

Hydrazine ULR CHEMets®

0 - 50 ppb

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 ULR 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. Place the ULR 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 ULR CHEMet ampoule shows the closest match (fig 3). If the color of the ULR CHEMet ampoule is between two color standards, a concentration estimate can be made.

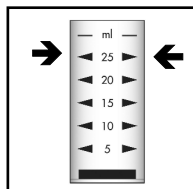


Figure 1

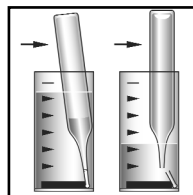


Figure 2

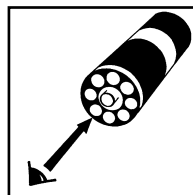


Figure 3

Test Method

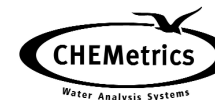
The Hydrazine ULR CHEMets®¹ test method employs the PDMAB chemistry.^{2,3} In an acidic solution, hydrazine reacts with PDMAB (p-dimethylaminobenzaldehyde) to form a yellow colored complex in direct proportion to the hydrazine concentration. Results are expressed in ppm (mg/Liter) N₂H₄.

1. ULR CHEMets is a registered trademark of CHEMetrics, Inc. U.S. Patent No. 3,634,038
2. L. C. Thomas and G. J. Chamberlin, Colorimetric Chemical Analytical Methods. 8th ed., p. 195, method I (1974)
3. ASTM D 1385 - 01, Hydrazine in Water

Reorder Information

Cat. No.

Test Kit, complete K-5011
Refill, 30 ULR CHEMet ampoules R-5011
Sample Cup, 25 mL, package of six A-0013
Comparator, 0-50 ppb C-5011



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www.chemetrics.com Apr. 06, Rev. 4