

KINETICS Practice Problems and Solutions

Name: _____
 Period: _____ Class: _____

AP Chemistry
 Dr. Wheeler

The following questions represent general types of rate questions. Please answer each question completely and thoroughly. The solutions will be posted on the my Moodle page.

1. Consider the reaction: $2\text{H}_2\text{O} \rightarrow 2\text{H}_2 + \text{O}_2$. A rate study of this reaction was conducted at 298 K. The data that were obtained are shown in the table.

| $[\text{H}_2\text{O}]$, mol/L | $[\text{O}_2]$, mol/L | Initial Rate, mol/L·s |
|--------------------------------|------------------------|-----------------------|
| 0.0100 | 0.0000 | 1.20×10^{-2} |
| 0.0200 | 0.0000 | 4.80×10^{-2} |
| 0.0300 | 0.0000 | 8.10×10^{-2} |

- a. Write the rate law for the reaction. $\text{Rate} = k[\text{H}_2\text{O}]^2$
 $k = 1.20 \times 10^{-2} \text{ s}^{-1}$
- b. Write the rate law for the reaction. $\text{Rate} = k[\text{H}_2\text{O}]^2$
- c. Determine the order and units of the rate constant. $k = 1.20 \times 10^{-2} \text{ s}^{-1}$ (order and units using the method in your textbook is not being tested on this question.)

2. Consider the reaction: $2\text{H}_2\text{O} \rightarrow 2\text{H}_2 + \text{O}_2$. A rate study of this reaction was conducted at 298 K. The data that were obtained are shown in the table.

| $[\text{H}_2\text{O}]$, mol/L | $[\text{O}_2]$, mol/L | Initial Rate, mol/L·s |
|--------------------------------|------------------------|-----------------------|
| 0.010 | 0.000 | 0.010 |
| 0.020 | 0.000 | 0.040 |
| 0.030 | 0.000 | 0.090 |

- a. Write the rate law for the reaction. $\text{Rate} = k[\text{H}_2\text{O}]^2$
 $k = 1.00 \text{ s}^{-1}$
- b. Write the rate law for the reaction. $\text{Rate} = k[\text{H}_2\text{O}]^2$
- c. Determine the order and units of the rate constant. $k = 1.00 \text{ s}^{-1}$ (order and units using the method in your textbook is not being tested on this question.)

3. Consider the following reactions: $\text{A}_2 + \text{B}_2 \rightarrow \text{A} + \text{B}$ (slow)
 $\text{A}_2 + \text{B} \rightarrow \text{A} + \text{B}_2$ (fast)

- a. Write the overall balanced chemical equation: $2\text{A}_2 + \text{B}_2 \rightarrow 2\text{A} + \text{B}_2$
- b. Identify any intermediates within the mechanism: B
- c. What is the order with respect to each reactant? $\text{A}_2: 2; \text{B}_2: 0$

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R Bogdan



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 - The Rise of Digital Reading Kinetics Problems And Solutions
 - Advantages of eBooks Over Traditional Books
2. Identifying Kinetics Problems And Solutions
 - 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 Kinetics Problems And Solutions
 - User-Friendly Interface
4. Exploring eBook Recommendations from Kinetics Problems And Solutions
 - Personalized Recommendations
 - Kinetics Problems And Solutions User Reviews and Ratings
 - Kinetics Problems And Solutions and Bestseller Lists
5. Accessing Kinetics Problems And Solutions Free and Paid eBooks
 - Kinetics Problems And Solutions Public Domain eBooks
 - Kinetics Problems And Solutions eBook Subscription Services

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