

DIN EN ISO 17034 certified reference material CERTIFICATE OF ANALYSIS

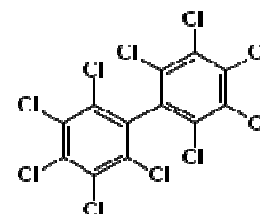
Date of issue: 13.08.2021

Version: 01

Cat.-No.:	15100-0560R-100CY5	Volume :	5 ml
Product Name :	PCB 209	Expiry date :	02/2024 ²
CAS-No.:	2051-24-3	Storage :	20°C and dark
Spezifikation :	100 µg/ml	Lot-No.:	28589
Concentration :	100,1 µg/ml ±2,5 µg/ml ¹	Filling-Lot:	
Solvent :	Cyclohexane		

only for information purposes

Component	certified concentration and uncertainty after to ISO Guide 35	CAS	Formula	M [g/Mol]
1. PCB 209	100,1 µg/ml ±2,5 µg/ml ¹	2051-24-3	C ₁₂ Cl ₁₀	498,66



This Reference Material was processed under Neochema's DIN EN ISO 17034 accredited manufacturing field and ISO 9001 registered quality system. Exclusively certificated and chromatographic tested substances were used to produce this standard. The concentration was determined gravimetrically and verified by liquid chromatographic analysis with mass spectrometric detection. A certification report (german) may be requested.

This Reference Material is intended as working reference sample for identification of the contained compounds and their quantification in methods of analysis in residue or environmental analysis.

Traceability has been established through an unbroken chain of comparisons, each having stated uncertainties. Comparisons are based on convenient physical or chemical measurements, including gravimetric or volumetric dilution. The balances used for these measurements are calibrated by an accredited calibration service, which realize the units of measurement according to the International System of Units (SI).

The material is homogeneous. There is no minimum sub-sample required.

Sample aliquots for analysis should be withdrawn at roomtemperature and should be processed without delay for the certified values to persist. For safety information see material safety data sheet.

¹) Expanded Uncertainty according to EURACHEM / CITAC „Quantifying Uncertainty in Analytical Measurement“ and ISO Guide 35 with a confidence level for normal distribution of 95 % (coverage factor k=2).

²) The certification of this reference material is valid, within the stated uncertainty, until the above specified expiration date, assumed the reference material is handled and stored professional and in accordance with the instructions given in this certificate in unopened original container. The long term stability may be monitored over the lifetime of the certification according to an in-house procedure. If substantive changes are determined that effect the certification before the expiration of this certificate, Neochema GmbH will notify the purchaser.

Dipl.-Chem. R. Bender (deputy technical director)

R. Bender

DIN EN ISO 17034 certified reference material CERTIFICATE OF ANALYSIS

Date of issue: 13.08.2021

Version: 01

Cat.-No.: 15100-0560R-100IO1

Product Name : PCB 209

Volume : 5 ml

CAS-No.: 2051-24-3

Expiry date : 08/2024 ²

Spezifikation : 100 µg/ml

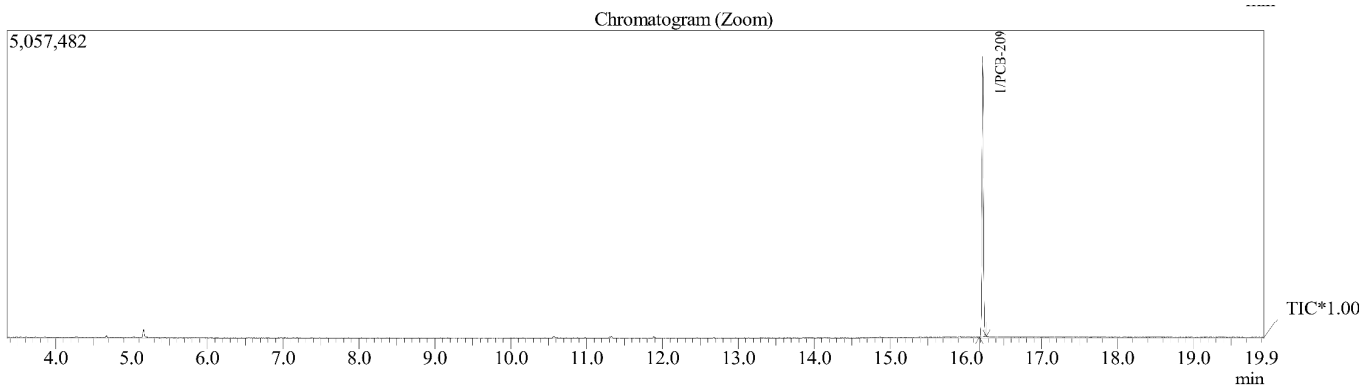
Storage : 20°C and dark

Concentration : 100,1 µg/ml ±2,5 µg/ml ¹

Lot-No.: 28589

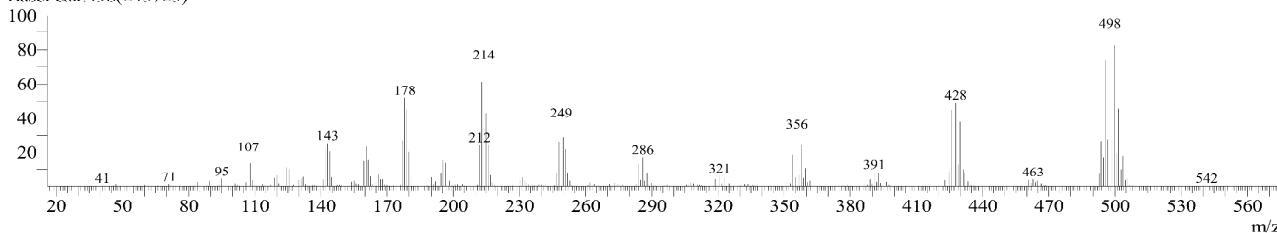
Solvent : Cyclohexane

Filling-Lot:



Peak#:1 R.Time:16.226(Scan#:8056)

BasePeak:498(245725)



Peak Report TIC

Peak#	R.Time	Area	Area%	Height	Height%	A/H	Mark	Name	Base m/z
1	16.226	6251325	100.00	4528080	100.00	1.38		PCB-209	497.65
		6251325	100.00	4528080	100.00				

Dr. S. Selke (analytical director)