

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 hydrogen ions or from the concentration of hydroxide ions.
3. Determine the pH of a solution from a given K_a or K_b .

Vocabulary

acid	1. conjugate base	acid ionization
acid ionization	2. hydroxide	base ionization
base	3. autoionization	pH

Key Equation

- a. $\text{pH} = -\log [\text{H}^+]$ (ppm 19.2)
- b. $\text{pH} = 14 - \text{pOH}$ (ppm 19.2)
- c. $\text{pOH} = -\log [\text{OH}^-]$ (ppm 19.2)
- d. $\text{pH} = -\log [\text{H}^+]$ (ppm 19.2)

Part A Completion

Write the chemical formula or identify the substance in each space. Write the name of the substance in each blank space. Write the chemical formula in each blank space.

1. The chemical formula of the acid that is the conjugate acid of H_2O is _____.
2. The chemical formula of the base that is the conjugate base of H_2O is _____.
3. The chemical formula of the acid that is the conjugate acid of H_2O is _____.
4. The chemical formula of the base that is the conjugate base of H_2O is _____.
5. The chemical formula of the acid that is the conjugate acid of H_2O is _____.
6. The chemical formula of the base that is the conjugate base of H_2O is _____.
7. The chemical formula of the acid that is the conjugate acid of H_2O is _____.
8. The chemical formula of the base that is the conjugate base of H_2O is _____.
9. The chemical formula of the acid that is the conjugate acid of H_2O is _____.
10. The chemical formula of the base that is the conjugate base of H_2O is _____.
11. The chemical formula of the acid that is the conjugate acid of H_2O is _____.
12. The chemical formula of the base that is the conjugate base of H_2O is _____.
13. The chemical formula of the acid that is the conjugate acid of H_2O is _____.
14. The chemical formula of the base that is the conjugate base of H_2O is _____.
15. The chemical formula of the acid that is the conjugate acid of H_2O is _____.
16. The chemical formula of the base that is the conjugate base of H_2O is _____.
17. The chemical formula of the acid that is the conjugate acid of H_2O is _____.
18. The chemical formula of the base that is the conjugate base of H_2O is _____.
19. The chemical formula of the acid that is the conjugate acid of H_2O is _____.
20. The chemical formula of the base that is the conjugate base of H_2O is _____.

Hydrogen Ions And Acidity Section Review Answers

BM King



Hydrogen Ions And Acidity Section Review Answers:

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