



# HYDROGEN IONS AND ACIDITY

## Section Summary

### Objectives

- Define hydrogen ion concentration and relate it to the pH of a solution.
- Define acid and base and relate them to the pH of a solution.
- Define strong and weak acids.

### Key Vocabulary

<ul style="list-style-type: none"><li>hydrogen ion</li><li>acid</li><li>base</li><li>strong acid</li><li>weak acid</li><li>pH</li></ul>	<ul style="list-style-type: none"><li>hydrogen ion concentration</li><li>acidic</li><li>basic</li><li>neutral</li><li>titration</li><li>titration curve</li></ul>
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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 Problems

Use the following equations to answer the following questions. The equations are given in standard form, with the first term on the left and the second term on the right.

1.  $\text{pH} = -\log_{10}[\text{H}^+]$   $\text{pH} = 2.5$   $[\text{H}^+] = ?$

2.  $\text{pH} = -\log_{10}[\text{H}^+]$   $[\text{H}^+] = 10^{-3}$   $\text{pH} = ?$

3.  $\text{pH} = -\log_{10}[\text{H}^+]$   $\text{pH} = 7$   $[\text{H}^+] = ?$

4.  $\text{pH} = -\log_{10}[\text{H}^+]$   $[\text{H}^+] = 10^{-14}$   $\text{pH} = ?$

5.  $\text{pH} = -\log_{10}[\text{H}^+]$   $\text{pH} = 14$   $[\text{H}^+] = ?$

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

7.  $\text{pH} = -\log_{10}[\text{H}^+]$   $[\text{H}^+] = 10^{-11}$   $\text{pH} = ?$

8.  $\text{pH} = -\log_{10}[\text{H}^+]$   $[\text{H}^+] = 10^{-12}$   $\text{pH} = ?$

9.  $\text{pH} = -\log_{10}[\text{H}^+]$   $[\text{H}^+] = 10^{-13}$   $\text{pH} = ?$

10.  $\text{pH} = -\log_{10}[\text{H}^+]$   $[\text{H}^+] = 10^{-14}$   $\text{pH} = ?$

<ul style="list-style-type: none"><li>strong acid</li><li>weak acid</li><li>acidic</li><li>basic</li><li>neutral</li><li>titration</li><li>titration curve</li></ul>	<ul style="list-style-type: none"><li>hydrogen ion</li><li>acid</li><li>base</li><li>strong acid</li><li>weak acid</li><li>pH</li></ul>
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## 19 2 Hydrogen Ions And Acidity Answer Key

**Barbara Janson Cohen, Kerry L. Hull**

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