

# Certificate of Analysis



EHRENSTORFER™

## ISO Guide 34 Reference Material

### Product Identification

Article Code: DRE-C17650000

Article Name: Triazophos

Formula: C<sub>12</sub>H<sub>16</sub>N<sub>3</sub>O<sub>3</sub>PS

Mol. Weight: 313.31

CAS No.: 24017-47-8

Lot Number:

G687249

Expiry Date:

17.04.2022

Storage Temperature:

4°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: 98.95% (g/g)

Expanded Uncertainty U= 0.34% (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 4:1
Column:	ReproSil 100 C18 5 µm 250 x 3 mm	
Inj.-Vol.:	10 µl	
Flow:	1.0 ml/min	
Ret.Time:	2.02 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: <0.10% (g/g) by Karl-Fischer-Titration ( $U(\text{exp}) = 0.03\%$  (g/g)).  
Identity: EA, NMR, RT, IR, UV, MS

Certificate Revision 1 - 17.04.2018 - N. Müller

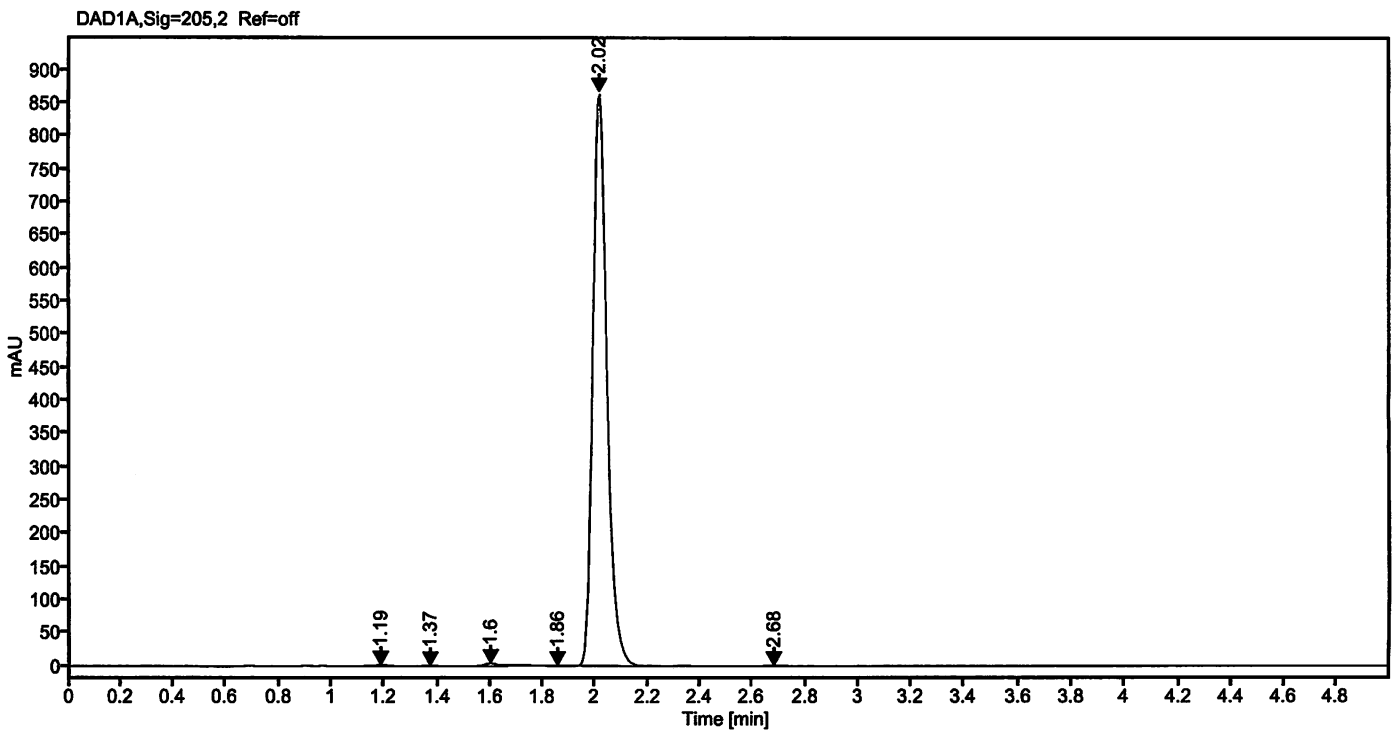
Certified on: 17.04.2018  
Certified by: N. Müller  
RM Release

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.

1604M

Data file:	17650000-29.dx	Instrument:	DAD5
Sample name:	80417CY G687249	Sequence Name:	12042018-1a
Inj. volume [µl]:	10.0	Injection date:	4/12/2018 4:03:50 PM
Acq. method:	S1_41K.amx	Location:	P5-B9
Sample Description	Triazophos		



Signal: DAD1A,Sig=205,2 Ref=off

Nr.	RT [min]	Area	Height	Area%
1	1.19	6.84112	1.83	0.21
2	1.37	2.11332	0.49	0.06
3	1.60	16.13051	4.32	0.49
4	1.86	2.23093	0.62	0.07
5	2.02	3244.15065	867.09	99.05
6	2.68	3.85897	0.87	0.12
	Sum	3275.33		

Handwritten signature.