

Nitrite CHEMets®

0 - 2 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 **10 minutes** for color development.
4. Hold the comparator in a nearly horizontal position while standing directly beneath a bright source of light. Place the CHEMet ampoule between the color standards moving it from left to right along the comparator until the best color match is found (fig 3). If the color of the CHEMet ampoule is between two color standards, a concentration estimate can be made.

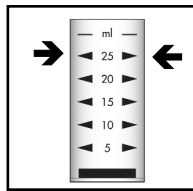


Figure 1

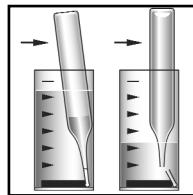


Figure 2

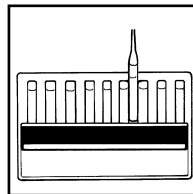


Figure 3

NOTE: To convert to ppm (mg/Liter) nitrite as NO₂, simply multiply test results by 3.3.

Test Method

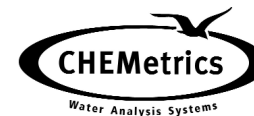
The Nitrite CHEMets®¹ test method employs the azo dye formation method.² In an acidic solution, nitrite diazotizes with a primary aromatic amine and then couples with another organic molecule to produce a highly colored azo dye. The resulting pink-orange color is proportional to the nitrite concentration in the sample. Results are expressed in ppm (mg/Liter) NO₂-N.

1. CHEMets is a registered trademark of CHEMetrics, Inc. U.S. Patent No. 3,634,038
2. APHA Standard Methods, 20th ed., p. 4-112, method 4500-NO₂⁻ B (1998)

Reorder Information

Cat. No.

<i>Test Kit, complete</i>	<i>K-7004</i>
<i>Refill, 30 CHEMet ampoules</i>	<i>R-7002</i>
<i>Sample Cup, 25 mL, package of six</i>	<i>A-0013</i>
<i>Comparator, 0 - 2 ppm</i>	<i>C-7004</i>



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