

# Manganese CHEMets®

## 0 - 2 ppm

### Test Procedure

1. Fill the sample cup to the 5 mL mark with the sample (fig 1).
2. Add 5 drops of A-6500 Activator Solution (fig 2). Stir briefly with the tip of the ampoule to mix the contents of the sample cup.
3. Place the CHEMet ampoule in the sample cup. Snap the tip by pressing the ampoule against the side of the cup. The ampoule will fill leaving a small bubble to facilitate mixing (fig 3).
4. Mix the contents of the ampoule by inverting it several times, allowing the bubble to travel from end to end each time. Wipe all liquid from the exterior of the ampoule. Wait **1 minute** for color development.
5. Place the CHEMet ampoule, flat end downward into the center tube of the comparator. Direct the top of the comparator up toward a source of bright light while viewing from the bottom. Rotate the comparator until the color standard below the CHEMet ampoule shows the closest match (fig 4). If the color of the CHEMet ampoule is between two color standards, a concentration estimate can be made.

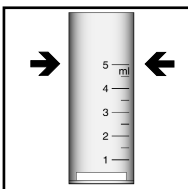


Figure 1

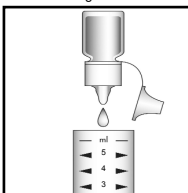


Figure 2

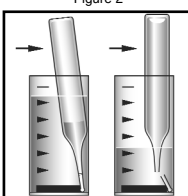


Figure 3

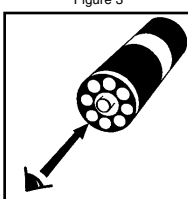


Figure 4

### 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 in the sample. Results are expressed in ppm (mg/Liter) Mn.

1. CHEMets is a registered trademark of CHEMetrics, Inc. U.S. Patent No. 3,634,038
2. APHA Standard Methods, 14th ed., p.227, method 314C (1975).

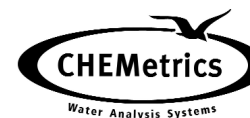
### Safety Information

Read MSDS before performing this test procedure. Wear safety glasses.

### Reorder Information

### Cat. No.

<i>Test Kit, complete</i> .....	<i>K-6502</i>
<i>Refill, 30 CHEMet ampoules</i> .....	<i>R-6502</i>
<i>Activator Solution, six 20 mL bottles</i> .....	<i>A-6500</i>
<i>Sample Cup, 5 mL, package of six</i> .....	<i>A-0105</i>
<i>Comparator, 0-2 ppm</i> .....	<i>C-6502</i>



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[www.chemetrics.com](http://www.chemetrics.com) Jan. 07, Rev. 7