

DROP TEST

TOTAL HARDNESS (1 drop = 2 or 10 ppm)

COMPONENTS:

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|---------------|---|
| 1 x 5093 | Instruction |
| 1 x 9198B | Sample Tube, Graduated (25 mL) w/ cap & blue dot, plastic |
| 1 x R-0619B-C | Hardness Buffer, 2 oz w/ blue cap, DB |
| 1 x R-0620B-I | Hardness Indicator Powder, 10 g w/ blue dot |
| 1 x R-0683-C | Hardness Reagent, 2 oz, DB |
| 1 x R-0806-C | Hardness Reagent, 2 oz, DB |

**TO ORDER REPLACEMENT PARTS AND REAGENTS CALL TOLL-FREE
800-TEST KIT (800-837-8548).**

PROCEDURE:

**CAREFULLY READ AND FOLLOW PRECAUTIONS ON REAGENT LABELS.
KEEP REAGENTS AWAY FROM CHILDREN.**

NOTE: When dispensing reagents from dropper bottles, **always** hold bottle in a vertical position.

Total Hardness Test**For 1 drop = 2 ppm Calcium Carbonate**

1. Rinse and fill 25 mL sample tube (#9198B) to 25 mL mark with water to be tested.

NOTE: For results in grains per gallon (gpg), fill to 14.6 mL mark.

2. Add 5 drops R-0619B Hardness Buffer. Swirl to mix.
3. Add 1 dipper R-0620B Hardness Indicator Powder. Swirl until dissolved. Sample will turn red (Fig. 1) if hardness is present.
4. Add R-0806 Hardness Reagent dropwise, swirling and counting after each drop, until color changes from red to blue (Fig. 2).
5. Multiply drops of R-0806 Hardness Reagent by 2. Record as parts per million (ppm) total hardness as calcium carbonate (CaCO_3).

NOTE: For 14.6 mL sample, multiply drops of R-0806 Hardness Reagent by 0.2. Record as grains per gallon (gpg) total hardness as calcium carbonate (CaCO_3).

For 1 drop = 10 ppm Calcium Carbonate

1. Rinse and fill 25 mL sample tube (#9198B) to 25 mL mark with water to be tested.

NOTE: For results in grains per gallon (gpg), fill to 14.6 mL mark.

2. Add 5 drops R-0619B Hardness Buffer. Swirl to mix.
3. Add 1 dipper R-0620B Hardness Indicator Powder. Swirl until dissolved. Sample will turn red (Fig. 1) if hardness is present.
4. Add R-0683 Hardness Reagent dropwise, swirling and counting after each drop, until color changes from red to blue (Fig. 2).
5. Multiply drops of R-0683 Hardness Reagent by 10. Record as parts per million (ppm) total hardness as calcium carbonate (CaCO_3).

NOTE: For 14.6 mL sample, record drops of R-0683 Hardness Reagent as grains per gallon (gpg) total hardness as calcium carbonate (CaCO_3).



Fig. 1



Fig. 2



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