

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. hydroxide ion | 5. hydronium ion | 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 represented in the reaction. Also indicate which member of the pair is the stronger acid.

1. $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$ (strong hydroxide base) (14.1)
2. $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$ (the hydroxide ion is the stronger base) (14.1)
3. $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$ (the hydronium ion is the stronger acid) (14.1)
4. $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$ (the hydroxide ion is the stronger base) (14.1)
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7. $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$ (the hydronium ion is the stronger acid) (14.1)
8. $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$ (the hydroxide ion is the stronger base) (14.1)
9. $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$ (the hydronium ion is the stronger acid) (14.1)
10. $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$ (the hydroxide ion is the stronger base) (14.1)
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12. $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$ (the hydroxide ion is the stronger base) (14.1)
13. $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$ (the hydronium ion is the stronger acid) (14.1)
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17. $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$ (the hydronium ion is the stronger acid) (14.1)
18. $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$ (the hydroxide ion is the stronger base) (14.1)
19. $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$ (the hydronium ion is the stronger acid) (14.1)
20. $\text{H}_2\text{O} + \text{H}_2\text{O} \rightleftharpoons \text{H}_3\text{O}^+ + \text{OH}^-$ (the hydroxide ion is the stronger base) (14.1)

1. **14.1** (strong hydroxide base)

2. **14.1** (the hydroxide ion is the stronger base)

3. **14.1** (the hydronium ion is the stronger acid)

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19. **14.1** (the hydronium ion is the stronger acid)

20. **14.1** (the hydroxide ion is the stronger base)

19 2 Hydrogen Ions And Acidity Answer Key

Julia Schneider



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web 12 hours ago larsen toubro l t an indian multinational engaged in epc projects hi tech manufacturing and services has announced the divestment of its 100 stake in l t infrastructure engineering limited ltie a provider of standalone engineering consultancy services for the infrastructure sector in india the stake has been acquired

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web 13 hours ago larsen and toubro l t has secured a large order to construct the greenfield bhogapuram international airport project in andhra pradesh the project will initially be developed to handle 6 mpa million passengers per annum capacity to be further enhanced to the capacity of 12 mpa l t said in a statement

[larsen toubro limited indian company company profile](#) - May 21 2022

web oct 18 2021 larsen toubro limited commonly known as l t is an indian conglomerate involved in technology engineering construction manufacturing and financial services with global operations the company is headquartered in mumbai maharashtra india the business interests of the company lies in basic and heavy engineering

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web nov 1 2023 larsen and toubro limited is a listed public company incorporated on 07 february 1946 it is classified as a public limited company and is located in mumbai maharashtra it s authorized share capital is inr 8 037 00 cr and the total paid up capital is inr 281 13 cr larsen and toubro limited s operating revenues range is over inr 500

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web may 11 2012 hilltops apartment 105 cairnhill circle larsen toubro limited singapore branch is a singapore foreign company registered in singapore the company was incorporated on 11 may 2012 which is 11 4 years ago the address of the business s registered office is fuji xerox towers 80 anson