

DROP TEST

P ALKALINITY (1 drop = 85 ppm OR 1 drop = 50 ppm)

CHLORINE (10-200 ppm)

TOTAL HARDNESS

QUATERNARY AMMONIUM COMPOUND (QAC) (100-400 ppm)

COMPONENTS:

- | | |
|-------------|-----------------------------------|
| 1 x 5049 | Instruction |
| 1 x 6034 | Test Paper, chlorine |
| 1 x 6433 | Test Paper, QAC (Quat) |
| 1 x 9198 | Sample Tube, 25 mL, plastic w/cap |
| 1 x R-0638G | Phenolphthalein Indicator, DB |
| 1 x R-0683 | Hardness Reagent, DB |
| 1 x R-0736G | Sulfuric Acid .6N, DB |
| 1 x R-0854 | Total Hardness Reagent, 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.**

Total Hardness

1. Rinse and fill sample tube (#9198) to 14.6 mL mark with water to be tested.
2. Add 5 drops R-0854 Total Hardness Reagent. Swirl to mix. Sample will turn wine red if total hardness is present.
3. Add R-0683 Hardness Reagent dropwise, swirling and counting after each drop, until color changes from wine red to blue. Always hold bottle in vertical position.
4. Record drops of R-0683 Hardness Reagent as grains per gallon (gpg) total hardness as calcium carbonate (CaCO_3).

Instr. #5049

**14.6 mL Sample
Alkalinity Chart**

| # of drops | ppm alkalinity | # of drops | ppm alkalinity |
|------------|----------------|------------|----------------|
| 1 | 85 | 11 | 935 |
| 2 | 170 | 12 | 1020 |
| 3 | 255 | 13 | 1105 |
| 4 | 340 | 14 | 1190 |
| 5 | 425 | 15 | 1275 |
| 6 | 510 | 16 | 1360 |
| 7 | 595 | 17 | 1445 |
| 8 | 680 | 18 | 1530 |
| 9 | 765 | 19 | 1615 |
| 10 | 850 | 20 | 1700 |

**25 mL Sample
Alkalinity Chart**

| # of drops | ppm alkalinity | # of drops | ppm alkalinity |
|------------|----------------|------------|----------------|
| 1 | 50 | 11 | 550 |
| 2 | 100 | 12 | 600 |
| 3 | 150 | 13 | 650 |
| 4 | 200 | 14 | 700 |
| 5 | 250 | 15 | 750 |
| 6 | 300 | 16 | 800 |
| 7 | 350 | 17 | 850 |
| 8 | 400 | 18 | 900 |
| 9 | 450 | 19 | 950 |
| 10 | 500 | 20 | 1000 |

P Alkalinity

1. Rinse and fill sample tube (#9198) to 14.6 mL OR 25 mL mark with water to be tested.
2. Add 3 drops R-0638G Phenolphthalein Indicator. Swirl to mix. Sample should turn pink.
3. Add R-0736G Sulfuric Acid .6N dropwise, swirling and counting after each drop, until color changes from pink to colorless. Always hold bottle in vertical position.
4. Refer to Alkalinity Chart (at right) to determine ppm detergent alkalinity as calcium carbonate (CaCO_3).

NOTE: Chlorine and Quaternary Ammonium Compound instructions can be found on their test paper packaging.



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