

# Certificate of Analysis



## Product Identification

20016400 PCB No. 164

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

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

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

Mol.Weight 360.88

CAS No. 74472-45-0

Expiry Date 21.11.2024

Lot Number 988104

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

Vapour pressure N/A at °C

Color colourless

Solubility in water insol. g/l at °C

Melt.Range

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: 30.48 min.

Method Details:

Injector: 320° C

Start Temperature: 120° C for 4 min

End Temperature: 320° C for 8 min

Gradient: 5° C/min

Identity: MS, RT

Comment Purity w as determined by chromatographic assay.

Water Content Determined by Karl-Fischer Titration

Det. Purity 99.6 % 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  $Uc(y) \cdot K$ , 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 21.11.2018

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.

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

21.11.18  
SSG

Data file: 20016400-02-r001.dx

Instrument: FID 4

Sample name: 81119CY 988104

Sequence Name: 2018KW47-1120b

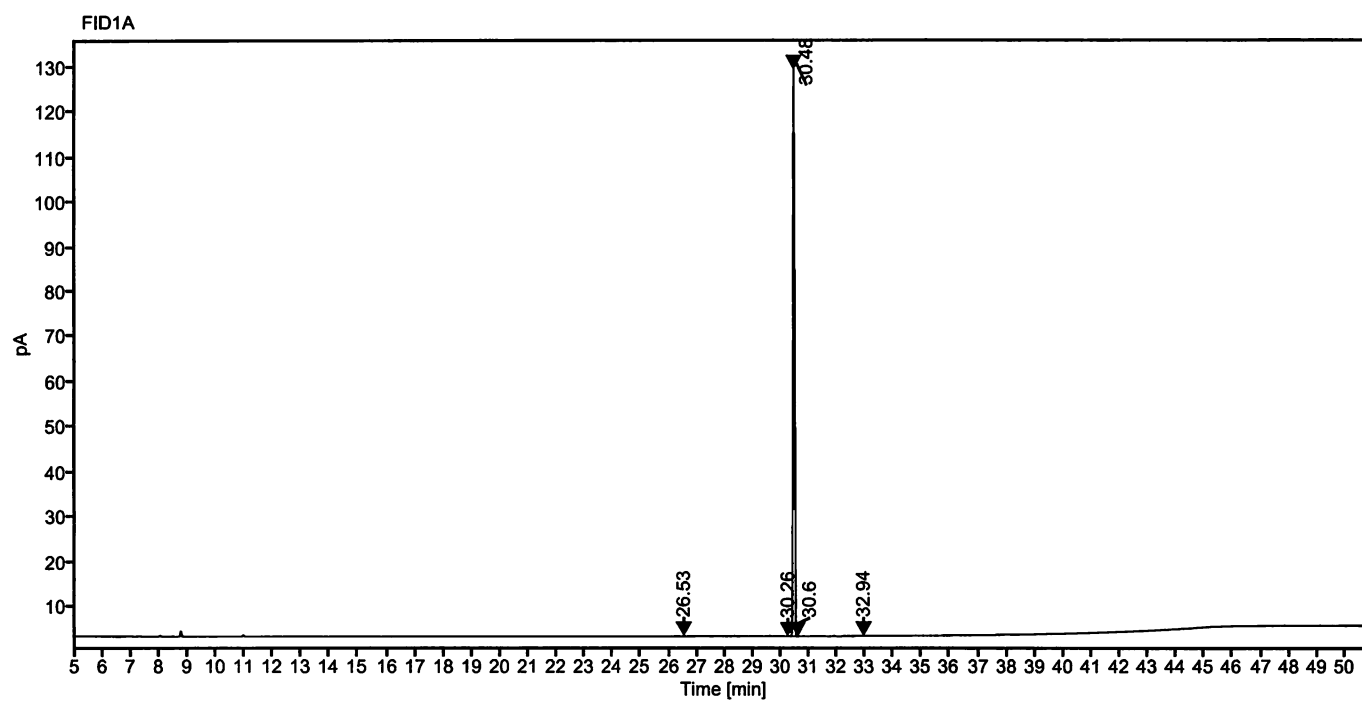
Inj. volume [ $\mu$ l]: 1.0

Injection date: 11/20/2018 5:57:14 PM

Acq. method: pah.amx

Location: 51

Sample Description PCB No. 164



Signal: FID1A

Nr.	RT [min]	Area [pA*s]	Height [pA]	Area%	Width [min]
1	26.53	0.79406	0.23	0.18	0.166
2	30.26	0.11086	0.03	0.02	0.047
3	30.48	450.02038	126.17	99.62	0.236
4	30.60	0.26469	0.09	0.06	0.037
5	32.94	0.55502	0.16	0.12	0.042
	Sum	451.75			