



Bromine T DPD/P 10 or 20

Range(s): 0-10.00 ppm Br₂, 0-20.0 ppm Br₂

Procedure

1. Turn on the Colorimeter.
2. Select a test menu (ALL TESTS, RECENT TESTS, or FAVORITES) containing Bromine T DPD/P 10 (for 0-10 ppm Br₂) or Bromine T DPD/P 20 (for 0-20 ppm Br₂) using ◀▶.
3. Select Bromine T DPD/P 10 (for 0-10 ppm Br₂) or Bromine T DPD/P 20 (for 0-20 ppm Br₂) 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. Using the 0.15 g dipper spoon, add 1 level dipper Bromine T DPD/P - Reagent A; then swirl to dissolve powder.
9. Add 5 drops Bromine T DPD/P - Reagent B; then cap and swirl to mix thoroughly.
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.

Note: When testing wastewater, a 2-minute wait time is recommended for full color development. To include a 2-minute wait time, omit step 11 above and continue with the following steps:

11. Select TIMER using ◀▶; then press ENTER Ⓢ.
12. Select START using ◀▶; then press ENTER Ⓢ. (A 2-minute [02:00] countdown will begin.) Immediately select AUTO using ◀▶; then press ENTER Ⓢ.
13. When the timer beeps, 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.

Chloramines, all levels – positive interference
 Chlorine, all levels – positive interference
 Chlorine Dioxide, all levels – positive interference
 Hardness, Calcium (CaCO₃) > 1000 ppm – negative interference
 Iodine, all levels – positive interference
 Manganese, all levels – positive interference
 Monopersulfate, all levels – positive interference
 Ozone, all levels – positive interference

Peroxides, all levels – positive interference possible
 The following analytes were tested to the levels listed and found not to cause any interference up to the specified values:

Azole (BT) – 5 ppm
 Azole (TT) – 5 ppm
 Biguanide (as product) – 50 ppm
 Chloride – 1000 ppm
 Copper – 5 ppm
 Cyanuric Acid – 200 ppm
 Fluoride – 10 ppm
 Hydrogen Peroxide – 30 ppm

Iron, Ferric – 10 ppm
 Iron, Ferrous – 10 ppm
 Molybdate – 10 ppm
 Nitrate – 2000 ppm
 Nitrite – 2000 ppm
 Phosphate – 100 ppm
 Phosphonate – 20 ppm
 Polymer – 1000 ppm
 Polyphosphate – 5 ppm
 Silica – 150 ppm
 Sulfate – 1000 ppm
 Sulfite – 100 ppm
 Zinc – 5 ppm

Instruction #5108

Test Method

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

In the presence of potassium iodide, DPD reacts with bromine and bromamines to produce a magenta-colored complex with an intensity that is proportional to the concentration of total bromine in a sample.

Estimated Detection Limit

0.03 ppm Br₂

Precision

Using two lots of reagent and a standard solution of 4.38 ppm Br₂, an individual analyst obtained a standard deviation with the instrument of ± 0.2 ppm Br₂.

Application

Industrial Water and Recreational Water

Ordering Info

Reagent Pack

K-8002 Bromine T DPD/P 10 or 20

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

Reagent Pack Components

R-8002A Bromine T DPD/P - Reagent A

R-8002B Bromine T DPD/P - Reagent B

Optional Reagents & Accessories

R-0686 Sulfuric Acid N



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