

Chlorine Dioxide 8

Range(s): 0-8.0 ppm ClO₂



Procedure

Note: When testing multiple samples simultaneously, a separate sample cell with an unreacted sample of the water tested must be used to zero the colorimeter. Please note that varying the test procedure from the original can affect the precision of the test.

1. Turn on the Colorimeter.
2. Select a test menu (ALL TESTS, RECENT TESTS, or FAVORITES) containing Chlorine Dioxide 8 using ◀▶.
3. Select Chlorine Dioxide 8 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 5 drops Chlorine Dioxide 8 - Reagent A; then swirl to mix.
9. Using the 0.15 g dipper spoon, add 1 level dipper Chlorine Dioxide 8 - Reagent B; then cap and swirl to dissolve powder.
10. Insert sample cell into sample cell compartment. Align marks.
11. Select READ using ◀▶; then press ENTER Ⓞ. The instrument will read the sample and the result will be displayed.

Interferences

Alkalinity, Total (CaCO₃) >200 ppm – negative interference
To remove interference: Fill dilution vial to 50 mL mark and adjust pH to 6-7 with Sulfuric Acid N (R-0686).
Take a 10 mL portion and follow test procedure above.

Bromine, all levels – positive interference
Chloramines – possible positive interference
Chlorine >6 ppm – positive interference
Iodine, all levels – positive interference

Manganese, all levels – positive interference
Peroxides – possible positive interference

Test Method

DPD (N,N-diethyl-p-phenylenediamine)

Chlorine dioxide reacts with DPD to produce a magenta-colored compound with an intensity that is proportional to the concentration of chlorine dioxide in a sample.

Estimated Detection Limit

0.1 ppm ClO₂

Precision

± 0.1 ppm ClO₂

Application

Industrial Water

Ordering Info

Reagent Pack

K-8039 Chlorine Dioxide 8

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

Reagent Pack Components

R-8039A Chlorine Dioxide 8 - Reagent A

R-8039B Chlorine Dioxide 8 - Reagent B

Optional Reagents & Accessories

R-0686 Sulfuric Acid N



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