

# Hardness Drop Count Test Procedure

## 1 drop = 2 or 10 ppm as CaCO<sub>3</sub>

FOR BEST ACCURACY (1) ENSURE ACCURATE SAMPLE SIZE. (2) HOLD DROPPER BOTTLE VERTICALLY, NOT AT AN ANGLE.

**1** Rinse vial 3 times with the solution to be tested. Fill vial to 25 mL with sample.



**2** Add 5 drops of Hardness Buffer (HA7405) and swirl to mix.



**3** Add 5 drops of Hardness Indicator (HA7430) and swirl to mix. The sample should turn red.



**4** Add Hardness Titrant drop-wise, while swirling, until the sample color changes from red to blue. Record the number of drops.



**5** Record results.

ED2073 (Low): # of drops x 2 = ppm as CaCO<sub>3</sub>

ED2070 (High): # of drops x 10 = ppm as CaCO<sub>3</sub>

### Safety Tips

- Wear appropriate safety equipment.
- Read MSDS before use.

### Tech Tips

- Be sure there is adequate lighting during testing.
- Rinse test vial 3 times with solution to be tested.
- Hold reagent bottles vertically for best results.
- Make sure you have an accurate sample.

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