ALKALINITY KIT

Code 7240-02 | Drop count , 1 drop = 10, 25, 50 ppm

QUANTITY	CONTENTS	CODE
15 mL	*Phenolphthalein Indicator, 0.5%	*2258-E
15 mL	Total Alkalinity Indicator	2786-E
2 x 30 mL	*Sulfuric Acid, 0.12N	*7748WT-G
1	Test Tube, 5-10-15-20-25-30 mL, plastic, w/cap	0715

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

NOTE: This test allows the analyst to use different sample volumes to vary equivalencies. Select the appropriate sample volume from the table below and add reagents as specified.

SAMPLE SIZE	EQUIVALENCE
25 mL	1 drop = 10 ppm
10 mL	1 drop = 25 ppm
5 mL	1 drop = 50 ppm

PROCEDURE

PHENOLPHTHALEIN (P) ALKALINITY

1. Rinse tube (0715) with sample water. Fill with desired sample size selected from table above.
2. Add *Phenolphthalein Indicator, 0.5% (2258) as follows:

   25 mL sample **2 drops**

   10 mL sample **1 drop**

   5 mL sample **1 drop**

   Mix. Solution will turn pink if Active Alkalinity is present. If solution is colorless, P Alkalinity is zero; proceed to Step 5.
3. While gently swirling tube, add *Sulfuric Acid, 0.12N (7748WT), one drop at a time, until pink color disappears. Count the number of drops added. Hold bottle vertically.
4. Multiply number of drops used in Step 3 as follows:

   25 mL sample **multiply by 10**

   10 mL sample **multiply by 25**

   5 mL sample **multiply by 50**

   Record as ppm P Alkalinity as $CaCO_3$

DO NOT DISCARD SAMPLE IF TESTING FOR TOTAL (T) ALKALINITY.

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TOTAL (T) ALKALINITY

5. To sample from Step 4 add Total Alkalinity Indicator (2786) as follows:

   25 mL sample **3 drops**

   10 mL sample **2 drops**

   5 mL sample **2 drops**

   Mix. Solution will turn green.

6. While gently swirling tube, add *Sulfuric Acid, 0.12N (7748WT), one drop at a time, until green color changes to red. Count the number of drops added. Hold bottle vertically.

7. Multiply number of drops used in Step 6 as follows.

   25 mL sample **multiply by 10**

   10 mL sample **multiply by 25**

   5 mL sample **multiply by 50**

   Add this result to the P Alkalinity from Step 4. Record as ppm T Alkalinity as $CaCO_3$.

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