

Gravimetric Analysis of Metal Carbonate

Experiment Overview

The purpose of this lab is to determine the identity of a Group 1 metal carbonate compound by gravimetric analysis. The unknown is weighed and dissolved in water. A solution of calcium chloride is added to the metal carbonate solution to precipitate the carbonate ions as calcium carbonate. The precipitate is filtered, dried, and weighed. From the data, the formula weight and identity of the unknown metal carbonate is determined. Concepts covered in this lab are double replacement reaction (precipitate formation) and gravimetric analysis.

Background

The identity of group 1 metal M is determined by analyzing an unknown Group 1 metal carbonate, M_2CO_3 .

There are 3 main reactions in this lab:

1. Equation 1: $M_2CO_3 (s) \rightarrow 2M^+ (aq) + CO_3^{2-} (aq)$
2. Equation 2: $Ca^{2+} (aq) + CO_3^{2-} (aq) \rightarrow CaCO_3 (s)$
3. Equation 3: $CaCl_2 (aq) + M_2CO_3 (aq) \rightarrow CaCO_3 (s) + 2MCl (aq)$

The precipitated calcium carbonate is then filtered, dried, and weighed. *The moles of calcium carbonate, $CaCO_3$, are equal to the moles of Group 1 metal carbonate, M_2CO_3 , added to the original solution.* Dividing the mass of the unknown carbonate by the moles of calcium carbonate yields the formula weight, and thus the identity, of the Group 1 metal carbonate.

Pre-Lab Questions: Use the sample data table to answer the following questions:

Sample Data Table:

Mass of crucible + M_2CO_3	12.627 g
Mass of crucible	10.655 g
Mass of M_2CO_3	1.972 g
Mass of filter paper + $CaCO_3$	2.436 g
Mass of the filter paper	0.598 g
Mass of the $CaCO_3$	1.838 g
Moles of $CaCO_3$	mol
Molar mass of M_2CO_3	g/mol
Identity of M_2CO_3	
Percent error	%

1. From the mass of $CaCO_3$, calculate the moles of $CaCO_3$ precipitated.
2. Calculate the molar mass of the unknown.
3. Calculate the molar mass of the following Group 1 metal carbonates:
 - a. Li_2CO_3
 - b. Na_2CO_3
 - c. K_2CO_3
4. What is the identity of M_2CO_3 ?
5. Calculate the percent error in the molar mass determination of M_2CO_3 by comparing the experimentally determined molar mass of M_2CO_3 to the known molar mass of the appropriate metal carbonate.

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