

REFERENCE MATERIAL CERTIFICATE

Reference Material

This certificate is designed in accordance with ISO Guide 31. This reference material (RM) was designed, produced and verified in accordance with a registered quality management system ISO 9001. All measurements were performed according to ISO/IEC 17025 by a DAkkS accredited laboratory (D-PL-19883-01-00).

Product Name

Tetrabromobisphenol A D10 100 µg/mL in Acetonitrile

Product Code
DRE-XA17324701AL

Lot Number
1010484AL

CAS No.

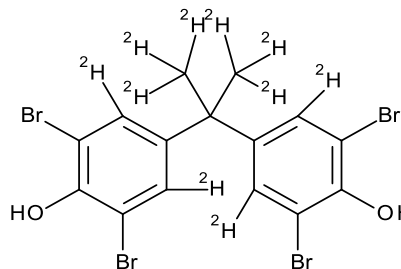
Format
Solution

Mol. Weight
553.93

Expiry Date
11 Jun 2024

Mol. Formula
C₁₅D₁₀H₂Br₄O₂

Storage Temp
20°C ± 4°C



CERTIFIED Concentration 100.1 µg/mL	CERTIFIED Expanded Uncertainty (U) 5.0 µg/mL
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Uncertainty

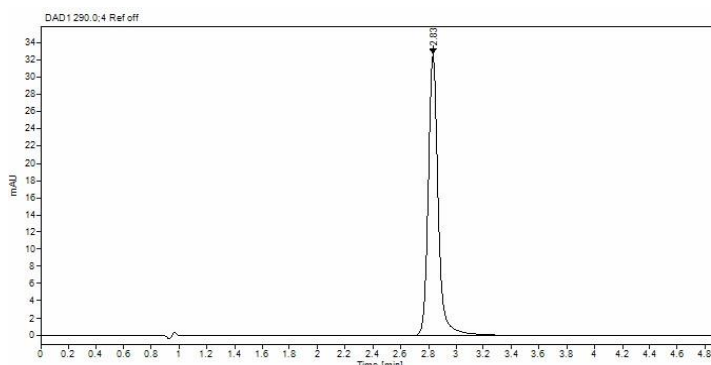
The certified value(s) and uncertainty(ies) are determined in accordance with EURACHEM/CITAC Guide for "Quantifying Uncertainty in Analytical Measurement, 3rd edition", with an 95% confidence level (k=2). Uncertainty is based on the Total Combined Uncertainty, including uncertainties of characterisation and stability testing. Stability values are based on real evidence opposed to simulation.

The producer certifies that this reference material meets the specification stated in this certificate until the expiry date, provided it is stored unopened at the recommended temperature herein. Product warranties for this reference material are set out in the terms and conditions of purchase.

CERTIFIED BY	CERTIFIED ON	SIGNATURE	STATUS
D. Schmid	11 Jun 2019		RM Release

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CHROMATOGRAM



Signal: DAD1 290.0:4 Ref off				
Nr.	RT [min]	Area	Height	Area%
1	2.83	164.23447	32.61	100

Instrument

HPLC/DAD

Detection

DAD

Column

ReproSil 100 C18 5 µm 250 x 3 mm

Method Details

Acetonitrile:Water+H3PO4

4:1

Inj.-Vol.

3.0 µL

Flow

1 mL/min

Method of Preparation

The certified value is based on gravimetric and volumetric preparation of this RM. This RM has been confirmed by the appropriate analytical techniques.

Batch Information

Solvent: Acetonitrile, Lot No. 170670838, 50.00 mL.

Concentration calculation based on Combined Purity = Chemical Purity * Isotopic Value.

Gravimetric Data

Compound Name	Lot No.	Combined Purity (%)	Weight (mg)	Chemical Purity (%)	Isotopic Purity (%)
Tetrabromobisphenol A D10	1010483	98.6	5.075	99.5	99.1

Intended Use

This RM is intended for use in a laboratory as a calibration and quality control standard or in method development for analytical techniques.

Safety

Proper precautions should be observed while handling. See Safety Data Sheet.

Traceability

The balances used for gravimetric measurements are calibrated with weights traceable to the national standards (DKD). The calibration of

the balances is verified daily internally and annually by an external accredited calibration service. Chromatographic methods are traceable to the International System of Units (SI).

Storage

The RM should be stored in the original sealed container at the indicated temperature.

Instructions for use

The RM should be used shortly after opening to avoid concentration changes due to evaporation. It is recommended to use 1 mL as the minimum sample size and if less material is used, to increase the certified uncertainty by a factor of two for half sample and four for a quarter of sample. If storage after opening is necessary, the RM should be tightly closed and kept from light and moisture. If the RM was in a sealed ampoule, it should be transferred to a vial with minimum head space. Visit the support section of our website lgcstandards.com for a series of Dr. Ehrenstorfer Tech Tip videos and frequently asked questions.

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