Bromine CHEMets® Kit

K-1605/R-1605: 0 - 2.2 & 0 - 11 ppm

Safety Information

Read SDS (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).
- 4. To mix the ampoule, invert it several times, allowing the bubble to travel from end to
- 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.



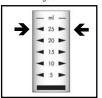


Figure 2

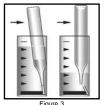
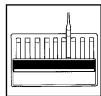


Figure 3



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. CHEMets is a registered trademark of CHEMetrics, Inc. U.S. Patent No. 3,634,038
- 2. APHA Standard Methods, 22nd ed., Method 4500-Cl G 2000
- 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.



www.chemetrics.com 4295 Catlett Road, Midland, VA 22728 U.S.A. Phone: (800) 356-3072; Fax: (540) 788-4856 E-Mail: orders@chemetrics.com

Mar. 18, Rev. 5