



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 acid	<ul style="list-style-type: none">concentrationhydrogen ionionlogarithmlogarithmic scaleacidstrong acidweak acid
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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

Points of Consideration

What are the components involved in acid-base reactions? How do these components affect the pH of a solution? How do acids and bases affect the pH of a solution?

What is the relationship between hydrogen ion concentration and the concentration of other ions in a solution? How does the concentration of these ions affect the pH of a solution? How does the concentration of other ions affect the pH of a solution?

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What is the relationship between hydrogen ion concentration and the concentration of other ions in a solution? How does the concentration of these ions affect the pH of a solution? How does the concentration of other ions affect the pH of a solution?

Key Equations

$\text{pH} = -\log_{10}[\text{H}^+]$	$\text{pH} = \log_{10}[\text{OH}^-]$
$\text{pH} = 7$	$\text{pH} = 14$
$\text{pH} = 1$	$\text{pH} = 13$
$\text{pH} = 2$	$\text{pH} = 12$
$\text{pH} = 3$	$\text{pH} = 11$
$\text{pH} = 4$	$\text{pH} = 10$
$\text{pH} = 5$	$\text{pH} = 9$
$\text{pH} = 6$	$\text{pH} = 8$
$\text{pH} = 7$	$\text{pH} = 7$
$\text{pH} = 8$	$\text{pH} = 6$
$\text{pH} = 9$	$\text{pH} = 5$
$\text{pH} = 10$	$\text{pH} = 4$
$\text{pH} = 11$	$\text{pH} = 3$
$\text{pH} = 12$	$\text{pH} = 2$
$\text{pH} = 13$	$\text{pH} = 1$
$\text{pH} = 14$	$\text{pH} = 0$

19 2 Hydrogen Ions And Acidity Worksheet Answers

W. M. Clark

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