

Gravimetric Certificate

Dr. Ehrenstorfer



Reference Materials for Residue Analysis

Expiry Date 29.01.2019
Lot Number 41113CY
Store at 20°C in the dark

Product Identification

16659510 Pyriminobac-methyl (E)
Formula C₁₇H₁₉N₃O₆
Mol.Weight 361.34
CAS No. 147411-69-6

Please note: The expiry date is valid under recommended storage conditions only.

Gravimetric Data		Conc. (mg/l)	Purity %	Weight (mg)
Product Name	Pyriminobac-methyl (E)	10,000	99,7	1,000
Solvent Information		Lot No.	Exact Quantity (ml)	
Solvent	Cyclohexane	40711	100,00	
Traceability Data		neat product		
16659510 41112	neat product			
16659510 41113CY	10,000 mg/l			
Analytical Data		Method Details:		
Detection: LC/MSD	ReproSil 100 C18 5µ 250x3			Acetonitrile:H ₂ O 4:1
Column:	Inj.-Vol.: 10,00 µl			
Flow: 0,5 ml/min	Ret.-Time: 1,87 min.			
Identity check UV, RT		Comment		
The uncertainty/tolerance of this standard is +/- 2,0 %, calculated in accordance with the EURACHEM/CITAC Guide - Quantifying Uncertainty in Analytical Measurement - Second Edition. The uncertainty given is the expanded combined uncertainty and represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The expanded uncertainty is U which is Uc(y)*K, where K is the coverage factor at the 95% confidence level (K=2). The expanded uncertainty is based on the combination of uncertainties associated with each individual operation involved in the preparation of this product.				

Certified on 29.01.2015

by V. Wagner

The Laboratory LGC Labor GmbH is 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 organic pure substances.

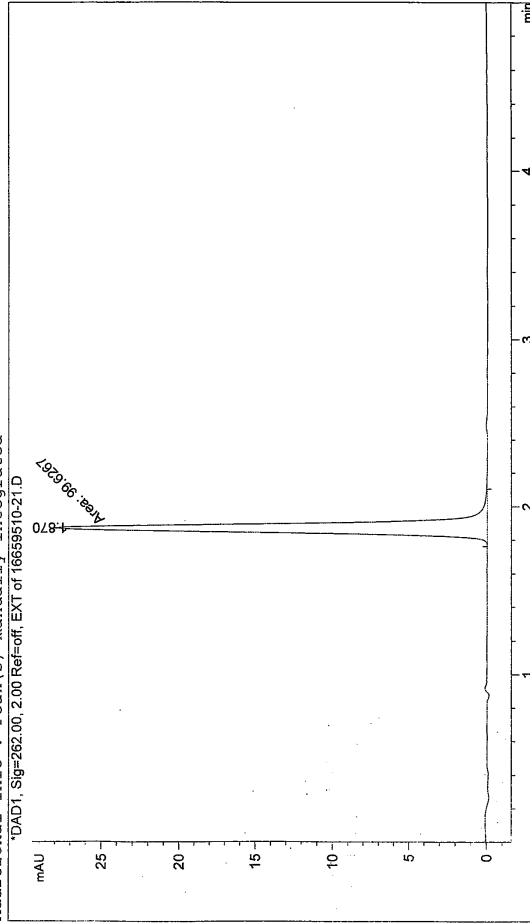
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The warranty for this product is limited to the purchasing price of this product.

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 Acq. Operator : DAD3_Admin
 Acq. Instrument : DAD3
 Injection Date : 14.11.2014 11:33:05
 Seq. Line : 15
 Location : Vial 66
 Inj : 1
 Inj Volume : 10.000 µl

Acq. Method : C:\CHEM32\1\DATA\2014KW46\141114-2 2014-11-14 07-35-37\41K.M
 Last changed : 30.07.2012 08:31:30 by DAD3
 Analysis Method : C:\CHEM32\1\METHODS\41K.M
 Last changed : 30.07.2012 08:31:30 by DAD3
 Method Info : Acetonitrile : Water 4:1

Sample Info : Pyriminobac-methyl (E)

Additional Info : Peak(s) manually integrated



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 Area Percent Report
 =====

Sorted By : Retention Time
 Multiplier : 1.0000
 Dilution : 1.0000
 Use Multiplier & Dilution Factor with ISTDs

Signal 1: DAD1, Sig=262.00, 2.00 Ref=off, EXT
 Signal has been modified after loading from rawdata file!

Peak #	RetTime [min]	Sig	Type	Area [mAU*s]	Height [mAU]	Area %
1	1.870	1	MF	99.62672	28.25271	100.0000

Totals : 99.62672 28.25271

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Reference Materials for
 Residue Analysis

1. Application:

This standard solution is designed for calibration or recalibration of chromatographic systems for the determination of the specified chemical compounds concerning identity and quantification. The product can also be used as reference material for interlaboratory studies to validate analytical procedures.

2. Raw material:

All raw materials used to prepare this standard solution are of the highest purity. After our production process each material is checked by several of the following methods, if applicable: UV-IR-Spectroscopy, Elemental analysis, chromatographical properties (GC/FID, GC/ECD, GC/MSD, HPLC/DAD, HPLC/MSD, TLC) and physical properties (phase, colour, odor, melting point) and Karl-Fischer for detection of traces of water.

3. Manufacturing

Prior to the production for each standard solution we calculate the necessary weight of the neat material, compensate the difference of the purity of the compound to 100%. We use an electronic scale capable of weighing to 0,000001 g with a built in automatic calibration function, which is executed minimum once a week. Once a month the balance is calibrated with weights complying with the OIML-IR-20 design requirements and traceable to the national prototype of the Physikalisch-Technische Bundesanstalt, Braunschweig, the German office of weights and measurements. Every year the balance is calibrated by the manufacturer service technician. This company is also certified by the DQS following ISO9001. All steps are documented conform to ISO 9001 requirements. The single components are weighed and filled into volumetric flask (class A glassware) with the exact quantity of solvent as indicated on the certificate. Solvents are stored and handled in special rooms, which have the constant ambient temperature required from the manufacturer of the volumetric equipment. The tolerance of the weighing procedure and the dilution error adds to a maximum of +/- 1.0 %.

4. Packaging and Storage:

The final formulation was packaged in amber glass ampoules and then sealed to prevent photodegradation and evaporation. Every reference material is stored under controlled condition. One sample of each lot is kept according GLP rules to allow a recheck of the specific lot even years after the last item was sold.

5. Stability:

In regular intervals each lot is checked for stability. We guarantee the stability of the solution until the date of expiry given on the Gravimetric Certificate. In case, that the tests show a degradation within the shelf life period, the customer will be notified. We recommend to store the ampoules in the dark at 20°C +/- 4°C

6. Gravimetric Certificate:

The documentation gives all the data of the production process with all the information necessary for traceability of each lot. Following GLP rules you are obliged to note the used product, lot number of the product, purity, exact weight/quantity of the product, name of the solvent, lot number of the solvent, exact quantity of the solvent, date of production, date of expiry and signature of the person in charge. Copies have to be authorized by stamp, signature of the person in charge according to your quality management handbook and date of authorization.

7. Analytical Quality Control

The summary of the quality control procedure is documented in the separate Certificate of Analysis. Our company holds the Quality System Certificate DQS-Reg.No.:2874-01 for the standard from the ISO 9001 / EN 29000 series and the scope as specified. The audit performed by the DQS has verified, that our quality system fulfills the requirements of DIN ISO 9001. The company is accredited by DAkkS as indicated by the Accreditation Number D-RM-14174-01 and D-PL-4536.00 also 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 organic pure substances.