

# Manganese CHEMets® Kit

**K-6502/R-6502:** 0 - 2 ppm

## Safety Information

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

## Test Procedure

1. Fill the sample cup to the 5 mL mark with the sample to be tested (fig 1).
2. Add 5 drops of A-6500 Activator Solution (fig 2). Stir to mix the contents of the cup.
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).
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 by placing 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 (fig 4).

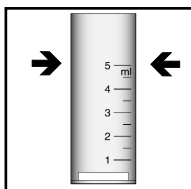


Figure 1

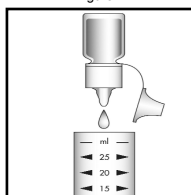


Figure 2

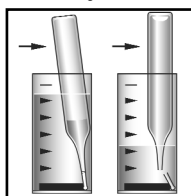


Figure 3

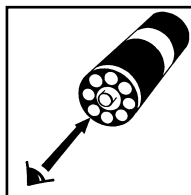


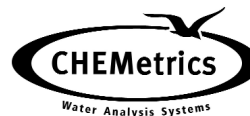
Figure 4

## Test Method

The Manganese CHEMets®<sup>1</sup> test method employs the periodate oxidation chemistry.<sup>2</sup> Soluble manganous compounds are oxidized by periodate in a slightly acidic solution to form permanganate ion. The resulting pink color is proportional to the manganese concentration.

1. CHEMets is a registered trademark of CHEMetrics, Inc. U.S. Patent No. 3,634,038
2. APHA Standard Methods, 14th ed., method 314C (1975).

Visit [www.chemetrics.com](http://www.chemetrics.com) to view product demonstration videos.  
Always follow the test procedure above to perform a test.



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