

Identification of Ions Lab

Part 1: Pre-Lab Questions: Complete the pre-lab questions 1-5. You will use the solubility rules table for questions 5-6.

1. What makes water "hard"? (3pts)

The Magnesium and Calcium ions make water hard

2. After reviewing the prelab explain these terms in your own words: (2pt each)

Precipitate	A deposited solid from a solution
Alkaline Earth Elements	6 elements
Soluble	Has the ability to dissolve in water
Aqueous	Contains a lot of water or has water like properties

3. What happens when alkaline earth metals are combined with "hard" water? (4pts)

It'll Rust and dissolve in the water

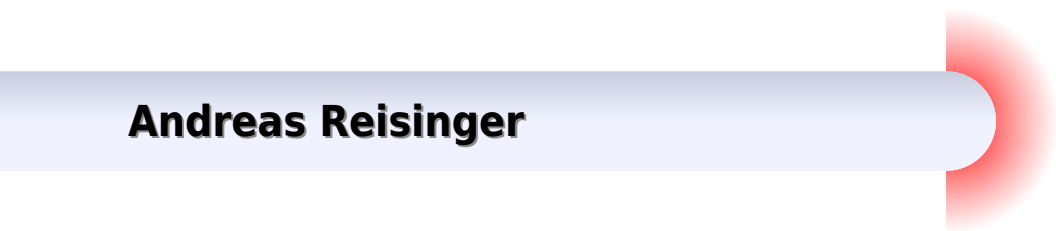
4. Listed below are 2 reactants in a chemical reaction. Predict the products for these reactions. Follow example in a. (3 pt each)



$\text{NaCl} + \text{Pb}(\text{NO}_3)_2$		$\text{Na}(\text{NO}_3) + \text{PbCl}_2$
$\text{Na}_2\text{CO}_3 + \text{FeCl}_2$		$\text{Na}_2\text{Cl}_2 + \text{FeCO}_3$
$\text{BaBr}_2 + \text{Na}_2\text{SO}_4$		$\text{BaSO}_4 + \text{Na}_2\text{BR}_2$
$\text{AgNO}_3 + \text{MgI}_2$		$\text{AgI}_2 + \text{MgNO}_3$
$\text{Na}_3\text{PO}_4 + \text{Ni}(\text{ClO}_4)_2$		$\text{Na}_3(\text{ClO}_4)_2 + \text{NiPO}_4$

Chemistry Of Complex Ions Lab Chem Fax Readerdoc Com

Andreas Reisinger



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Ions in Aqueous Systems Therald Moeller, Rod O'Connor, 1971 **Complex Ions in Aqueous Solutions** Arthur Jaques, 1914 **Metal Ions and Complexes in Solution** Toshio Yamaguchi, Ingmar Persson, 2023-12-04 Based on a translated Japanese title published in 2012 this book provides fundamental aspects of experimental and computational methods the properties and structure of solvents ion solvation and equilibria and reactions of metal complexes in solution It includes state of the art details on metal complexes in newly developing sustainable liquids and applications in real life Appealing to researchers working in coordination chemistry including students and industrialists the text uses exercises tables and figures to help the reader with their understanding of the topic **Complex Ions** Arthur Jaques, 2015-07-07

Excerpt from **Complex Ions In Aqueous Solutions** In compiling this volume the needs and criticism of a large class of students unversed in physical chemistry have been especially kept in view and it is considered that the introduction of some elementary matter such as proofs of formulae which the advanced reader will not require is by no means out of place In giving an account of the methods in Chapters III VI it was found necessary to introduce examples but these were made as brief as possible in order to avoid confusing these chapters with the later ones which deal with practical investigations where more than one method is generally used at a time The tension experiments in Chapter VIII form a method of investigation in which the examination of different salts shows so little variation that it appeared unnecessary to devote a separate chapter to the method The chief aim of the book is to give some account of the more important experimental work in this subject and no apology is offered for the absence of theories of valency Chapter X contains an account of some results besides the identification of complex compounds which have been arrived at by similar methods and which are likely to form the basis of further experiments About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works Chemistry with Weakly Coordinating Anions Andreas Reisinger, 2007

Methods Involving Metal Ions and Complexes in Clinical Chemistry, 1983 **Studies on the Application of Salts of Complex Ions to the Microscopic Detection of Anions ...** Walter Aloysius Hynes, Leo Kasimir Yanowski, 193? Determining the Formula and Estimating the Dissociation Constant of a Complex Ion K. N. Carter, 1994-01-01

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