

Metathesis Reaction Lab

The objective of the lab is to observe the reactions and products of metathesis, formerly known as double replacement reactions. There are multiple forms of metathesis reactions, which include neutralization, acid and carbonates, and olefin metathesis, but the type we used for our lab is aqueous metathesis. Metathesis reactions can occur between two inorganic salts (ionic compounds that are composed of cations and anions that produce a neutral net charge) when one of the products is insoluble in water.

As background, we know that compounds formed from the reactions could contain precipitates, or insoluble solids. The easiest to detect would be the insoluble solids, because we would be able to see them. By using a solubility chart we were able to predict that certain compounds would be visible.

Because silver nitrate will stain your skin, it was handled with gloves. All other regular safety precautions were in place.

For materials we used well plates, and about 3 drops of each reactant KI, NaCl, NaOH, FeCl₃, K₂SO₄, ZnSO₄, Na₂CO₃, and CuSO₄ mixed with 3 drops of the other reactants which included, AgNO₃, Pb(NO₃)₂, and BaCl₂. We also used gloves for the silver nitrate and goggles for all of the chemicals.

We first added 3 drops of silver nitrate to 3 of the wells then proceeded to add 3 drops of the reactants to each well. After the drops were added, we allowed 5 minutes for the reactions to occur. We did the same thing with lead nitrate as well as barium chloride.

Metathesis Reactions*

	KI	NaCl	NaOH	FeCl ₃	K ₂ SO ₄	ZnSO ₄	Na ₂ CO ₃	CuSO ₄
AgNO ₃	X	X	X	X			X	
Pb(NO ₃) ₂	X	X	X	X	X	X	X	X
BaCl ₂			X		X	X	X	X

*X means we saw a reaction.

Post Lab Answers to Questions

1. Metathesis Reactions (Double Replacement)
2. See attachment
3. The results showed that the reactions that did not form insoluble solids formed compounds that were soluble in water.

Metathesis Reaction Lab Answers

SA Adler



Metathesis Reaction Lab Answers:

Metathesis Reaction Lab Answers Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Metathesis Reaction Lab Answers**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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