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pH Properties of Buffer Solutions

AP Chemistry Laboratory #19

Student Name: _____

Period/Section: _____

Introduction:

This laboratory experiment explores the use of chemical buffers as chemical and biological systems to maintain a desired solution within a set range of pH values. Buffers are solutions that resist changes in pH when small amounts of strong acids or bases are added. Buffers consist of a weak acid and its conjugate base (or a weak base and its conjugate acid). Buffers are used in many biological and chemical systems to maintain a constant pH. Buffers are also used in many industrial processes to maintain a constant pH.

Concepts:

- 1. Buffers
- 2. Weak acids/bases
- 3. Equilibrium
- 4. Henderson-Hasselbalch equation

Background:

This activity is designed to explore the use of chemical buffers as chemical and biological systems to maintain a desired solution within a set range of pH values. Buffers are solutions that resist changes in pH when small amounts of strong acids or bases are added. Buffers consist of a weak acid and its conjugate base (or a weak base and its conjugate acid). Buffers are used in many biological and chemical systems to maintain a constant pH.

$$\text{pH} = \text{pK}_a + \log \left(\frac{[\text{A}^-]}{[\text{HA}]}} \right) \quad \text{Henderson-Hasselbalch equation}$$

Equation 1

$$\text{pH} = \text{pK}_a + \log \left(\frac{[\text{A}^-]}{[\text{HA}]}} \right) \quad \text{Henderson-Hasselbalch equation}$$

Equation 2

Buffers are used in many biological and chemical systems to maintain a constant pH. Buffers are also used in many industrial processes to maintain a constant pH.

The following equations are used to calculate the pH of a buffer solution:

$$\text{pH} = \text{pK}_a + \log \left(\frac{[\text{A}^-]}{[\text{HA}]}} \right)$$

Equation 3

$$\text{pH} = \text{pK}_a + \log \left(\frac{[\text{A}^-]}{[\text{HA}]}} \right)$$

Equation 4

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Chemfax Labs Answers Buffers In Household Products

Michal Rosen-Zvi



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