

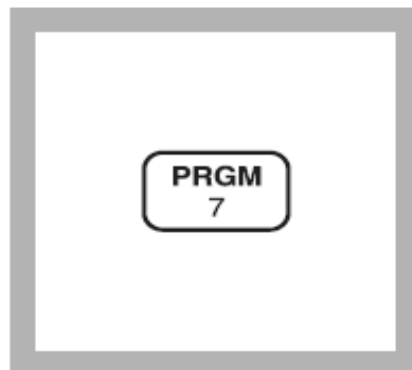


PHOSPHORUS, REACTIVE

(0 to 2.50 mg/L PO_4^{3-}) Method 8048

For water, wastewater, and seawater

(Also called Orthophosphate) PhosVer 3 (Ascorbic Acid) Method* USEPA approved
for reporting wastewater analysis



1. Enter the stored
program number for
reactive phosphorus,
ascorbic acid method.

Press: **PRGM**

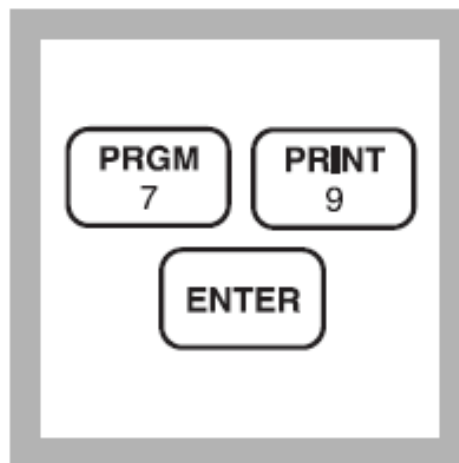
The display will show:

PRGM ?

*Note: For most accurate
results, perform a Reagent
Blank Correction using
deionized water (see
Section 1).*



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2. Press: **79 ENTER**

The display will show
mg/L, PO4 and the
ZERO icon.

*Note: For alternate forms
(P, P_2O_5), press the **CONC**
key.*



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3. Fill a sample cell with 10 mL of sample.

Note: For samples with extreme pH, see Interferences following these steps.

Note: Clean glassware with 1:1 HCl. Rinse again with deionized water. Do not use detergents containing phosphates to clean glassware.



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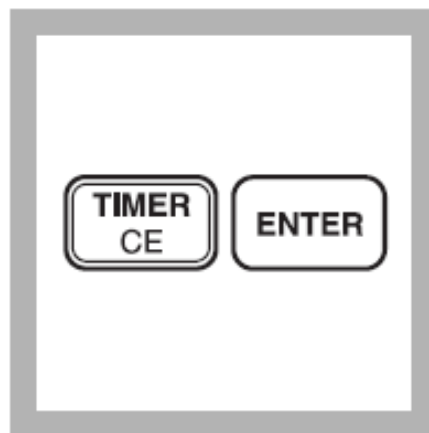


4. Add the contents of one PhosVer 3 Phosphate Powder Pillow for 10-mL sample to the cell (the prepared sample). Shake for 15 seconds.

Note: A blue color will form if phosphate is present.



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5. Press:

TIMER ENTER

A two-minute reaction period will begin.

Perform Steps 6-8 during this period.

Note: If the acid-persulfate digestion was used, an 8-10 minute reaction period is required.



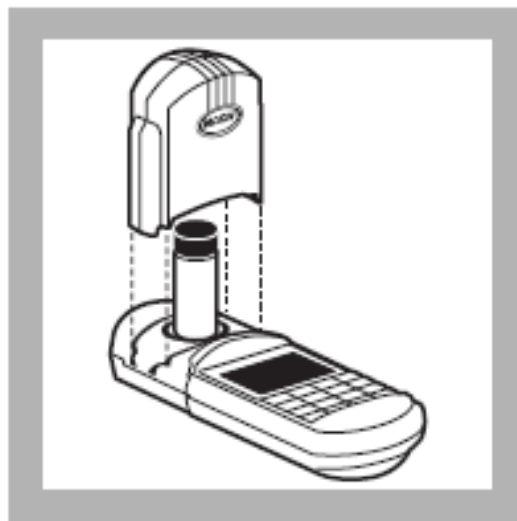
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6. Fill another sample cell with 10 mL of sample (the blank).



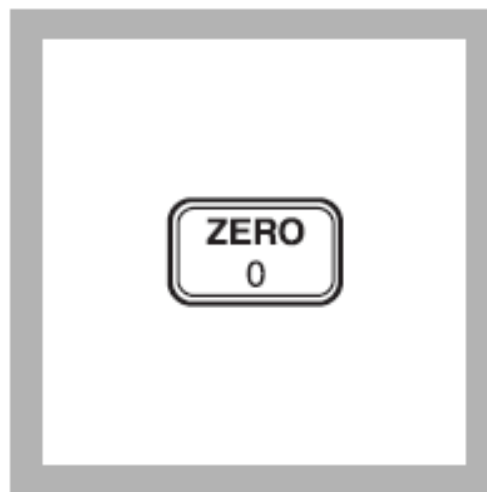
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7. Place the blank into the cell holder. Tightly cover the sample cell with the instrument cap.



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8. Press: **ZERO**

The cursor will move to the right, then the display will show:

0.00 mg/L PO₄

Note: If Reagent Blank Correction is on, the display may flash "limit". See Section 1.



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9. After the timer beeps, place the prepared sample into the cell holder. Tightly cover the sample cell with the instrument cap.



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10. Press: **READ**

The cursor will move to the right, then the result in mg/L phosphate (PO_4^{3-}) will be displayed.

Note: Standard Adjust may be performed using a 2.0-mg/L PO_4^{3-} standard; see Section 1.