

Double-Replacement Precipitation Lab

Introduction: Double-Replacement reactions occur when two ionic solutions mix to form an insoluble solid. If all cations and anions are soluble then no reaction will occur. During the lab procedure, several ionic solutions will be mixed to determine if a precipitate reaction will occur. Those reactions that do not form a precipitate will be marked for No Reaction (NR). Students will practice writing and balancing double-replacement reactions.

Pre-Lab questions:

1. How would you describe a double replacement reaction to a friend who is struggling with reaction types?
2. What is a precipitate?

Materials:

- 0.2M sodium bromide, NaBr
- 0.2M sodium carbonate, Na_2CO_3
- 0.2M sodium phosphate, Na_3PO_4
- 0.2M sodium sulfate, Na_2SO_4
- 0.2M sodium hydroxide, NaOH
- Transparency paper
- 0.2M lithium chloride, LiCl
- 0.2M copper(II) chloride, CuCl_2
- 0.2M zinc chloride, ZnCl_2
- 0.2M strontium chloride, SrCl_2
- 0.2M barium chloride BaCl_2
- Background paper Template

Safety: You MUST wear goggles during this lab activity

Procedure:

1. Place the overhead sheet over the background paper.
2. Using the Data Table as a guide, mix every possible pair of solutions in a separate square of the background paper. **Use 1 or 2 drops of each solution.** Do NOT contaminate the individual pipets with different solutions.
3. Mix the solutions with a rinsed toothpick if you are uncertain if a precipitate formed. Rinse the toothpick after EACH mixing – be careful of which end of the rod you use so that you do not touch the chemicals or contaminate your samples!
4. Observe each mixture carefully for signs of a precipitate. (Some precipitates are light in color and hard to see so you may want to slide the transparency over the black lab top on occasion.) Record your observations (presence or absence of a precipitate, and other characteristics such as color, texture, etc.) in the Data Table. If nothing happens, write NR for no reaction.
5. Rinse and wipe the transparency sheet into the sink. Dry the sheet.

Observations: Write the observations you made from combining these materials in the spaces in the table below. Note any color changes or precipitate (cloudiness/solid). If no change is observed write NR for no reaction.

	NaBr	Na_2CO_3	Na_3PO_4	Na_2SO_4	NaOH
LiCl					
CuCl_2					
ZnCl_2					
SrCl_2					
BaCl_2					

Double Replacement Reaction Lab 27 Answers

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Double Replacement Reaction Lab 27 Answers:

Chemistry Eugene LeMay, Jr., Herbert Beall, Karen M. Robblee, Douglas C. Brower, Prentice-Hall Staff, 2002-02

Regents Exams and Answers: Chemistry--Physical Setting Revised Edition Barron's Educational Series, Albert Tarendash, 2021-01-05 Barron's Regents Exams and Answers Chemistry provides essential practice for students taking the Chemistry Regents including actual recently administered exams and thorough answer explanations for all questions This book features Eight actual administered Regents Chemistry exams so students can get familiar with the test Thorough explanations for all answers Self analysis charts to help identify strengths and weaknesses Test taking techniques and strategies A detailed outline of all major topics tested on this exam A glossary of important terms to know for test day

Comprehensive Multiple-Choice Questions in Pathology Vinay Kumar Kohli, Chitra Kohli, Akanksha Singh, 2022-08-22 This book concisely provides important Pathology concepts to aid pathology trainees including medical students and resident physicians in passing any advanced pathology examination It provides a much needed revision aid and study guide Through dedicated questions and answers over 23 chapters covering every major organ system the book will develop skills needed to deal with different aspects of pathology in a systematic yet summarized manner The book helps solve problems faced by trainees by providing the highest yield content Throughout the book an intuitive and systematic approach is used to reinforce fundamental concepts

Hands-On General Science Activities With Real-Life Applications Pam Walker, Elaine Wood, 2008-04-21 In this second edition of Hands On General Science Activities with Real Life Applications Pam Walker and Elaine Wood have completely revised and updated their must have resource for science teachers of grades 5-12 The book offers a dynamic collection of classroom ready lessons projects and lab activities that encourage students to integrate basic science concepts and skills into everyday life

NEET PG - Biochemistry (Question Bank 3300 MCQs Chapterwise) Mocktime Publication, NEET PG Biochemistry Question Bank 3300 MCQs Chapterwise NEET PG Syllabus NEET PG Exam Pattern NEET PG Previous Papers

American Men of Science, 1949 Cell-Free Synthetic Biology Jian Li, Yong-Chan Kwon, Yuan Lu, Simon J. Moore, 2022-01-13

Prentice Hall Chemistry, 2000 *Microfluidics* Yujun Song, Daojian Cheng, Liang Zhao, 2018-01-04 The first book offering a global overview of fundamental microfluidics and the wide range of possible applications for example in chemistry biology and biomedical science As such it summarizes recent progress in microfluidics including its origin and development the theoretical fundamentals and fabrication techniques for microfluidic devices The book also comprehensively covers the fluid mechanics physics and chemistry as well as applications in such different fields as detection and synthesis of inorganic and organic materials A useful reference for non specialists and a basic guideline for research scientists and technicians already active in this field or intending to work in microfluidics

Clinical Pathology Board Review E-Book Suzanne Arinsburg, Jeffrey Jhang, 2024-11-12 Covering all of the major subject areas of this complex field Clinical Pathology Board Review 2nd Edition is the ultimate guide for those preparing to

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Federation Proceedings Federation of American Societies for Experimental Biology,1973-04 Scientific and Technical Information Processing ,1976 Monthly List of Russian Accessions Library of Congress. Processing Department,1965-10 **Monthly Index of Russian Accessions** ,1962 *Monthly Index of Russian Accessions* Library of Congress. Processing Department,1967 Monthly List of Russian Accessions ,1956 *Chemical Abstracts* ,1911 **Alternative Press Index** ,1996 **The United States Catalog** Mary Burnham,Carol Hurd,1928 *Bibliography of Scientific and Industrial Reports* ,1963

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