

Certificate of Analysis

Dr. Ehrenstorfer



Product Identification

20016000 PCB 160 (2,3,3',4,5,6-Hexachlorobiphenyl)

CA 1,1'-Biphenyl, 2,3,3',4,5,6-Hexachloro-

IUPAC 2,3,3',4,5,6-Hexachlorobiphenyl

Formula C₁₂H₄Cl₆

Mol.Weight 360.88

CAS No. 41411-62-5

Reference Materials for Residue Analysis

Expiry Date 20.06.2022

Lot Number 103421

Store at 20 °C ±4 °C

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

Toxicological Data



R Code 48-53

S Code 60-61

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

Physical Data

Phase crystalline solid

Color colourless

Melt.Range

Vapour pressure N/A at °C

Solubility in water insol. g/l at °C

Boiling Range (lit.)

Analytical Data

Detection: GC/ECD

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

Inj.-Vol.: 0.20 µl

Flow: 1.0 ml/min

Ret.-Time: 14.75 min.

Method Details:

Injector: 320° C

Start Temperature: 120° C for 4 min

End Temperature: 320° C for 5 min

Gradient: 15° C/min

Identity: RT, MS, NMR, EA

Comment Purity was confirmed by external standard method.

Water Content

Determined by Karl-Fischer Titration

Det. Purity 99.0 %

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 $U_c(y) \cdot K$, 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 20.06.2016

by N. Müller

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.

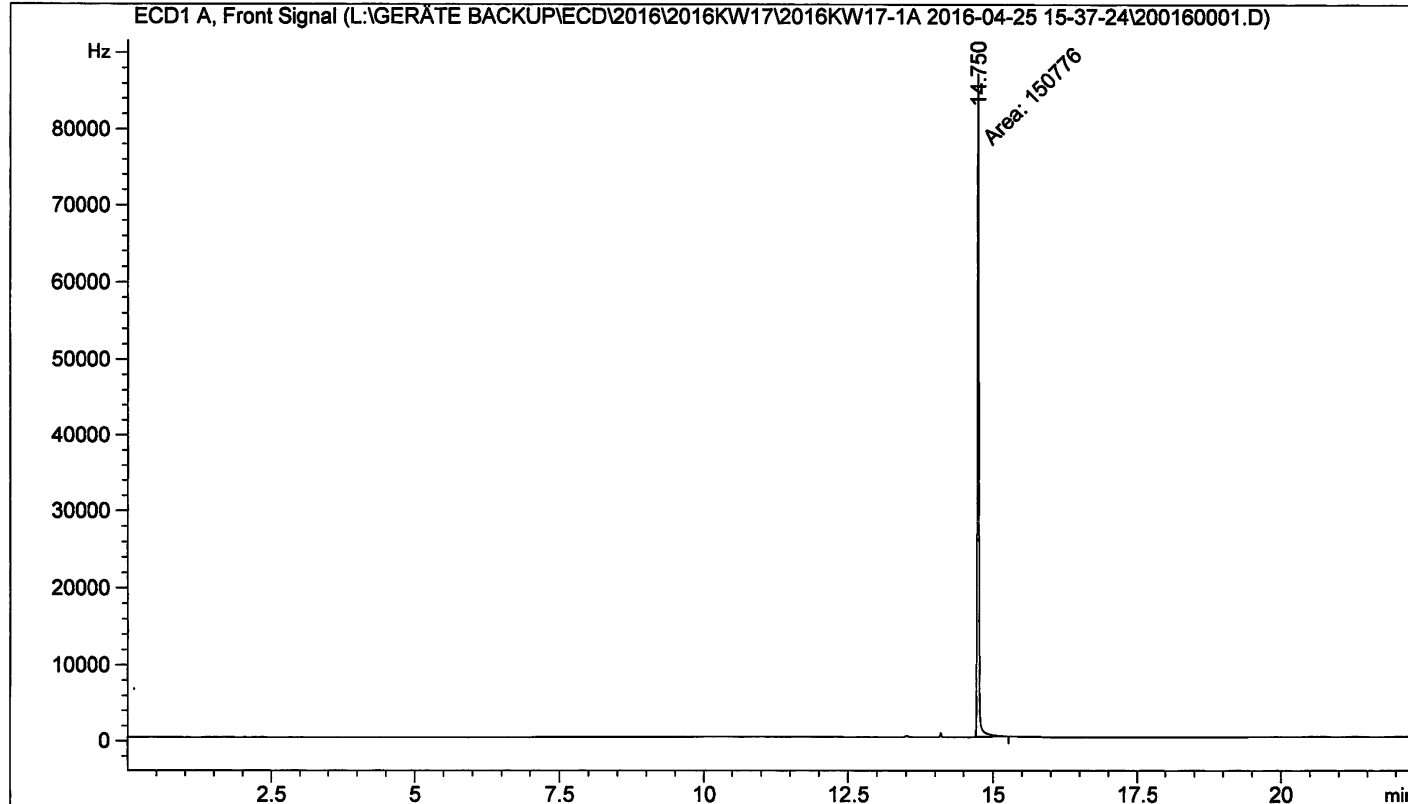
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The warranty for this product is limited to the purchasing price of this product.

*26.04.16
SS*

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Acq. Operator	: ECD	Seq. Line	: 16
Acq. Instrument	: GC-ECD-1	Location	: Vial 75
Injection Date	: 26.04.2016 02:34:24	Inj	: 1
		Inj Volume	: 0.200 µl
Acq. Method	: C:\CHEM32\1\DATA\2016KW17\2016KW17-1A 2016-04-25 15-37-24\PAHK.M		
Last changed	: 16.07.2010 11:46:02 by Dr. Heidrich		
Analysis Method	: L:\GERÄTE BACKUP\ECD\2016\2016KW17\2016KW17-1A 2016-04-25 15-37-24\PAHK.M (Sequence Method)		
Last changed	: 26.04.2016 11:31:44 (modified after loading)		
Method Info	: pahk		
Sample Info	: PCB 160 (2,3,3',4,5,6-Hexachlorobiphenyl)		

Additional Info : Peak(s) manually integrated



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Area Percent Report
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Sorted By : Signal
Multiplier: : 1.0000
Dilution: : 1.0000
Use Multiplier & Dilution Factor with ISTDs

Signal 1: ECD1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	14.750	MM	0.0289	1.50776e5	8.68438e4	100.0000

Totals : 1.50776e5 8.68438e4

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