



# Certificate of Analysis

## VOC Mixture

Product Number: DWM-580

Page: 1 of 4

Lot Number: CH-0698

Lot Issue Date: 21-Mar-2011

Expiration Date: 30-Apr-2013

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
bromochloromethane	000074-97-5	JS-16015HS	200.6 ± 1.0 µg/mL
bromodichloromethane	000075-27-4	10529HD	200.6 ± 1.0 µg/mL
bromoform	000075-25-2	12312KC	200.6 ± 1.0 µg/mL
carbon tetrachloride	000056-23-5	01704MF	200.6 ± 1.0 µg/mL
chloroform	000067-66-3	05143MN	200.6 ± 1.0 µg/mL
dibromochloromethane	000124-48-1	MU-07705AN	200.6 ± 1.0 µg/mL
dibromomethane	000074-95-3	EM-01514TJ	200.6 ± 1.0 µg/mL
methylene chloride	000075-09-2	48248	200.6 ± 1.0 µg/mL
1,2-dibromoethane	000106-93-4	TB-101777	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	RM01073	200.6 ± 1.0 µg/mL
trans-1,2-dichloroethene	000156-60-5	01306HD	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
1,1,1-trichloroethane	000071-55-6	RM00027	200.6 ± 1.0 µg/mL
1,1,2-trichloroethane	000079-00-5	JB-0701HH	200.6 ± 1.0 µg/mL

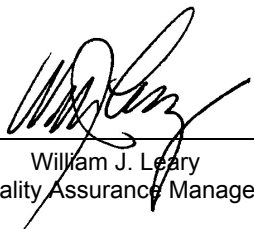
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William J. Leary  
Quality Assurance Manager



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trichloroethene	000079-01-6	KN-08846KN	200.6 ± 1.0 µg/mL
1,2-dibromo-3-chloropropane	000096-12-8	FBL-01	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	PR-17916MR	200.6 ± 1.0 µg/mL
2,2-dichloropropane	000594-20-7	00503TD	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	PR-031010-01	200.6 ± 1.0 µg/mL
trans-1,3-dichloropropene	010061-02-6	SR101007-01	200.6 ± 1.0 µg/mL
hexachlorobutadiene	000087-68-3	339923/1	200.4 ± 1.0 µg/mL
1,2,3-trichloropropane	000096-18-4	01610KH	200.6 ± 1.0 µg/mL
benzene	000071-43-2	34097	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
ethylbenzene	000100-41-4	RM00783	200.6 ± 1.0 µg/mL
isopropylbenzene	000098-82-8	RM00835	200.6 ± 1.0 µg/mL
4-isopropyltoluene	000099-87-6	PP-05104CP	200.6 ± 1.0 µg/mL
naphthalene	000091-20-3	14205KB	200.6 ± 1.0 µg/mL
n-propylbenzene	000103-65-1	14503MR	200.6 ± 1.0 µg/mL

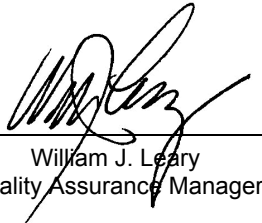
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styrene	000100-42-5	LR-11228MQ	200.6 ± 1.0 µg/mL
toluene	000108-88-3	RM01216	200.6 ± 1.0 µg/mL
1,2,4-trimethylbenzene	000095-63-6	BO-13528BI	200.6 ± 1.0 µg/mL
1,3,5-trimethylbenzene	000108-67-8	KM-02011HM	200.6 ± 1.0 µg/mL
o-xylene	000095-47-6	DO-06834CO	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
bromobenzene	000108-86-1	CG-02513MF	200.6 ± 1.0 µg/mL
chlorobenzene	000108-90-7	07774MG	200.6 ± 1.0 µg/mL
2-chlorotoluene	000095-49-8	KZ-03621HX	200.6 ± 1.0 µg/mL
4-chlorotoluene	000106-43-4	03327TH	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
1,4-dichlorobenzene	000106-46-7	22628EB	200.6 ± 1.0 µg/mL
1,2,3-trichlorobenzene	000087-61-6	12912PF	200.6 ± 1.0 µg/mL
1,2,4-trichlorobenzene	000120-82-1	00334TQ	200.6 ± 1.0 µg/mL
bromomethane	000074-83-9	06623AQ	200.9 ± 1.0 µg/mL
chloroethane	000075-00-3	00223KG	200.9 ± 1.0 µg/mL
chloromethane	000074-87-3	07-44048	200.9 ± 1.0 µg/mL

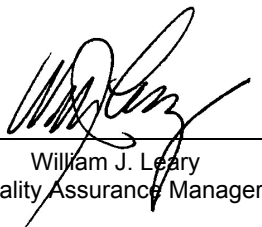
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dichlorodifluoromethane	000075-71-8	N960053	200.8 ± 1.0 µg/mL
trichlorofluoromethane	000075-69-4	DR-16417BR	200.6 ± 1.0 µg/mL
vinyl chloride	000075-01-4	0923FC10	200.8 ± 1.0 µg/mL

**Matrix:** methanol (methyl alcohol)

**Storage:** Store at < 4° C

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