Peracetic Acid CHEMets® Kit

K-7904/R-7904: 0 - 1 & 1 - 5 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-7900 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 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.

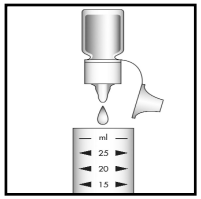

Figure 1

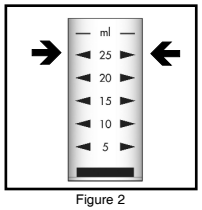

Figure 2

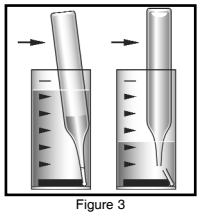
Figure 3


Figure 4

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

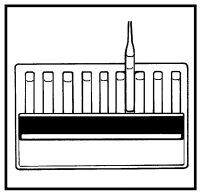
Figure 5

Test Method

The Peracetic Acid CHEMets®[1] test kit employs the DPD chemistry.[2,3] The sample is treated with an excess of potassium iodide. Peracetic acid 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 peracetic acid concentration.

Various oxidizing agents such as halogens, ferric ions and cupric ions will produce high test results. Hydrogen peroxide does <u>not</u> interfere with this test if present at levels comparable to the peracetic acid levels.

1. CHEMets is a registered trademark of CHEMetrics, Inc. U.S. Patent No. 3,634,038
2. APHA Standard Methods, 21st ed., method 4500-Cl 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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