



## pH Properties of Buffer Solutions AP Chemistry Laboratory #19

### Introduction

One of the most important applications of acids and bases in chemistry and biology is that of buffers. A buffer solution resists rapid changes in pH when acids and bases are added to it. Every living cell contains natural buffer systems to maintain the constant pH needed for proper cell function. Many consumer products are also buffered to safeguard their activity. What are buffers made of? How do buffers maintain the delicate pH balance needed for life and health?

### Concepts

- Buffer
- Weak acid–weak base
- Conjugate acid–base pair
- Dissociation constant
- Ideal buffer

### Background

The ability of buffers to resist changes in pH when acid or base is added is a result of their chemical composition. All buffers contain a mixture of a conjugate acid–base pair; either a weak acid (HA) and its conjugate base ( $A^-$ ), or a weak base (B), and its conjugate acid ( $BH^+$ ). Weak acids and weak bases both dissociate slightly in water (Reactions 1 and 2).



These reactions are reversible and both the weak acid and its conjugate base or the weak base and its conjugate acid are present in solution.

The equilibrium constant expressions for these dissociation reactions are:

$$K_a = \frac{[H_3O^+][A^-]}{[HA]} \quad \text{Equation 1}$$

$$K_b = \frac{[OH^-][BH^+]}{[B]} \quad \text{Equation 2}$$

Buffers control pH because the two buffering components, either HA and  $A^-$  or B and  $BH^+$ , are able to neutralize both acids and bases added to the solution.



# Flinn Buffer Solutions Lab Answer Key

**Annelies Wilder-Smith**



**Flinn Buffer Solutions Lab Answer Key:**

## **Flinn Buffer Solutions Lab Answer Key** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Flinn Buffer Solutions Lab Answer Key**, a literary masterpiece that delves deep to the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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