

Formaldehyde Test Kit FM-1 (2183100)

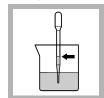
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Test preparation

CAUTION: A Review the Safety Data Sheets (MSDS/SDS) for the chemicals that are used. Use the recommended personal protective equipment.

- · Dilute samples that contain 1 to 10% formaldehyde with demineralized water. A demineralizer bottle is supplied in the kit. Refer to Use of the demineralizer bottle on page 1.
- Chlorine concentrations 80 mg/L or less do not interfere with this test.
- Hardness concentrations of 1000 mg/L or less as CaCO₃ do not interfere with this test.
- The test is accurate for samples that are 10 to 35 °C (50 to 95 °F) with a pH of 2 to 11.
- Rinse the plastic dropper with sample before the test. Rinse the plastic dropper with clean water after the test. Use a new plastic dropper after ten tests.
- Rinse the glassware with sample before the test. Rinse the glassware with clean water after the
- Hold the dropper vertically above the sample. Do not let the dropper touch the bottle during the titration.

Test procedure—Formaldehyde (1–10%)



1. Fill a dropper to 2. Add the sample 3. Add the 1-mL mark with the sample.



to the square mixing bottle.



demineralized water to the 10-mL mark.



4. Swirl the bottle to mix.



5. Add one Formaldehyde Reagent 1 Powder Pillow.



Replacement items

Sulfuric acid. 1.90 N

Square mixing bottles

Formaldehyde Reagent 1 Powder Pillows

Thymolphthalein Indicator Solution

Use of the demineralizer bottle

Demineralizer bottle, 177 mL

Description

Droppers

6. Swirl the bottle for 20 seconds.



of Thymolphthalein for 5 seconds. A Indicator Solution blue color to the bottle.



To use the included demineralizer bottle, remove the cap from the bottle and fill with tap water. Be

careful not to lose any of the blue ion exchange resin from the bottle. Install the cap and shake the bottle to mix. Use the water from the demineralizer bottle as demineralized water. Replace the

resin in the demineralizer bottle when the resin changes from purple to gold.

7. Add two drops **8.** Swirl the bottle develops.



Unit

100/pkg

100 mL MDB

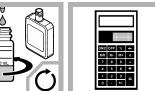
15 mL SCDB

each

20/pkg

6/pkg

Add Sulfuric Acid 1.90 N by drops. Hold the dropper vertically. Swirl the bottle after each drop. Count the drops until the color changes to colorless.



Item no.

2182999

2183032

2185336

1429900

2124720

232706

get the percent formaldehyde. If only one drop changes the color from blue to colorless, use the 0-1% test procedure.

10. Multiply the

total number of

drops by 0.005 to

Test procedure—Formaldehyde (0–1%)



1. Fill a square mixing bottle to the Formaldehyde 10-mL mark with the sample.



2. Add one Reagent 1 Powder Pillow.



3. Swirl the bottle for 20 seconds.



4. Add two drops 5. Swirl the bottle 6. Add Sulfuric of Thymolphthalein for 5 seconds. A Indicator Solution blue color to the bottle.



develops.



Acid 1.90 N by drops. Hold the dropper vertically. Swirl the bottle after each drop. Count the drops until the color changes to colorless.



7. Multiply the total number of drops by 0.0005 to get the percent formaldehyde.