

# CARBON DIOXIDE TEST KIT

Model CA-23

Cat. No. 1436-01



## Low Range

1. Fill the mixing bottle to the 23-mL mark with the water sample.
2. Add one drop of Phenolphthalein Indicator Solution to the sample.
3. Add the Sodium Hydroxide Solution drop by drop to the sample. Count each drop as it is added. Swirl the bottle to mix after each drop is added as shown in Figure 1. Continue adding drops until a light pink color forms and persists for 30 seconds.
4. Each drop of Sodium Hydroxide Solution used equals 1.25 mg/L carbon dioxide (CO<sub>2</sub>).

***WARNING: The chemicals in this kit may be hazardous to the health and safety of the user if inappropriately handled. Please read all warnings before performing the test and use appropriate safety equipment.***

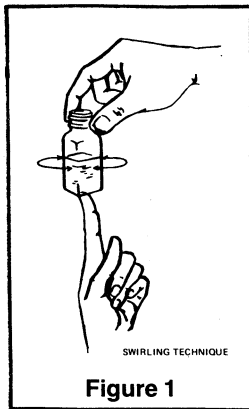
HACH COMPANY, P.O. BOX 389, LOVELAND, COLORADO 80359  
TELEPHONE: WITHIN U.S. 800-227-4224, OUTSIDE U.S. 970-669-3050, TELEX: 160840

## Medium Range

1. Fill the mixing bottle to the 15 mL mark with the water sample.
2. Add one drop of Phenolphthalein Indicator Solution to the sample.
3. Add the Sodium Hydroxide Solution drop by drop. Count each drop as it is added. Swirl the bottle to mix after each drop is added. Continue adding drops until a light pink color forms and persists for 30 seconds.
4. Each drop of Sodium Hydroxide Solution used equals 2 mg/L carbon dioxide (CO<sub>2</sub>).

## High Range

1. Fill the plastic measuring tube level full with the water to be tested. Transfer to the mixing bottle by placing the mixing bottle over the tube and then turning the bottle right-side up.
2. Add one drop of Phenolphthalein Indicator Solution to the contents of the mixing bottle.
3. Add the Sodium Hydroxide Solution drop by drop. Count each drop as it is added. Swirl the bottle to mix after each drop is added. Continue adding drops until a light pink color forms and persists for 30 seconds.
4. Each drop of Sodium Hydroxide Solution used equals 5 mg/L carbon dioxide (CO<sub>2</sub>).



**Figure 1**

## REPLACEMENTS

<b>Cat. No.</b>	<b>Description</b>	<b>Unit</b>
1897-36	Phenolphthalein Indicator Solution, 1 g/L .....	15 mL (1/2 oz) SCDB*
671-37	Sodium Hydroxide Solution, 0.01N .....	118 mL (4 oz) MDB†
438-00	Measuring Tube .....	each
2327-06	Mixing Bottle .....	pkg/6

\*Self-contained Dropping Bottle

†Marked Dropping Bottle

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