

Certificate of Analysis

Dr. Ehrenstorfer



Product Identification

20018900 PCB 189 (2,3,3',4,4',5,5'-Heptachlorobiphenyl)

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

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

Formula C₁₂H₃Cl₇

Mol.Weight 395.33

CAS No. 39635-31-9

Reference Materials for Residue Analysis

Expiry Date 23.12.2022

Lot Number 123325

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 162,5°C °C

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: 16.84 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: IR, RT, MS

Comment

Water Content 0.0 % Determined by Karl-Fischer Titration

Det. Purity 99.3 % 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 23.12.2016

by M. Beck

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.

LGC Labor GmbH · Bgm.-Schlosser-Str. 6 A · 86199 Augsburg · Germany
Phone +49 821 906080 · Fax +49 821 9060888 · augsburg.inquiry@lgcgroup.com
The warranty for this product is limited to the purchasing price of this product.

