

COLOR COMPARISON TEST ORTHOPHOSPHATE (0-25 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 5161	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 9111	Slide Comparator, Orthophosphate, Stannous Chloride, 0-25 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 10 mL mark with filtered sample.
3. Dilute to 14 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. #5161

5. Rinse and fill mixing test tube to 10 mL mark with filtered sample water.
6. Cap R-0601 Molybdate Reagent with dispenser cap (#2269 or #2280). Add R-0601 Molybdate Reagent to 14 mL mark. Stopper and mix. Remove stopper.
7. Add 1 level dipper 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 (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.



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