

ALKALINITY (P & M)

K-0310/100

1. Using a graduated cylinder, measure 10 ml of sample into the casserole.
2. Add 5-10 drops of the Phenolphthalein indicator solution.
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. Zero the buret and slowly add the titrating solution to the sample until the pink/red color turns to colorless.

P alkalinity as ppm of CaCO_3 = ml of titrating solution x 100.

5. To the same sample add 5-10 drops of the Mixed indicator solution.
6. If the water turns orange/ red, M alkalinity is zero.
7. If the water turns blue-green, proceed to step 8.
8. Zero the buret and slowly add the titrating solution to the sample until the blue-green color turns to orange.

M alkalinity as ppm of CaCO_3 = ml of titrating solution (steps 4+8) x 100