Hydrolysis -The Reaction of lons 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	$NaCH_3COO_{(a)} \rightarrow Na^*_{(aq)} + CH_3COO^*_{(aq)}$ $CH_3COO^*_{(aq)} + H(OH)_{(b)} \leftrightarrow CH_3COOH_{(aq)} + OH_{(aq)}$		Basic
Sodium Chloride	NaCl _{so} ++Na* _{seq} + Cl* _{seq}		Neutral
Ammonium Chloride	$NH_4Cl_{03}\rightarrow NH_{4(eq)}+Cl_{(eq)}$ $NH_4^*_{(eq)}+H(OH)_{(3}\leftrightarrow NH_4(OH)_{(eq)}+H^*_{(eq)}$		Acidic
Ammonium Sulfate	$(NH_4)_2SO_{4(g)} \rightarrow NH_4^*_{(acg)} + SO_4^{2^*}_{(acg)}$ $NH_4^*_{(acg)} + H(OH)_{(g)} \leftrightarrow NH_4(OH)_{(acg)} + H^*_{(acg)}$ $SO_4^{2^*}_{(acg)} + H(OH)_{(g)} \leftrightarrow HSO_4^*_{(acg)} + OH^*_{(acg)}$	Ka=5,4×10 ⁻¹⁰	Acidic
		Kb=8.3×10 ⁻¹³	
Aluminum Chloride	$\begin{array}{l} AlCl_{(acj)} \rightarrow Al^{3*}_{(acj)} + Cl^{*}_{(acj)} \\ Al^{3*}_{(acj)} + H(OH)_{(acj)} \rightarrow Al(OH)_{(acj)} + H^{*}_{(acj)} \end{array}$		Acidic
Calcium Nitrate	Ca(NO ₃) ₂₆₃ →Ca ^{2*} _{Ceql} + No ₃₆₄₉		Neutral
Iron(III) Sulfate	$\begin{array}{l} {\sf Fe}_2({\sf SO}_4)_{3(q)} {\to} {\sf Fe}^{3*}{}_{(aq)} + {\sf SO}_4{}^{2*}{}_{(aq)} \\ {\sf Fe}^{3*}{}_{(aq)} + {\sf H}({\sf OH})_{(3} {\leftrightarrow} {\sf Fe}({\sf OH})^{2*}{}_{(aq)} + {\sf H}^*{}_{(aq)} \\ {\sf Fe}^{3*}{}_{(aq)} + {\sf H}({\sf OH})_{(0} {\leftrightarrow} {\sf HFe}^{4*}{}_{(aq)} + {\sf OH}^*{}_{(aq)} \\ {\sf SO}_4{}^{2*}{}_{(aq)} + {\sf H}({\sf OH})_{(3} {\leftrightarrow} {\sf HSO}_4{}^*{}_{(aq)} + {\sf OH}^*{}_{(aq)} \end{array}$	Ka=6.0×10 ⁻⁸	Acidic
		Kb=1.7×10 ⁻¹²	
		Kb=8.3×10 ⁻¹³	
Sodium Carbonate	$Na_2CO_{3(q)} \rightarrow Na^*_{(q)} + CO_{3(q)}$ $CO_{3(q)} + H(OH)_{13} \leftrightarrow HCO_{3(q)} + OH_{(q)}$		Basic

Heath Lab Manual Experiment 20d Hydrolysis

Camilla Rothe

Heath Lab Manual Experiment 20d Hydrolysis:

The book delves into Heath Lab Manual Experiment 20d Hydrolysis. Heath Lab Manual Experiment 20d Hydrolysis is an essential topic that must be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Heath Lab Manual Experiment 20d Hydrolysis, encompassing both the fundamentals and more intricate discussions.

- 1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to Heath Lab Manual Experiment 20d Hydrolysis
 - o Chapter 2: Essential Elements of Heath Lab Manual Experiment 20d Hydrolysis
 - \circ Chapter 3: Heath Lab Manual Experiment 20d Hydrolysis in Everyday Life
 - Chapter 4: Heath Lab Manual Experiment 20d Hydrolysis in Specific Contexts
 - ∘ Chapter 5: Conclusion
- 2. In chapter 1, this book will provide an overview of Heath Lab Manual Experiment 20d Hydrolysis. This chapter will explore what Heath Lab Manual Experiment 20d Hydrolysis is, why Heath Lab Manual Experiment 20d Hydrolysis is vital, and how to effectively learn about Heath Lab Manual Experiment 20d Hydrolysis.
- 3. In chapter 2, the author will delve into the foundational concepts of Heath Lab Manual Experiment 20d Hydrolysis. The second chapter will elucidate the essential principles that must be understood to grasp Heath Lab Manual Experiment 20d Hydrolysis in its entirety.
- 4. In chapter 3, the author will examine the practical applications of Heath Lab Manual Experiment 20d Hydrolysis in daily life. This chapter will showcase real-world examples of how Heath Lab Manual Experiment 20d Hydrolysis can be effectively utilized in everyday scenarios.
- 5. In chapter 4, the author will scrutinize the relevance of Heath Lab Manual Experiment 20d Hydrolysis in specific contexts. The fourth chapter will explore how Heath Lab Manual Experiment 20d Hydrolysis is applied in specialized fields, such as education, business, and technology.
- 6. In chapter 5, this book will draw a conclusion about Heath Lab Manual Experiment 20d Hydrolysis. This chapter will summarize the key points that have been discussed throughout the book.

 The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly

recommended for anyone seeking to gain a comprehensive understanding of Heath Lab Manual Experiment 20d Hydrolysis.

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