Bromine CHEMets® Kit

K-1605/R-7904: 0 - 2.2 & 0 - 11 ppm

Test Procedure

- 1. Add 5 drops of S-2500 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 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.



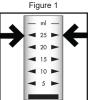


Figure 2





Figure 4

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 AquaPhoenix Scientific, LLC U.S. Patent No. 3,634,038

2. APHA Standard Methods, 23rd ed., Method 4500-Cl G - 2000

3. EPA Methods for Chemical Analysis of Water and Wastes, Method 330.5 (1983)

Safety Information

Read SDS before performing this test procedure. Wear safety glasses and protective gloves.

