(ky)

Kinetics Practice Problems

Ex. 1: Consider the following reaction, $NH_4^+(aq) + NO_2^-(aq) \rightarrow N_2(g) + H_2O(l)$, at 25°C.

a. Determine the rate law for	[NH4*] (in M)	[NO ₂] (in M)	Initial Rate (in M/s)
the reaction.	0.24	0.10	7.2×10 ⁻⁶
rate = k [NH4"] × [NO2"] × 000 × 000 × 000 × 0000	0.12	0.10	3.6×10 ⁻⁶
	0.12	0.15	5.4×10 ⁻⁶

$$\frac{\text{rate}_{1}}{\text{rate}_{2}} = \frac{\text{k} \left[\text{NH}_{4}^{+} \right]_{1}^{N} \left[\text{NO}_{2}^{-} \right]_{2}^{N}}{\text{k} \left[\text{NH}_{4}^{+} \right]_{2}^{N} \left[\text{NO}_{2}^{-} \right]_{2}^{N}} = \frac{\text{K} \left[\text{0.24M} \right]^{N} \left[\text{0.16M} \right]^{N}}{\text{K} \left[\text{0.16M} \right]^{N}} = \frac{7.2 \times 10^{-6} \, \text{M/s}}{3.6 \times 10^{-6} \, \text{M/s}} \rightarrow (2.0)^{N} = 2.0 \rightarrow \times = 1$$

$$\frac{\text{rate}_{2}}{\text{rate}_{2}} = \frac{\text{k} \left[\text{NH}_{4}^{+} \right]_{2}^{N} \left[\text{NO}_{2}^{-} \right]_{2}^{N}}{\text{k} \left[\text{NH}_{4}^{+} \right]_{2}^{N} \left[\text{NO}_{2}^{-} \right]_{2}^{N}} = \frac{\text{k} \left[\text{0.12M} \right]^{N} \left[\text{0.15M} \right]^{N}}{\text{k} \left[\text{0.12M} \right]^{N}} = \frac{5.4 \times 10^{-6} \, \text{M/s}}{3.6 \times 10^{-6} \, \text{M/s}} \rightarrow (1.5)^{N} = 1.5 \rightarrow \text{y=1}$$

b. Determine the rate constant for the reaction.

$$k = \frac{\text{rate}_1}{[NH_4^+]_1 \ [NO_2^-]_1} = \frac{7.2 \times 10^{-6} \, \text{M/s}}{(0.24 \text{M}) \, (0.10 \text{M})} = 3.0 \times 10^{-4} \ \text{M}^{-1} \ \text{s}^{-1}$$

Ex. 2: At 600°C acetone (CH₃COCH₃) decomposes to form several compounds.

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

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

b. Calculate the rate constant for the reaction.

$$k = \frac{rate_1}{[CH_3COCH_3]_t} = \frac{5.2 \times 10^{-5} \, \text{M/s}}{0.0060 \, \text{M}} = 8.7 \times 10^{-3} \, \text{ s}^{-1}$$

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

Skill Practice 54 Answers Chemistry

Garcia, Manuel B.,Rosak-Szyrocka, Joanna,Bozkurt, Aras

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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, 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 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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