

# Trace Hardness Drop Count Test Procedure

## 1 drop = 0.5 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 1 scoop of Hardness Indicator (HA7475) and swirl to mix. If hardness is present the sample will turn red.



**4** Add Hardness Titrant (ED2064) drop-wise, while swirling, until the sample color changes from red to blue. Record the number of drops.



**5** Record results.

# of drops x 0.5 = ppm as CaCO<sub>3</sub>

### Safety Tips

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

### Tech Tips

- Make sure you have an accurate sample.
- Detection limit is 0.2 ppm of hardness.
- Metals may interfere with test. Add 1 drop of titrant before adding the indicator. Include this drop in your calculation.
- 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.

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**EndPoint ID**  
Test Procedure  
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