Certificate Of Analysis

VOLATILES CRM - 54 COMP.

Catalog Number: C-349H
Lot Number: NSI251120103
Manufactured Date: 11/20/2025
Expiration: 11/20/2032
Solvent: P&T Methanol
Hazards: Flammable, Carcinogenic, Irritant, Toxic

Analyte	CAS	Analyte Purity	Certified Concentration (µg/mL)		Uncertainty
1,1,2,2-Tetrachloroethane	79-34-5	98%	2000	±	14
1,1,2-Trichloroethane	79-00-5	98%	2000	±	14
1,1-Dichloroethane	75-34-3	95%	2000	±	14
1,1-Dichloroethylene	75-35-4	99%	2000	±	14
1,2-Dichlorobenzene	95-50-1	99%	2000	±	14
1,2-Dichloroethane	107-06-2	99.8%	2000	±	14
1,2-Dichloropropane	78-87-5	99%	2000	±	14
1,3-Dichlorobenzene	541-73-1	98%	2000	±	14
1,4-Dichlorobenzene	106-46-7	99%	2000	±	14
Dichlorobromomethane	75-27-4	98%	2000	±	14
Bromoform	75-25-2	96%	2000	±	14
Carbon tetrachloride	56-23-5	100%	2000	±	14
Chlorobenzene	108-90-7	99.9%	2000	±	14
Chloroform	67-66-3	100%	2000	±	14
cis-1,3-Dichloropropylene	10061-01-5	98%	2000	±	14
Chlorodibromomethane	124-48-1	98%	2000	±	14
Dichloromethane	75-09-2	99.9%	2000	±	14
Tetrachloroethylene	127-18-4	99%	2000	±	14
trans-1,2-Dichloroethylene	156-60-5	98%	2000	±	14
trans-1,3-Dichloropropylene	10061-02-6	96%	2000	±	14
Trichloroethylene	79-01-6	99%	2000	±	14

Styrene	100-42-5	99%	2000	±	14
1,1,1,2-Tetrachloroethane	630-20-6	99%	2000	±	14
1,1-Dichloro-1-propene	563-58-6	99.6%	2000	±	14
1,2,3-Trichlorobenzene	87-61-6	99%	2000	±	14
1,2,3-Trichloropropane	96-18-4	99%	2000	±	14
1,2,4-Trichlorobenzene	120-82-1	99%	2000	±	14
1,2,4-Trimethylbenzene	95-63-6	98%	2000	±	14
1,2-Dibromo-3-chloropropane	96-12-8	98%	2000	±	14
1,2-Dibromoethane	106-93-4	99%	2000	±	14
1,3,5-Trimethylbenzene	108-67-8	98%	2000	±	14
1,3-Dichloropropane	142-28-9	99.6%	2000	±	14
2,2-Dichloropropane	594-20-7	98%	2000	±	14
2-Chlorotoluene	95-49-8	99%	2000	±	14
4-Chlorotoluene	106-43-4	98%	2000	±	14
4-Isopropyltoluene	99-87-6	99%	2000	±	14
Benzene	71-43-2	99.9%	2000	±	14
Bromobenzene	108-86-1	99%	2000	±	14
Bromochloromethane	74-97-5	99%	2000	±	14
cis-1,2-Dichloroethylene	156-59-2	99%	2000	±	14
Dibromomethane	74-95-3	99%	2000	±	14
Ethylbenzene	100-41-4	99.8%	2000	±	14
Hexachlorobutadiene	87-68-3	97%	2000	±	14
Isopropylbenzene (Cumene)	98-82-8	98%	2000	±	14
m-Xylene	108-38-3	99%	2000	±	14
Naphthalene	91-20-3	99%	2000	±	14
n-Butylbenzene	104-51-8	99%	2000	±	14
Propylbenzene	103-65-1	98%	2000	±	14
o-Xylene	95-47-6	98%	2000	±	14
p-Xylene	106-42-3	99%	2000	±	14
sec-Butylbenzene	135-98-8	99%	2000	±	14
tert-Butylbenzene	98-06-6	99%	2000	±	14
Toluene	108-88-3	99.8%	2000	±	14
1,1,1-Trichloroethane	71-55-6	99.5%	2000	±	14

This certified reference material (CRM) was manufactured and certified by NSI Lab Solutions (www.nsilabsolutions.com, www.zeptometrix.com) according to quality procedures meeting our accreditation requirements of ISO/IEC 17034:2016 and ISO/IEC 17025:2017. Our certificates and scopes of accreditation may be viewed at www.anab.org.

Packaging, Storage, Instructions For Use

This CRM is packaged in a flame-sealed ampule and must be stored at -10°C to -20°C. To use this CRM, allow it to reach room temperature. Mix it gently by inversion. Inspect for precipitate. If present, sonicate for a few minutes to redissolve. Open the ampule and withdraw an aliquot appropriate for your application.

Traceability Information

Analyte Source Materials: The highest purity analyte source materials are used in the manufacture of this standard. The actual purity is referenced above.

Method: This CRM was verified Volumetrically and Analytically

Balance: All analytical balances are calibrated on a semiannual basis by an ISO/IEC 17025 accredited calibration laboratory and are traceable to NIST. Traceable Calibration Certificate available upon request.

All balances are checked daily by an in-house standard operating procedure. The weights used for this daily verification are calibrated annually by an ISO/IEC 17025 accredited calibration laboratory and are certified traceable to NIST. Certificate of Calibration and Traceability available upon request.

Thermometer: All thermometers are NIST traceable through thermometers that are calibrated annually by an ISO 17025 accredited calibration laboratory.

Glassware: All glassware used in the manufacture of our standards is Class A. An in-house standard operating procedure is used to verify all glassware prior to it being placed into service. Volumetric pipetors are calibrated every four months by an ISO/IEC 17025 accredited calibration laboratory.

Certified Concentration: Certified concentration is the made to manufacture value corrected for the determined analyte purity.

Intended Uses

- Calibration of analytical instruments
- Validation of analytical methods
- Preparation of working level reference materials, i.e. "check standards"
- Detection limit studies

Homogeneity

This CRM was thoroughly mixed in production and is guaranteed homogenous.

Ken Grzybowski — Ken Grzybowski, Operations Manager

Hunter Fazler — Hunter Fazler, Quality Lead

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER ISO 17034:2016 Certificate # AR-1571