Colorimeter Series

Instruction #5888

Hardness Total 500 Range(s): 0-500 ppm CaCO₃

Note: When testing multiple samples simultaneously, a 4. Rinse and fill 25 mm sample cell to 10 mL mark with 9. Add 1 mL Hardness Total 500 - Reagent B: then swirl Procedure separate sample cell with an unreacted sample of the sample; then cap. to mix. water tested must be used to zero the colorimeter. 5. Insert sample cell into sample cell compartment. Align 10. Add 1 mL Hardness Total 500 - Reagent C; then cap Please note that varying the test procedure from the marks per User's Manual. and swirl to mix thoroughly. original can affect the precision of the test 6. Select ZERO using \triangleleft ; then press ENTER \bigcirc . Zero 11. Insert sample cell into sample cell compartment. Align 1. Turn on the Colorimeter. will be displayed. marks. Select a test menu (ALL TESTS, RECENT TESTS, 7. Remove sample cell from sample cell compartment; 12. Select READ using ◀▶ then press ENTER **③**. The 2 instrument will read the sample and the result will be or FAVORITES) containing Hardness Total 500 using then remove cap. ◀▶. displayed. 8. Add 1 mL Hardness Total 500 - Reagent A; then swirl Select Hardness Total 500 using ▲▼ ; then press to mix. ENTER O. Interferences Biguanide (as product) > 20 ppm - negative interference Alkalinity, Total (CaCO₃) – 1000 ppm Cyanuric Acid - 200 ppm Chloride (NaCl) > 1000 ppm - positive interferenceBromine – 10 ppm Iron, Ferric – 0.5 ppm Chlorine - 10 ppm Iron, Ferrous – 0.5 ppm The following analytes were tested to the levels listed and Copper – 0.5 ppm Zinc - 0.5 ppmfound not to cause any interferences up to the specified values: Test Method Calmagite Under basic conditions, Calmagite reacts with hardness to form a red color proportional to the concentration of total hardness in a sample. **Estimated** 15 ppm total hardness as CaCO₃ **Detection Limit**

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Precision

Ordering Info

Using two lots of reagent and a standard solution of 300 ppm total hardness as CaCO₃, an individual analyst obtained a standard deviation with the instrument of ± 9 ppm total hardness as CaCO₃.

Application

Recreational Water

Reagent Pack

K-8029 Hardness Total 500 Formulated for exclusive use with Taylor's TTi® Colorimeter.

Reagent Pack Components

R-8029A Hardness Total 500 - Reagent A R-8029B Hardness Total 500 - Reagent B R-8029C Hardness Total 500 - Reagent C



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