

Certificate of Analysis

Dr. Ehrenstorfer



Product Identification

20010100 PCB 101 (2,2',4,5,5'-Pentachlorobiphenyl)

CA 1,1'-Biphenyl, 2,2',4,5,5'-Pentachloro-

IUPAC 2,2',4,5,5'-Pentachlorobiphenyl

Formula C₁₂H₅Cl₅

Mol.Weight 326.44

CAS No. 37680-73-2

Reference Materials for Residue Analysis

Expiry Date 29.06.2016

Lot Number 00329

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 75,3 °C

Vapour pressure N/A at °C

Solubility in water insol. 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: 18.27 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: RT

Comment Purity was determined by external standard method.

Water Content 0.0 % Determined by Karl-Fischer Titration

Det. Purity 97.1 % Tolerance/Uncertainty +/- 0.5 %

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 30.06.2010

by Dr. J. Heidrich



REG.NO.: 2074-01

The Laboratory Labor Dr. Ehrenstorfer-Schäfers is accredited by DGA as indicated by the Accreditation Certificate DGA-PL-4536.00 based on DIN EN ISO/IEC 17025:2005 for the weighing of amounts of substances for the preparation of standard solutions.

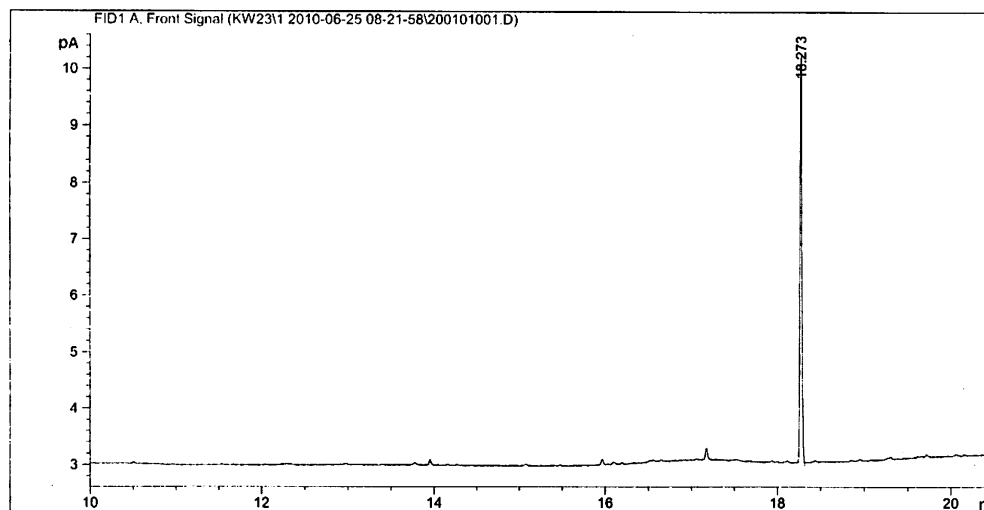
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The warranty for this product is limited to the purchasing price of this product.



DGA-PL-4536.00

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Acq. Operator	: Dr. Heidrich	Seq. Line	: 22
Acq. Instrument	: GCFID2	Location	: Vial 7
Injection Date	: 6/26/2010 21:04:15	Inj	: 1
		Inj Volume	: 1 µl
Acq. Method	: C:\CHEM32\1\DATA\KW23\1 2010-06-25 08-21-58\PESK.M		
Last changed	: 5/4/2010 16:23:39 by Dr. Heidrich		
Analysis Method	: C:\CHEM32\1\METHODS\PESK.M		
Last changed	: 6/28/2010 11:36:40 by Dr. Heidrich		
	(modified after loading)		
Method Info	: pesk		
Sample Info	: PCB No. 101		



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Area Percent Report
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Sorted By : Signal
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Signal 1: FID1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [pA*s]	Height [pA]	Area %
1	18.273	BB	0.0241	11.10399	7.15766	1.000e2

Totals : 11.10399 7.15766

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*** End of Report ***
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