

Certificate of Analysis



ISO Guide 34 Reference Material

Product Identification

Article Code: DRE-C10736200
Article Name: 2-Bromophenol
Formula: C₆H₅BrO
Mol. Weight: 173.01
CAS No.: 95-56-7

Lot Number: G975309
Expiry Date: 09.07.2024
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: 99.63% (g/g)

Expanded Uncertainty U= 0.71% (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

Method Details

Detection: DAD

Acetonitrile:Water+0.5% H₃PO₄ 1:1

Column: ReproSil 100 C18 5 µm 250 x 3 mm

Inj.-Vol.: 10 µl

Flow: 1.0 ml/min

Ret.Time: 3.03 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: 0.24% (g/g) by Karl-Fischer-Titration ($U(\text{exp}) = 0.04\%$ (g/g)).

Purity was determined by elemental analysis

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

Certificate Revision 1 - 09.07.2018 - M. Beck

Certified on: 09.07.2018
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.

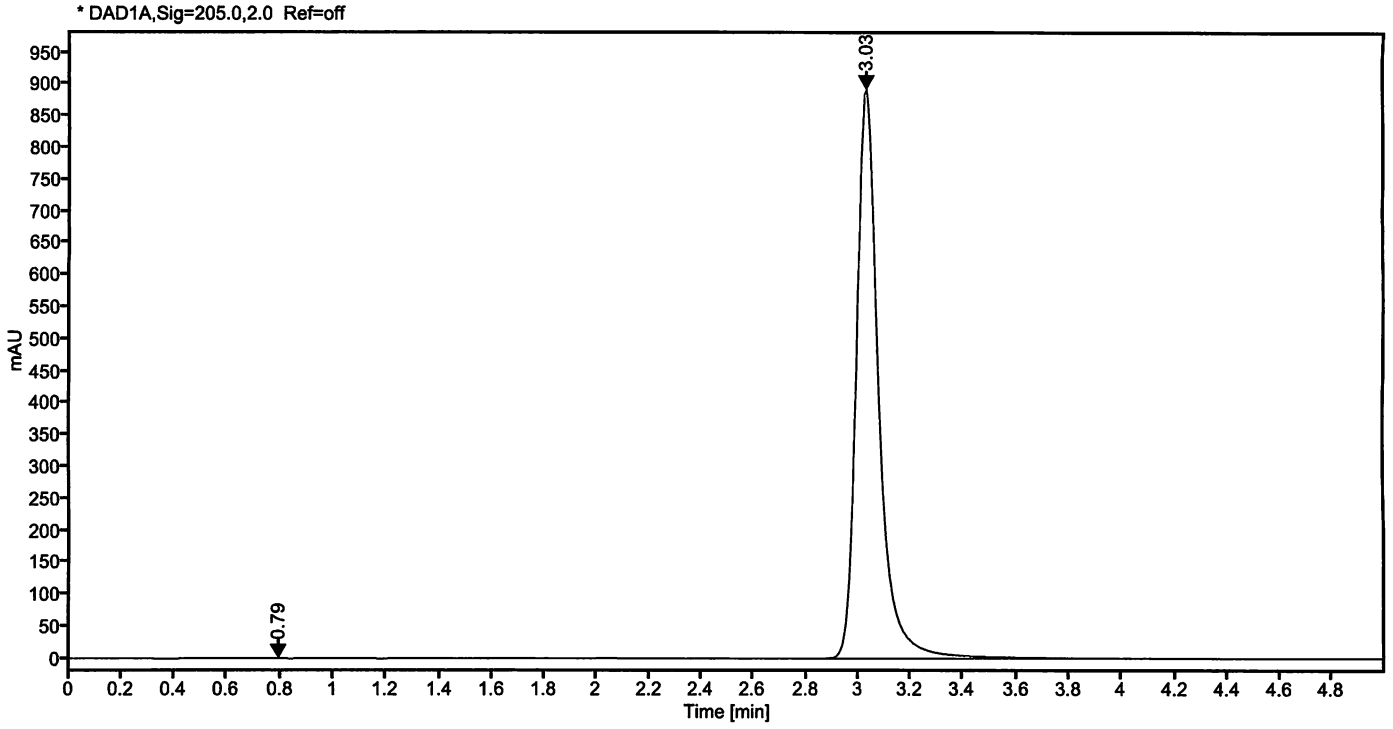
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The warranty for this product is limited to the purchasing price of this product.

06/18/18

Data file: 10736200-04.dx
Sample name: 80703ME G975309
Inj. volume [µl]: 10.0
Acq. method: 11PK.amx

Instrument: DAD4
Sequence Name: 06072018-1a
Injection date: 7/6/2018 12:48:16 PM
Location: 43

Sample Description 2-Bromophenol



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

Nr.	RT [min]	Area	Height	Area%
1	0.79	1.72628	0.79	0.03
2	3.03	5277.40148	892.74	99.97
	Sum	5279.13		