

Hydrolysis -

The Reaction of Ions with Water

Lab Report

Purpose

The purpose of this lab is to predict whether a substance is acidic, basic, or neutral and to use the universal indicator solution to test it.

Hypothesis

Sodium Acetate	$\text{NaCH}_3\text{COO}_{(s)} \rightarrow \text{Na}^+_{(aq)} + \text{CH}_3\text{COO}^-_{(aq)}$ $\text{CH}_3\text{COO}^-_{(aq)} + \text{H}(\text{OH})_{(l)} \leftrightarrow \text{CH}_3\text{COOH}_{(aq)} + \text{OH}^-_{(aq)}$		Basic
Sodium Chloride	$\text{NaCl}_{(s)} \leftrightarrow \text{Na}^+_{(aq)} + \text{Cl}^-_{(aq)}$		Neutral
Ammonium Chloride	$\text{NH}_4\text{Cl}_{(s)} \rightarrow \text{NH}_4^+_{(aq)} + \text{Cl}^-_{(aq)}$ $\text{NH}_4^+_{(aq)} + \text{H}(\text{OH})_{(l)} \leftrightarrow \text{NH}_4(\text{OH})_{(aq)} + \text{H}^+_{(aq)}$		Acidic
Ammonium Sulfate	$(\text{NH}_4)_2\text{SO}_{4(s)} \rightarrow \text{NH}_4^+_{(aq)} + \text{SO}_4^{2-}_{(aq)}$ $\text{NH}_4^+_{(aq)} + \text{H}(\text{OH})_{(l)} \leftrightarrow \text{NH}_4(\text{OH})_{(aq)} + \text{H}^+_{(aq)}$ $\text{SO}_4^{2-}_{(aq)} + \text{H}(\text{OH})_{(l)} \leftrightarrow \text{HSO}_4^-_{(aq)} + \text{OH}^-_{(aq)}$	$K_a = 5.4 \times 10^{-10}$	Acidic
		$K_b = 8.3 \times 10^{-13}$	
Aluminum Chloride	$\text{AlCl}_{3(s)} \rightarrow \text{Al}^{3+}_{(aq)} + \text{Cl}^-_{(aq)}$ $\text{Al}^{3+}_{(aq)} + \text{H}(\text{OH})_{(l)} \leftrightarrow \text{Al}(\text{OH})_{(aq)} + \text{H}^+_{(aq)}$		Acidic
Calcium Nitrate	$\text{Ca}(\text{NO}_3)_{2(s)} \rightarrow \text{Ca}^{2+}_{(aq)} + \text{NO}_{3(aq)}$		Neutral
Iron(III) Sulfate	$\text{Fe}_2(\text{SO}_4)_{3(s)} \rightarrow \text{Fe}^{3+}_{(aq)} + \text{SO}_4^{2-}_{(aq)}$ $\text{Fe}^{3+}_{(aq)} + \text{H}(\text{OH})_{(l)} \leftrightarrow \text{Fe}(\text{OH})^{2+}_{(aq)} + \text{H}^+_{(aq)}$ $\text{Fe}^{3+}_{(aq)} + \text{H}(\text{OH})_{(l)} \leftrightarrow \text{HFe}^{2+}_{(aq)} + \text{OH}^-_{(aq)}$ $\text{SO}_4^{2-}_{(aq)} + \text{H}(\text{OH})_{(l)} \leftrightarrow \text{HSO}_4^-_{(aq)} + \text{OH}^-_{(aq)}$	$K_a = 6.0 \times 10^{-3}$	Acidic
		$K_b = 1.7 \times 10^{-12}$	
		$K_b = 8.3 \times 10^{-13}$	
Sodium Carbonate	$\text{Na}_2\text{CO}_{3(s)} \rightarrow \text{Na}^+_{(aq)} + \text{CO}_3^{2-}_{(aq)}$ $\text{CO}_3^{2-}_{(aq)} + \text{H}(\text{OH})_{(l)} \leftrightarrow \text{HCO}_3^-_{(aq)} + \text{OH}^-_{(aq)}$		Basic

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C Cleary



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Table of Contents Heath Chemistry Lab Experiments Answers

1. Understanding the eBook Heath Chemistry Lab Experiments Answers
 - The Rise of Digital Reading Heath Chemistry Lab Experiments Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Heath Chemistry Lab Experiments Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Heath Chemistry Lab Experiments Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Heath Chemistry Lab Experiments Answers
 - Personalized Recommendations
 - Heath Chemistry Lab Experiments Answers User Reviews and Ratings
 - Heath Chemistry Lab Experiments Answers and Bestseller Lists

5. Accessing Heath Chemistry Lab Experiments Answers Free and Paid eBooks
 - Heath Chemistry Lab Experiments Answers Public Domain eBooks
 - Heath Chemistry Lab Experiments Answers eBook Subscription Services
 - Heath Chemistry Lab Experiments Answers Budget-Friendly Options
6. Navigating Heath Chemistry Lab Experiments Answers eBook Formats
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7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Heath Chemistry Lab Experiments Answers
 - Highlighting and Note-Taking Heath Chemistry Lab Experiments Answers
 - Interactive Elements Heath Chemistry Lab Experiments Answers
8. Staying Engaged with Heath Chemistry Lab Experiments Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Heath Chemistry Lab Experiments Answers
9. Balancing eBooks and Physical Books Heath Chemistry Lab Experiments Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Heath Chemistry Lab Experiments Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Heath Chemistry Lab Experiments Answers
 - Setting Reading Goals Heath Chemistry Lab Experiments Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Heath Chemistry Lab Experiments Answers
 - Fact-Checking eBook Content of Heath Chemistry Lab Experiments Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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