

1. A 33.7-g sample of HF is dissolved in water to give  $2.0 \times 10^2$  mL of solution. The concentration of the solution is:

- A) 1.68 M  
B) 0.34 M  
C) 0.17 M  
**D) 8.4 M**  
E) 16.9 M

$$[HF] = \frac{33.7g HF}{2.0 \times 10^2 mL} \times \frac{1000 mL}{1 L} \times \frac{1 mol HF}{20.01g HF} = 8.4 M$$

2. What mass of calcium chloride,  $CaCl_2$ , is needed to prepare 3.419 L of a 1.56 M solution?

- A) 243 g  
B) 5.33 g  
C) 50.6 g  
D) 111 g  
**E) 592 g**

$$\frac{3.419 L}{1} \times \frac{1.56 mol CaCl_2}{L} \times \frac{110.98 g CaCl_2}{1 mol CaCl_2} = 592 g CaCl_2$$

3. A 51.24-g sample of  $Ba(OH)_2$  is dissolved in enough water to make 1.205 liters of solution. How many mL of this solution must be diluted with water in order to make 1.000 liter of 0.1000 molar  $Ba(OH)_2$ ?

- A) 403 mL**  
B) 248 mL  
C) 24.8 mL  
D) 83.0 mL  
E) 331 mL

$$[Ba(OH)_2] = \frac{51.24g Ba(OH)_2}{1.205 L} \times \frac{1 mol Ba(OH)_2}{171.36g Ba(OH)_2} = 0.2481 M$$

$$M_1 = 0.1000 M \quad M_2 = 0.2481 M$$

$$V_1 = 1.000 L \quad V_2 = ?$$

$$V_2 = \frac{0.1000 M \times 1.000 L}{0.2481 M} = 0.4031 L = 403 mL$$

4. The net ionic equation for the reaction of calcium bromide and sodium phosphate contains which of the following species?

- A)  $Ca^{2+}(aq)$   
B)  $PO_4^{3-}(aq)$   
C)  $2Ca_3(PO_4)_2(s)$   
D)  $6NaBr(aq)$   
**E)  $3Ca^{2+}(aq)$**



5. Consider two organic molecules, ethanol and benzene. One dissolves in water and the other does not. Why?

- A) They have different molar masses.  
B) One is ionic, the other is not.  
C) One is an electrolyte, the other is not.  
**D) Ethanol contains a polar O—H bond, and benzene does not.**  
E) Two of these.

\* Know the general solubility rule of "Likes Dissolve Likes"



# Ap Chemistry Chapter 12 Test

**John Moore, Richard H. Langley**



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### **Table of Contents Ap Chemistry Chapter 12 Test**

1. Understanding the eBook Ap Chemistry Chapter 12 Test
  - The Rise of Digital Reading Ap Chemistry Chapter 12 Test
  - Advantages of eBooks Over Traditional Books
2. Identifying Ap Chemistry Chapter 12 Test
  - 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 Ap Chemistry Chapter 12 Test
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ap Chemistry Chapter 12 Test
  - Personalized Recommendations
  - Ap Chemistry Chapter 12 Test User Reviews and Ratings
  - Ap Chemistry Chapter 12 Test and Bestseller Lists
5. Accessing Ap Chemistry Chapter 12 Test Free and Paid eBooks
  - Ap Chemistry Chapter 12 Test Public Domain eBooks
  - Ap Chemistry Chapter 12 Test eBook Subscription Services

- Ap Chemistry Chapter 12 Test Budget-Friendly Options
- 6. Navigating Ap Chemistry Chapter 12 Test eBook Formats
  - ePub, PDF, MOBI, and More
  - Ap Chemistry Chapter 12 Test Compatibility with Devices
  - Ap Chemistry Chapter 12 Test Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ap Chemistry Chapter 12 Test
  - Highlighting and Note-Taking Ap Chemistry Chapter 12 Test
  - Interactive Elements Ap Chemistry Chapter 12 Test
- 8. Staying Engaged with Ap Chemistry Chapter 12 Test
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ap Chemistry Chapter 12 Test
- 9. Balancing eBooks and Physical Books Ap Chemistry Chapter 12 Test
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ap Chemistry Chapter 12 Test
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ap Chemistry Chapter 12 Test
  - Setting Reading Goals Ap Chemistry Chapter 12 Test
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ap Chemistry Chapter 12 Test
  - Fact-Checking eBook Content of Ap Chemistry Chapter 12 Test
  - 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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