



**PHOSPHONATE KIT**  
**DROP COUNT - CAS METHOD**  
CODE 7625-01

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

**\*WARNING:** Reagents marked with an \* are considered to be potential health hazards. To view or print a Material Safety Data Sheet (MSDS) for these reagents go to [www.lamotte.com](http://www.lamotte.com). To obtain a printed copy, contact LaMotte by e-mail, phone or fax.

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

**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.

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

## **LaMOTTE COMPANY**

**Helping People Solve Analytical Challenges®**

PO Box 329 • Chestertown • Maryland • 21620 • USA  
800-344-3100 • 410-778-3100 (Outside U.S.A.) • Fax 410-778-6394  
Visit us on the web at [www.lamotte.com](http://www.lamotte.com)