PhenoIs CHEMets® Kit

K-8012/R-8012: 0 - 1 & 0 - 12 ppm

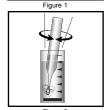
Safety Information

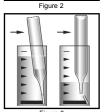
Read SDS (available at www.chemetrics.com) before performing this test procedure. Wear safety glasses and protective gloves.

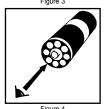
Test Procedure

- 1. Fill the sample cup to the 25 mL mark with the sample to be tested (fig. 1).
- 2. Dissolve the crystals on the tip of the ampoule in the sample by stirring the sample briefly with the ampoule tip (fig. 2).
- 3. Place the CHEMet ampoule, tip first, into the sample cup. Snap the tip. The ampoule will fill leaving a bubble for mixing (fig. 3).
- To mix the ampoule, invert it several times, allowing the bubble to travel from end to end.
- 5. Dry the ampoule. Obtain a test result **1 minute** after snapping the tip.
- 6. Obtain a test result using the appropriate comparator.
 - a. Low Range Comparator (fig. 4): Place the ampoule, flat end first, into the comparator. Hold the comparator up toward a source of light and view from the bottom. Rotate the comparator until the best color match is found.









b. High Range Comparator (fig. 5): Place the ampoule between the color standards until the best color match is found.

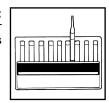


Figure 5

Test Method

The Phenols CHEMets®1 test kit employs the 4-aminoantipyrine chemistry. 2,3,4 In an alkaline solution, phenols react with 4-aminoantipyrine to produce a red colored complex. The color forming reaction is initiated by potassium ferricyanide (tip coating). Test results are expressed in ppm (mg/Liter) "equivalent phenol" as C_6H_5OH .

Most parasubstituted phenols do not produce a color with this reagent. Ferrous iron causes a blue color which can be eliminated by adding several drops of 1% EDTA to the sample before dissolving the tip coating. Sulfide, in excess of 100 ppm, causes a yellow turbidity. Highly contaminated waste waters may require distillation to separate phenols from nonvolatile impurities.

- CHEMets is a registered trademark of CHEMetrics, Inc. U.S. Patent No. 3,634,038
- 2. APHA Standard Methods, 14th ed., Method 510 C (1975)
- 3. ASTM D 1783 01, Phenolic Compounds in Water, Test Method B
- 4. EPA Methods for Chemical Analysis of Water and Wastes, method 420.1 (1983)

Visit www.chemetrics.com to view product demonstration videos.

Always follow the test procedure above to perform a test.



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