

VOC Mixture

Product Number: DWM-588

Page: 1 of 3

Lot Number: CG-2873

Lot Issue Date: Aug-2010

Expiration Date: Sep-2013

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
bromochloromethane	000074-97-5	JS-16015HS	2006 ± 10 µg/mL
bromodichloromethane	000075-27-4	10529HD	2006 ± 10 µg/mL
bromoform	000075-25-2	12312KC	2006 ± 10 µg/mL
carbon tetrachloride	000056-23-5	01704MF	2006 ± 10 µg/mL
chloroform	000067-66-3	05143MN	2006 ± 10 µg/mL
dibromochloromethane	000124-48-1	CU-07705AN	2006 ± 10 µg/mL
dibromomethane	000074-95-3	EM-01514TJ	2006 ± 10 µg/mL
methylene chloride	000075-09-2	48191	2006 ± 10 µg/mL
trichlorofluoromethane	000075-69-4	DR-16417BR	2006 ± 10 µg/mL
1,2-dibromoethane	000106-93-4	TB-101777	2006 ± 10 µg/mL
1,1-dichloroethane	000075-34-3	64552/1	2006 ± 10 µg/mL
1,2-dichloroethane	000107-06-2	KN-09446KN	2006 ± 10 µg/mL
1,1-dichloroethene	000075-35-4	02226CH	2006 ± 10 µg/mL
cis-1,2-dichloroethene	000156-59-2	05602PH	2006 ± 10 µg/mL
trans-1,2-dichloroethene	000156-60-5	01306HD	2006 ± 10 µg/mL
1,1,1,2-tetrachloroethane	000630-20-6	10312DD	2006 ± 10 µg/mL
1,1,2,2-tetrachloroethane	000079-34-5	10917TB	2006 ± 10 µg/mL
tetrachloroethene	000127-18-4	PS-00344BR	2006 ± 10 µg/mL
1,1,1-trichloroethane	000071-55-6	LU-13149TR	2006 ± 10 µg/mL
1,1,2-trichloroethane	000079-00-5	JB-0701HH	2006 ± 10 µg/mL

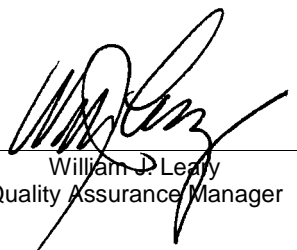
ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



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

VOC Mixture

Product Number: DWM-588

Page: 2 of 3

Lot Number: CG-2873

Lot Issue Date: Aug-2010

Expiration Date: Sep-2013

Analyte	CAS#	Analyte Lot	True Value
trichloroethene	000079-01-6	KN-08846KN	2006 ± 10 µg/mL
1,2-dibromo-3-chloropropane	000096-12-8	FBL-01	2006 ± 10 µg/mL
1,2-dichloropropane	000078-87-5	DC-120777	2006 ± 10 µg/mL
1,3-dichloropropane	000142-28-9	PO-18920BO	2006 ± 10 µg/mL
2,2-dichloropropane	000594-20-7	03503TD	2006 ± 10 µg/mL
1,1-dichloropropene	000563-58-6	PR111308-01	2006 ± 10 µg/mL
cis-1,3-dichloropropene	010061-01-5	PR051109-01	2006 ± 10 µg/mL
trans-1,3-dichloropropene	010061-02-6	101007-01	2006 ± 10 µg/mL
hexachlorobutadiene	000087-68-3	339923/1	2004 ± 10 µg/mL
1,2,3-trichloropropane	000096-18-4	01610KH	2006 ± 10 µg/mL
naphthalene	000091-20-3	14205KB	2006 ± 10 µg/mL
benzene	000071-43-2	34097	2006 ± 10 µg/mL
n-butylbenzene	000104-51-8	AA-28519CO	2006 ± 10 µg/mL
sec-butylbenzene	000135-98-8	07610JE	2006 ± 10 µg/mL
tert-butylbenzene	000098-06-6	MQ-04010MQ	2006 ± 10 µg/mL
ethylbenzene	000100-41-4	01558CC	2006 ± 10 µg/mL
isopropylbenzene	000098-82-8	02827BH	2006 ± 10 µg/mL
4-isopropyltoluene	000099-87-6	PP-05104CP	2006 ± 10 µg/mL
n-propylbenzene	000103-65-1	LO-14503MR	2006 ± 10 µg/mL
styrene	000100-42-5	LR-11228MQ	2006 ± 10 µg/mL
toluene	000108-88-3	47144	2006 ± 10 µg/mL
1,2,4-trimethylbenzene	000095-63-6	BO-13528BI	2006 ± 10 µg/mL
1,3,5-trimethylbenzene	000108-67-8	KM-02011HM	2006 ± 10 µg/mL
o-xylene	000095-47-6	DO-06834CO	2006 ± 10 µg/mL

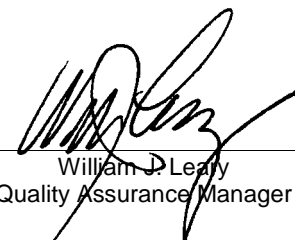
ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



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

VOC Mixture

Product Number: DWM-588

Page: 3 of 3

Lot Number: CG-2873

Lot Issue Date: Aug-2010

Expiration Date: Sep-2013

Analyte	CAS#	Analyte Lot	True Value
m-xylene	000108-38-3	DI-00459CI	2006 ± 10 µg/mL
p-xylene	000106-42-3	03747LN	2006 ± 10 µg/mL
1,4-dichlorobenzene	000106-46-7	22628EB	2006 ± 10 µg/mL
bromobenzene	000108-86-1	CG-02513MF	2006 ± 10 µg/mL
chlorobenzene	000108-90-7	013148HZ	2006 ± 10 µg/mL
2-chlorotoluene	000095-49-8	10018BC	2006 ± 10 µg/mL
4-chlorotoluene	000106-43-4	03327TH	2006 ± 10 µg/mL
1,2-dichlorobenzene	000095-50-1	08946KY	2006 ± 10 µg/mL
1,3-dichlorobenzene	000541-73-1	JN-05902LZ	2006 ± 10 µg/mL
1,2,3-trichlorobenzene	000087-61-6	00334TQ	2006 ± 10 µg/mL
1,2,4-trichlorobenzene	000120-82-1	12912PF	2006 ± 10 µg/mL
bromomethane	000074-83-9	06623AQ	2008 ± 10 µg/mL
chloroethane	000075-00-3	00223KG	2009 ± 10 µg/mL
chloromethane	000074-87-3	07-44048	2009 ± 10 µg/mL
dichlorodifluoromethane	000075-71-8	N960053	2009 ± 10 µg/mL
vinyl chloride	000075-01-4	03916HJ	2009 ± 10 µg/mL

Matrix: methanol (methyl alcohol)

Storage: Store at < 4° C

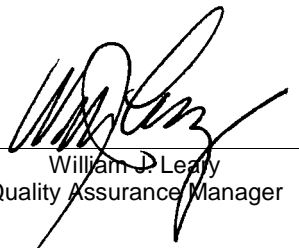
ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



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



William J. Leary
Quality Assurance Manager