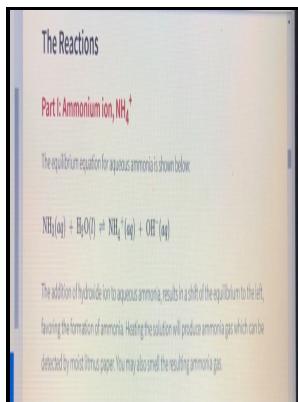


Qualitative analysis with ionic equilibrium

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Description: -

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Tags: #Qualitative #Analysis #and #Chemical #Equilibrium #(Hogness, #T. #R.; #Johnson, #Warren #C.)

Wismer, Qualitative Analysis with Ionic Equilibrium

The solution can be filtered, and the filtrate contains Ca 2+ and Mg 2+. Savvas Learning Company is a trademark of Savvas Learning Company LLC. Consecutive precipitation steps become progressively less selective until almost all the metal ions are precipitated.

Wismer, Qualitative Analysis with Ionic Equilibrium

Washing When a supernatant is removed from a solid, it is almost certain that some of the liquid has been left behind. The fact that your unknown is insoluble in water may give you an idea as to its identity.

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Complete the entire flow chart to make sure that no other species appear.

Qualitative Analysis

The various analytical procedures you will do must be performed on ions dissolved in a solution. The pH of a solution is the numerical value of the negative power to which ten must be raised to express the H⁺ ion concentration. Throughout this series of experiments, you will be expected to follow the directions that are presented in the flow charts included in this lab.

Wismer, Qualitative Analysis with Ionic Equilibrium

For instance, group IV cations, which consist of insoluble carbonates and phosphates such as Ba 2+, Ca 2+, and Mg 2+, all form white precipitates in the presence of diammonium hydrogen phosphate NH₄ 2HPO₄ in a basic solution. Be sure not to add more of a precipitating agent than indicated in the procedure as this may cause undesired side reactions. Each procedure should be performed on approximately 0.

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