



Certificate of Analysis

VOC Mixture

**Agilent Part
Number:** 8500-5902

**Sample Lot
Number:** CG-3974

Page 1 of 3

This Certified Reference Material (CRM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The certified value and uncertainty value for each analyte was determined gravimetrically.

Analyte	CAS#	Analyte Lot	True Value
benzene	000071-43-2	34097	200.6 ± 1.0 µg/mL
bromobenzene	000108-86-1	CG-02513MF	200.6 ± 1.0 µg/mL
bromochloromethane	000074-97-5	JS-16015HS	200.6 ± 1.0 µg/mL
bromodichloromethane	000075-27-4	DU-14522LS	200.6 ± 1.0 µg/mL
bromoform	000075-25-2	12312KC	200.6 ± 1.0 µg/mL
n-butylbenzene	000104-51-8	AA-28519CO	200.6 ± 1.0 µg/mL
sec-butylbenzene	000135-98-8	07610JE	200.6 ± 1.0 µg/mL
tert-butylbenzene	000098-06-6	MQ-04010MQ	200.6 ± 1.0 µg/mL
carbon tetrachloride	000056-23-5	01704MF	200.6 ± 1.0 µg/mL
chlorobenzene	000108-90-7	013147HZ	200.6 ± 1.0 µg/mL
chloroform	000067-66-3	05143MN	200.6 ± 1.0 µg/mL
2-chlorotoluene	000095-49-8	10018BC,K2-03	200.6 ± 1.0 µg/mL
4-chlorotoluene	000106-43-4	03327TH	200.6 ± 1.0 µg/mL
dibromochloromethane	000124-48-1	CU-07705AN	200.6 ± 1.0 µg/mL
1,2-dibromo-3-chloropropane	000096-12-8	FBL-01	200.6 ± 1.0 µg/mL
1,2-dibromoethane	000106-93-4	TB-101777	200.6 ± 1.0 µg/mL
dibromomethane	000074-95-3	EM-01514TJ	200.6 ± 1.0 µg/mL
1,2-dichlorobenzene	000095-50-1	08946KY	200.6 ± 1.0 µg/mL
1,3-dichlorobenzene	000541-73-1	JN-05902LZ	200.6 ± 1.0 µg/mL

ULTRA Scientific uses calibrated Class A glassware and clean bottles in the manufacture of ULTRA standards. Balances used in the manufacture of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001.

William J. Leary
Quality Assurance Manager



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Page 2 of 3

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1,4-dichlorobenzene	000106-46-7	22628EB	200.6 ± 1.0 µg/mL
1,1-dichloroethane	000075-34-3	64552/1	200.6 ± 1.0 µg/mL
1,2-dichloroethane	000107-06-2	KN-09446KN	200.6 ± 1.0 µg/mL
1,1-dichloroethene	000075-35-4	02226CH	200.6 ± 1.0 µg/mL
cis-1,2-dichloroethene	000156-59-2	05602PH	200.6 ± 1.0 µg/mL
trans-1,2-dichloroethene	000156-60-5	01306HD	200.6 ± 1.0 µg/mL
1,2-dichloropropane	000078-87-5	DC-120777	200.6 ± 1.0 µg/mL
1,3-dichloropropane	000142-28-9	PO-18920BO	200.6 ± 1.0 µg/mL
2,2-dichloropropane	000594-20-7	03503TD	200.6 ± 1.0 µg/mL
1,1-dichloropropene	000563-58-6	PR111308-01	200.6 ± 1.0 µg/mL
cis-1,3-dichloropropene	010061-01-5	PR051109-01	200.6 ± 1.0 µg/mL
trans-1,3-dichloropropene	010061-02-6	101007-01	200.6 ± 1.0 µg/mL
ethylbenzene	000100-41-4	01558CC	200.6 ± 1.0 µg/mL
hexachlorobutadiene	000087-68-3	339923/1	200.4 ± 1.0 µg/mL
isopropylbenzene	000098-82-8	02827BH	200.6 ± 1.0 µg/mL
4-isopropyltoluene	000099-87-6	PP-05104CP	200.6 ± 1.0 µg/mL
methylene chloride	000075-09-2	48191	200.6 ± 1.0 µg/mL
naphthalene	000091-20-3	14205KB	200.6 ± 1.0 µg/mL
n-propylbenzene	000103-65-1	LO-14503MR	200.6 ± 1.0 µg/mL
styrene	000100-42-5	LR-11228MQQ	200.6 ± 1.0 µg/mL
1,1,1,2-tetrachloroethane	000630-20-6	10312DD	200.6 ± 1.0 µg/mL
1,1,2,2-tetrachloroethane	000079-34-5	10917TB	200.6 ± 1.0 µg/mL
tetrachloroethene	000127-18-4	PS-00344BR	200.6 ± 1.0 µg/mL
toluene	000108-88-3	47144	200.6 ± 1.0 µg/mL
1,2,3-trichlorobenzene	000087-61-6	12912PF	200.6 ± 1.0 µg/mL

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William J. Leary
Quality Assurance Manager



Agilent Technologies



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Page 3 of 3

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1,2,4-trichlorobenzene	000120-82-1	00334TQ	200.6 ± 1.0 µg/mL
1,1,1-trichloroethane	000071-55-6	LU-13149TR	200.6 ± 1.0 µg/mL
1,1,2-trichloroethane	000079-00-5	JB-0701HH	200.6 ± 1.0 µg/mL
trichloroethene	000079-01-6	KN-08846KN	200.6 ± 1.0 µg/mL
1,2,3-trichloropropane	000096-18-4	01610KH	200.6 ± 1.0 µg/mL
1,2,4-trimethylbenzene	000095-63-6	BO-13528BI	200.6 ± 1.0 µg/mL
1,3,5-trimethylbenzene	000108-67-8	KM-02011HM	200.6 ± 1.0 µg/mL
o-xylene	000095-47-6	DO-06834CO	200.6 ± 1.0 µg/mL
m-xylene	000108-38-3	DI-00459CI	200.6 ± 1.0 µg/mL
p-xylene	000106-42-3	03747LN	200.6 ± 1.0 µg/mL

Solvent: methanol (methyl alcohol)

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Date of release: 16 December 2010

Date of expiration: 31 December 2013


William J. Lean
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