Colorimeter Series

Alkalinity Total 250 Range(s): 0-250 ppm CaCO₃, 0-305 ppm HCO₃, 0-150 ppm CO₃²⁻

Estimated

Detection Limit

hydroxides, borates, phosphates, silicates, and cyanurates.

2 ppm total alkalinity as CaCO₃



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 Alkalinity Total 250 using ▶. 3. Select Alkalinity Total 250 using ▶▼; then press ENTER ▶.	 Select a chemical form (CaCO₃, HCO₃, CO₃) for expression of test results using ▲▼. Rinse and fill 25 mm sample cell to 10 mL mark with sample; then cap. Insert sample cell into sample cell compartment. Align marks per User's Manual. Select ZERO using ◀▶; then press ENTER ②. Zero will be displayed. Remove sample cell from sample cell compartment; then remove cap. 	 Add 1 drop Alkalinity Total 250 - Reagent A; then swirl to mix thoroughly. Add 1 mL Alkalinity Total 250 - Reagent B; then cap and swirl to mix thoroughly. Insert sample cell into sample cell compartment. Align marks. Select READ using ◄►; then press ENTER ⑤. The instrument will read the sample and the result will be displayed.
Interferences	The following analytes were tested to the levels listed and found not to cause any interference up to the specified values:	Biguanide – 50 ppm Bromine – 10 ppm Chlorine – 10 ppm Copper – 0.5 ppm	Hardness, Calcium (CaCO ₃) – 1000 ppm Iron, Ferric – 0.5 ppm Iron, Ferrous – 0.5 ppm
Test Method		ermine concentrations of alkalinity. Differing concentrations of concentration of alkalinity in a sample. Common substances that	alkalinity alter the pH and therefore change the color of the t contribute to total alkalinity include carbonates, bicarbonates,

(over)

Instruction #5078

Precision

Using two lots of reagent and an alkalinity standard solution of 100 ppm total alkalinity as CaCO₃, an individual analyst obtained a standard deviation with the instrument of ± 1 ppm total alkalinity as CaCO₃.

Application Recreational Water

Ordering Info Reagent Pack

K-8024 Alkalinity Total 250

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

Reagent Pack Components

R-8024A Alkalinity Total 250 - Reagent A

R-8024B Alkalinity Total 250 - Reagent B

