HI3838

Formaldehyde Test Kit

The HI3838 is a titration-based chemical test kit that determines the formaldehyde concentration in two ranges: 0.00 to 1.00% and 0.0 to 10.0%. The HI3838 is supplied with all of the necessary reagents and equipment to perform the analysis. The test kit contains enough reagents for perform approximately 110 tests.

- Complete setup
  - All required materials are included with the test kit, such as the sample beaker, indicator and reagent bottles, and calibrated syringe.
- High resolution
  - Readings from 0.00 to 1.00% are determined to 0.01% resolution.
  - Readings from 0.00 to 10.0% are determined to 0.1% resolution.
- Replacement reagents available
  - There is no need to buy a new kit when reagents are exhausted. The HI3838-100 can be ordered to replace the reagents supplied with the kit.

Significance of Use

Formaldehyde is an important organic compound used to make many materials and chemical compounds. Its role in many industries varies from holding dyes onto fabrics, to assisting in the electroplating of metals. Formaldehyde is also used in biological preservation, drug testing, and photograph development. Each application uses different levels of formaldehyde and requires monitoring to optimize its given purpose. Formaldehyde is also a large consideration for human health. Due to its widespread use, there are regulations in place for formaldehyde limits within workplaces to avoid overexposure.

Specifications	HI3838 Formaldehyde (as CH_2O)
Type	titration
Range	0.0 to 1.0% Formaldehyde; 0 to 10% Formaldehyde
Smallest Increment	0.1% (0.0 to 1.0% range); 1% (0 to 10% range)
Method	sodium sulfite / hydrochloric acid
Number of Tests	110 avg.
Ordering Information	**HI3838** test kit comes with 15 mL Alizarin Yellow R indicator, 30 g sodium sulfite, 120 mL titrant solution, plastic spoon, plastic bottle, 10 mL calibrated vessel, demineralizer bottle with filter cap, calibrated titration syringe with tip and plungers.
Reagent	**HI3838-100** formaldehyde, 110 tests avg.

HI3859

Glycol Yes/No Test Kit

Use the HI3859 glycol standard 0.025% included in the kit to easily recognize a positive result in the form of an intense purple color. Ethylene glycol and other glycols are determined by a two-step reaction:

Step One: Glycol is oxidized to two carbonyl groups under acidic conditions.

Step Two: The carbonyl groups react with the indicator to give a highly colored solution.

The test detects traces of glycol above 30 ppm.

Specifications	HI3859 Glycol
Type	visual
Range	present/absent
Smallest Increment	–
Method	oxidation of glycolic group
Number of Tests	25 avg.
Ordering Information	**HI3859** test kit comes with 125 mL glycol reagent A, 25 packets glycol reagent B, 25 packets glycol reagent C, 25 mL glycol standard 0.025%, 3 mL plastic pipette, 1 mL plastic pipettes (25), 10 mL glass vials with caps (2) and brush.
Reagent	**HI3859-025** glycol, 25 tests avg.

Chemical test kit reagents begin on page 9.44