

14.3

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Calculate concentrations based on the pH of acids and bases and vice versa.
2. Calculate pH and concentrations based on K_a and K_b and vice versa.
3. Calculate the pH of weak acids and bases.

Vocabulary

- | | | |
|-------------------|-----------------------------|------------------|
| 1. autoionization | 2. conjugate acid-base pair | 3. acid solution |
| 4. autoionization | 5. acid rain | 6. acid rain |
| 7. autoionization | 8. acid rain | 9. acid |

Key Equation

- | | |
|-------------------------------------|-------------------------------------|
| 1. $\text{pH} = -\log [\text{H}^+]$ | 2. $\text{pH} = -\log [\text{H}^+]$ |
| 3. $\text{pH} = -\log [\text{H}^+]$ | 4. $\text{pH} = -\log [\text{H}^+]$ |

Part A Completion

Write the equation and/or the numerical value(s) of the unknown quantity that are indicated in the space provided. Be sure to include units where appropriate.

1. What substance is _____, which hydrogen ion concentration is _____ the concentration of _____ present in _____ solution is _____.
2. _____, which concentration is _____, is _____, which concentration is _____, is _____, which concentration is _____, is _____.
3. _____, which concentration is _____, is _____, which concentration is _____, is _____, which concentration is _____, is _____.
4. _____, which concentration is _____, is _____, which concentration is _____, is _____, which concentration is _____, is _____.
5. _____, which concentration is _____, is _____, which concentration is _____, is _____, which concentration is _____, is _____.
6. _____, which concentration is _____, is _____, which concentration is _____, is _____, which concentration is _____, is _____.
7. _____, which concentration is _____, is _____, which concentration is _____, is _____, which concentration is _____, is _____.

8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____

19 2 Hydrogen Ions And Acidity Answer Key

SJ Ball



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19 2 Hydrogen Ions And Acidity Answer Key Introduction

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Introduction. Fossils give ... crassirostris, background information from the lab, and the answers to your analysis. Pterosaur Reconstruction Bi Apr 21, 2017 — The bones of one pterosaur, Scaphognathus crassirostris, were discovered in 1826 by the German scientist, August Goldfuss. The fossilized bones ... reconstructing a fossil pterosaur.pdf - Name: Date: Period ng

evidence from the reconstructed skeleton, you will infer some habits and adaptations of this pterosaur. OBJECTIVES
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