



Certificate of Analysis

Custom Standard

Product Number: CUS-6504

Page: 1 of 5

Lot Number: CH-3866

Lot Issue Date: 02-Dec-2011

Expiration Date: 30-Apr-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
1,1-dichloroethane	000075-34-3	64552/1	10.0 ± 0.1 µg/mL
1,1-dichloroethene	000075-35-4	02226 CH	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	10312 DD	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	10917 TB	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	TB-101777	10.0 ± 0.1 µg/mL
1,2-dichlorobenzene	000095-50-1	08946 KY	10.0 ± 0.1 µg/mL
1,2-dichloroethane	000107-06-2	KN-09446 KN	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	12912 PF	10.0 ± 0.1 µg/mL
1,2,3-trichloropropane	000096-18-4	01610 KH	10.0 ± 0.1 µg/mL
1,2,4-trichlorobenzene	000120-82-1	00334 TQ	10.0 ± 0.1 µg/mL
1,2,4-trimethylbenzene	000095-63-6	BO-13528 BI	10.0 ± 0.1 µg/mL
1,3-dichlorobenzene	000541-73-1	JN-05902 LZ	10.0 ± 0.1 µg/mL
1,3-dichloropropane	000142-28-9	PR-17916-MR	10.0 ± 0.1 µg/mL
1,3,5-trimethylbenzene	000108-67-8	KM-02011	10.0 ± 0.1 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.



ISO 17025:2005
Accredited
A2LA
Cert. No. 0851-01

ISO 9001:2008
Registered
TUV USA, Inc.
Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
www.ultrasci.com

William J. Leary
Quality Assurance Manager

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality



Certificate of Analysis

Custom Standard

Product Number: CUS-6504

Page: 2 of 5

Lot Number: CH-3866

Lot Issue Date: 02-Dec-2011

Expiration Date: 30-Apr-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.

1,4-dichlorobenzene	000106-46-7	22628 EB	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	03503 TD	10.0 ± 0.1 µg/mL
4-chlorotoluene	000106-43-4	03327 TH	10.0 ± 0.1 µg/mL
benzene	000071-43-2	34097	10.0 ± 0.1 µg/mL
bromobenzene	000108-86-1	CG-02513 MF	10.0 ± 0.1 µg/mL
bromochloromethane	000074-97-5	JS-16015 HS	10.0 ± 0.1 µg/mL
bromoform	000075-25-2	12312 KC	10.0 ± 0.1 µg/mL
bromomethane	000074-83-9	06623 AQ	10.0 ± 0.1 µg/mL
carbon tetrachloride	000056-23-5	01704 MF	10.0 ± 0.1 µg/mL
chlorobenzene	000108-90-7	07774MG	10.0 ± 0.1 µg/mL
chloroethane	000075-00-3	00223 KG	10.0 ± 0.1 µg/mL
chloroform	000067-66-3	05143 MN	10.0 ± 0.1 µg/mL
chloromethane	000074-87-3	07-44048	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-07705 AN	10.0 ± 0.1 µg/mL
dibromomethane	000074-95-3	EM-01514 TJ	10.0 ± 0.1 µg/mL
bromodichloromethane	000075-27-4	10529 HD	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.



ISO 17025:2005
Accredited
A2LA
Cert. No. 0851-01

ISO 9001:2008
Registered
TUV USA, Inc.
Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
www.ultrasci.com


William J. Leary
Quality Assurance Manager

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality



Certificate of Analysis

Custom Standard

Product Number: CUS-6504

Page: 3 of 5

Lot Number: CH-3866

Lot Issue Date: 02-Dec-2011

Expiration Date: 30-Apr-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.

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-00459 CI	10.0 ± 0.1 µg/mL
MTBE	001634-04-4	45123	10.0 ± 0.1 µg/mL
naphthalene	000091-20-3	14205 KB	10.0 ± 0.1 µg/mL
n-butylbenzene	000104-51-8	AA-28519 CO	10.0 ± 0.1 µg/mL
n-propylbenzene	000103-65-1	140503 MR	10.0 ± 0.1 µg/mL
o-xylene	000095-47-6	DO-06834 CO	10.0 ± 0.1 µg/mL
4-isopropyltoluene	000099-87-6	PP-05104 CP	10.0 ± 0.1 µg/mL
p-xylene	000106-42-3	034747 LN	10.0 ± 0.1 µg/mL
sec-butylbenzene	000135-98-8	07610 JE	10.0 ± 0.1 µg/mL
styrene	000100-42-5	LR-11228 MQ	10.0 ± 0.1 µg/mL
tert-butylbenzene	000098-06-6	MQ-04010 MQ	10.0 ± 0.1 µg/mL
tetrachloroethene	000127-18-4	PS-00344 BR	10.0 ± 0.1 µg/mL
toluene	000108-88-3	RM01216	10.0 ± 0.1 µg/mL
trans-1,2-dichloroethene	000156-60-5	01306 HD	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.



ISO 17025:2005
Accredited
A2LA
Cert. No. 0851-01

ISO 9001:2008
Registered
TUV USA, Inc.
Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
www.ultrasci.com


William J. Leary
Quality Assurance Manager

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality



Certificate of Analysis

Custom Standard

Product Number: CUS-6504

Page: 4 of 5

Lot Number: CH-3866

Lot Issue Date: 02-Dec-2011

Expiration Date: 30-Apr-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.

trans-1,3-dichloropropene	010061-02-6	SR101007-01	10.0 ± 0.1 µg/mL
trichloroethene	000079-01-6	KN-08846 KN	10.0 ± 0.1 µg/mL
trichlorofluoromethane	000075-69-4	DR-16417 BR	10.0 ± 0.1 µg/mL
vinyl chloride	000075-01-4	1201FC 10	10.0 ± 0.1 µg/mL
trans-1,4-dichloro-2-butene	000110-57-6	NT01926	100.3 ± 0.5 µg/mL
2-chloroethylvinyl ether	000110-75-8	KS-12708 TN	100.3 ± 0.5 µg/mL
2-hexanone	000591-78-6	12007 DD	100.3 ± 0.5 µg/mL
4-methyl-2-pentanone	000108-10-1	04153 EC	100.3 ± 0.5 µg/mL
acetone	000067-64-1	49098	100.3 ± 0.5 µg/mL
acrolein	000107-02-8	RM01532	100.3 ± 0.5 µg/mL
acrylonitrile	000107-13-1	RM04129	100.3 ± 0.5 µg/mL
carbon disulfide	000075-15-0	AI-12071 LU	10.0 ± 0.1 µg/mL
ethyl methacrylate	000097-63-2	04004EH	100.3 ± 0.5 µg/mL
iodomethane	000074-88-4	02412 JD	20.1 ± 0.1 µg/mL
MEK	000078-93-3	CA-02161 PO	100.3 ± 0.5 µg/mL
vinyl acetate	000108-05-4	MS-11517 PR	100.3 ± 0.5 µg/mL
nitrobenzene	000098-95-3	DI-10604 DI	20.1 ± 0.1 µg/mL

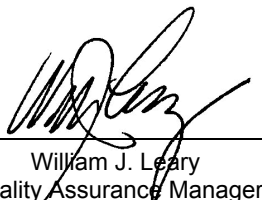
ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



ISO 17025:2005
Accredited
A2LA
Cert. No. 0851-01

ISO 9001:2008
Registered
TUV USA, Inc.
Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
www.ultrasci.com


William J. Leary
Quality Assurance Manager

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality



Certificate of Analysis

Custom Standard

Product Number: CUS-6504

Page: 5 of 5

Lot Number: CH-3866

Lot Issue Date: 02-Dec-2011

Expiration Date: 30-Apr-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.

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

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.



ISO 17025:2005
Accredited
A2LA
Cert. No. 0851-01

ISO 9001:2008
Registered
TUV USA, Inc.
Cert. No. 09-1009

250 Smith Street, North Kingstown, RI 02852 USA
401-294-9400 Fax: 295-2330
www.ultrasci.com

William J. Leary
Quality Assurance Manager

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality

250 Smith Street North Kingstown, Rhode Island 02852 www.agilent.com/quality