



Certificate of Analysis

Custom Standard

Product Number: CUS-8753

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Lot Number: CH-3194

Lot Issue Date: 29-Sep-2011

Expiration Date: 31-Oct-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
bromodichloromethane	000075-27-4	10529HD	50.2 ± 0.3 µg/mL
dibromochloromethane	000124-48-1	MU-07705AN	50.2 ± 0.3 µg/mL
1,1-dichloroethene	000075-35-4	02226CH	50.2 ± 0.3 µg/mL
cis-1,2-dichloroethene	000156-59-2	RM01073	50.2 ± 0.3 µg/mL
trans-1,2-dichloroethene	000156-60-5	01306HD	50.2 ± 0.3 µg/mL
methylene chloride	000075-09-2	48248	50.2 ± 0.3 µg/mL
bromochloromethane	000074-97-5	JS-16015HS	50.2 ± 0.3 µg/mL
bromoform	000075-25-2	12312KC	50.2 ± 0.3 µg/mL
carbon tetrachloride	000056-23-5	01704MF	50.2 ± 0.3 µg/mL
chloroform	000067-66-3	05143MN	50.2 ± 0.3 µg/mL
dibromomethane	000074-95-3	EM-01514TJ	50.2 ± 0.3 µg/mL
1,1-dichloroethane	000075-34-3	64552/1	50.2 ± 0.3 µg/mL
2,2-dichloropropane	000594-20-7	03503TD	50.2 ± 0.3 µg/mL
tetrachloroethene	000127-18-4	PS-00344BR	50.2 ± 0.3 µg/mL
1,1,1-trichloroethane	000071-55-6	RM00027	50.2 ± 0.3 µg/mL
1,2-dibromo-3-chloropropane	000096-12-8	FBL-01	50.2 ± 0.3 µg/mL
1,2-dibromoethane	000106-93-4	TB-101777	50.2 ± 0.3 µg/mL
1,2-dichloroethane	000107-06-2	KN-09446KN	50.2 ± 0.3 µg/mL
1,2-dichloropropane	000078-87-5	DC-120777	50.2 ± 0.3 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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1,3-dichloropropane	000142-28-9	PR-17916MR	50.2 ± 0.3 µg/mL
1,1-dichloropropene	000563-58-6	PR111308-01	50.2 ± 0.3 µg/mL
cis-1,3-dichloropropene	010061-01-5	PR031010-1	50.2 ± 0.3 µg/mL
trans-1,3-dichloropropene	010061-02-6	SR101007-01	50.2 ± 0.3 µg/mL
hexachlorobutadiene	000087-68-3	339923/1	50.1 ± 0.3 µg/mL
1,1,1,2-tetrachloroethane	000630-20-6	10312DD	50.2 ± 0.3 µg/mL
1,1,2,2-tetrachloroethane	000079-34-5	10917TB	50.2 ± 0.3 µg/mL
1,1,2-trichloroethane	000079-00-5	JB-0701HH	50.2 ± 0.3 µg/mL
trichloroethene	000079-01-6	KN-08846KN	50.2 ± 0.3 µg/mL
1,2,3-trichloropropane	000096-18-4	01610KH	50.2 ± 0.3 µg/mL
benzene	000071-43-2	34097	50.2 ± 0.3 µg/mL
bromobenzene	000108-86-1	CG-02513MF	50.2 ± 0.3 µg/mL
n-butylbenzene	000104-51-8	AA-28519CO	50.2 ± 0.3 µg/mL
ethylbenzene	000100-41-4	RM00783	50.2 ± 0.3 µg/mL
4-isopropyltoluene	000099-87-6	PP-05104CP	50.2 ± 0.3 µg/mL
naphthalene	000091-20-3	14205KB	50.2 ± 0.3 µg/mL
styrene	000100-42-5	LR-11228MQ	50.2 ± 0.3 µg/mL
toluene	000108-88-3	RM01216	50.2 ± 0.3 µg/mL
1,2,3-trichlorobenzene	000087-61-6	12912PF	50.2 ± 0.3 µg/mL

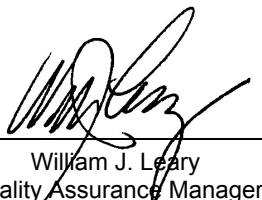
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1,2,4-trichlorobenzene	000120-82-1	00334TQ	50.2 ± 0.3 µg/mL
1,2,4-trimethylbenzene	000095-63-6	BO-13528BI	50.2 ± 0.3 µg/mL
1,3,5-trimethylbenzene	000108-67-8	KM-02011HM	50.2 ± 0.3 µg/mL
m-xylene	000108-38-3	DI-00459CI	50.2 ± 0.3 µg/mL
tert-butylbenzene	000098-06-6	MA-04010MQ	50.2 ± 0.3 µg/mL
sec-butylbenzene	000135-98-8	07610JE	50.2 ± 0.3 µg/mL
chlorobenzene	000108-90-7	07774MG	50.2 ± 0.3 µg/mL
2-chlorotoluene	000095-49-8	KZ-03621HX	50.2 ± 0.3 µg/mL
4-chlorotoluene	000106-43-4	03327TH	50.2 ± 0.3 µg/mL
1,2-dichlorobenzene	000095-50-1	08946KY	50.2 ± 0.3 µg/mL
1,3-dichlorobenzene	000541-73-1	JN-05902LZ	50.2 ± 0.3 µg/mL
1,4-dichlorobenzene	000106-46-7	22628EB	50.2 ± 0.3 µg/mL
isopropylbenzene	000098-82-8	RM00835	50.2 ± 0.3 µg/mL
n-propylbenzene	000103-65-1	14503MR	50.2 ± 0.3 µg/mL
o-xylene	000095-47-6	DO-06834CO	50.2 ± 0.3 µg/mL
p-xylene	000106-42-3	03747LN	50.2 ± 0.3 µg/mL
bromomethane	000074-83-9	06623AQ	50.2 ± 0.3 µg/mL
chloroethane	000075-00-3	00223KG	50.2 ± 0.3 µg/mL
chloromethane	000074-87-3	07-44048	50.2 ± 0.3 µg/mL


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dichlorodifluoromethane	000075-71-8	N960053	50.2 ± 0.3 µg/mL
trichlorofluoromethane	000075-69-4	DR-16417BR	50.2 ± 0.3 µg/mL
vinyl chloride	000075-01-4	1201FC10	50.2 ± 0.3 µg/mL
acetone	000067-64-1	1003498	250.8 ± 1.3 µg/mL
2-butanone	000078-93-3	13683PC	250.8 ± 1.3 µg/mL
2-hexanone	000591-78-6	12007DD	250.8 ± 1.3 µg/mL
4-methyl-2-pentanone	000108-10-1	04153EC	250.8 ± 1.3 µg/mL
vinyl acetate	000108-05-4	MS-11517PR	250.8 ± 1.3 µg/mL
iodomethane	000074-88-4	BS-09920HR	250.8 ± 1.3 µg/mL
carbon disulfide	000075-15-0	AI-12071LU	250.8 ± 1.3 µg/mL
MTBE	001634-04-4	37289	50.2 ± 0.3 µg/mL
acetonitrile	000075-05-8	RM01645-0	1256 ± 6 µg/mL
cyclohexane	000110-82-7	44114	50.2 ± 0.3 µg/mL
methyl acetate	000079-20-9	16318HA	251.0 ± 1.3 µg/mL
n-butyl alcohol	000071-36-3	RM01813-0	5023 ± 25 µg/mL
diethyl ether	000060-29-7	MA-01256EA	50.2 ± 0.3 µg/mL
methylcyclohexane	000108-87-2	DR-00844CR	50.2 ± 0.3 µg/mL
cyclohexene	000110-83-8	LS-13026LR	50.2 ± 0.3 µg/mL

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Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

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