Gravimetric Certificate



ISO 17034 Certified Reference Material

Article Code: DRE-LA15631015ME

Article Name: 4-n-Nonviphenol-mono-ethoxylate

Formula: C17H28O2 Mol. Weight: 264.41 CAS No.: 104-35-8

Product Identification

Lot Number: H985625MF 27.09.2023 **Expiry Date:** Storage Temperature: 20°C ± 4°C

Storage and handling: The CRM 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 and light. The expiry date is valid for original sealed bottles under recommended storage conditions only

Compound Name: 4-n-Nonylphenol-mono-ethoxylate Lot No ·

Purity: 99.0 % Weight:

1.008 mg

Batch Solvent:

Methanol

Solvent Lot: 171145431

Batch size: 100.00 ml

Concentration:

9.98 mg/l

Expanded Uncertainty U:

0.21 mg/l

The uncertainty of this standard is calculated in accordance with the ISO 17034 and EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement, Second Edition, The expanded uncertainty is U(exp) = The uncertainty of this standard is calculated in accordance with the ISO 17034 and EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement, Second Edition. The expanded uncertainty is U(exp) = u(cRM) x k, where k is the coverage factor at the 95% confidence level (k=2). Uncertainty u(CRM) is based on the combination of the uncertainties associated with each individual operation involved in the analysis of the product: u(CRM) = vu(cRaY) = vu(ba)² + u(bb)² + u(lts)² + u(sts)² ; u(char) is the uncertainty of characterisation; u(bb) uncertainty of homogeneity test; u(lts) uncertainty of stability test long-term; u(sts) uncertainty of stability test short-term. u(lts) and u(sts) are not included in the calculation as the stability statement is based on real evidence opposed to simulation.

Minimum sample: 1 ml 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

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

Analytical Data

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

Instrument: HPLC/DAD DAD Detection:

Column

ReproSil 100 C18 5 μm 250 x 3 mm

inj.-Vol.: Ret.Time: 10 µl 1 0 ml/min

3.83 min

Method Details

Acetonitrile:Water+0.5% H3PO4 9:1

Comment

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

Calibrated class A glassware is used for volumetric measurements.

Property value was determined by gravimetric measurements and confirmed by peak area comparison. Attachment: Exemplary chromatogram of given method

Certificate Revision 1 - 27.09.2018 - D. Schmid

Certified on:

27.09.2018 D. Schmid
RM Release
Schmid

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 17034:2017 with relevant parts of DIN EN ISO/IEC 17025:2018 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.

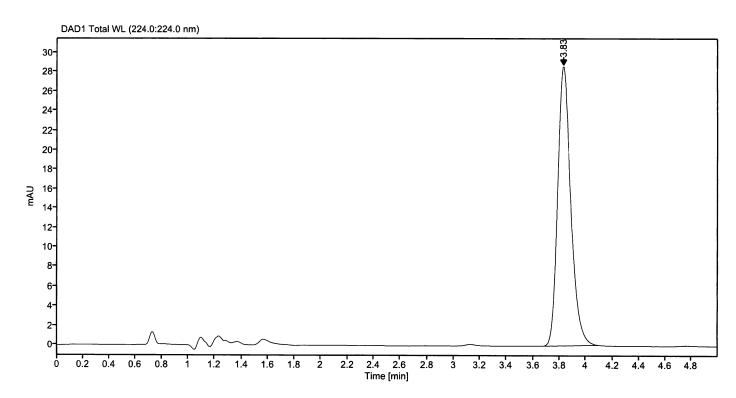
Data file: 15631015-11.dx Instrument: DAD5

Sample name: H985625ME Sequence Name: 26092018-1

Inj. volume [μl]: 10.0 **Injection date:** 9/26/2018 4:20:35 PM

Acq. method: S1_91PK.amx Location: P1-B4

Sample Description 4-n-Nonylphenol-mono-ethoxylate



Signal: DAD1 Total WL (224.0:224.0 nm)

Nr.	RT [min]	Area	Height	Area%
1	3.83	200.76249	28.68	100.00
	Sum	200.76		

Schmid D.