

# KINETICS Practice Problems and Solutions

Name: \_\_\_\_\_  
 Period: \_\_\_\_\_ Date: \_\_\_\_\_

AP Chemistry  
 Dr. Mandes

The following questions represent potential types of quiz questions. Please answer each question completely and thoroughly. The solutions will be posted on-line on Monday.

5. Please do #18 in chapter 12 of your text.
- This increases the  $[H_2]$ , which will increase the rate, but has no effect on  $k$
  - Due to Arrhenius equation, changing temperature changes the value of  $k$ .
  - Catalyst function by lowering the activation energy, so due to Arrhenius equation, changing the activation energy changes the value of  $k$ .

6. Consider the reaction:  $P_4 + 6 H_2 \rightarrow 4 PH_3$ . A rate study of this reaction was conducted at 298 K. The data that were obtained are shown in the table.

$[P_4]$ , mol/L	$[H_2]$ , mol/L	Initial Rate, mol/L · s
0.0110	0.0075	$3.20 \times 10^{-4}$
0.0110	0.0150	$6.40 \times 10^{-4}$
0.0220	0.0150	$6.39 \times 10^{-4}$

- What is the order with respect to:  $P_4$  0  
 $H_2$  1
- Write the rate law for this reaction.  $rate = k[H_2]$
- Determine the value and units of the rate constant,  $k$ . **plug and chug using the rate law & data from exp't 1 and solving for  $k$ , we get  $k = 0.0427 s^{-1}$**

7. Consider the reaction:  $SO_2 + O_3 \rightarrow SO_3 + O_2$ . A rate study of this reaction was conducted at 298 K. The data that were obtained are shown in the table.

$[SO_2]$ , mol/L	$[O_3]$ , mol/L	Initial Rate, mol/L · s
0.25	0.40	0.118
0.25	0.20	0.118
0.75	0.20	1.062

- What is the order with respect to:  $SO_2$  2  
 $O_3$  0
- Write the rate law for this reaction.  $rate = k[SO_2]^2[O_3]^0$
- Determine the value and units of the rate constant,  $k$ . **plug and chug using the rate law & data from exp't 1 and solving for  $k$ , we get  $k = 2.36 molL^{-2} s^{-1}$**

8. Consider the following mechanism.
- $$A_2 + B_2 \rightarrow R + C \quad (\text{slow})$$
- $$A_2 + R \rightarrow C \quad (\text{fast})$$

- Write the overall balanced chemical equation.  $2 A_2 + B_2 \rightarrow 2 C$
- Identify any intermediates within the mechanism. **R**
- What is the order with respect to each reactant?  **$A_2$  1<sup>st</sup>;  $B_2$  1<sup>st</sup>**

# Chemical Kinetics Practice Problems And Solutions

**Oswaal Editorial Board**



## **Chemical Kinetics Practice Problems And Solutions:**

*Calculations in Chemical Kinetics for Undergraduates* Eli Usheunepa Yunana, 2022-06-14 *Calculations in Chemical Kinetics for Undergraduates* aims to restore passion for problem solving and applied quantitative skills in undergraduate chemistry students. Avoiding complicated chemistry jargon and providing hints and step wise explanations in every calculation problem students are able to overcome their fear of handling mathematically applied problems in physical chemistry. This solid foundation in their early studies will enable them to connect fundamental theoretical chemistry to real experimental applications as graduates. Additional Features Include Contains quantitative problems from popular physical chemistry references. Provides step by step explanations are given in every calculation problem. Offers hints to certain problems as points to note to enable student comprehension. Includes solutions for all questions and exercises. This book is a great resource for undergraduate chemistry students however the contents are rich and useful to even the graduate chemist that has passion for applied problems in physical chemistry of reaction Kinetics. **(Free Sample) GO TO Objective NEET**

**Chemistry Guide with DPP & CPP Sheets 9th Edition** Disha Experts, 2021-10-07 The thoroughly revised updated 9th Edition of Go To Objective NEET Chemistry is developed on the objective pattern following the chapter plan as per the NCERT books of class 11 and 12. The book has been rebranded as GO TO keeping the spirit with which this edition has been designed. The complete book has contains 31 Chapters. In the new structure the book is completely revamped with every chapter divided into 2 4 Topics. Each Topic contains Study Notes along with a DPP Daily Practice Problem of 15 20 MCQs. This is followed by a Revision Concept Map at the end of each chapter. The theory is followed by a set of 2 Exercises for practice. The first exercise is based on Concepts Application. It also covers NCERT based questions. This is followed by Exemplar past 8 year NEET 2013 2021 questions. In the end of the chapter a CPP Chapter Practice Problem Sheet of 45 Quality MCQs is provided. The solutions to all the questions have been provided immediately at the end of each chapter.

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