

Analysis of a Mixture of Carbonate and Bicarbonate

The total alkalinity (defined as total base concentration in this case $[HCO_3^-] + 2[CO_3^{2-}]$) is measured by titrating the mixture with standard HCl to a bromocresol green end point:



Assuming all the carbonate comes from sodium carbonate and all the bicarbonate comes from sodium bicarbonate, calculate the original percent composition of these two substances in your unknown mixture.

REAGENTS

Standard 0.1 M HCl (note you must standardize it yourself):

CO₂-free water: Boil ~600 mL of distilled water to expel CO₂ and pour the water into a 1000-mL plastic bottle. Screw the cap on tightly and allow the water to cool to room temperature. Keep tightly capped when not in use.

Bromocresol green. (See Table 11-4 in the textbook.)

Unknowns: Solid unknowns (2.5 g/student) prepared from reagent-grade sodium carbonate and sodium bicarbonate. Unknowns should be stored in a desiccator and should not be heated. Heating at 50°C–100°C converts NaHCO₃ to Na₂CO₃.

Sodium carbonate (ACS grade) ~2 g/student for standardization of HCl

PROCEDURE

1. Accurately weigh 2.0–2.5 g of Sodium carbonate standard into a 250-mL volumetric flask by weighing the sample in a capped weighing bottle, delivering some to a funnel in the volumetric flask, and reweighing the bottle. Continue this process until the desired mass of reagent has been transferred to the funnel. Rinse the funnel repeatedly with small portions of CO₂-free water to dissolve the sample. Remove the funnel, dilute to the mark, and mix well (with CO₂ free water). Pipet a 25.00-mL aliquot of standard solution into a 250-mL flask and titrate with ~0.1 M HCl, using bromocresol green indicator. Repeat this procedure with three more 25.00-mL aliquots. Express your Molarity of your standardized HCl as $\bar{x} \pm s$.

2. Accurately weigh 2.0–2.5 g of unknown into a 250-mL volumetric flask by weighing the sample in a capped weighing bottle, delivering some to a funnel in the volumetric flask, and reweighing the bottle. Continue this process until the desired mass of reagent has been transferred to the funnel. Rinse the funnel repeatedly with small portions of CO₂-free water to dissolve the sample. Remove the funnel, dilute to the mark, and mix well (with CO₂ free water).

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