Certificate of Analysis

NEOCHEMA

Issue Date: 13.02.2026

STD-No.: AKA-008-1000ME1,5C
Product name: VOC/Aromatic - Mix 21
Concentration: each 1000 µg/ml
Solvent: Methanol

Volume: 1,5 ml (Certan®)
Lot-No.: 56486-001
Expiry date: 08/2027[1]
Storage: 4 °C ±5°C and dark

only for information purposes

	Component	Conc. µg/ml	Purity	CAS	Formula	M [g/Mol]
1	Bromodichloromethane	1000 ±3,5 %[2]	98,2 %[3]	75-27-4	CHBrCl2	163,82
2	Chlorodibromomethane	1000 ±3,5 %[2]	99,1 %[3]	124-48-1	CHBr2Cl	208,27
3	1,2-Dichlorobenzene	1000 ±3,5 %[2]	99,9 %[3]	95-50-1	C6H4Cl2	147,00
4	1,3-Dichlorobenzene	1000 ±3,5 %[2]	99,4 %[3]	541-73-1	C6H4Cl2	147,00
5	1,4-Dichlorobenzene	1000 ±3,5 %[2]	99,8 %[3]	106-46-7	C6H4Cl2	147,00
6	1,1-Dichloroethane	1000 ±3,5 %[2]	99,7 %[3]	75-34-3	C2H4Cl2	98,95
7	1,2-Dichloroethane	1000 ±3,5 %[2]	99,9 %[3]	107-06-2	C2H4Cl2	98,95
8	1,1-Dichloroethylene	1000 ±3,5 %[2]	99,9 %[3]	75-35-4	C2H2Cl2	96,94
9	Dichloromethane	1000 ±3,5 %[2]	99,9 %[3]	75-09-2	CH2Cl2	84,93
10	cis-1,2-Dichloroethylene	1000 ±3,5 %[2]	98,3 %[3]	156-59-2	C2H2Cl2	96,94
11	trans-1,2-Dichloroethylene	1000 ±3,5 %[2]	99,9 %[3]	156-60-5	C2H2Cl2	96,94
12	Chlorobenzene	1000 ±3,5 %[2]	99,9 %[3]	108-90-7	C6H5Cl	112,55
13	Tetrachloromethane	1000 ±3,5 %[2]	99,9 %[3]	56-23-5	CCl4	153,82
14	Tetrachloroethylene	1000 ±3,5 %[2]	99,9 %[3]	127-18-4	C2Cl4	165,83
15	Bromoform	1000 ±3,5 %[2]	98,9 %[3]	75-25-2	CHBr3	252,73
16	1,1,1,2-Tetrachloroethane	1000 ±3,5 %[2]	98,7 %[3]	630-20-6	C2H2Cl4	167,84
17	Trichloroethylene	1000 ±3,5 %[2]	99,8 %[3]	79-01-6	C2HCl3	131,38
18	1,1,1-Trichloroethane	1000 ±3,5 %[2]	99,8 %[3]	71-55-6	C2H3Cl3	133,40
19	1,1,2-Trichloroethane	1000 ±3,5 %[2]	99,3 %[3]	79-00-5	C2H3Cl3	133,40
20	Chloroform	1000 ±3,5 %[2]	99,2 %[3]	67-66-3	CHCl3	119,37
21	1,1,2,2-Tetrachloroethane	1000 ±3,5 %[2]	99,4 %[3]	79-34-5	C2H2Cl4	167,84

The production was coordinated by:

Dipl.-Ing. A. Werner (Technical Manager)

This document was produced electronically and is valid without a signature.

This Reference Material was processed under NEOCHEMA's ISO 9001:2015 registered quality system and has been manufactured in accordance with ISO/TR 33402 'Good practice in reference material preparation'.

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 to the International System of Units (SI) 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.

The homogenity is determined according to an in-house procedure. 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.

[1] The certification of this reference material is valid within the stated uncertainty until the above specified expiration date assumed the reference material is stored in the originally closed flask in accordance with the instructions given in this certificate. Once the packing has been openend, in the event of improper use no warranty can be given for the certificated values until the expiry date has been reached. 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.

[2] Expanded Uncertainty according to EURACHEM / CITAC „Quantifying Uncertainty in Analytical Measurement" with coverage factor k=2 for a conifdence level of 95 %.

[3] Stated purity of the neat material is considered in the production of the solution.

NEOCHEMA GmbH produces reference materials according to ISO 17034. For further informathion, check here:

NEOCHEMA GmbH
Uwe-Zeidler-Ring 10 · 55294 Bodenheim · Germany
✆ +49 6135 933199 0 🖷 +49 6135 933199 19
info@neochema.com · www.neochema.com