



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

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

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

Practice Calculations

Use the following equations to calculate the pH of a solution with a given concentration of hydrogen ions.

Hydrogen ion concentration: H^+ concentration (hydrogen ions) \times concentration of water molecules \times concentration of ions in water

Hydrogen ion concentration: H^+ concentration (hydrogen ions) \times concentration of water molecules \times concentration of ions in water

Hydrogen ion concentration: H^+ concentration (hydrogen ions) \times concentration of water molecules \times concentration of ions in water

Answers

1. $\text{pH} = 1.0$	2. $\text{pH} = 1.0$
3. $\text{pH} = 1.0$	4. $\text{pH} = 1.0$
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13. $\text{pH} = 1.0$	14. $\text{pH} = 1.0$
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