

# Gravimetric Certificate



## Product Identification

20007700 PCB 77 (3,3',4,4'-Tetrachlorobiphenyl)  
Formula C12H6Cl4  
Mol.Weight 291.99  
CAS No. 32598-13-3

Expiry Date 11.01.2023  
Lot Number 167198IO  
Store at 20°C in the dark

Please note: The expiry date is valid under recommended storage conditions only.

Gravimetric Data		Conc. (mg/l)	Purity %	Weight (mg)
Product Name PCB 77 (3,3',4,4'-Tetrachlorobiphenyl)		10.000	99.8	16.032
Solvent Information		Exact Quantity (ml)		
Solvent Iso-Octane	Lot No. H207010	1600.00		
Traceability Data				
20007700 108585	neat product			
20007700 167198IO	10.000 mg/l			
Analytical Data		Method Details:		
Detection: GC/ECD		Injector: 320° C		
Column: DB-5, 30 m, ID 0.25 mm		Start Temperature: 120° C for 4 min		
Inj.-Vol.: 1.00 µl		End Temperature: 320° C for 5 min		
Flow: 1.0 ml/min		Gradient: 15° C/min		
Ret.-Time: 14.67 min.				
Identity check RT				
Comment				
The uncertainty/tolerance of this standard is +/- 2.0 %, 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 $Uc(y)*K$ , 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 11.01.2018

by M. Beck

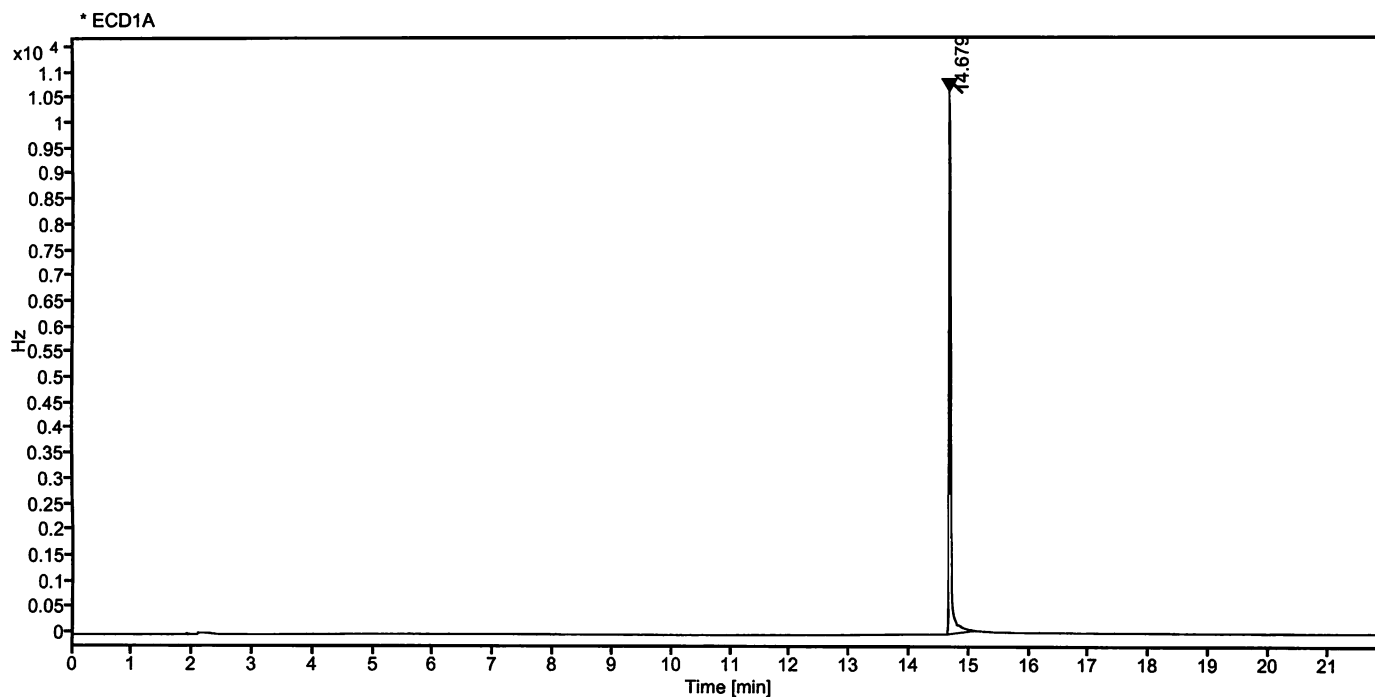
The Laboratory LGC Labor GmbH is accredited by DAkkS as indicated by the Accreditation Number D-RM-19883-01 & D-PL-19883-01 has shown competence based on ISO Guide 34:2009 with relevant parts of DIN EN ISO/IEC 17025:2005 for production of certified reference materials in form of organic pure substances 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.

2018KW02-3a

Data file: 20007700-02-r001.dx Instrument: ECD  
Sample name: 167198IO Sequence Name: 2018KW02-3a  
Inj. volume [µl]: 1.0 Injection date: 1/10/2018 3:57:16 PM  
Acq. method: PAHK.amx Location: 11

Sample Description PCB 77 (3,3',4,4'-Tetrachlorobiphenyl)



Signal: \* ECD1A

Nr.	RT [min]	Area [Hz*s]	Height [Hz]	Area%	Width [min]
1	14.679	21064.92315	10613.53	100.00	0.029
	Sum	21064.92			

*A. Beck*