

Molybdate CHEMets®

0 - 7 ppm

Safety Information

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

Test Procedure

1. Fill the sample cup to the 25 mL mark with the sample (fig 1).
2. 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 2).
3. 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.
4. Place the CHEMet ampoule, flat end down-ward 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 3). If the color of the CHEMet ampoule is between two color standards, a concentration estimate can be made.

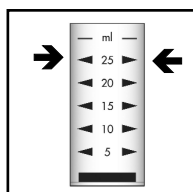


Figure 1

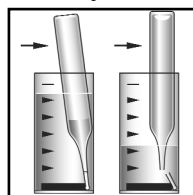


Figure 2



Figure 3

NOTE: Test results are expressed in ppm (mg/L) molybdenum (Mo). To convert test results to ppm (mg/L) molybdate (MoO_4^-), multiply test results by 1.67.

Test Method

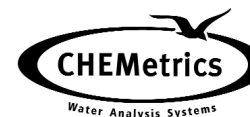
The Molybdate CHEMets¹ test method employs the catechol^{2,3} chemistry. In a mildly reducing alkaline solution, catechol reacts with hexavalent molybdenum to form a yellow-orange colored chelate in direct proportion to the hexavalent molybdenum concentration. Test results are expressed in ppm (mg/Liter) molybdenum (Mo).

1. CHEMets is a registered trademark of CHEMetrics, Inc. U.S. Patent No. 3,634,038
2. G.P. Haight and V. Paragamian, Anal. Chem., 32,642 (1960)
3. H. Onishi and E. B. Sandell, Photometric Determination of Trace Metals. 4th ed., Part I, p. 295 (1978)

Reorder Information

Cat. No.

<i>Test Kit, complete</i>	<i>K-6701</i>
<i>Refill, 30 CHEMet ampoules</i>	<i>R-6702</i>
<i>Sample Cup, 25 mL, package of six</i>	<i>A-0013</i>
<i>Comparator, 0-7 ppm</i>	<i>C-6701</i>



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