# Certificate of Analysis

NEOCHEMA

Issue Date: 07.05.2026

**STD-No.:** AKA-106-500CS5
**Product name:** VOC - Mix 26
**Concentration:** each 500 µg/ml
**Solvent:** Carbon disulfide (CS2)
(contains Methanol)

**Volume:** 5 ml
**Lot-No.:** 57936-008
**Expiry date:** 11/2027[1]
**Storage:** 4 °C ±5°C and dark

only for information purposes

| | Component | Conc. µg/ml | Purity | CAS | Formula | M [g/Mol] |
|---|---|---|---|---|---|---|
| 1 | 1,1,1,2-Tetrachloroethane | 500 ±3,5 %[2] | 98,7 %[3] | 630-20-6 | C2H2Cl4 | 167,84 |
| 2 | 1,1,1-Trichloroethane | 500 ±3,5 %[2] | 99,8 %[3] | 71-55-6 | C2H3Cl3 | 133,40 |
| 3 | 1,1,2,2-Tetrachloroethane | 500 ±3,5 %[2] | 99,4 %[3] | 79-34-5 | C2H2Cl4 | 167,84 |
| 4 | 1,1,2-Trichloroethane | 500 ±3,5 %[2] | 99,3 %[3] | 79-00-5 | C2H3Cl3 | 133,40 |
| 5 | 1,1-Dichloro-1-propene | 500 ±3,5 %[2] | 97,4 %[3] | 563-58-6 | C3H4Cl2 | 110,97 |
| 6 | 1,1-Dichloroethane | 500 ±3,5 %[2] | 99,7 %[3] | 75-34-3 | C2H4Cl2 | 98,95 |
| 7 | 1,2,3-Trichlorobenzene | 500 ±3,5 %[2] | 99,9 %[3] | 87-61-6 | C6H3Cl3 | 181,44 |
| 8 | 1,2,3-Trichloropropane | 500 ±3,5 %[2] | 99,9 %[3] | 96-18-4 | C3H5Cl3 | 147,43 |
| 9 | 1,2,4-Trichlorobenzene | 500 ±3,5 %[2] | 99,8 %[3] | 120-82-1 | C6H3Cl3 | 181,44 |
| 10 | 1,2-Dichloroethane | 500 ±3,5 %[2] | 99,9 %[3] | 107-06-2 | C2H4Cl2 | 98,95 |
| 11 | 1,2-Dichloropropane | 500 ±3,5 %[2] | 99,0 %[3] | 78-87-5 | C3H6Cl2 | 112,98 |
| 12 | 1,3,5-Trichlorobenzene | 500 ±3,5 %[2] | 99,9 %[3] | 108-70-3 | C6H3Cl3 | 181,44 |
| 13 | 1,3-Dichloropropane | 500 ±3,5 %[2] | 99,9 %[3] | 142-28-9 | C3H6Cl2 | 112,98 |
| 14 | 2,2-Dichloropropane | 500 ±3,5 %[2] | 98,1 %[3] | 594-20-7 | C3H6Cl2 | 112,98 |
| 15 | Bromoform | 500 ±3,5 %[2] | 98,9 %[3] | 75-25-2 | CHBr3 | 252,73 |
| 16 | Chloroform | 500 ±3,5 %[2] | 99,2 %[3] | 67-66-3 | CHCl3 | 119,37 |
| 17 | cis-1,2-Dichloroethylene | 500 ±3,5 %[2] | 98,3 %[3] | 156-59-2 | C2H2Cl2 | 96,94 |
| 18 | Dichloromethane | 500 ±3,5 %[2] | 99,9 %[3] | 75-09-2 | CH2Cl2 | 84,93 |
| 19 | E-1,3-Dichloropropene | 500 ±3,5 %[2] | 99,0 %[3] | 10061-02-6 | C3H4Cl2 | 110,97 |
| 20 | Hexachloro-1,3-butadiene | 500 ±3,5 %[2] | 97,2 %[3] | 87-68-3 | C4Cl6 | 260,76 |
| 21 | tert.-Butyl-ethylether (ETBE) | 500 ±3,5 %[2] | 99,6 %[3] | 637-92-3 | C6H14O | 102,17 |
| 22 | Tetrachloroethylene | 500 ±3,5 %[2] | 99,9 %[3] | 127-18-4 | C2Cl4 | 165,83 |
| 23 | Tetrachloromethane | 500 ±3,5 %[2] | 99,9 %[3] | 56-23-5 | CCl4 | 153,82 |
| 24 | trans-1,2-Dichloroethylene | 500 ±3,5 %[2] | 99,9 %[3] | 156-60-5 | C2H2Cl2 | 96,94 |
| 25 | Trichloroethylene | 500 ±3,5 %[2] | 99,8 %[3] | 79-01-6 | C2HCl3 | 131,38 |
| 26 | Z-1,3-Dichloropropene | 500 ±3,5 %[2] | 99,5 %[3] | 10061-01-5 | C3H4Cl2 | 110,97 |



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# Certificate of Analysis

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Issue Date: 07.05.2026

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|---|---|---|---|
| **STD-No.:** | **AKA-106-500CS5** | **Volume:** | 5 ml |
| **Product name:** | VOC - Mix 26 | **Lot-No.:** | 57936-008 |
| **Concentration:** | each 500 µg/ml | **Expiry date:** | 11/2027[1] |
| **Solvent:** | Carbon disulfide (CS2) (contains Methanol) | **Storage:** | 4 °C ±5°C and dark |

only for information purposes

| Component | Conc. µg/ml | Purity | CAS | Formula | M [g/Mol] |
|---|---|---|---|---|---|

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:



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