Method

References: APHA Standard Methods, 14th ed., Method 510 C (1975). ASTM D 1783-01, Phenolic Compounds in Water, Test Method B. USEPA Methods for Chemical Analysis of Water and Wastes, Method 420.1 (1983).

Phenol (hydroxybenzene) is the simplest of a group of similar organic chemicals, which includes cresols, xylenols, and catechols. Phenol itself is a common ingredient of disinfectants. In drinking water, low-level phenolic concentrations impart a foul taste and odor, especially upon chlorination. High phenol concentrations can indicate contamination from industrial effluents or waste discharge.

The method is applicable to the monitoring of phenolic compounds in wastewater.

CHEMetrics' phenols kits employ the well-established 4-aminoantipyrine (4-AAP) method. Phenolic compounds react with 4-AAP in alkaline solution in the presence of ferricyanide to produce a red reaction product. Phenol, meta-, and ortho-substituted phenols, and some para-substituted phenols, under proper pH conditions, are detected with this method. Results are expressed as ppm (mg/L) phenol.

Visual Kits

instructions and MSDS.

Range: 0-1 & 0-12 ppm MDL: 0.05 ppm / Method: 4-Aminoantipyrine	
CHEMets Kit	Cat# K-8012
CHEMets Refill, 30 ampoules	R-8012
Low Range Comparator 0, 0.1, 0.2, 0.3, 0.4, 0.6, 0.8, 1.0 ppm	C-8001
High Range Comparator 0, 1, 2, 3, 4, 6, 8, 10, 12 ppm	C-8012
Kit comes in a plastic case and contains everything needed to perform 30 tests: Refill, Low and High Range Comparators, 25 mL sample cup,	

Range: 0-30 & 0-350 ppm MDL: 5 ppm / Method: 4-Aminoantipyrine	
VACUettes Kit	Cat# K-8012D
VACUettes Refill, 30 ampoules	R-8012D
Low Range Comparator 0, 5, 7.5, 10, 15, 20, 25, 30 ppm	C-8001D
High Range Comparator 0, 30, 75, 100, 150, 200, 250, 300, 350 ppm	C-8012D
Kit comes in a plastic case and contains everything needed to perform 30 tests (except distilled water): Refill, Low and High Range Comparators, dilutor snapper cup, micro test tube, instructions, and MSDS.	

Range: 0-60 & 0-700 ppm MDL: 10 ppm / Method: 4-Aminoantipyrine		
	Cat#	
VACUettes Kit	K-8012A	
VACUettes Refill, 30 ampoules	R-8012A	
Low Range Comparator 0, 10, 15, 20, 30, 40, 50, 60 ppm	C-8001A	
High Range Comparator 0, 60, 150, 200, 300, 400, 500, 600, 700 ppm	C-8012A	
Kit comes in a plastic case and contains everything needed to perform 30 tests (except distilled water): Refill, Low and High Range Comparators, dilutor snapper cup, micro test tube, instructions, and MSDS.		

Range: 0-120 & 0-1400 ppm MDL: 20 ppm / Method: 4-Aminoantipyrine	
VACUettes Kit	Cat# K-8012B
VACUettes Refill, 30 ampoules	R-8012B
Low Range Comparator 0, 20, 30, 40, 60, 80, 100, 120 ppm	C-8001B
High Range Comparator 0, 120, 300, 400, 600, 800, 1000, 1200, 1400 ppm	C-8012B
Kit comes in a plastic case and contains everything needed to petests (except distilled water): Refill, Low and High Range Compasnapper cup, micro test tube, instructions, and MSDS.	

Range: 0-1000 & 0-13000 ppm MDL: 100 ppm / Method: 4-Aminoantipyrine		
VACUettes Kit	Cat# K-8012C	
VACUettes Refill, 30 ampoules	R-8012C	
Low Range Comparator 0, 100, 200, 300, 400, 600, 800, 1000 ppm	C-8001C	
High Range Comparator 0, 1000, 2000, 3000, 5000, 7000, 9000, 11,000, 13,000 ppm	C-8012C	
Kit comes in a plastic case and contains everything needed to perform 30 tests (except distilled water): Refill, Low and High Range Comparators, dilutor snapper cup, micro test tube, instructions, and MSDS.		

If no shelf-life is listed for a product, then the shelf-life is at least 2 years.



V-2000 Multi-Analyte Photometer

(See page 12 for instrumental features)

Range: 0.40-8.00 ppm Method: 4-Aminoantipyrine

Vacu-vials Kit K-8003

Kit comes in a cardboard box and contains everything needed to perform 30 tests: thirty ampoules, 25 mL sample cup, ampoule blank, instructions, calibration table, and MSDS.

Range: 1.0-20.0 ppm Method: 4-Aminoantipyrine

Vacu-vials Kit K-8023

Kit comes in a cardboard box and contains everything needed to perform 30 tests: thirty ampoules, 25 mL sample cup, ampoule blank, instructions, calibration table, and MSDS.

Vacu-vials Kits require the use of the V-2000 Photometer or a spectrophotometer capable of accepting a 13 mm diameter round cell. Instrument sold separately.

Kit Components common to Phenols	
Description	Cat#
Sample Cup Pack, 25 mL (6 ea) Micro Test Tube Pack (10 ea) Dilutor Snapper Cup Pack (6 ea) Ampoule Blank Pack (5 ea)	A-0013 A-0015 A-0018 A-0023

Instructions are posted on our website.

