of stability test long-term; $u(\text{sts})$ uncertainty of stability test short-term. $u(\text{Its})$ and $u(\text{sts})$ 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

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

Instrument: HPLC/DAD

Detection: DAD

Column: Lichrospher Diol 5 µm 250 x 4 mm

Inj.-Vol.: 10 µl

Flow: 0.5 ml/min

Ret.Time: 5.29 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

Comment

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: <0.10% (g/g) by Karl-Fischer-Titration ($U(\text{exp}) = 0.03\%$ (g/g)).

Identity: EA, NMR, RT, IR, UV

Certificate Revision 1 - 22.05.2018 - M. Beck

Certified on: 22.05.2018

Certified by: M. Beck

RM Release

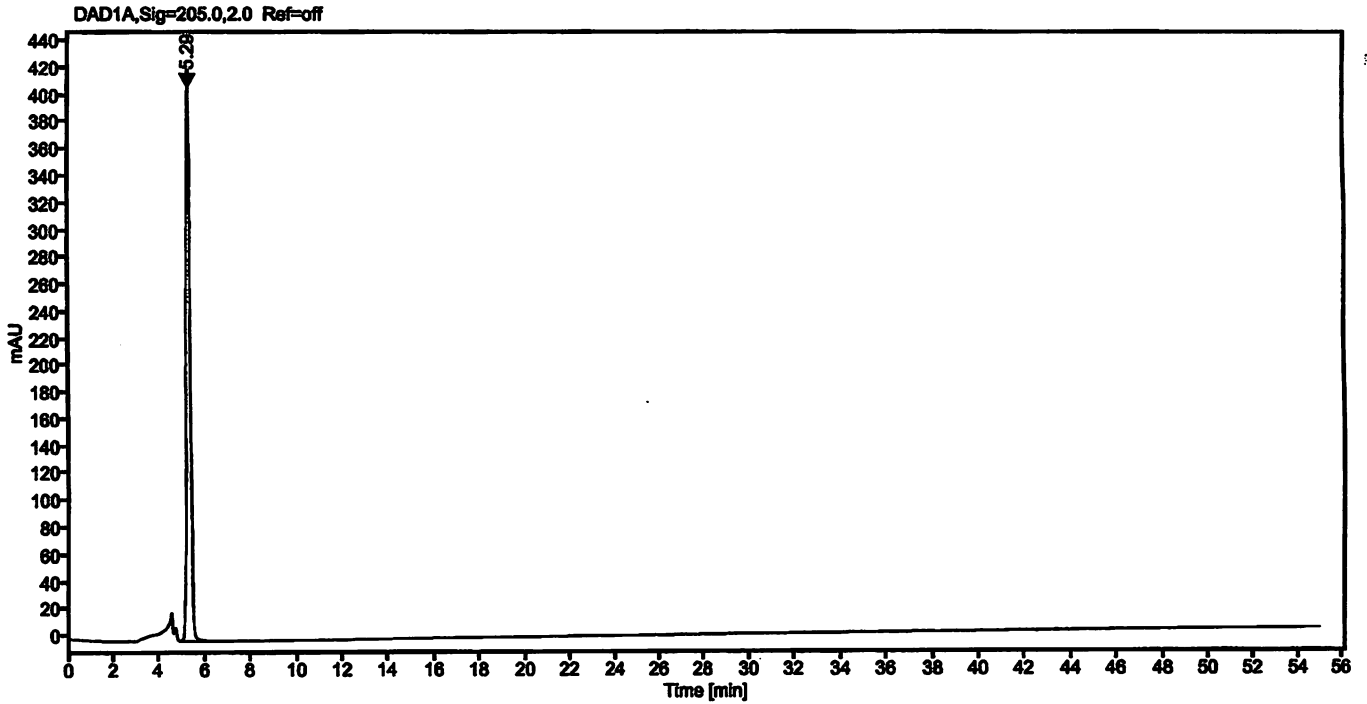
The LGC Labor GmbH, accredited by DAkkS as indicated by the accreditation number D-RM-19883-01 & D-PL-19883-01, has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances and in form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

LGC Labor GmbH - Bgm.-Schlosser-Straße 6A - 86199 Augsburg - Germany
Phone +49 821 906080 - Fax +49 821 9060888 - augsburg.inquiry@lgcgroup.com
The warranty for this product is limited to the purchasing price of this product.

030515

Data file: 10241000-03-r001.dx Instrument: DAD4
Sample name: 80430WA 171974 Sequence Name: 02052018-Diol2
Inj. volume [µl]: 10.0 Injection date: 5/2/2018 7:41:47 PM
Acq. method: Gradient_10-100_P_S2.amx Location: 43

Sample Description Ammelide
Column: Lichrospher Diol, 5µm, 250 x 4 mm



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

Nr.	RT [min]	Area	Height	Area%
1	5.29	4624.77863	409.80	100.00
	Sum	4624.78		

Handwritten signature