

## COLOR COMPARISON TEST ORTHOPHOSPHATE (5-100 ppm)

### COMPONENTS:

1 x 2269	Cap, Dispenser, 18 mm, white (or #2280, 28 mm, white)
5 x 4023	Test Tube, Calibrated (5 mL), glass
1 x 4027	Funnel, 58 mm, plastic
1 x 5160	Instruction
1 x 6003	Brush, Test Tube
1 x 6009	Filter Paper, 9.0 cm, #610, 100/box
2 x 9021	Test Tube, Mixing, Calibrated (5, 10, 14, 15, 17.5 mL), glass w/ stopper
1 x 9110	Slide Comparator, Orthophosphate, Stannous Chloride, 5-100 ppm
1 x 9190	Base, Slide Comparator (for test tubes)
1 x R-0601-C	Molybdate Reagent*, 2 oz (or R-0601-E, 16 oz)
1 x R-0602P-I	Stannous Chloride Powder, 10 g

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.

#### Orthophosphate Test

1. Filter water to be tested to clarify.
2. Rinse and fill one mixing test tube (#9021) to 5 mL mark with filtered sample.
3. Dilute to 15 mL mark with distilled or deionized water. Stopper and mix. Remove stopper. Transfer to two 5 mL test tubes (#4023) to 5 mL mark.
4. Wipe dry and place in two holes adjacent to center hole of comparator base (#9190).

Instr. #5160

5. Rinse and fill second mixing test tube (#9021) to 5 mL mark with filtered sample.
6. Cap R-0601 Molybdate Reagent with dispenser cap (#2269 or #2280). Add R-0601 Molybdate Reagent to 15 mL mark. Stopper and mix. Remove stopper.
7. Add 2 level dippers R-0602P Stannous Chloride Powder. Stopper and mix.
8. Wipe dry and place in center hole of comparator base (#9190). WAIT 1 MINUTE. Read before 5 minutes.
9. Place Slide on comparator base. Match color in center test tube with a color standard. The Slide is in proper alignment for a color match when a white line on the Slide is directly above the white line on the comparator base. Record as parts per million (ppm) orthophosphate ( $\text{PO}_4^{3-}$ ).

NOTE: If sample color matches or is deeper than highest color standard: Dilute sample with distilled, deionized, or phosphate-free water. Repeat test. For sample diluted with 1 part water, multiply reading by 2; for 2 parts, multiply by 3, etc.

\*WARNING: Molybdate Reagent (R-0601) contains 5-10% w/w sulfuric acid, a corrosive acid.



31 Loveton Circle, Sparks, MD 21152 USA  
800-TEST KIT (837-8548) • 410-472-4340

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