

DROP TEST**P ALKALINITY (1 drop = 85 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.**

P Alkalinity

1. Rinse and fill 25 mL sample tube (#9198) to 14.6 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 strip labels.

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

Total Hardness

1. Rinse and fill 25 mL 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).



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