

ALKALINITY (P & T)

K-0025

1. Fill the reaction vial with the water sample to the 25 ml mark.
2. Add 5 drops of the Phenolphthalein indicator solution (R-1070).
3.
 - a. If the water does not change color, P alkalinity is zero.
 - b. If the water turns pink or red, proceed to step 4.
4. Add the Sulfuric acid solution (R-9011), drop by drop, shaking the vial between each drop, counting the drops, until the pink/red color turns to colorless.

P alkalinity as ppm of CaCO_3 = no. of drops x 10.

5. To the same sample add 5 drops of the Total alkalinity indicator solution (R-1050).
6. If the water turns orange, Total alkalinity is equal to P alkalinity.
7. If the water turns blue-green, proceed to step 8.
8. Add Sulfuric acid solution (R-9011), drop by drop, shaking the vial between each drop, counting the drops, until the blue-green color turns to orange.

Total alkalinity as ppm of CaCO_3 = Total no. of drops (step 4 + 8) x 10.

Replacement Reagents and Parts

R-9011/2oz	-	Sulfuric acid solution (1 drop = 10 ppm CaCO_3 / 25 ml)
R-1070/2oz	-	Phenolphthalein indicator solution w/nasal plug
R-1050/2oz	-	Total alkalinity indicator solution (Mixed indicator) w/nasal plug
P-1045	-	Graduated reaction vial w/cap, 25 ml
P-1110	-	Test kit box with foam insert and bottom foam pad