Certificate of Analysis

CERTIFIED REFERENCE MATERIAL
Organic substance

Ref No: CM 30616 **Lot No:** 1054192 **Certification Date:** 28.10.2024
Barcode: 41570036 **Expiry date:** 28.11.2026

Description: Bromodichloromethane
CAS No: 75-27-4 Empirical formula: $CHBrCl_2$ MW: 163.829

Certified Purity / Uncertainty: 0.9870 +/- 0.0010 g/g (98.70 +/- 0.10 %)
Purity=100% - Assay organic impurities

Storage Conditions: Store in a refrigerator at temperatures between 2°C to 8°C

Method of certification:	Concept of Certification and traceability statement:	Intended use:	Instructions for the correct use of this reference material:	Stability and storage:	Level of homogeneity:
CRM's calibration procedure (WQP 5.15.1/22)	The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k = 2, which for a normal distribution corresponds to a coverage probability of approximately 95%. The standard uncertainty of measurement has been determined in accordance with EA 4/02. Metrological traceability is established through in-house validated method. The measurement results are traceable to SI.	**For Laboratory Use Only.** This CRM is intended for: Calibration of TLC, GC/FID, GC/TCD, GC/ECD, GC/MS, GC/MS/MS, LC/UV, LC/MS and LC/MS/MS. Validation of analytical methods. Preparation of "working reference samples". Detection limit and linearity studies. This statement is not intended to restrict the use for other purposes.	This CRM can be used directly or can be diluted in an appropriate solvent. Only a clean glassware should be used. **Hazardous situation:** The normal laboratory safety precautions should be observed when working with this CRM. Further details for the handling of this chemical are available as safety data sheet.	This CRM is with a guaranteed purity +/- 2% deviation prior to the expiration date. Stability is guaranteed, provided that the material is kept in its original packaging, tightly closed stored, as written in the section: Storage Conditions.	The material was tested for homogeneity by analyzing randomly selected samples according to an in-house procedure. The level of homogeneity proved satisfactory for a sample volume of min. 2 mg. The uncertainty incorporates the sample standard deviation combined with the uncertainty calculated from homogeneity and stability studies.

This certificate relates solely to the lot number given above.

All processes (including generating of this certificate) are completely controlled by the specialized Computer-Aided-Manufacturing (CAM) software.

This Certified Reference Material was produced under a quality management system that is:
- Registered to ISO 9001 Quality Management System (Lloyd's Register Quality Assurance Ltd Cert No 0039638)
- Accredited according to ISO/IEC 17025
- Accredited according to ISO 17034

This document is designed and the certified value and uncertainty are determined in accordance with ISO 33401, ISO 33405,and Eurachem / CITAC Guides

Names of certifying officers:

Laboratory: Margarita Dimitrova Manager: Krassimira Taralova

Analytical Data:

GC-Conditions

Carier gas:	He, constant flow	Oven	Temperature	Hold
Column:	Agilent CP9105 J&W VF-624ms 60m, 0.32mm, 1.80µm	Initial	70°C	0
Flow rate:	1.6 ml/min	10°C/min	120°C	0
Injection volume:	1µl split	5°C/min	160°C	0
Injector:	220 °C	30°C/min	220°C	3

MS Conditions

Ionization mode:	EI
MS Quad:	150°C
MS Source:	230°C
Mode:	Scan
Transfer line:	230°C

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Area Percent Report

Data Path : C:\DATA\2024\07.2024\
Data File : Bromodichloromethane-41570036-41570050-s2.D
Acq On : 8 Jul 2024 14:23
Operator : MD
Sample : Bromodichloromethane-41570036-41570050-s2
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration Parameters: autoint1.e
Integrator: ChemStation

Method : C:\METHODS\Quant\1019406.M
Title :

Signal : TIC: Bromodichloromethane-41570036-41570050-s2.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.836	301	314	327	M	32834	743119	0.14%	0.143%
2	6.148	381	399	421	M3	21939	593614	0.12%	0.114%
3	7.364	698	728	772	M	16497839	512818697	100.00%	98.699%
4	7.655	794	807	827	M5	27189	748369	0.15%	0.144%
5	8.004	883	902	926	M3	133057	3717445	0.72%	0.715%
6	9.353	1252	1268	1285	M4	25315	694616	0.14%	0.134%
7	10.430	1531	1560	1580	M4	7734	263809	0.05%	0.051%

Sum of corrected areas: 519579670

1019406.M Mon Jul 08 15:27:52 2024