Bromine CHEMets[®] Kit

K-1605/R-1605: 0 - 2 & 2 - 10 ppm

Safety Information

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

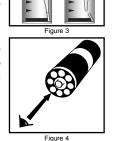
Test Procedure

- 1. Add 5 drops of A-1600 Activator Solution to the empty sample cup (fig 1).
- 2. Fill the sample cup to the 25 mL mark with the sample to be tested (fig 2).
- 3. Immediately place the CHEMet ampoule, tip first, into the sample cup and snap the tip. The ampoule will fill leaving a bubble for mixing (fig 3).
- Figure 1 ml 4 25 ← < 20 ► < 15 F ◄ 10 ► < 5 ►

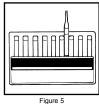
Figure 2

- 15 P

- 4. To mix the ampoule, invert it several times, allowing the bubble to travel from end to end.
- 5. Dry the ampoule and wait 1 minute for color development.
- 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.



Test Method

The Bromine CHEMets^{®1} test kit employs the DPD chemistry.^{2,3} The sample is treated with an excess of potassium iodide. Bromine oxidizes the iodide to iodine. The iodine then oxidizes DPD (N.N-diethyl-p-phenylenediamine) to form a pink colored species in direct proportion to the bromine concentration.

Various oxidizing agents such as halogens, ferric ions and cupric ions will produce high test results.

- 1. Vacu-vials is a registered trademark of CHEMetrics, Inc. U.S. Patent No. 3,634,038
- 2. APHA Standard Methods, 21st ed., method 4500-CI G (2005)
- 3. EPA Methods for Chemical Analysis of Water and Wastes, method 330.5 (1983)

Visit www.chemetrics.com to view product demonstration videos. Always follow the test procedure above to perform a test.



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Aug. 12, Rev. 3