

14.1

HYDROGEN IONS AND ACIDITY

Section Overview

Objectives

1. Identify conjugate acid-base pairs of ions, acids, or hydroxides and of aqueous concentrations.
2. Calculate hydroxide and hydronium ion concentrations and pH values and vice versa for weak acids and bases.
3. Calculate the pH of weak acid solutions.

Vocabulary

- | | | |
|-------------------|------------------------------------|-------------------|
| 1. autoionization | 2. conjugate acid-base pair | 3. weak acid |
| 4. hydronium | 5. hydroxide ion (OH^-) | 6. autoionization |
| | 7. weak base | 8. pH |

Key Equations

- | | |
|--|--|
| 1. $\text{H}_2\text{O} \rightleftharpoons \text{H}^+ + \text{OH}^-$ (14.1) | 2. $\text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$ (14.2) |
| 3. $\text{pH} = -\log[\text{H}^+]$ (14.3) | 4. $\text{pOH} = -\log[\text{OH}^-]$ (14.4) |

Part A: Completion

Use the appropriate number to identify the relationship of the conjugate acid-base pair indicated in the second step. Each correct response receives a score of one. Complete as needed.

1. What product is the _____ of a weak hydroxide ion and a hydronium ion? _____ of the conjugate acid-base pair.
2. _____ of a weak acid and a hydroxide ion.
3. _____ of a weak acid and a hydroxide ion.
4. _____ of a weak acid and a hydroxide ion.
5. _____ of a weak acid and a hydroxide ion.
6. _____ of a weak acid and a hydroxide ion.
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19. _____ of a weak acid and a hydroxide ion.
20. _____ of a weak acid and a hydroxide ion.

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web the scope statement should include a list of everything needed to create the framework for the project including project goals deliverables features functions tasks deadlines and costs the project manager working together with the team leaders and stakeholders should develop the scope statement ensuring the following

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web the most important thing is to be specific the more the better in a perfect world you could write out a list of all the work that is involved in a project down to the last nail and screw and have all stakeholders approve of it unfortunately it s not a perfect world so the scope statement has to stop somewhere

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