



Certificate of Analysis

VOC Mixture

Product Number: DWM-588

Page: 1 of 4

Lot Number: CH-2966

Lot Issue Date: 15-Sep-2011

Expiration Date: 31-Oct-2014

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	2006 ± 10 µg/mL
bromodichloromethane	000075-27-4	10529HD	2006 ± 10 µg/mL
bromoform	000075-25-2	12312KC	2006 ± 10 µg/mL
carbon tetrachloride	000056-23-5	01704MF	2006 ± 10 µg/mL
chloroform	000067-66-3	05143MN	2006 ± 10 µg/mL
dibromochloromethane	000124-48-1	MU-07705AN	2006 ± 10 µg/mL
dibromomethane	000074-95-3	EM-01514TJ	2006 ± 10 µg/mL
methylene chloride	000075-09-2	48248	2006 ± 10 µg/mL
trichlorofluoromethane	000075-69-4	DR-16417BR	2006 ± 10 µg/mL
1,2-dibromoethane	000106-93-4	TB-101777	2006 ± 10 µg/mL
1,1-dichloroethane	000075-34-3	64552/1	2006 ± 10 µg/mL
1,2-dichloroethane	000107-06-2	KN-09446KN	2006 ± 10 µg/mL
1,1-dichloroethene	000075-35-4	02226CH	2006 ± 10 µg/mL
cis-1,2-dichloroethene	000156-59-2	RM01073	2006 ± 10 µg/mL
trans-1,2-dichloroethene	000156-60-5	01306HD	2006 ± 10 µg/mL
1,1,1,2-tetrachloroethane	000630-20-6	10312DD	2006 ± 10 µg/mL
1,1,2,2-tetrachloroethane	000079-34-5	10917TB	2006 ± 10 µg/mL
tetrachloroethene	000127-18-4	PS-00344BR	2006 ± 10 µg/mL
1,1,1-trichloroethane	000071-55-6	RM00027	2006 ± 10 µg/mL

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250 Smith Street, North Kingstown, RI 02852 USA
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William J. Leary
Quality Assurance Manager



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1,1,2-trichloroethane	000079-00-5	JB-0701HH	2006 ± 10 µg/mL
trichloroethene	000079-01-6	KN-08846KN	2006 ± 10 µg/mL
1,2-dibromo-3-chloropropane	000096-12-8	FBL-01	2006 ± 10 µg/mL
1,2-dichloropropane	000078-87-5	DC-120777	2006 ± 10 µg/mL
1,3-dichloropropane	000142-28-9	PR-17916MR	2006 ± 10 µg/mL
2,2-dichloropropane	000594-20-7	03503TD	2006 ± 10 µg/mL
1,1-dichloropropene	000563-58-6	PR111308-01	2006 ± 10 µg/mL
cis-1,3-dichloropropene	010061-01-5	PR031010-01	2006 ± 10 µg/mL
trans-1,3-dichloropropene	010061-02-6	SR101007-01	2006 ± 10 µg/mL
hexachlorobutadiene	000087-68-3	339923/1	2004 ± 10 µg/mL
1,2,3-trichloropropane	000096-18-4	01610KH	2006 ± 10 µg/mL
naphthalene	000091-20-3	14205KB	2006 ± 10 µg/mL
benzene	000071-43-2	34097	2006 ± 10 µg/mL
n-butylbenzene	000104-51-8	AA-28519CO	2006 ± 10 µg/mL
sec-butylbenzene	000135-98-8	07610JE	2006 ± 10 µg/mL
tert-butylbenzene	000098-06-6	MQ-04010MQ	2006 ± 10 µg/mL
ethylbenzene	000100-41-4	RM000783	2006 ± 10 µg/mL
isopropylbenzene	000098-82-8	RM00835	2006 ± 10 µg/mL
4-isopropyltoluene	000099-87-6	PP-05104CP	2006 ± 10 µg/mL

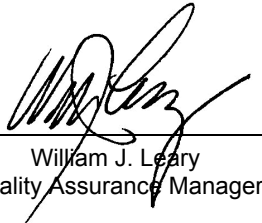
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n-propylbenzene	000103-65-1	14503MR	2006 ± 10 µg/mL
styrene	000100-42-5	LR-11228MQ	2006 ± 10 µg/mL
toluene	000108-88-3	RM01216	2006 ± 10 µg/mL
1,2,4-trimethylbenzene	000095-63-6	BO--13528BI	2006 ± 10 µg/mL
1,3,5-trimethylbenzene	000108-67-8	KM-02011HM	2006 ± 10 µg/mL
o-xylene	000095-47-6	DO-06834CO	2006 ± 10 µg/mL
m-xylene	000108-38-3	DI-00459CI	2006 ± 10 µg/mL
p-xylene	000106-42-3	03747LN	2006 ± 10 µg/mL
1,4-dichlorobenzene	000106-46-7	22628EB	2006 ± 10 µg/mL
bromobenzene	000108-86-1	CG-02513MF	2006 ± 10 µg/mL
chlorobenzene	000108-90-7	07774MG	2006 ± 10 µg/mL
2-chlorotoluene	000095-49-8	KZ-03621HX	2006 ± 10 µg/mL
4-chlorotoluene	000106-43-4	03327TH	2006 ± 10 µg/mL
1,2-dichlorobenzene	000095-50-1	08946KY	2006 ± 10 µg/mL
1,3-dichlorobenzene	000541-73-1	JN-05902LZ	2006 ± 10 µg/mL
1,2,3-trichlorobenzene	000087-61-6	12912PF	2006 ± 10 µg/mL
1,2,4-trichlorobenzene	000120-82-1	00334TQ	2006 ± 10 µg/mL
bromomethane	000074-83-9	06623AQ	2008 ± 10 µg/mL
chloroethane	000075-00-3	00223KG	2008 ± 10 µg/mL

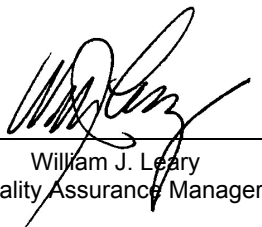
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chloromethane	000074-87-3	07-44048	2008 ± 10 µg/mL
dichlorodifluoromethane	000075-71-8	N960053	2008 ± 10 µg/mL
vinyl chloride	000075-01-4	1201FC10	2009 ± 10 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

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