



# Certificate of Analysis

## Custom Standard

Product Number: CUS-6504

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Lot Number: CH-2228

Lot Issue Date: 13-Jul-2011

Expiration Date: 30-Nov-2011

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
1,1-dichloroethane	000075-34-3	64552/1	10.0 ± 0.1 µg/mL
1,1-dichloroethene	000075-35-4	02226CH	10.0 ± 0.1 µg/mL
1,1-dichloropropene	000563-58-6	PR111308-01	10.0 ± 0.1 µg/mL
1,1,1-trichloroethane	000071-55-6	RM00027	10.0 ± 0.1 µg/mL
1,1,1,2-tetrachloroethane	000630-20-6	10312DD	10.0 ± 0.1 µg/mL
1,1,2-trichloroethane	000079-00-5	JB-0701HH	10.0 ± 0.1 µg/mL
1,1,2,2-tetrachloroethane	000079-34-5	10917TB	10.0 ± 0.1 µg/mL
1,2-dibromo-3-chloropropane	000096-12-8	FBL-01	10.0 ± 0.1 µg/mL
1,2-dibromoethane	000106-93-4	TBN-101777	10.0 ± 0.1 µg/mL
1,2-dichlorobenzene	000095-50-1	08946KY	10.0 ± 0.1 µg/mL
1,2-dichloroethane	000107-06-2	KN-09446KN	10.0 ± 0.1 µg/mL
1,2-dichloropropane	000078-87-5	DC-120777	10.0 ± 0.1 µg/mL
1,2,3-trichlorobenzene	000087-61-6	12912PF	10.0 ± 0.1 µg/mL
1,2,3-trichloropropane	000096-18-4	01610KH	10.0 ± 0.1 µg/mL
1,2,4-trichlorobenzene	000120-82-1	00334TQ	10.0 ± 0.1 µg/mL
1,2,4-trimethylbenzene	000095-63-6	BO-13528BI	10.0 ± 0.1 µg/mL
1,3-dichlorobenzene	000541-73-1	JN-05902LZ	10.0 ± 0.1 µg/mL
1,3-dichloropropane	000142-28-9	PR-17916MR	10.0 ± 0.1 µg/mL
1,3,5-trimethylbenzene	000108-67-8	KM-02011HM	10.0 ± 0.1 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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1,4-dichlorobenzene	000106-46-7	22628EB	10.0 ± 0.1 µg/mL
2-chlorotoluene	000095-49-8	KZ-03621HX	10.0 ± 0.1 µg/mL
2,2-dichloropropane	000594-20-7	03503TD	10.0 ± 0.1 µg/mL
4-chlorotoluene	000106-43-4	03327TH	10.0 ± 0.1 µg/mL
benzene	000071-43-2	34097	10.0 ± 0.1 µg/mL
bromobenzene	000108-86-1	CG-02513MF	10.0 ± 0.1 µg/mL
bromochloromethane	000074-97-5	JS-16015HS	10.0 ± 0.1 µg/mL
bromoform	000075-25-2	12312KC	10.0 ± 0.1 µg/mL
bromomethane	000074-83-9	06623AQ	10.0 ± 0.1 µg/mL
carbon tetrachloride	000056-23-5	01704MF	10.0 ± 0.1 µg/mL
chlorobenzene	000108-90-7	07774MG	10.0 ± 0.1 µg/mL
chloroethane	000075-00-3	00223KG	10.0 ± 0.1 µg/mL
chloroform	000067-66-3	05143MN	10.0 ± 0.1 µg/mL
chloromethane	000074-87-3	00223KG	10.0 ± 0.1 µg/mL
cis-1,2-dichloroethene	000156-59-2	RM01073	10.0 ± 0.1 µg/mL
cis-1,3-dichloropropene	010061-01-5	PR031010-1	10.0 ± 0.1 µg/mL
dibromochloromethane	000124-48-1	MU-07705AN	10.0 ± 0.1 µg/mL
dibromomethane	000074-95-3	EM-01514TJ	10.0 ± 0.1 µg/mL
bromodichloromethane	000075-27-4	10529HD	10.0 ± 0.1 µg/mL

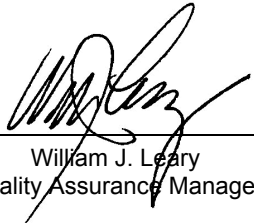
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dichlorodifluoromethane	000075-71-8	N960053	10.0 ± 0.1 µg/mL
dichloromethane	000075-09-2	48248	10.0 ± 0.1 µg/mL
ethylbenzene	000100-41-4	RM00783	10.0 ± 0.1 µg/mL
hexachlorobutadiene	000087-68-3	339923/1	10.0 ± 0.1 µg/mL
isopropylbenzene	000098-82-8	RM00835	10.0 ± 0.1 µg/mL
m-xylene	000108-38-3	DI-00459CI	10.0 ± 0.1 µg/mL
MTBE	001634-04-4	45123	10.0 ± 0.1 µg/mL
naphthalene	000091-20-3	14205KB	10.0 ± 0.1 µg/mL
n-butylbenzene	000104-51-8	AA-28519CO	10.0 ± 0.1 µg/mL
n-propylbenzene	000103-65-1	14503MR	10.0 ± 0.1 µg/mL
o-xylene	000095-47-6	DO-06834CO	10.0 ± 0.1 µg/mL
4-isopropyltoluene	000099-87-6	PP-05104CP	10.0 ± 0.1 µg/mL
p-xylene	000106-42-3	03747LN	10.0 ± 0.1 µg/mL
sec-butylbenzene	000135-98-8	07610JE	10.0 ± 0.1 µg/mL
styrene	000100-42-5	LR-11228MQ	10.0 ± 0.1 µg/mL
tert-butylbenzene	000098-06-6	MQ-04010MQ	10.0 ± 0.1 µg/mL
tetrachloroethene	000127-18-4	PS-00344BR	10.0 ± 0.1 µg/mL
toluene	000108-88-3	RM01216	10.0 ± 0.1 µg/mL
trans-1,2-dichloroethene	000156-60-5	01306HD	10.0 ± 0.1 µg/mL

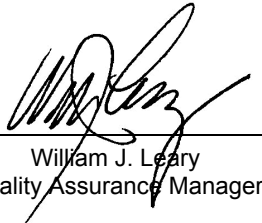
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trans-1,3-dichloropropene	010061-02-6	SR101007-01	10.0 ± 0.1 µg/mL
trichloroethene	000079-01-6	KN-08846KN	10.0 ± 0.1 µg/mL
trichlorofluoromethane	000075-69-4	DR-16417BR	10.0 ± 0.1 µg/mL
vinyl chloride	000075-01-4	1201FC10	10.0 ± 0.1 µg/mL
trans-1,4-dichloro-2-butene	000110-57-6	JN-01422DG	100.3 ± 0.5 µg/mL
2-chloroethylvinyl ether	000110-75-8	KS-12708TN	100.4 ± 0.5 µg/mL
2-hexanone	000591-78-6	12007DD	100.3 ± 0.5 µg/mL
4-methyl-2-pentanone	000108-10-1	04153EC	100.3 ± 0.5 µg/mL
acetone	000067-64-1	49098	100.3 ± 0.5 µg/mL
acrolein	000107-02-8	S35243	100.3 ± 0.5 µg/mL
acrylonitrile	000107-13-1	56896MJ	100.3 ± 0.5 µg/mL
carbon disulfide	000075-15-0	AI-12071LU	10.0 ± 0.1 µg/mL
ethyl methacrylate	000097-63-2	04004EH	100.3 ± 0.5 µg/mL
iodomethane	000074-88-4	02412JD	20.1 ± 0.1 µg/mL
MEK	000078-93-3	CA-02161PO	100.3 ± 0.5 µg/mL
vinyl acetate	000108-05-4	MS-11517PR	100.3 ± 0.5 µg/mL
nitrobenzene	000098-95-3	DI-10604DI	20.1 ± 0.1 µg/mL

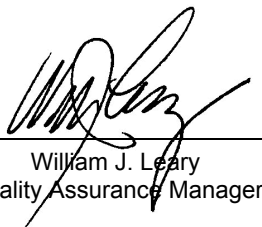
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**Matrix:** methanol (methyl alcohol)

**Storage:** Store at < 4° C

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