

Certificate of Analysis

Dr. Ehrenstorfer

Reference Materials for
Residue Analysis

Product Identification

20011400 PCB 114 (2,3,4,4',5-Pentachlorobiphenyl)

CA 1,1'-Biphenyl, 2,3,4,4',5-Pentachloro-

IUPAC 2,3,4,4',5-Pentachlorobiphenyl

Formula C₁₂H₅Cl₅

Mol.Weight 326.44

CAS No. 74472-37-0

Expiry Date 15.10.2018

Lot Number 11130

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 NA 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: 0.2 ml/min

Ret.-Time: 15.22 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

Comment purity was confirmed by external standard method

Water Content

Determined by Karl-Fischer Titration

Det. Purity 99.0 %

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 15.10.2012

by P. Feuerriegel



REG-NO: 2374-01

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.

Labor Dr. Ehrenstorfer-Schäfers · Bgm.-Schlosser-Str. 6 A · 86199 Augsburg · Germany
Phone +49 821 906080 Fax +49 821 9060888 info@analytical-standards.com
The warranty for this product is limited to the purchasing price of this product.



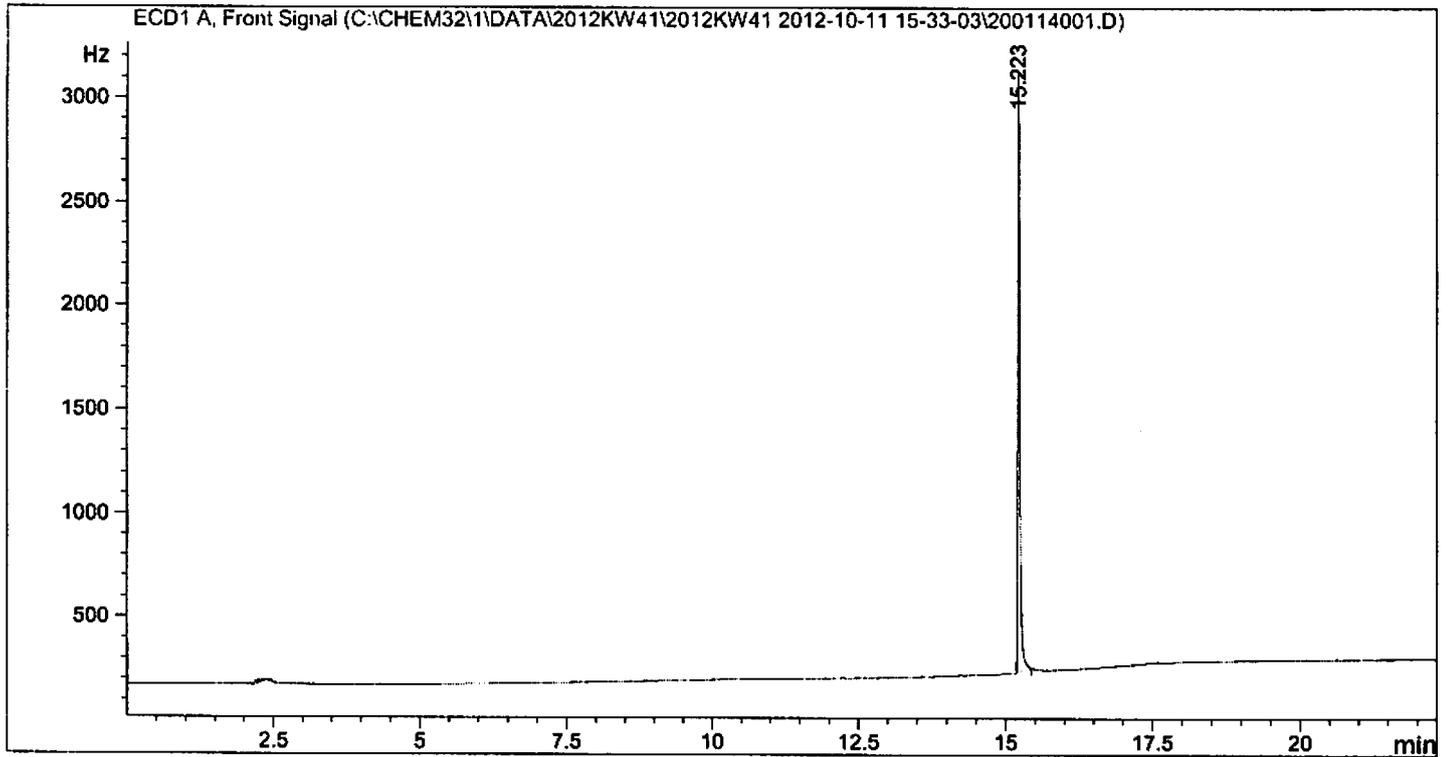
Sample Name: 20907IO 11130

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Acq. Operator   : Dr. Heidrich           Seq. Line :    1
Acq. Instrument : AgilentECD2           Location  : Vial 51
Injection Date  : 10/11/2012 3:45:28 PM Inj       :    1
                                           Inj Volume: 0.200 µl
Acq. Method    : C:\CHEM32\1\DATA\2012KW41\2012KW41 2012-10-11 15-33-03\PAHK.M
Last changed   : 7/16/2010 11:46:02 AM by Dr. Heidrich
Analysis Method: C:\CHEM32\1\DATA\2012KW41\2012KW41 2012-10-10 12-41-54\PAHK.M
Last changed   : 7/16/2010 11:46:02 AM by Dr. Heidrich
Method Info    : pahk
    
```

UHe
12.10.12

Sample Info : PCB No. 114



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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
    
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Signal 1: ECD1 A, Front Signal

Peak #	RetTime [min]	Type	Width [min]	Area [Hz*s]	Height [Hz]	Area %
1	15.223	BB	0.0354	6645.66846	2833.54858	100.0000
Totals :				6645.66846	2833.54858	

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