Certificate of Analysis

Dr. Ehrenstorfer

Reference Materials for Residue Analysis

Product Identification

14794500 MCPB-ethyl ester

CA ethyl 4-(4-chloro-2-methylphenoxy)butanoate

IUPAC ethyl 4-(4-chloro-o-tolyloxy)butanoate

Formula C13H17ClO3

Mol.Weight 256.73

CAS No. 10443-70-6

Expiry Date 05.07.2023

Lot Number 145344

Store at 20 °C ±4 °C

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

Toxicological Data

R Code 22-53

S Code 13

LD50 (Rats female/male in mg/kg) N/A

Physical Data

Phase liquid

Color yellowish

Melt.Range

Vapour pressure N/A at °C

Solubility in water N/A g/l at °C

Boiling Range (lit.)

Analytical Data

Detection: GC/FID

Column: DB-5, 30 m, ID 0.25 mm

Inj.-Vol.: 1.00 µl

Flow: 1.0 ml/min

Ret.-Time: **17.42 min.**

Method Details:

Injector: 280° C

Start Temperature: 60° C for 5 min

End Temperature: 280° C for 1 min

Gradient: 15° C/min

Identity: MS, RT, EA, NMR, IR

Comment

Water Content 0.1 % Determined by Karl-Fischer Titration

Det. Purity 97.2 % Tolerance/Uncertainty +/- 1.0 %

The uncertainty/tolerance of this standard is 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 05.07.2017

by M. Beck

The Laboratory LGC Labor GmbH is accreditated 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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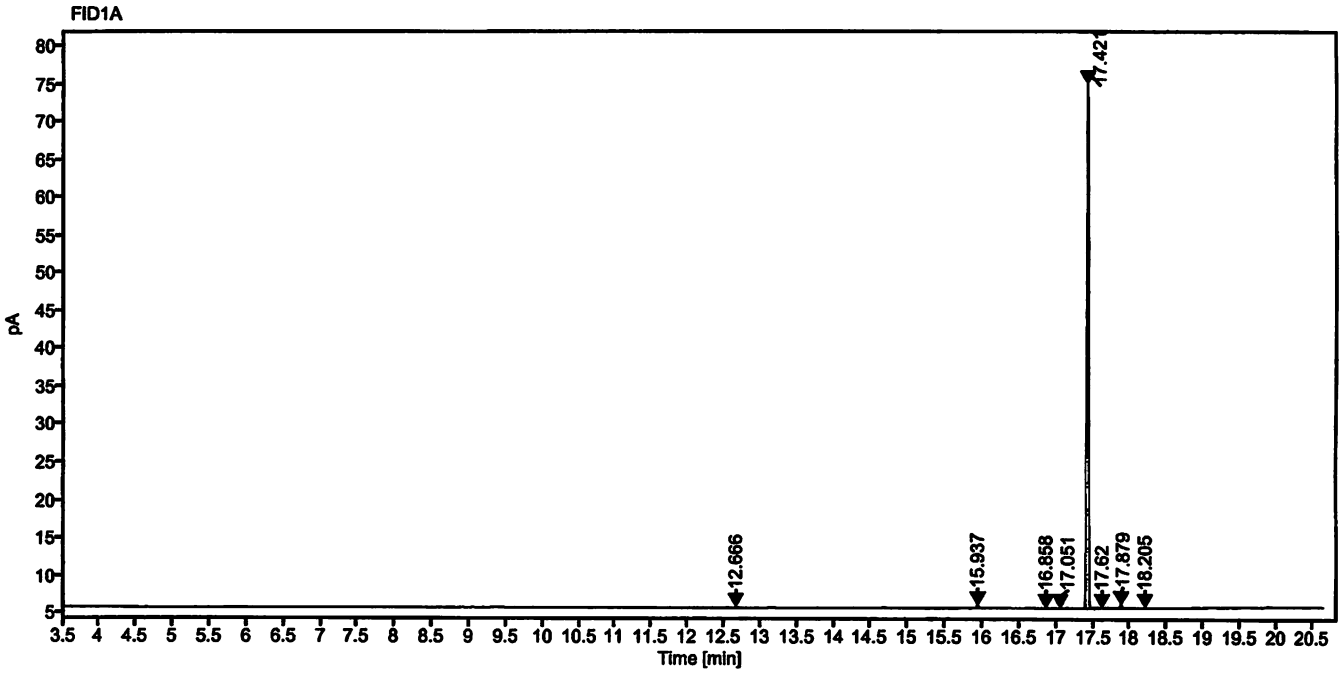
The warranty for this product is limited to the purchasing price of this product.

Data file:	14794500-18-r001.dx	**Instrument:**	FID 2
Sample name:	70623AL 145344	**Sequence Name:**	2017KW25-5a
Inj. volume [µl]:	1.0	**Injection date:**	6/24/2017 3:32:22 AM
Acq. method:	PESK.amx	**Location:**	15

Sample Description MCPB-ethyl ester



Signal: FID1A

Nr.	RT [min]	Area [pA*s]	Height [pA]	Area%	Width [min]
1	12.666	0.30998	0.17	0.31	0.025
2	15.937	0.60628	0.42	0.60	0.083
3	16.858	0.17788	0.12	0.18	0.023
4	17.051	0.12965	0.11	0.13	0.019
5	17.421	98.56516	69.17	97.31	0.146
6	17.620	0.45295	0.10	0.45	0.073
7	17.879	0.88919	0.53	0.88	0.086
8	18.205	0.15830	0.11	0.16	0.024
	Sum	101.29			