

# Certificate of Analysis

Dr. Ehrenstorfer



## Product Identification

20015600 PCB 156 (2,3,3',4,4',5-Hexachlorobiphenyl)

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

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

Formula C<sub>12</sub>H<sub>4</sub>Cl<sub>6</sub>

Mol.Weight 360.88

CAS No. 38380-08-4

## Reference Materials for Residue Analysis

Expiry Date 25.04.2019

Lot Number 10314

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: 0.2 ml/min

Ret.-Time: 16.16 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  $Uc(y) \cdot K$ , 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 25.04.2013

by P. Feuerriegel



REF.NO: 7174-01

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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\*\*\* End of Report \*\*\*