

Flinn ChemTopic" Labs: Chemical Reactions

Chemical Reactions and Qualitative Analysis

An Inquiry Activity

Introduction

To protect human health and safeguard the environment, the EPA regulates the amounts of many extrems, including herium, copper, iron, lead, effect and sinc, in drinking mater. Preside guaratitative analysis of these extrems is achieved using special instruments. Supportions, however, since this nearly man, to know if these extrems are present in water. This execution can usually be answered by gualitative conjuct, in which the provible imparities in mater are expensive. From one another and their identified using a series of characteristic character accordance.

Concepts

- Chemical reactions
- Qualitation analysis
- Precionation reactions
- · Complexion reactions

Background

Inorganic chalitative analysis of exact involves carrying out a series of chemical reactions to the first the presence or absence of specific ions. In this experiment, you will design a chalitative analysis scheme for the separation and identification of three metal cations—inordIII) (Fe* 1, allow (Ag.) and since (Ford) ions. The cations can be separated from the relative using preripitation resolves to selectively precipitate one cation. After the cations have been separated, they can be positively identified using characteristic couples in recotions or additional precipitation reactions. Consider the following relevant chemical reactions of mortIII), allow and derivations.

Predigitation Reactions

Fef (ac) + HCl(ac) > No Reaction

Ag (ac) + HCl(ac) > AgCl(a) + H (ac)
White

Zef (ac) + HCl(ac) > No Reaction

Fef (ac) + 3NaOH(ac) > Fe(OH)_(a) + 3Na (ac)

Red

2Ag (ac) + 2NaOH(ac) > Ag_O(a) + H_O(b) + 2Na (ac)

Block

Zef (ac) + 2NaOH(ac) > Zef(OH)_(a) + 2Na (ac)

White

3Zef (ac) + 2K_Fe(CN)_(ac) > Zef(OH)_(ac) + K (ac)

Grav-time

Complex Ion Reactions

Znf (ac) + 4NaOH(ac) -> ZnfOH)_c (ac) + 4Na (ac) AgCl(a) + 2NH_c(ac) -> Ag(NH_c)_c (ac) + Cl (ac) Fe(OH)_c(a) + 3HCl(ac) + SCN (ac) -> FeSCN² (ac) + 3Cl (ac) + 3H_cO(l) Red ZnfOH)_c (ac) + 4HCl(ac) -> Znf (ac) + 4H_cO(l) + 4Cl (ac)

Experiment Overview

The purpose of this experiment is to design and carry out a sequence of observing matter the separation and identification of iron(III) (Fe²), where (Ag.) and sinc (Ze²) into in water. Two parallel series of tests will be carried out, one with a known sample containing all these rootal cations, the other with an unknown sample containing only one or two rootal cations.

Flinn Scientific Qualitative Analysis

Rachel S Tattersall

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