PHOSPHONATE KIT

Code 7530-WT-01 | Drop Count

QUANTITY	CONTENTS	CODE
15 mL	*Hydrochloric Acid, 1.0N	*6130-E
15 mL	*Fluoride Inhibitor	*3929-E
15 mL	Sodium Thiosulfate, 0.1N	6155-E
10 g	Xylenol Orange Powder	6165-D
60 mL	Thorium Nitrate Solution	6158WT-H
1	Test Tube, 8.3 mL, plastic, w/cap	0711
1	Spoon, 0.1 g, plastic	0699
1	pH paper 1.3-4.4	2958

To order individual reagents or test kit components, use the specified code number.

*Reagent is a potential health hazard.

READ SDS: lamotte.com

Emergency information:
Chem-Tel USA 1-800-255-3924
Int'l, call collect, 813-248-0585

PROCEDURE

1. Fill test tube (0711) to 8.3 mL line with sample water.
2. Add 1 drop of Sodium Thiosulfate, 0.1N (6155) and 5 drops of *Fluoride Inhibitor (3929). Swirl to mix.
3. Use 0.1g spoon (0699) to add one level measure of Xylenol Orange Powder (6165). Swirl until dissolved.
4. Adjust pH to 2.5-3.0. Add one drop of *Hydrochloric Acid (6130). Swirl to mix. Use pH paper (2958) to test the solution. Dip a small piece of pH paper, torn from the roll, into the test solution for 5 seconds. Compare resulting color with color standards on the side of the pH paper container. Continue adding *Hydrochloric Acid (6130), one drop at a time, swirling after each drop, until the pH paper matches the pH 2.8 color standard. Sample will be yellow.
5. While swirling tube, add Thorium Nitrate Solution (6158WT) one drop at a time, until yellow color changes to pink. Count the number of drops added. Hold bottle vertically.
6. Multiply the number of drops by the conversion factor from the chart below. Record as ppm Phosphonate.

Phosphonates	Compound Name	Factor
Dequest 2000	AMP(NTP)	0.8
Dequest 2006	NaAMP	1.0
Dequest 2010	HEDP(A)	0.6
Belcor 575		0.5

NOTE: For most accurate results, a blank should be run on a sample of the water containing no phosphonate. Any result from this blank test should be subtracted from the result recorded in Step 6.

This test has been calibrated for Dequest 2006. If another phosphonate compound is used, the factor must be determined experimentally using standard solutions of that compound. The amount of Thorium Nitrate Solution added should be multiplied by a conversion factor to determine ppm Phosphonate.

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