Formaldehyde CHEMets® Kit

K-4605/R-4605: 0 - 1 & 1 - 10 ppm

This test method is somewhat temperature dependent. For best results, samples should be less than 40°C.

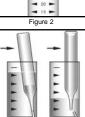
Read SDS (available at www.chemetrics.com) before using this product. Wear safety glasses and protective gloves.

Activator Solution Preparation

Fill the A-4201 Activator Solution bottle to the shoulder with distilled water or add 15 mL of distilled water. Add 10 drops of A-4202 Activator Solution. Cap the bottle and shake it until the chemical dissolves completely. Label the bottle with a **6 month** expiration date.

Test Procedure

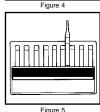
- 1. Fill the sample cup to the 20 mL mark with the sample to be tested (fig. 1).
- 2. Add 6 drops of A-4201 Activator Solution (fig. 2). Stir to mix the contents of the cup.
- Add 4 drops of A-4202 Activator Solution (fig. 2). Stir to mix the contents of the cup.
- 4. Place the CHEMet ampoule, tip first, into the sample cup. Snap the tip. The ampoule will fill leaving a bubble for mixing (fig. 3).
- 5. To mix the ampoule, invert it several times, allowing the bubble to travel from end to end.
- 6. Dry the ampoule and wait **12 minutes** for color development.



Figure

- 7. Obtain a test result using the appropriate comparator.
 - a. Low Range Comparator (fig. 4): Place 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.
 - b. **High Range Comparator (fig. 5):** Place the ampoule between the color standards until the best color match is found.





Test Method

The Formaldehyde CHEMets^{®1} test method employs the Purpald^{®2} chemistry. In a highly alkaline solution, and in conjunction with an oxidizing agent, formaldehyde reacts with Purpald to form a purple colored complex in direct proportion to the formaldehyde concentration.

Certain aldehydes and alcohols will cause high test results.

- 1. CHEMets is a registered trademark of CHEMetrics, Inc. U.S. Patent No. 3,634,038
- 2. Purpald is a registered trademark of Aldrich Chemical Company. The reagent methodology was developed by Aldrich Chemical Company.

Visit www.chemetrics.com to view product demonstration videos. Always follow the test procedure above to perform a test.



www.chemetrics.com 4295 Catlett Road, Midland, VA 22728 U.S.A. Phone: (800) 356-3072; Fax: (540) 788-4856 E-Mail: orders@chemetrics.com

Simplicity in Water Analysis

Mar. 18, Rev. 12

