

# Gravimetric Certificate



## ISO 17034 Certified Reference Material

### Product Identification

Article Code: DRE-XA16140000CY  
Article Name: Phosphamidon  
Formula: C10H19CINO5P  
Mol. Weight: 299.69  
CAS No.: 13171-21-6

Lot Number: H996394CY  
Expiry Date: 09.01.2022  
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.

### Gravimetric Data

Compound Name: Phosphamidon	Lot. No.: G170501	Purity: 99.2 %	Weight: 15.120 mg
Batch Solvent: Cyclohexane	Solvent Lot: I093411771	Batch size: 150.00 ml	

Concentration: 99.99 mg/l      Expanded Uncertainty U: 2.04 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  $U(\text{exp}) = u(\text{CRM}) \times k$ , where  $k$  is the coverage factor at the 95% confidence level ( $k=2$ ). Uncertainty  $u(\text{CRM})$  is based on the combination of the uncertainties associated with each individual operation involved in the analysis of the product:  $u(\text{CRM}) = \sqrt{u(\text{char})^2 + u(\text{bb})^2 + u(\text{Its})^2 + u(\text{sts})^2}$ ;  $u(\text{char})$  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 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 quarter of sample.

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	Method Details
Detection: DAD	Acetonitrile:Water 4:1
Column: ReproSil 100 C18 5 µm 250 x 3 mm	
Inj.-Vol.: 10 µl	
Flow: 1.0 ml/min	
Ret.Time: 1.28 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.

Mixture of isomers.

Attachment: Exemplary chromatogram of given method

Certificate Revision 1 - 09.01.2019 - D. Schmid

Certified on: 09.01.2019  
Certified by: D. Schmid  
RM Release

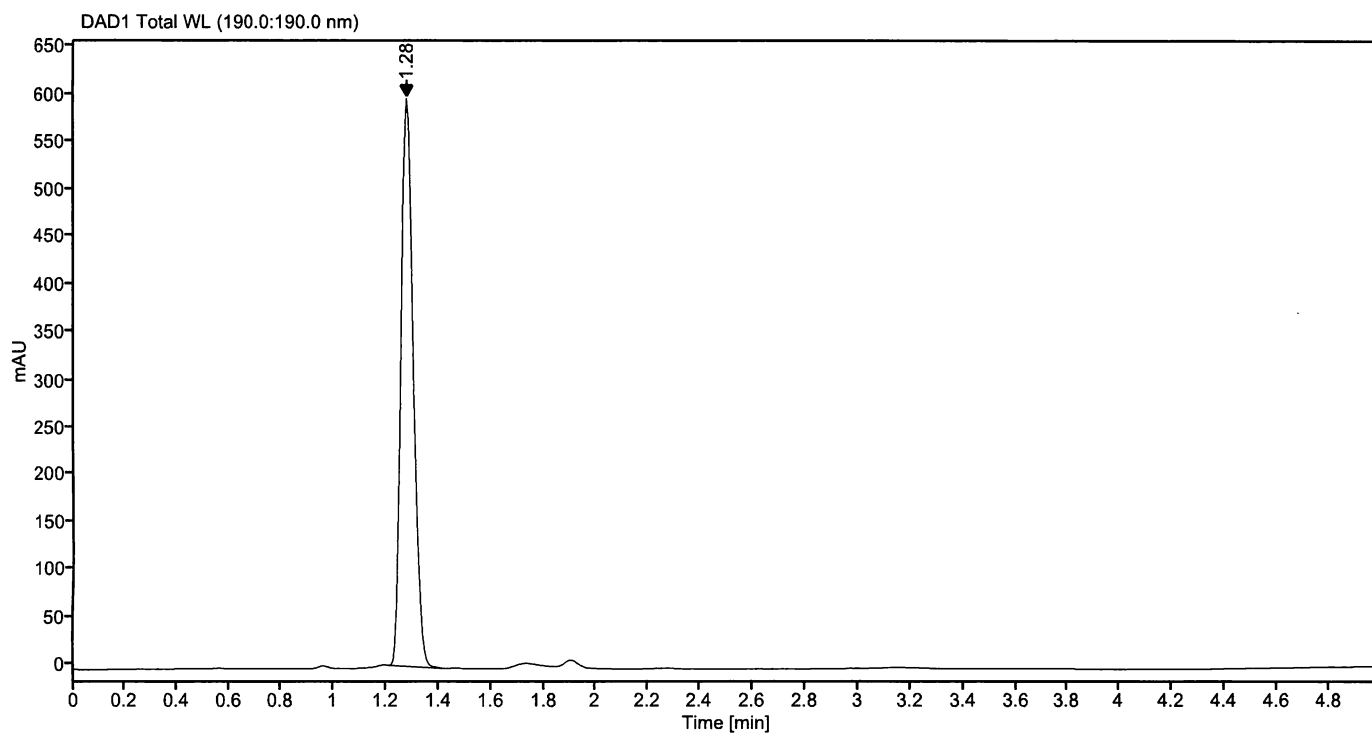
*Schmid D.*

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 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.

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

09.01.2019, SC

**Data file:** 16140000-03.dx      **Instrument:** DAD5  
**Sample name:** H996394CY      **Sequence Name:** 04012019-2  
**Inj. volume [µl]:** 10.0      **Injection date:** 1/6/2019 5:23:17 AM  
**Acq. method:** S1\_41K.amx      **Location:** D2B-A5  
**Sample Description**      Phosphamidon



Signal: DAD1 Total WL (190.0:190.0 nm)

Nr.	RT [min]	Area	Height	Area%
1	1.28	1956.33918	598.02	100.00
	Sum	1956.34		

Schmid D.