

# Experiment 2 - Gravimetric Analysis of a Chloride Salt (G)

## Purpose:

Determining quantitative value of chloride in an unknown soluble salt by showing and explaining common methods in gravimetric analysis.

## Theory:

- Reaction between silver ion and chloride ion to form silver chloride as an equation:



- AgCl solubility in water and the  $K_{sp}$ :

Silver chloride is very insoluble, so we can assume that the above reaction goes to completion.

$$K_{sp} = 1.6 \times 10^{-10}$$

- AgCl is precipitated with an acidic solution to reduce likelihood of acid ions interfering with results. These ions will form co-precipitates with silver in the acid, due to these co-precipitates, the results would be higher.
- To prevent the precipitate from going through the filtered paper, it is heated to coagulate it into a different texture that's easier to work with. Heating the precipitate makes it coagulate, therefore, it is harder for the precipitate to go through the filtered paper.
- Dry silver chloride decomposes into silver and chlorine in the presence of light:



- If photodecomposition takes place in air, results will be lower, since chlorine will be released in the form of gas. If photochemical decomposition occurs in the presence of excess silver ions in aqueous solution, it will result in higher results.

# Gravimetric Analysis Of Chloride Salt Lab Report

**Albert A Gayle**



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