

**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,  $\text{Na}_2\text{CO}_3$
- 0.2M sodium phosphate,  $\text{Na}_3\text{PO}_4$
- 0.2M sodium sulfate,  $\text{Na}_2\text{SO}_4$
- 0.2M sodium hydroxide, NaOH
- Transparency paper
- 0.2M lithium chloride, LiCl
- 0.2M copper(II) chloride,  $\text{CuCl}_2$
- 0.2M zinc chloride,  $\text{ZnCl}_2$
- 0.2M strontium chloride,  $\text{SrCl}_2$
- 0.2M barium chloride  $\text{BaCl}_2$
- 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	$\text{Na}_2\text{CO}_3$	$\text{Na}_3\text{PO}_4$	$\text{Na}_2\text{SO}_4$	NaOH
LiCl					
$\text{CuCl}_2$					
$\text{ZnCl}_2$					
$\text{SrCl}_2$					
$\text{BaCl}_2$					

# Double Replacement Reaction Lab 9 2 Answers

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

## Double Replacement Reaction Lab 9 2 Answers:

**Merrill Chemistry** Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998      **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      CSIR NET Chemical Sciences Question Bank Mocktime Publication, The Chemical Sciences question bank for CSIR NET is fully aligned with the official syllabus covering Inorganic Chemistry Organic Chemistry Physical Chemistry Analytical Materials etc It offers PDF downloads of past papers with answers and solutions topic wise question banks advanced problem sets in Part C that require analytical reasoning beyond rote learning The exam pattern identical to the other NET subjects has designated number of questions in Parts A B and C as per CSIR HRDG guidelines Using this bank enables candidates to map syllabus to repeated high weight topics practise book based MCQs and past paper items and refine speed and accuracy under timed conditions Alongside the question bank affiliated books provide conceptual notes solved examples and full length mock test series For aspirants targeting fellowships or lectureships in Chemical Sciences this resource becomes central to structured revision and predictive test simulation

**Prentice Hall Science Explorer** Michael J. Padilla, 2002      **Holt Chemistry** Ralph Thomas Myers, 2004      **Index Medicus**, 2003 Vols for 1963 include as pt 2 of the Jan issue Medical subject headings      **Chemistry in the Laboratory** James M. Postma, Julian L. Roberts, J. Leland Hollenberg, 2009-08-07 For nearly 40 years Chemistry in the Laboratory has been meeting the needs of teachers and students This new edition builds on that legacy while addressing cutting edge trends in the chemistry laboratory including forensic chemistry and environmental and green chemistry As always the new edition of Chemistry in the Laboratory offers precise easy to follow instructions helpful illustrations and an emphasis throughout on laboratory safety Again throughout a Consider This feature encourages users to expand the principles of the experiment into interesting applications open ended experiments or unexplored corners Most experiments in the manual can be completed in one lab session but some can be linked or extended for a multi lab project      **Cumulated Index Medicus**, 1978

*Biochemistry Abstracts*, 1984      **Prentice Hall Physical Science Concepts in Action Program Planner National Chemistry Physics Earth Science**, 2003-11 Prentice Hall Physical Science Concepts in Action helps students make the important connection between the science they read and what they experience every day Relevant content lively explorations and a wealth of hands on activities take students understanding of science beyond the page and into the world around them

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Staley,Edward L. Waterman,1995     **Selected Water Resources Abstracts** ,1987     **American Men of Science** ,1949  
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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Double Replacement Reaction Lab 9 2 Answers**," an enthralling opus penned by a very acclaimed wordsmith, readers set about an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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