PHOSPHONATE KIT

Code 7625-01 | Drop Count - CAS Method

QUANTITY	CONTENTS	CODE
15 mL	Sodium Thiosulfate, 0.1N	6155-E
15 mL	*Hydrochloric Acid, 0.1N	*6323-E
15 mL	*Hydrochloric Acid, 1.0N	*6130-E
15 mL	Chrome Azurol S Indicator	3964-E
60 mL	Thorium Nitrate, 0.00132M	3965-H
1	Test Tube, 2.5-5-10-15-20 mL, glass, w/cap	0970-S
1	Pipet, plain, glass, w/cap	0371

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 (0970-S) to 10 mL line with sample water.
2. Add 1 drop of Sodium Thiosulfate, 0.1N (6155).
3. Add 5 drops of Chrome Azurol S Indicator (3964). Cap and mix.
4. While gently swirling the tube, add *Hydrochloric Acid, 0.1N (6323) one drop at a time, until yellow color changes through orange to pink (pH 4-5). If, after adding 20 drops, the solution has not changed to pink, begin adding the *Hydrochloric Acid, 1.0N (6130) one drop at a time until the solution turns pink.
5. Use the pipet assembly (0371) to add Thorium Nitrate, 0.00132M (3965), one drop at a time, mixing after each drop, until the solution changes from pink to purple. Be sure to hold the pipet in a vertical position. Record number of drops.
6. Multiply the number of drops of Thorium Nitrate, 0.00132M (3965) used by the factor below to obtain the result in ppm phosphonate.

   NOTE: For most accurate results, the test procedure should be run on a blank sample of Phosphonate-free water. This result should be subtracted from the reading obtained in Step 6.

Phosphonate	Compound Name	Factor
Dequest 2000	AMP(NTP)	1.5
Dequest 2006	NaAMP	1.9
Dequest 2010	HEDP(A)	1.25
Bayhibit AM	PBTC	1.4
Belcor 575	HPA	1.0
Belsperse 161	PCA	2.3

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