

Certificate of Analysis

Custom Standard

Product Number: CUS-7987

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Lot Number: CH-3433

Lot Issue Date: 21-Oct-2011

Expiration Date: 30-Nov-2012

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA Scientific's ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. 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
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	10529HD	200.6 ± 1.0 µg/mL
bromoform	000075-25-2	12312KC	200.6 ± 1.0 µg/mL
bromomethane	000074-83-9	06623AQ	200.8 ± 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	MA-04010MQ	200.6 ± 1.0 µg/mL
carbon tetrachloride	000056-23-5	01704MF	200.6 ± 1.0 µg/mL
chlorobenzene	000108-90-7	07774MG	200.6 ± 1.0 µg/mL
chloroethane	000075-00-3	00223KG	200.8 ± 1.0 µg/mL
chloroform	000067-66-3	05143MN	200.6 ± 1.0 µg/mL
chloromethane	000074-87-3	07-44048	200.8 ± 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
dibromochloromethane	000124-48-1	MU-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

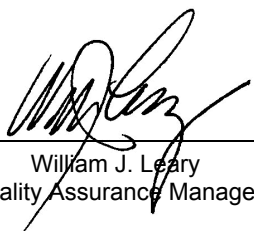
ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



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William J. Leary
Quality Assurance Manager

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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
1,4-dichlorobenzene	000106-46-7	22628EB	200.6 ± 1.0 µg/mL
dichlorodifluoromethane	000075-71-8	N960053	200.8 ± 1.0 µg/mL
1,1-dichloroethane	000075-34-3	64552/1	200.6 ± 1.0 µg/mL
1,2-dichloroethane	000107-06-2	1201FC10	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
1,2-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	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	PR-031010-1	200.6 ± 1.0 µg/mL
trans-1,3-dichloropropene	010061-02-6	SR101007-01	200.6 ± 1.0 µg/mL
ethylbenzene	000100-41-4	RM00783	200.6 ± 1.0 µg/mL
hexachlorobutadiene	000087-68-3	339923/1	200.4 ± 1.0 µg/mL
isopropylbenzene	000098-82-8	RM00835	200.6 ± 1.0 µg/mL

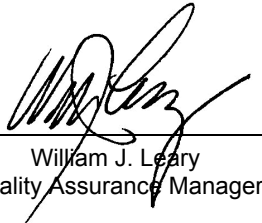
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4-isopropyltoluene	000099-87-6	PP-05104CP	200.6 ± 1.0 µg/mL
methylene chloride	000075-09-2	48248	200.6 ± 1.0 µg/mL
naphthalene	000091-20-3	14205KB	200.6 ± 1.0 µg/mL
n-propylbenzene	000103-65-1	14503MR	200.6 ± 1.0 µg/mL
styrene	000100-42-5	LR-11228MQ	200.6 ± 1.0 µg/mL
1,1,1,2-tetrachloroethane	000630-20-6	10312D	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	RM01216	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
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
trichloroethene	000079-01-6	KN-08846KN	200.6 ± 1.0 µg/mL
trichlorofluoromethane	000075-69-4	DR-16417BR	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
vinyl chloride	000075-01-4	1201FC10	200.9 ± 1.0 µg/mL

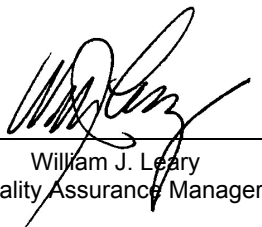
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o-xylene	000095-47-6	DO-06834CO	200.6 ± 1.0 µg/mL
m-xylene	000108-38-3	DI-00459CI	200.6 ± 1.0 µg/mL
p-xylene	000106-42-3	03747LN	200.6 ± 1.0 µg/mL
MTBE	001634-04-4	45123	200.6 ± 1.0 µg/mL
MEK	000078-93-3	CA-02161PO	200.6 ± 1.0 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

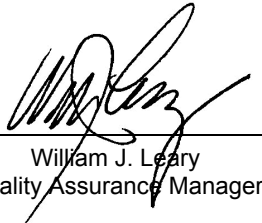
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