

Certificate of Analysis



ISO Guide 34 Reference Material

Product Identification

Article Code: DRE-C10190000
Article Name: Aminocarb
Formula: C₁₁H₁₆N₂O₂
Mol. Weight: 208.26
CAS No.: 2032-59-9

Lot Number: G173824
Expiry Date: 14.08.2022
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: 99.43% (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 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: UHPLC/DAD
Detection: DAD
Column: LUNA Omega C18 1.6 µm 100 x 2.1 mm
Inj.-Vol.: 2.0 µl
Flow: 0.5 ml/min
Ret.Time: 4.56 min

Method Details
Eluent A: WA
Eluent B: Acetonitrile

Time [min]	Eluent A [%]	Eluent B [%]
0.0	90	10
0.3	90	10
8.0	0	100
9.5	0	100
10.0	90	10

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 ($U(\text{exp}) = 0.05\%$ (g/g)).

Purity was determined by chromatographic assay, corrected by water content and/or residue solvents.

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

Certificate Revision 1 - 14.08.2018 - N. Müller

Certified on: 14.08.2018
Certified by: N. Müller
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.

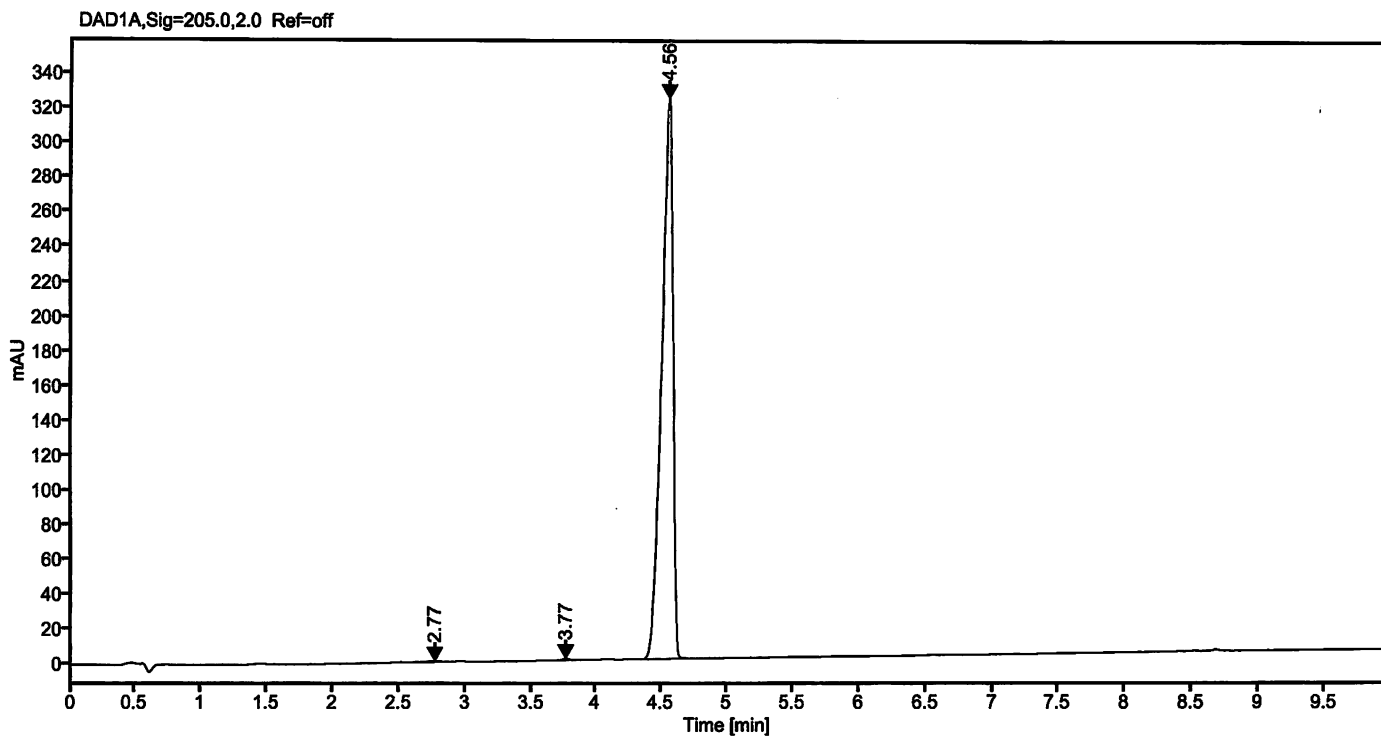
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The warranty for this product is limited to the purchasing price of this product.

Data file: 10190000-13.dx
Sample name: 80813AL G173824
Inj. volume [µl]: 2.0
Acq. method: Gradient_10-100.amx

Instrument: UHPLC 2
Sequence Name: 13082018-1b
Injection date: 8/13/2018 8:48:23 PM
Location: P1-A6

Handwritten mark

Sample Description Aminocarb



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

Nr.	RT [min]	Area	Height	Area%
1	2.77	4.21587	0.50	0.22
2	3.77	2.94664	1.03	0.15
3	4.56	1938.42052	323.47	99.63
	Sum	1945.58		

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