

**Product Name:** Custom Standard

**Product Number:** CUS-24037

**Lot Issue Date:** 09-Dec-2019

**Lot Number:** 0006505808

**Expiration Date:** 31-Dec-2020

**Description:**

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration $\pm$ Uncertainty
2-methylbutane	000078-78-4	RM04869	200.9 $\pm$ 1.0 $\mu\text{g/mL}$
trichlorofluoromethane	000075-69-4	RM00017	201.0 $\pm$ 1.0 $\mu\text{g/mL}$
1,1-dichloroethene	000075-35-4	RM12062	200.0 $\pm$ 1.0 $\mu\text{g/mL}$
methylene chloride	000075-09-2	RM11650	201.0 $\pm$ 1.0 $\mu\text{g/mL}$
1,1,2-trichlorotrifluoroethane	000076-13-1	RM04848	201.0 $\pm$ 1.0 $\mu\text{g/mL}$
trans-1,2-dichloroethene	000156-60-5	RM11428	200.8 $\pm$ 1.0 $\mu\text{g/mL}$
1,1-dichloroethane	000075-34-3	RM15556-01	201.0 $\pm$ 1.0 $\mu\text{g/mL}$
cis-1,2-dichloroethene	000156-59-2	RM12063	200.8 $\pm$ 1.0 $\mu\text{g/mL}$
n-hexane	000110-54-3	RM04193	201.0 $\pm$ 1.0 $\mu\text{g/mL}$
chloroform	000067-66-3	RM10339	200.8 $\pm$ 1.0 $\mu\text{g/mL}$
1,2-dichloroethane	000107-06-2	RM04655	201.0 $\pm$ 1.0 $\mu\text{g/mL}$
1,1,1-trichloroethane	000071-55-6	RM00027	200.4 $\pm$ 1.0 $\mu\text{g/mL}$
benzene	000071-43-2	RM03830	200.7 $\pm$ 1.0 $\mu\text{g/mL}$
carbon tetrachloride	000056-23-5	RM07576	200.9 $\pm$ 1.0 $\mu\text{g/mL}$
cyclohexane	000110-82-7	RM11622	201.0 $\pm$ 1.0 $\mu\text{g/mL}$
1,2-dichloropropane	000078-87-5	RM06643	200.6 $\pm$ 1.0 $\mu\text{g/mL}$
trichloroethene	000079-01-6	RM06644	200.5 $\pm$ 1.0 $\mu\text{g/mL}$
1,4-dioxane	000123-91-1	RM00526	201.0 $\pm$ 1.0 $\mu\text{g/mL}$
2,2,4-trimethylpentane	000540-84-1	RM14637	201.0 $\pm$ 1.0 $\mu\text{g/mL}$
n-heptane	000142-82-5	RM12887	201.0 $\pm$ 1.0 $\mu\text{g/mL}$
methylcyclohexane	000108-87-2	RM10295	201.0 $\pm$ 1.0 $\mu\text{g/mL}$

# Certificate of Analysis

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1,1,2-trichloroethane	000079-00-5	RM01175	200.9 ± 1.0 µg/mL
4-methyl-2-pentanone	000108-10-1	RM00986	200.6 ± 1.0 µg/mL
toluene	000108-88-3	RM12707	200.4 ± 1.0 µg/mL
2-hexanone	000591-78-6	RM04593	201.0 ± 1.0 µg/mL
tetrachloroethene	000127-18-4	RM06491	200.8 ± 1.0 µg/mL
chlorobenzene	000108-90-7	RM01874	201.0 ± 1.0 µg/mL
ethylbenzene	000100-41-4	RM12195	200.3 ± 1.0 µg/mL
m-xylene	000108-38-3	RM14037	200.2 ± 1.0 µg/mL
p-xylene	000106-42-3	RM02647	200.5 ± 1.0 µg/mL
o-xylene	000095-47-6	RM13768	200.5 ± 1.0 µg/mL
styrene	000100-42-5	RM11083	200.7 ± 1.0 µg/mL
1,1,2,2-tetrachloroethane	000079-34-5	RM02540	200.8 ± 1.0 µg/mL
cumene (isopropylbenzene)	000098-82-8	RM00835	201.0 ± 1.0 µg/mL
n-propylbenzene	000103-65-1	NT02060	200.6 ± 1.0 µg/mL
4-ethyltoluene	000622-96-8	RM14957	200.8 ± 1.0 µg/mL
1,3,5-trimethylbenzene	000108-67-8	RM12905	201.0 ± 1.0 µg/mL
1,2,4-trimethylbenzene	000095-63-6	RM06731	201.0 ± 1.0 µg/mL
1,3-dichlorobenzene	000541-73-1	NT00356	201.0 ± 1.0 µg/mL
1,4-dichlorobenzene	000106-46-7	RM11138	200.8 ± 1.0 µg/mL
1,2-dichlorobenzene	000095-50-1	RM10096	200.6 ± 1.0 µg/mL
1,2,4-trichlorobenzene	000120-82-1	RM09454	200.9 ± 1.0 µg/mL
hexachlorobutadiene	000087-68-3	RM09157	200.9 ± 1.0 µg/mL
carbon disulfide	000075-15-0	RM08158	201.0 ± 1.0 µg/mL
1,2-dichloro-1,1,2,2-tetrafluoroethane	000076-14-2	RM05431	201.0 ± 1.0 µg/mL
isopropyl alcohol	000067-63-0	RM10189	201.0 ± 1.0 µg/mL
vinyl chloride	000075-01-4	RM05458	201.0 ± 1.0 µg/mL
tert-butylmethyl ether	001634-04-4	RM06568	200.9 ± 1.0 µg/mL

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1,2-dibromoethane	000106-93-4	RM00018	201.0 ± 1.0 µg/mL
1,3-butadiene	000106-99-0	RM14006	199.8 ± 1.0 µg/mL
2-butanone	000078-93-3	RM06696	201.0 ± 1.0 µg/mL
chloroethane	000075-00-3	RM00065	201.0 ± 1.0 µg/mL

**Matrix:** methanol (methyl alcohol)**Storage Conditions:** Store Frozen (-25° to -10°C).**Traceability:**

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

**Homogeneity:**

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

**Intended Use:**

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

**Instructions for Use:**

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

**Hazards:**

Refer to the Safety Data Sheet on [www.agilent.com](http://www.agilent.com) for information regarding this RM.

**Expiration of Certification:**

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

**Maintenance of Certification:**

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

**Sample lot approver:**  
Monica Bourgeois  
QMS Representative