

## Custom Standard

**Product Number:** CUS-11464

**Page:** 1 of 5

**Lot Number:** CG-4116

**Lot Issue Date:** 24-Nov-2010

**Expiration Date:** 31-Mar-2011

This Certified Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. 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
tetrachloroethylene	000127-18-4	PS-00344BR	50.2 ± 0.3 µg/mL
tetrahydrofuran	000109-99-9	04928DN	50.2 ± 0.3 µg/mL
toluene	000108-88-3	47144	50.2 ± 0.3 µg/mL
1,2,3-trichlorobenzene	000087-61-6	12912PF	50.2 ± 0.3 µg/mL
1,2,4-trichlorobenzene	000120-82-1	00344TQ	50.2 ± 0.3 µg/mL
1,1,1-trichloroethane	000071-55-6	LU-13149TR	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
1,1,2-trichlorotrifluoroethane	000076-13-1	1367777	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
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
2-chloroethylvinyl ether	000110-75-8	KS-12708TN	50.2 ± 0.3 µg/mL
methyl acetate	000079-20-9	16318HA	50.2 ± 0.3 µg/mL
acrolein	000107-02-8	1399419	100.0 ± 0.5 µg/mL
ethanol	000064-17-5	C1002052	501.5 ± 2.5 µg/mL
tert-butanol	000075-65-0	CB-102267	250.7 ± 1.3 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.



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](http://www.ultrasci.com)



William J. Leary  
Quality Assurance Manager

250 Smith Street North Kingstown, Rhode Island 02852 [www.agilent.com/quality](http://www.agilent.com/quality)

250 Smith Street North Kingstown, Rhode Island 02852 [www.agilent.com/quality](http://www.agilent.com/quality)

## Custom Standard

**Product Number:** CUS-11464

**Page:** 2 of 5

**Lot Number:** CG-4116

**Lot Issue Date:** 24-Nov-2010

**Expiration Date:** 31-Mar-2011

Analyte	CAS#	Analyte Lot	True Value
MTBE	001634-04-4	45123	50.2 ± 0.3 µg/mL
diisopropyl ether	000108-20-3	00242EH	50.2 ± 0.3 µg/mL
ETBE	000637-92-3	14516EH	50.2 ± 0.3 µg/mL
TAME	000994-05-8	JN-12512EN	50.2 ± 0.3 µg/mL
acetone	000067-64-1	48224	50.2 ± 0.3 µg/mL
MEK	000078-93-3	CA-02161PO	50.2 ± 0.3 µg/mL
MIBK	000108-10-1	05756LQ	50.2 ± 0.3 µg/mL
2-hexanone	000591-78-6	12007DD	50.2 ± 0.3 µg/mL
vinyl acetate	000108-05-4	MS-11517PR	50.2 ± 0.3 µg/mL
t-butyl acetate	000540-88-5	17531AB	50.2 ± 0.3 µg/mL
naphthalene	000091-20-3	14205KB	50.2 ± 0.3 µg/mL
nitrobenzene	000098-95-3	HK-2925LK	50.2 ± 0.3 µg/mL
2-nitropropane	000079-46-9	11501KA	50.2 ± 0.3 µg/mL
pentachloroethane	000076-01-7	376-75A	50.2 ± 0.3 µg/mL
propionitrile	000107-12-0	06316TC	50.2 ± 0.3 µg/mL
n-propylbenzene	000103-65-1	LO-14503MR	50.2 ± 0.3 µg/mL
chloroform	000067-66-3	05143MN	50.2 ± 0.3 µg/mL
thiophene	000110-02-1	18928BO	50.2 ± 0.3 µg/mL
n-hexane	000110-54-3	4120791	50.2 ± 0.3 µg/mL
malononitrile	000109-77-3	10009EX	50.2 ± 0.3 µg/mL
cyclohexane	000110-82-7	44114	50.2 ± 0.3 µg/mL
methylcyclohexane	000108-87-2	DR-00844CR	50.2 ± 0.3 µg/mL
isopropanol	000067-63-0	45068	250.7 ± 1.3 µg/mL
hexachlorobutadiene	000087-68-3	339923/1	50.1 ± 0.3 µg/mL

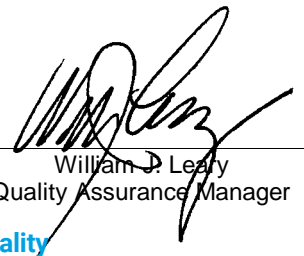
ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



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](http://www.ultrasci.com)



William J. Leary  
Quality Assurance Manager

250 Smith Street North Kingstown, Rhode Island 02852 [www.agilent.com/quality](http://www.agilent.com/quality)

250 Smith Street North Kingstown, Rhode Island 02852 [www.agilent.com/quality](http://www.agilent.com/quality)

## Custom Standard

**Product Number:** CUS-11464

**Page:** 3 of 5

**Lot Number:** CG-4116

**Lot Issue Date:** 24-Nov-2010

**Expiration Date:** 31-Mar-2011

Analyte	CAS#	Analyte Lot	True Value
acetonitrile	000075-05-8	47202	50.2 ± 0.3 µg/mL
acrylonitrile	000107-13-1	11512CH	50.2 ± 0.3 µg/mL
allyl chloride	000107-05-1	MC-070777	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
bromochloromethane	000074-97-5	JS-16015HS	50.2 ± 0.3 µg/mL
bromodichloromethane	000075-27-4	DU-14522LS	50.2 ± 0.3 µg/mL
bromoform	000075-25-2	12312KC	50.2 ± 0.3 µg/mL
n-butylbenzene	000104-51-8	AA-28519CO	50.2 ± 0.3 µg/mL
sec-butylbenzene	000135-98-8	07610JE	50.2 ± 0.3 µg/mL
tert-butylbenzene	000098-06-6	MQ-04010	50.2 ± 0.3 µg/mL
carbon disulfide	000075-15-0	AI--12071LU	50.2 ± 0.3 µg/mL
carbon tetrachloride	000056-23-5	01704MF	50.2 ± 0.3 µg/mL
chlorobenzene	000108-90-7	013148HZ	50.2 ± 0.3 µg/mL
2-chloroethanol	000107-07-3	KZ-00804LX	50.2 ± 0.3 µg/mL
chloroprene	000126-99-8	A073738	50.0 ± 0.3 µg/mL
2-chlorotoluene	000095-49-8	10018BC	50.2 ± 0.3 µg/mL
4-chlorotoluene	000106-43-4	03327TH	50.2 ± 0.3 µg/mL
dibromochloromethane	000124-48-1	CU-07705AN	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
dibromomethane	000074-95-3	EM-01514TJ	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

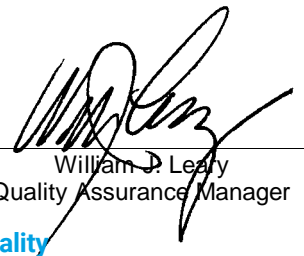
ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



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](http://www.ultrasci.com)



William J. Leary  
Quality Assurance Manager

250 Smith Street North Kingstown, Rhode Island 02852 [www.agilent.com/quality](http://www.agilent.com/quality)

250 Smith Street North Kingstown, Rhode Island 02852 [www.agilent.com/quality](http://www.agilent.com/quality)

## Custom Standard

**Product Number:** CUS-11464

**Page:** 4 of 5

**Lot Number:** CG-4116

**Lot Issue Date:** 24-Nov-2010

**Expiration Date:** 31-Mar-2011

Analyte	CAS#	Analyte Lot	True Value
1,4-dichlorobenzene	000106-46-7	22628EB	50.2 ± 0.3 µg/mL
cis-1,4-dichloro-2-butene	001476-11-5	10552TC	50.2 ± 0.3 µg/mL
trans-1,4-dichloro-2-butene	000110-57-6	17013BH	50.2 ± 0.3 µg/mL
1,1-dichloroethane	000075-34-3	64552/1	50.2 ± 0.3 µg/mL
1,2-dichloroethane	000107-06-2	KN-09446KN	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	05602PH	50.2 ± 0.3 µg/mL
trans-1,2-dichloroethene	000156-60-5	01306HD	50.2 ± 0.3 µg/mL
1,2-dichloropropane	000078-87-5	DC-120777	50.2 ± 0.3 µg/mL
1,3-dichloropropane	000142-28-9	PO-18920BO	50.2 ± 0.3 µg/mL
2,2-dichloropropane	000594-20-7	03503TD	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	PR051109-01	50.2 ± 0.3 µg/mL
trans-1,3-dichloropropene	010061-02-6	101007-01	50.2 ± 0.3 µg/mL
diethyl ether	000060-29-7	07283DH	50.2 ± 0.3 µg/mL
1,4-dioxane	000123-91-1	05340DD	501.5 ± 2.5 µg/mL
ethylbenzene	000100-41-4	01558CC	50.2 ± 0.3 µg/mL
ethyl methacrylate	000097-63-2	AO-09819AS	50.2 ± 0.3 µg/mL
iodomethane	000074-88-4	02412JD	50.2 ± 0.3 µg/mL
isobutyl alcohol	000078-83-1	01809KH	50.2 ± 0.3 µg/mL
isopropylbenzene	000098-82-8	02827BH	50.2 ± 0.3 µg/mL
4-isopropyltoluene	000099-87-6	PP-05104CP	50.2 ± 0.3 µg/mL
methacrylonitrile	000126-98-7	PI-00427ET	50.2 ± 0.3 µg/mL
methyl acrylate	000096-33-3	HF-01125BF	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.



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](http://www.ultrasci.com)



William J. Leary  
Quality Assurance Manager

250 Smith Street North Kingstown, Rhode Island 02852 [www.agilent.com/quality](http://www.agilent.com/quality)

250 Smith Street North Kingstown, Rhode Island 02852 [www.agilent.com/quality](http://www.agilent.com/quality)

## Custom Standard

**Product Number:** CUS-11464**Page:** 5 of 5**Lot Number:** CG-4116**Lot Issue Date:** 24-Nov-2010**Expiration Date:** 31-Mar-2011

Analyte	CAS#	Analyte Lot	True Value
methyl methacrylate	000080-62-6	15810LB	50.2 ± 0.3 µg/mL
methylene chloride	000075-09-2	48191	50.2 ± 0.3 µg/mL
styrene	000100-42-5	LR-11228MQ	50.2 ± 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
2,2,4-trimethylpentane	000540-84-1	45237	50.2 ± 0.3 µg/mL
1,3-butadiene	000106-99-0	14096PJ	50.2 ± 0.3 µg/mL
1-chloropropane	000540-54-5	CQ-01123HN	50.2 ± 0.3 µg/mL
2-chloropropane	000075-29-6	72157	50.2 ± 0.3 µg/mL

**Matrix:** methanol (methyl alcohol)**Storage:** Store at < 4° C

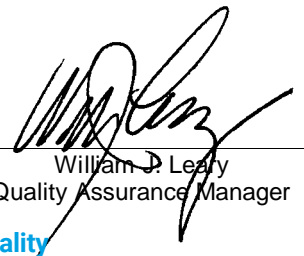
ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



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](http://www.ultrasci.com)



William J. Leary  
Quality Assurance Manager

250 Smith Street North Kingstown, Rhode Island 02852 [www.agilent.com/quality](http://www.agilent.com/quality)

250 Smith Street North Kingstown, Rhode Island 02852 [www.agilent.com/quality](http://www.agilent.com/quality)