

Key

Kinetics Practice Problems

Ex. 1: Consider the following reaction, $\text{NH}_4^+(\text{aq}) + \text{NO}_2^-(\text{aq}) \rightarrow \text{N}_2(\text{g}) + \text{H}_2\text{O}(\text{l})$, at 25°C .

- a. Determine the rate law for the reaction.

$$\text{rate} = k [\text{NH}_4^+]^x [\text{NO}_2^-]^y$$

$[\text{NH}_4^+]$ (in M)	$[\text{NO}_2^-]$ (in M)	Initial Rate (in M/s)
0.24	0.10	7.2×10^{-6}
0.12	0.10	3.6×10^{-6}
0.12	0.15	5.4×10^{-6}

$$\frac{\text{rate}_1}{\text{rate}_2} = \frac{k [\text{NH}_4^+]_1^x [\text{NO}_2^-]_1^y}{k [\text{NH}_4^+]_2^x [\text{NO}_2^-]_2^y} = \frac{\cancel{k} [0.24\text{M}]^x [\cancel{0.10\text{M}}]^y}{\cancel{k} [0.12\text{M}]^x [0.10\text{M}]^y} = \frac{7.2 \times 10^{-6} \text{ M/s}}{3.6 \times 10^{-6} \text{ M/s}} \rightarrow (2.0)^x = 2.0 \rightarrow x=1$$

$$\frac{\text{rate}_3}{\text{rate}_2} = \frac{k [\text{NH}_4^+]_3^x [\text{NO}_2^-]_3^y}{k [\text{NH}_4^+]_2^x [\text{NO}_2^-]_2^y} = \frac{k [0.12\text{M}]^x [0.15\text{M}]^y}{\cancel{k} [0.12\text{M}]^x [0.10\text{M}]^y} = \frac{5.4 \times 10^{-6} \text{ M/s}}{3.6 \times 10^{-6} \text{ M/s}} \rightarrow (1.5)^y = 1.5 \rightarrow y=1$$

$$\text{rate} = k [\text{NH}_4^+] [\text{NO}_2^-]$$

- b. Determine the rate constant for the reaction.

$$k = \frac{\text{rate}_1}{[\text{NH}_4^+]_1 [\text{NO}_2^-]_1} = \frac{7.2 \times 10^{-6} \text{ M/s}}{(0.24\text{M})(0.10\text{M})} = 3.0 \times 10^{-4} \text{ M}^{-1} \text{ s}^{-1}$$

Ex. 2: At 600°C acetone (CH_3COCH_3) decomposes to form several compounds.

- a. Determine the rate law for the reaction.

$$\text{rate} = k [\text{CH}_3\text{COCH}_3]^x$$

Experiment	$[\text{CH}_3\text{COCH}_3]$ (in M)	Initial Rate (in M/s)
1	6.0×10^{-3}	5.2×10^{-5}
2	9.0×10^{-3}	7.8×10^{-5}

$$\frac{\text{rate}_2}{\text{rate}_1} = \frac{k [\text{CH}_3\text{COCH}_3]_2^x}{k [\text{CH}_3\text{COCH}_3]_1^x} = \frac{\cancel{k} [0.0090\text{M}]^x}{\cancel{k} [0.0060\text{M}]^x} = \frac{7.8 \times 10^{-5} \text{ M/s}}{5.2 \times 10^{-5} \text{ M/s}} \rightarrow (1.5)^x = 1.5 \rightarrow x=1$$

$$\text{rate} = k [\text{CH}_3\text{COCH}_3]$$

- b. Calculate the rate constant for the reaction.

$$k = \frac{\text{rate}_1}{[\text{CH}_3\text{COCH}_3]_1} = \frac{5.2 \times 10^{-5} \text{ M/s}}{0.0060\text{M}} = 8.7 \times 10^{-3} \text{ s}^{-1}$$

- c. What is the reaction order for this reaction at 600°C ? 1st-order

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**United States. Department of the
Army**



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Chemical Operations Specialist United States. Department of the Army, 1979 **Chemistry Class 12** Dr. S C Rastogi, Er. Meera Goyal, 2022-06-15 1 Solid State 2 Solutions 3 Electro Chemistry 4 Chemical Kinetics 5 Surface Chemistry 6 General Principles And Processes Of Isolation Of Elements 7 P Block Elements 8 D And F Block Elements 9 Coordination Compounds And Organometallics 10 Haloalkanes And Haloarenes 11 Alcohols Phenols And Ethers 12 Aldehydes Ketones And Carboxylic Acids 13 Organic Compounds Containing Nitrogen 14 Biomolecules 15 Polymers 16 Chemistry In Everyday Life Appendix 1 Important Name Reactions And Process 2 Some Important Organic Conversion 3 Some Important Distinctions Long Antilog Table Board Examination Papers GED Test Prep 2023 / 2024 For Dummies Tim Collins, 2022-12-28 Your secret weapon to succeeding on the GED test the first time around Congratulations on committing to your education You've studied hard and made it a long way All that stands in your way now is the GED test We know you can do it You know you can do it It's just a matter of studying hard studying smart and getting in the right mindset to conquer the test once and for all In GED Test 2023 2024 For Dummies you'll find all the content review and practice you need to perfect your grammar and punctuation take the fear out of math and science and master social studies You'll get a handle on your test anxiety practice the parts where you need extra work and prepare with two full length practice exams You'll also find Brand new practice problems updated for the latest version of the test in the book and online Refreshed information about testing procedures and mechanics Tips and tricks to help you improve the efficiency of your studying and thorough coverage of updates to the test made for 2023 2024 Yes the GED test is challenging But with the right preparation and resources you can go into the test confident in your ability to ace every one of the math language arts science and social studies sections Chemistry Class XII - SBPD Publications Dr. Subhash Chandra Rastogi, Er. Meera Goyal, 2021-05-01 Syllabus Unit I Solid State Unit II Solutions Unit III Electrochemistry Unit IV Chemical Kinetics Unit V Surface Chemistry Unit VI General Principles and Processes of Isolation of Elements Unit VII p Block Elements Unit VIII d and f Block Elements Unit IX Coordination Compounds Unit X Haloalkanes and Haloarenes Unit XI Alcohols Phenols and Ethers Unit XII Aldehydes Ketones and Carboxylic Acids Unit XIII Organic Compounds Containing Nitrogen Unit XIV Biomolecules Unit XV Polymers Unit XV Polymers Unit XVI Chemistry in Everyday Life Content 1 Solid State 2 Solutions 3 Electro Chemistry 4 Chemical Kinetics 5 Surface Chemistry 6 General Principles And Processes Of Isolation Of Elements 7 P Block Elements 8 D And F Block Elements 9 Coordination Compounds And Organometallics 10 Haloalkanes And Haloarenes 11 Alcohols Phenols And Ethers 12 Aldehydes Ketones And Carboxylic Acids 13 Organic Compounds Containing Nitrogen 14 Biomolecules 15 Polymers 16 Chemistry In Everyday Life Appendix 1 Important Name Reactions And Process 2 Some Important Organic Conversion 3 Some Important Distinctions *Clinical Nursing Skills and Techniques - E-Book* Anne G. Perry, Patricia A. Potter, Wendy R. Ostendorf, Nancy Laplante, 2024-01-16 Learn the clinical nursing skills you will use every day and prepare for success on the

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Pitfalls of AI Integration in Education: Skill Obsolescence, Misuse, and Bias Garcia, Manuel B.,Rosak-Szyrocka, Joanna,Bozkurt, Aras,2025-05-09 The integration of artificial intelligence AI in education rapidly transforms the teaching and learning process Recent systematic reviews have shown an increase in research studying the opportunities and challenges associated with AI in education This trend reflects a growing recognition of its potential to revolutionize educational practices However there are also growing concerns and issues with skill obsolescence leading to job displacement algorithm bias and misuse of AI for academic dishonesty As educational institutions increasingly rely on AI to enhance academic outcomes proactively addressing these challenges ensures the ethical and responsible use of AI in education

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Merrill Chemistry Robert C. Smoot,Smoot,Richard G. Smith,Jack Price,1998

AP Chemistry For Dummies Peter J. Mikulecky,Michelle Rose Gilman,Kate Brutlag,2008-11-13 A practical and hands on guide for learning the practical science of AP chemistry and preparing for the AP chem exam Gearing up for the AP Chemistry exam AP Chemistry For Dummies is packed with all the resources and help you need to do your very best Focused on the chemistry concepts and problems the College Board wants you to know this AP Chemistry study guide gives you winning test taking tips multiple choice strategies and topic guidelines as well as great advice on optimizing your study time and hitting the top of your game on test day This user friendly guide helps you prepare without perspiration by developing a pre test plan organizing your study time and getting the most out of your AP course You ll get help understanding atomic structure and bonding grasping atomic geometry understanding how colliding particles produce states and so much more To provide students with hands on experience AP chemistry courses include extensive labwork as part of the standard curriculum This is why the book dedicates

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