



HYDROGEN IONS AND ACIDITY

Section Summary

Objectives

- Define hydrogen ion concentration and relate it to the pH of a solution.
- Explain how the concentration of hydrogen ions in a solution is measured.
- Describe strong and weak acids.

Key Vocabulary

<ul style="list-style-type: none">concentrationhydrogen ionionlogarithmlogarithmic scaleacidstrong acidweak acidbasestrong baseweak basepHhydroxide ionconjugate acidconjugate base	<ul style="list-style-type: none">concentrationhydrogen ionionlogarithmlogarithmic scaleacidstrong acidweak acidbasestrong baseweak basepHhydroxide ionconjugate acidconjugate base	<ul style="list-style-type: none">concentrationhydrogen ionionlogarithmlogarithmic scaleacidstrong acidweak acidbasestrong baseweak basepHhydroxide ionconjugate acidconjugate base
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Key Equations

- $\text{pH} = -\log_{10}[\text{H}^+]$
- $\text{pH} = \log_{10}[\text{OH}^-]$

Key Figures

- Figure 1: pH scale
- Figure 2: Ionization of water

Principles of Ionization

Acid dissociation is the process of ionization in which an acid dissociates into ions. This process is reversible.

Water dissociation is the process of ionization in which water dissociates into ions. This process is reversible.

Strong acids dissociate completely in water. Strong acids are strong electrolytes.

Weak acids dissociate partially in water. Weak acids are weak electrolytes.

Acid Dissociation

<ul style="list-style-type: none">strong acidweak acidstrong baseweak baseconjugate acidconjugate base	<ul style="list-style-type: none">strong acidweak acidstrong baseweak baseconjugate acidconjugate base	<ul style="list-style-type: none">strong acidweak acidstrong baseweak baseconjugate acidconjugate base
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19 2 Hydrogen Ions And Acidity Section Review

Ying Liu

19 2 Hydrogen Ions And Acidity Section Review:

The Enigmatic Realm of **19 2 Hydrogen Ions And Acidity Section Review**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **19 2 Hydrogen Ions And Acidity Section Review** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of people who partake in its reading experience.

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