

Colorimeter Series

Instruction #5298

pH 6.5-8.5
Range(s): 6.50-8.50



Procedure

1. Turn on the Colorimeter.
2. Select a test menu (ALL TESTS, RECENT TESTS, or FAVORITES) containing pH 6.5-8.5 using ◀▶.
3. Select pH 6.5-8.5 using ▲▼; then press ENTER ⊙.
4. Rinse and fill 25 mm sample cell to 10 mL mark with sample; then cap.
5. Insert sample cell into sample cell compartment. Align marks per User's Manual.
6. Select ZERO using ◀▶; then press ENTER ⊙. Zero will be displayed.
7. Remove sample cell from sample cell compartment; then remove cap.
8. Add 0.5 mL pH 6.5-8.5 - Reagent A; then cap and swirl to mix thoroughly.
9. Insert sample cell into sample cell compartment. Align marks.
10. Select READ using ◀▶; then press ENTER ⊙. The instrument will read the sample and the result will be displayed.

Interferences

Alkalinity, Total (CaCO_3) < 60 ppm – negative interference
Alkalinity, Total (CaCO_3) > 180 ppm – positive interference

The following analytes were tested to the levels listed and found not to cause any interference up to the specified values:
Biguanide (as product) – 50 ppm
Bromine – 10 ppm

Chlorine – 10 ppm
Copper – 0.5 ppm
Cyanuric Acid – 200 ppm
Hardness, Calcium (CaCO_3) – 1000 ppm

Test Method

Phenol Red

Phenol red indicator is used to determine pH in the range of 6.50–8.50. A water sample at the low end will turn yellow when treated with phenol red. The color will gradually transition to a dark reddish-purple as the sample's pH increases to 8.50.

Estimated Detection Limit

6.50 pH units

Precision

Using a single lot of reagent and a standard solution of pH 7.50, an individual analyst obtained a standard deviation with the instrument of ± 0.10 pH units.

(over)

Application

Potable Water, Recreational Water, and Wastewater

Ordering Info

Reagent Pack

K-8027 pH 6.5-8.5

Formulated for exclusive use with Taylor's TTi® Colorimeter.

Reagent Pack Components

R-8027A pH 6.5-8.5 - Reagent A



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