

Certificate of Analysis

Custom Standard

Product Number: CUS-11824

Page: 1 of 3

Lot Number: CH-3221

Lot Issue Date: 04-Oct-2011

Expiration Date: 30-Nov-2013

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	1.00 ± 0.01 µg/mL
bromobenzene	000108-86-1	CG-02513MF	1.00 ± 0.01 µg/mL
bromochloromethane	000074-97-5	JS-16015HS	1.00 ± 0.01 µg/mL
bromodichloromethane	000075-27-4	DU-14522LS	1.00 ± 0.01 µg/mL
bromoform	000075-25-2	12312KC	1.00 ± 0.01 µg/mL
n-butylbenzene	000104-51-8	AA-28519CO	1.00 ± 0.01 µg/mL
sec-butylbenzene	000135-98-8	07610JE	1.00 ± 0.01 µg/mL
tert-butylbenzene	000098-06-6	MQ-04010MQ	1.00 ± 0.01 µg/mL
carbon tetrachloride	000056-23-5	01704MF	1.00 ± 0.01 µg/mL
chlorobenzene	000108-90-7	013148HZ	1.00 ± 0.01 µg/mL
chloroform	000067-66-3	05143MN	1.00 ± 0.01 µg/mL
2-chlorotoluene	000095-49-8	10018BC/K2-	1.00 ± 0.01 µg/mL
4-chlorotoluene	000106-43-4	03327TH	1.00 ± 0.01 µg/mL
1,2-dibromo-3-chloropropane	000096-12-8	FBL-01	1.00 ± 0.01 µg/mL
dibromochloromethane	000124-48-1	CU-07705AN	1.00 ± 0.01 µg/mL
1,2-dibromoethane	000106-93-4	TB-101777	1.00 ± 0.01 µg/mL
dibromomethane	000074-95-3	EM-01514TJ	1.00 ± 0.01 µg/mL
1,2-dichlorobenzene	000095-50-1	08946KY	1.00 ± 0.01 µg/mL
1,3-dichlorobenzene	000541-73-1	JN-05902LZ	1.00 ± 0.01 µg/mL

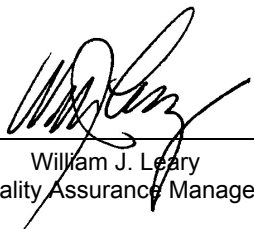
ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



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www.ultrasci.com



William J. Leary
Quality Assurance Manager

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1,4-dichlorobenzene	000106-46-7	22628EB	1.00 ± 0.01 µg/mL
1,1-dichloroethane	000075-34-3	64552/1	1.00 ± 0.01 µg/mL
1,2-dichloroethane	000107-06-2	KN-09446KN	1.00 ± 0.01 µg/mL
1,1-dichloroethene	000075-35-4	02226CH	1.00 ± 0.01 µg/mL
cis-1,2-dichloroethene	000156-59-2	05602PH	1.00 ± 0.01 µg/mL
trans-1,2-dichloroethene	000156-60-5	01306HD	1.00 ± 0.01 µg/mL
dichloromethane	000075-09-2	48191	1.00 ± 0.01 µg/mL
1,2-dichloropropane	000078-87-5	DC-120777	1.00 ± 0.01 µg/mL
1,3-dichloropropane	000142-28-9	PO=18920BO	1.00 ± 0.01 µg/mL
2,2-dichloropropane	000594-20-7	03503TD	1.00 ± 0.01 µg/mL
1,1-dichloropropene	000563-58-6	PR111308-01	1.00 ± 0.01 µg/mL
cis-1,3-dichloropropene	010061-01-5	PR051109-01	1.00 ± 0.01 µg/mL
trans-1,3-dichloropropene	010061-02-6	101007-01	1.00 ± 0.01 µg/mL
ethylbenzene	000100-41-4	01558CC	1.00 ± 0.01 µg/mL
hexachlorobutadiene	000087-68-3	339923/1	1.00 ± 0.01 µg/mL
isopropylbenzene	000098-82-8	02827BH	1.00 ± 0.01 µg/mL
4-isopropyltoluene	000099-87-6	PP-05104CF	1.00 ± 0.01 µg/mL
naphthalene	000091-20-3	14205KB	1.00 ± 0.01 µg/mL
n-propylbenzene	000103-65-1	LO-14503MR	1.00 ± 0.01 µg/mL

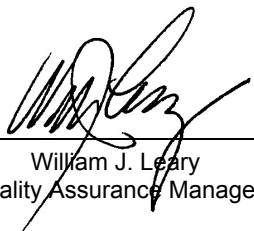
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styrene	000100-42-5	LR-11228MQ+	1.00 ± 0.01 µg/mL
1,1,1,2-tetrachloroethane	000630-20-6	10312DD	1.00 ± 0.01 µg/mL
1,1,2,2-tetrachloroethane	000079-34-5	10917TB	1.00 ± 0.01 µg/mL
tetrachloroethene	000127-18-4	PS-00344BR	1.00 ± 0.01 µg/mL
toluene	000108-88-3	47144	1.00 ± 0.01 µg/mL
1,2,3-trichlorobenzene	000087-61-6	129I2PF	1.00 ± 0.01 µg/mL
1,2,4-trichlorobenzene	000120-82-1	00334TQ	1.00 ± 0.01 µg/mL
1,1,1-trichloroethane	000071-55-6	LU-13149TR	1.00 ± 0.01 µg/mL
1,1,2-trichloroethane	000079-00-5	JB-0701HH	1.00 ± 0.01 µg/mL
trichloroethene	000079-01-6	KN-08846KN	1.00 ± 0.01 µg/mL
1,2,3-trichloropropane	000096-18-4	01610KH	1.00 ± 0.01 µg/mL
1,2,4-trimethylbenzene	000095-63-6	BO-13528BI	1.00 ± 0.01 µg/mL
1,3,5-trimethylbenzene	000108-67-8	KM-02011HM	1.00 ± 0.01 µg/mL
o-xylene	000095-47-6	DO-06834CO	1.00 ± 0.01 µg/mL
m-xylene	000108-38-3	DI-00459CI	1.00 ± 0.01 µg/mL
p-xylene	000106-42-3	03747LN	1.00 ± 0.01 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

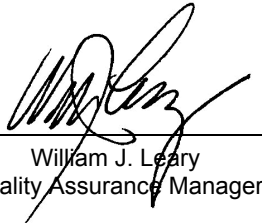
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