- According to the Bronsted—Lowry definition, which chemical species can function both as an acid and as a base?
  - a. CI = 6. SO<sub>2</sub> =
  - SO/\*\*
    NH/\*
  - d. HCO<sub>2</sub>
  - e. H<sub>2</sub>O\*
- 2. In the reaction CN<sup>-</sup> + H<sub>2</sub>O ← → HCN + OH<sup>-</sup> which is an acid—base conjugate pair?
  - a. H<sub>2</sub>O and HCN
  - b. H<sub>2</sub>O and OH<sup>-</sup>
  - c. ON and H<sub>2</sub>O
  - d. HCN and OH"
- Given that HX is a stronger Bronsted acid than HY in aqueous solution, which is true of a 1 M solution of NaX
  - a. It is less basic than a I M solution of NaY.
  - b. It is more basic than a I M solution of NaY.
  - It yields a neutral solution.
  - It is more concentrated than a 1 M solution of NaY.
- 4. The pH of a 0.03 M HCI solution is
  - a. 1.5
  - 6. 25
  - c. 3.5
  - d. 12.5
- The pH of a 1.0 x 10<sup>-3</sup> M Ba(OH)<sub>2</sub> solution at 25°C is
  - a. 2.7
  - b. 3.0
  - c. 11.0
  - d. 11.3
- 6. Which is the strongest acid?
  - a. HCIO
  - A. HCIO<sub>2</sub>
  - c. HOIO<sub>3</sub>
  - d. HClO<sub>4</sub>
- 7. Which salt reacts with water (hydrolyzes) to produce a basic solution?
  - a. NaC<sub>2</sub>H<sub>3</sub>O<sub>2</sub>
  - NaNO<sub>3</sub>
  - c. NH<sub>f</sub>CI
  - d. BaSO<sub>4</sub>

8. The weakest of the bases listed is

Acid	Conjugate Base	Ka (Ionization Constant of Acid)				
HCL	CIT	100% ionized				
HSO <sub>4</sub>	SO <sub>4</sub> 2-	1.2 x 10°				
H <sub>2</sub> S HS <sup>-</sup> HS <sup>-</sup> S <sup>r-</sup>		5.7x10 *				
		1.2x10 <sup>-0</sup>				

- a. CIT
- A 1.00
- e. HS<sup>-</sup> d. S<sup>3-</sup>
- e. 50e<sup>2-</sup>
- 9. The oxide of which element will react with water to form the strongest acid?

Period	Main Groups							
	1	П	П	IV	V	VI	VII	0
First								
Second	X	Y	Z	P		Q	S	U
Third	WAY					R	T	0.40

- e. W
- 6. M
- c. P
- d. R.
- Which statement is a logical inference from the fact that a 0.10 M solution of potassium acetate KC<sub>2</sub>H<sub>2</sub>O<sub>2</sub>, is less alkaline than a 0.10 M solution of potassium evanide. KCN?
  - a. Hydrocyanic acid is a weaker acid than acetic acid.
  - Hydrocyanic acid is less soluble in water than acetic acid.
  - c. Cyanides are less soluble than acetaces
  - d. Acetic acid is a weaker acid than hydrocyanic acid
- In the titration of 50.0 mL of 0.100 M benzoic acid (a monoprotic acid) with 50.0 mL of 0.100 M NaOH, the properties of the solution at the equivalence point will correspond exactly to the properties of
  - a. a 0.100 M sodium solution.
  - a 0.0500 M sodium hydroxide solution.
  - c. a 0.0500 M benzoic acid solution.
  - a 0.0500 M sodium benzoate solution.

# **General Chemistry Acs Exam**

John K. Gilbert

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The book delves into General Chemistry Acs Exam. General Chemistry Acs Exam is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into General Chemistry Acs Exam, encompassing both the fundamentals and more intricate discussions.

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## **Table of Contents General Chemistry Acs Exam**

- 1. Understanding the eBook General Chemistry Acs Exam
  - The Rise of Digital Reading General Chemistry Acs Exam
  - Advantages of eBooks Over Traditional Books
- 2. Identifying General Chemistry Acs Exam
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an General Chemistry Acs Exam
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from General Chemistry Acs Exam
  - Personalized Recommendations
  - General Chemistry Acs Exam User Reviews and Ratings
  - General Chemistry Acs Exam and Bestseller Lists
- 5. Accessing General Chemistry Acs Exam Free and Paid eBooks
  - General Chemistry Acs Exam Public Domain eBooks
  - General Chemistry Acs Exam eBook Subscription Services
  - General Chemistry Acs Exam Budget-Friendly Options
- 6. Navigating General Chemistry Acs Exam eBook Formats
  - ePub, PDF, MOBI, and More
  - General Chemistry Acs Exam Compatibility with Devices
  - General Chemistry Acs Exam Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of General Chemistry Acs Exam
  - Highlighting and Note-Taking General Chemistry Acs Exam
  - Interactive Elements General Chemistry Acs Exam
- 8. Staying Engaged with General Chemistry Acs Exam

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers General Chemistry Acs Exam
- 9. Balancing eBooks and Physical Books General Chemistry Acs Exam
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection General Chemistry Acs Exam
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine General Chemistry Acs Exam
  - Setting Reading Goals General Chemistry Acs Exam
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of General Chemistry Acs Exam
  - Fact-Checking eBook Content of General Chemistry Acs Exam
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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