

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 Conclusion Answers

DJ Losen



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Safety-Scale Lab Exp Biochem 2e Spencer L. Seager, Michael R. Slabaugh, 1994-05 *Steps to Doing Science* Kristin Tuttle Bump, 2008 *Everything You Need to Ace Chemistry in One Big Fat Notebook* Workman Publishing, Jennifer Swanson, 2020-09-01

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Ionic liquids will never find application in industry I don't understand this fad for ionic liquids and there is no widespread interest in these systems are just three of quotes from the reports of referees for research proposals that I have received over the years I wonder what these people think today There are currently at least nine large scale industrial uses of ionic liquids including we now recognize the production of Caprolactam a monomer for the production of nylon 6 1 There has been a steady increase in the interest in ionic liquids for well over a decade and last year the number of papers and patents including ionic liquids was counted in the thousands This remarkable achievement has been built on the hard work and enthusiasm first of a small band of devotees but now of huge numbers of scientists all over the world who do not see themselves as specialists in ionic liquids The ionic liquids field continues to develop at an incredible rate No sooner do I think that I am on top of the literature than it turns out that a whole new area of work has emerged without me noticing Things that were once supposedly impossible in ionic liquids such as measuring the ¹H NMR of solutes are now widely applicable see Chapter 8 Hence collected volumes such as this are very welcome Chemistry Eugene LeMay, Jr., Herbert Beall, Karen M. Robblee, Douglas C. Brower, Prentice-Hall Staff, 2002-02 Harcourt Science: Physical science [grade] 6, units E and F, teacher's ed, 2000 A Constructivist Approach to the Study of Matter Susan Hankins Fritzell, 2000

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