



# Certificate of Analysis

## Custom Standard

**Product Number:** CUS-6531

**Page:** 1 of 4

**Lot Number:** CH-4068

**Lot Issue Date:** 22-Dec-2011

**Expiration Date:** 31-Jul-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
1,4-dioxane	000123-91-1	05340DD	100.2 ± 0.5 µg/mL
N-nitrosodimethylamine	000062-75-9	RM00104-01	100.4 ± 0.5 µg/mL
benzaldehyde	000100-52-7	08505LB	100.2 ± 0.5 µg/mL
bis(2-chloroethyl) ether	000111-44-4	RM00079-0	100.4 ± 0.5 µg/mL
phenol	000108-95-2	RM01227	100.3 ± 0.5 µg/mL
2-chlorophenol	000095-57-8	RM01871	100.3 ± 0.5 µg/mL
1,3-dichlorobenzene	000541-73-1	05902LZ	100.2 ± 0.5 µg/mL
1,4-dichlorobenzene	000106-46-7	22628EB	100.2 ± 0.5 µg/mL
1,2-dichlorobenzene	000095-50-1	08946KY	100.2 ± 0.5 µg/mL
bis(2-chloroisopropyl) ether	000108-60-1	PR-13666	100.0 ± 0.5 µg/mL
2-methylphenol	000095-48-7	09416AA	100.2 ± 0.5 µg/mL
acetophenone	000098-86-2	07705JD	100.2 ± 0.5 µg/mL
hexachloroethane	000067-72-1	12604HB	100.2 ± 0.5 µg/mL
N-nitrosodi-n-propylamine	000621-64-7	RM00105-01	100.0 ± 0.5 µg/mL
3-methylphenol	000108-39-4	03517AG	100.2 ± 0.5 µg/mL
4-methylphenol	000106-44-5	09410PI	100.2 ± 0.5 µg/mL
nitrobenzene	000098-95-3	DI-10604DI	100.2 ± 0.5 µg/mL
isophorone	000078-59-1	10830MQ	100.2 ± 0.5 µg/mL
2-nitrophenol	000088-75-5	RM02400	100.3 ± 0.5 µg/mL

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2,4-dimethylphenol	000105-67-9	RM02102	100.3 ± 0.5 µg/mL
bis(2-chloroethoxy)methane	000111-91-1	RM01680-0	100.4 ± 0.5 µg/mL
benzoic acid	000065-85-0	00103JM	200.5 ± 1.0 µg/mL
2,4-dichlorophenol	000120-83-2	RM02094	100.3 ± 0.5 µg/mL
1,2,4-trichlorobenzene	000120-82-1	00334TQ	100.2 ± 0.5 µg/mL
naphthalene	000091-20-3	14205KB	100.2 ± 0.5 µg/mL
2,6-dichlorophenol	000087-65-0	03518LN	100.2 ± 0.5 µg/mL
hexachlorobutadiene	000087-68-3	339923/1	100.2 ± 0.5 µg/mL
ε-caprolactam	000105-60-2	06716LQ	100.2 ± 0.5 µg/mL
4-chloro-3-methylphenol	000059-50-7	RM01885	100.3 ± 0.5 µg/mL
1-methylnaphthalene	000090-12-0	12114BE	100.2 ± 0.5 µg/mL
1,2,4,5-tetrachlorobenzene	000095-94-3	N950075	100.2 ± 0.5 µg/mL
hexachlorocyclopentadiene	000077-47-4	RM00374-01	100.0 ± 0.5 µg/mL
2,4,6-trichlorophenol	000088-06-2	RM02568	100.3 ± 0.5 µg/mL
2,4,5-trichlorophenol	000095-95-4	07521CO	100.2 ± 0.5 µg/mL
biphenyl	000092-52-4	NT01492-00	100.4 ± 0.5 µg/mL
2-chloronaphthalene	000091-58-7	FIJ02	100.2 ± 0.5 µg/mL
acenaphthylene	000208-96-8	RM00819-01	100.4 ± 0.5 µg/mL
dimethyl phthalate	000131-11-3	RM00091-01	100.4 ± 0.5 µg/mL

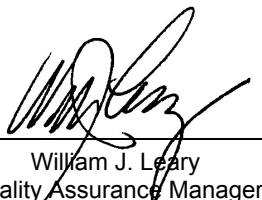
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2,6-dinitrotoluene	000606-20-2	08328CR	100.2 ± 0.5 µg/mL
acenaphthene	000083-32-9	29697-41	100.3 ± 0.5 µg/mL
2,4-dinitrophenol	000051-28-5	RM02105	200.6 ± 1.0 µg/mL
2,4-dinitrotoluene	000121-14-2	18219TA	100.2 ± 0.5 µg/mL
4-nitrophenol	000100-02-7	RM02404	200.6 ± 1.0 µg/mL
2,3,4,6-tetrachlorophenol	000058-90-2	ER100206-01	100.2 ± 0.5 µg/mL
fluorene	000086-73-7	04003CK	100.3 ± 0.5 µg/mL
4-chlorophenyl phenyl ether	007005-72-3	NT01369	100.2 ± 0.5 µg/mL
diethyl phthalate	000084-66-2	04114MS	100.1 ± 0.5 µg/mL
2-methyl-4,6-dinitrophenol	000534-52-1	RM02292	200.2 ± 1.0 µg/mL
N-nitrosodiphenylamine	000086-30-6	286003	100.0 ± 0.5 µg/mL
1,2-diphenylhydrazine	000122-66-7	RM02093-01	100.4 ± 0.5 µg/mL
4-bromophenyl phenyl ether	000101-55-3	RM01804-0	100.2 ± 0.5 µg/mL
hexachlorobenzene	000118-74-1	RM03125-02	100.0 ± 0.5 µg/mL
atrazine	001912-24-9	RM03843-01	100.0 ± 0.5 µg/mL
pentachlorophenol	000087-86-5	RM02473	200.6 ± 1.0 µg/mL
phenanthrene	000085-01-8	1290378	100.3 ± 0.5 µg/mL
anthracene	000120-12-7	09924AJ	100.3 ± 0.5 µg/mL
di-n-butyl phthalate	000084-74-2	RM00089-02	100.1 ± 0.5 µg/mL

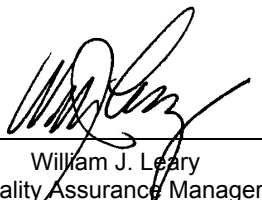
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fluoranthene	000206-44-0	NT00940-00	100.0 ± 0.5 µg/mL
pyrene	000129-00-0	ER050305-03	100.3 ± 0.5 µg/mL
butyl benzyl phthalate	000085-68-7	RM00960-01	100.2 ± 0.5 µg/mL
benz[a]anthracene	000056-55-3	RM01440	100.3 ± 0.5 µg/mL
chrysene	000218-01-9	RM01747	100.3 ± 0.5 µg/mL
bis(2-ethylhexyl) phthalate	000117-81-7	RM00081-01	100.2 ± 0.5 µg/mL
di-n-octyl phthalate	000117-84-0	RM01159-01	100.1 ± 0.5 µg/mL
benzo[b]fluoranthene	000205-99-2	RM01444	100.3 ± 0.5 µg/mL
benzo[k]fluoranthene	000207-08-9	30893-34	100.3 ± 0.5 µg/mL
benzo[a]pyrene	000050-32-8	RM01390	100.1 ± 0.5 µg/mL
indeno[1,2,3-cd]pyrene	000193-39-5	ER082107-02/HKY-	100.3 ± 0.5 µg/mL
dibenz[a,h]anthracene	000053-70-3	EGM-30717-70	100.3 ± 0.5 µg/mL
benzo[ghi]perylene	000191-24-2	31331-40/EGM-	100.3 ± 0.5 µg/mL

**Matrix:** acetone/methylene chloride (85:15)

**Storage:** Store at < 4° C

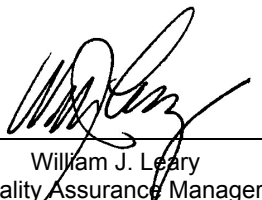
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