



# Certificate of Analysis

## Phenols Mixture

**Product Number:** PHM-804

**Page:** 1 of 2

**Lot Number:** CF-4697A

**Lot Issue Date:** 10-Jan-2012

**Expiration Date:** 28-Feb-2014

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
4-chloro-3-methylphenol	000059-50-7	061657	100.4 ± 0.5 µg/mL
2-chlorophenol	000095-57-8	09106BQ	100.4 ± 0.5 µg/mL
m-cresol	000108-39-4	03517AG	100.0 ± 0.5 µg/mL
o-cresol	000095-48-7	09416AA	100.0 ± 0.5 µg/mL
p-cresol	000106-44-5	09410PI	100.0 ± 0.5 µg/mL
2,4-dichlorophenol	000120-83-2	05729EZ	100.4 ± 0.5 µg/mL
2,6-dichlorophenol	000087-65-0	MS03518LN	100.0 ± 0.5 µg/mL
2,4-dimethylphenol	000105-67-9	010010	100.4 ± 0.5 µg/mL
2-methyl-4,6-dinitrophenol	000534-52-1	42136/4	100.3 ± 0.5 µg/mL
2,4-dinitrophenol	000051-28-5	CEE-III-130	100.4 ± 0.5 µg/mL
2-nitrophenol	000088-75-5	N980025	100.4 ± 0.5 µg/mL
4-nitrophenol	000100-02-7	5518HE	100.4 ± 0.5 µg/mL
pentachlorophenol	000087-86-5	07119HO	100.4 ± 0.5 µg/mL
phenol	000108-95-2	1373574	100.4 ± 0.5 µg/mL
2,3,4,6-tetrachlorophenol	000058-90-2	ER100206-01	100.0 ± 0.5 µg/mL
2,4,5-trichlorophenol	000095-95-4	07521CO	100.0 ± 0.5 µg/mL
2,4,6-trichlorophenol	000088-06-2	07509ME	100.0 ± 0.5 µg/mL

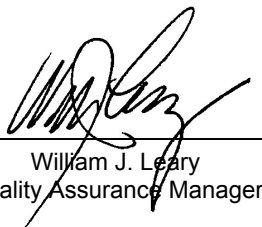
ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.



ISO 17025:2005  
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ISO 9001:2008  
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TUV USA, Inc.  
Cert. No. 09-1009

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William J. Leary  
Quality Assurance Manager



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**Matrix:** methanol (methyl alcohol)

**Storage:** Store at Room Temperature (18-25° 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.



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