pH 7.5-9.5

Range(s): 7.5-9.5

Procedure

Note: Metal ions such as iron, copper, and calcium may interfere by forming turbidity at high pH levels. If the source water is turbid, filtration is recommended.

Note: Low conductivity water may cause inaccurate results.

1. Turn on the Colorimeter.
2. Select a test menu (ALL TESTS, RECENT TESTS, or FAVORITES) containing pH 7.5-9.5 using ◀▶.
3. Select pH 7.5-9.5 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 7.5-9.5 - 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

Bromine > 10 ppm – positive interference

To remove interference: Add 1 drop of Thiosulfate N/10 (R-0697) to the sample cell prior to testing.

Chlorine > 5 ppm – positive interference

To remove interference: Add 1 drop of Thiosulfate N/10 (R-0697) to the sample cell prior to testing.

Turbidity, all levels – positive interference

To remove interference: Filter the sample prior to testing.

The following analytes were tested to the levels listed and found not to cause any interference up to the specified values:

Azole (BT) – 10 ppm
Azole (TT) – 10 ppm
Alkalinity, Total ($CaCO_3$) – 1000 ppm
Chloride – 1000 ppm
Copper – 5 ppm*
Fluoride – 10 ppm
Hardness, Calcium ($CaCO_3$) – 1000 ppm*
Iron, Ferric – 10 ppm*
Iron, Ferrous – 10 ppm*
Molybdate – 50 ppm
Nitrate – 2000 ppm
Nitrite – 2000 ppm
Phosphonate – 20 ppm
Phosphate – 20 ppm
Polyphosphate – 5 ppm
Silica – 150 ppm
Sulfate – 1000 ppm
Zinc – 5 ppm

*Note: Sample turbidity was removed by filtration prior to testing.

(over)

Test Method

Meta Cresol Purple

Meta Cresol Purple has a working pH range of approximately 7.5 - 9.5. Meta Cresol Purple is yellow at pH 7.5 and violet at pH 9.5.

Estimated Detection Limit

Not Applicable

Precision

Using a single lot of reagent and a standard solution of pH 8.0, an individual analyst obtained a standard deviation with the instrument of ± 0.2 pH units.

Application

Industrial Water and Recreational Water

Ordering Info

Reagent Pack

K-8046 pH 7.5-9.5

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

Reagent Pack Components

R-8046A pH 7.5-9.5 - Reagent A

Optional Reagents & Accessories

R-0833 DI Water

R-0697 Thiosulfate N/10

Filtration equipment:

6260 Syringe, 30 mL

6251-10 Filter, syringe 0.45 μM, 13mm, 10-pack

taylor

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