

19.2

HYDROGEN IONS AND ACIDITY

Section Review

Objectives

1. Identify a conjugate acid-base pair in chemical reactions involving acids and bases.
2. Calculate the pH of a solution from the concentration of H^+ or H_3O^+ ions, and vice versa.
3. Determine the pH of a solution from K_a and K_b .

Vocabulary

acid	1. conjugate acid-base pair	acid solution
acid-base indicator	2. pH	acidic solution
acidic solution	3. autoionization	

Key Equation

- a. $pH = -\log [H^+]$ (ppm 1.4.1 and 1.4.2)
- b. $[H^+] = 10^{-pH}$ (ppm 1.4.1 and 1.4.2)

Part A Completion

Write the appropriate number in each blank space. (ppm 1.4.1 and 1.4.2)

1. The K_a of a weak acid is 1.0×10^{-4} . The K_b of its conjugate base is _____.
2. The K_b of a weak base is 1.0×10^{-4} . The K_a of its conjugate acid is _____.
3. The pH of a solution of a weak acid is 4.0. The pOH of the solution is _____.
4. The pOH of a solution of a weak base is 10.0. The pH of the solution is _____.
5. The pH of a solution of a weak acid is 3.0. The pOH of the solution is _____.
6. The pOH of a solution of a weak base is 9.0. The pH of the solution is _____.
7. The K_a of a weak acid is 1.0×10^{-4} . The K_b of its conjugate base is _____.
8. The K_b of a weak base is 1.0×10^{-4} . The K_a of its conjugate acid is _____.
9. The pH of a solution of a weak acid is 4.0. The pOH of the solution is _____.
10. The pOH of a solution of a weak base is 10.0. The pH of the solution is _____.
11. The pH of a solution of a weak acid is 3.0. The pOH of the solution is _____.
12. The pOH of a solution of a weak base is 9.0. The pH of the solution is _____.

Hydrogen Ions And Acidity Section Review Answers

Katrin Zwirgmaier



Hydrogen Ions And Acidity Section Review Answers:

Reviewing **Hydrogen Ions And Acidity Section Review Answers**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Hydrogen Ions And Acidity Section Review Answers**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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