

Chemistry

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(Chapter - 3) (Chemical Kinetics) (Exercises)
(Class 12)

Question 3.1:

From the rate expression for the following reactions, determine their order of reaction and the dimensions of the rate constants.



Answer 3.1:



Therefore, order of the reaction = 2

$$\text{Dimension of } k = \frac{\text{Rate}}{[\text{NO}]^2} \Rightarrow \frac{\text{mol L}^{-1}\text{s}^{-1}}{(\text{mol L}^{-1})^2} = \frac{\text{mol L}^{-1}\text{s}^{-1}}{\text{mol}^2\text{L}^{-2}} = \text{L mol}^{-1}\text{s}^{-1}$$



Therefore, order of the reaction = 2

$$\text{Dimension of } k = \frac{\text{Rate}}{[\text{H}_2\text{O}_2][\text{I}^-]} \Rightarrow \frac{\text{mol L}^{-1}\text{s}^{-1}}{(\text{mol L}^{-1})(\text{mol L}^{-1})} = \text{L mol}^{-1}\text{s}^{-1}$$



Therefore, order of reaction = $3/2$

$$\text{Dimension of } k = \frac{\text{Rate}}{[\text{CH}_3\text{CHO}]^{3/2}} \Rightarrow \frac{\text{mol L}^{-1}\text{s}^{-1}}{(\text{mol L}^{-1})^{3/2}} = \frac{\text{mol L}^{-1}\text{s}^{-1}}{\text{mol}^{3/2}\text{L}^{3/2}} = \text{L}^{3/2}\text{mol}^{1/2}\text{s}^{-1}$$



Therefore, order of the reaction = 1

$$\text{Dimension of } k = \frac{\text{Rate}}{[\text{C}_2\text{H}_5\text{Cl}]} \Rightarrow \frac{\text{mol L}^{-1}\text{s}^{-1}}{\text{mol L}^{-1}} = \text{s}^{-1}$$

Question 3.2:

For the reaction:



The rate = $k[\text{A}][\text{B}]^2$ with $k = 2.0 \times 10^{-6} \text{ mol}^{-2} \text{ L}^2 \text{ s}^{-1}$. Calculate the initial rate of reaction when $[\text{A}] = 0.1 \text{ mol L}^{-1}$, $[\text{B}] = 0.2 \text{ mol L}^{-1}$. Calculate the rate of reaction after $[\text{A}]$ is reduced to 0.06 mol L^{-1} .

Answer 3.2:

The initial rate of reaction is

$$\text{Rate} = k[\text{A}][\text{B}]^2 \Rightarrow (2.0 \times 10^{-6} \text{ mol}^{-2} \text{ L}^2 \text{ s}^{-1})(0.1 \text{ mol L}^{-1})(0.2 \text{ mol L}^{-1})^2 = 8.0 \times 10^{-8} \text{ mol}^{-2} \text{ L}^2 \text{ s}^{-1}$$

When $[\text{A}]$ is reduced from 0.1 mol L^{-1} to 0.06 mol L^{-1} ,

$$\text{The concentration of A reacted} = (0.1 - 0.06) \text{ mol L}^{-1} = 0.04 \text{ mol L}^{-1}$$

$$\text{Therefore, concentration of B reacted} = \frac{1}{2} \times 0.04 \text{ mol L}^{-1}$$

$$\text{Then concentration of B available, } [\text{B}] = (0.2 - 0.02) \text{ mol L}^{-1} = 0.18 \text{ mol L}^{-1}$$

After $[\text{A}]$ is reduced to 0.06 mol L^{-1} , the rate of reaction is given by,

$$\text{Rate} = k[\text{A}][\text{B}]^2 \Rightarrow (2.0 \times 10^{-6} \text{ mol}^{-2} \text{ L}^2 \text{ s}^{-1})(0.06 \text{ mol L}^{-1})(0.18 \text{ mol L}^{-1})^2 = 3.89 \text{ mol L}^{-1} \text{ s}^{-1}$$

Question 3.3:

The decomposition of NH_3 on platinum is zero order reaction. What are the rates of production of N_2 and H_2 if $k = 2.5 \times 10^{-4} \text{ mol}^{-1} \text{ L s}^{-1}$?

Answer 3.3:

The decomposition of NH_3 on platinum surface is represented by the following equation.



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Solutions Manual for Perspectives on Structure and Mechanism in Organic Chemistry Felix A. Carroll, 2023-05-02
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Superoxide Ion Chemistry and Biological Implications Igor B. Afanas'ev, 2024-12-11 The chemical properties of superoxide ion its biological role and the role of other oxygen radicals which arise as a result of its transformations are contained in this text In Volume I the principal reactions of superoxide ion including protonation reactions with proton donors nucleophilic reactions with esters alkyl halides and other compounds electron transfer reactions with quinones and metal complexes are described Basic quantitative data including rate constants and yields for the reactions of superoxide ion of all types are given in tables This volume contains the mechanisms of the generation of oxygen radicals in cells and the interaction of superoxide ion with cell components The role of superoxide ion in lipid peroxidation and destruction of proteins and nucleic acids is explained as well as oxygen radicals in the mechanisms of toxic and therapeutic action of drugs especially anticancer antibiotics In addition the action of superoxide ion and other oxygen radicals on plants micro and macroorganisms is discussed along with the role of oxygen radicals in normal metabolic and pathological processes

Free-Radical-Induced DNA Damage and Its Repair Clemens Sonntag, 2006-03-20 The free radical chemistry of DNA had been discussed in some detail in 1987 in my book *The Chemical Basis of Radiation Biology* Obviously the more recent developments and the concomitant higher level of understanding of mechanistic details are missing Moreover in the living cell free radical DNA damage is not only induced by ionizing radiation but free radical induced DNA damage is a much more general phenomenon It was therefore felt that it is now timely to review our present knowledge of free radical induced DNA damage induced by all conceivable free radical generating sources Originally it had been thought to include also a very important aspect the repair of DNA damage by the cell's various repair enzymes Kevin Prise Cancer Campaign Gray Laboratory London was so kind to agree to write this part However an adequate description of this strongly expanding area would have exceeded the allocated space by much and this section had to be omitted The directors of the Max Planck Institut für Strahlenchemie now MPI für Bioanorganische Chemie Karl Wieghardt and Wolfgang Lubitz kindly allowed me to continue to use its facilities after my retirement in 2001 Notably our librarian Mrs Jutta Theurich and her right hand help Mrs Rosemarie Schröder were most helpful in getting hold of the literature I thank them very much Without their constant help this

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web stack a couple of move forward blocks together and press run to help me get there blocks workspace 2 3 blocks move forward turn left turn right when run move forward video maze intro

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web i thought of a labyrinth of labyrinths of one sinuous spreading labyrinth that would encompass the past and the future and in some way involve the stars jorge luis borges from the garden of forking paths

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web due to constant seasonal changes in produce our menus are not presented on our website should you wish to view a sample menu do kindly email us at reservations labyrinth com sg our current menus as follows lunch tasting menu 208 pp dinner tasting menu 298 pp please note that lunch will take approximately 2

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web labyrinthine adjective of relating to or resembling a labyrinth intricate involved

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web apr 16 2018 the labyrinth of crete the most famous labyrinth is found in greek mythology in the story of theseus prince of athens this labyrinth was designed by daedalus for king minos of knossos on crete to contain the ferocious half man half bull known as the minotaur when minos was vying with his brothers for kingship he prayed

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web jareth is a fictional character and the main antagonist of the 1986 fantasy film labyrinth portrayed by david bowie jareth is the powerful and enigmatic king of the goblins to whom protagonist sarah williams wishes away her baby brother toby jareth gives sarah thirteen hours to retrieve the baby from his castle at the centre of an enormous labyrinth during

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web there are a number of monsters that can be encountered in labyrinthine each has its own behaviors to be aware of the monsters in the game in no particular order include smiley and a case files exclusive variant joker smiley witch and a case files exclusive variant winter witch clubfoot and a case files exclusive variant frostfoot

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web labyrinth 'læbərɪnθ n 1 a mazelike network of tunnels chambers or paths either natural or man made compare maze 1 2 any complex or confusing system of streets passages etc 3 a complex or intricate situation 4

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web labyrinth noun a place constructed of or full of intricate passageways and blind alleys a maze as in a garden formed by paths separated by high hedges

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web silver coin from knossos displaying the 7 course classical design to represent the labyrinth 400 bc in greek mythology the labyrinth ancient greek Λαβύρινθος romanized labúrinthos a was an elaborate confusing structure designed and built by the legendary artificer daedalus for king minos of crete at the knossos

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web labyrinth definition an intricate combination of paths or passages in which it is difficult to find one s way or to reach the exit see more

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web about this game embark on a heart pounding journey into the realm of nightmares with labyrinthine a cooperative horror game that will make you question your every step gather your courage and team up with friends as you enter the abandoned happisburg hedge maze or dive headfirst into the spine chilling case files where every investigation

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web aug 20 2023 verb edit labyrinth third person singular simple present labyrinths present participle labyrinthing simple past and past participle labyrinthed to enclose in a labyrinth or as though in a labyrinth to arrange in the form of a labyrinth

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web Éditions du labyrinthe a french right wing publisher officially known as groupement de recherche et d études pour la

civilisation européenne

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part of the eastern coastal loop connects pasir ris to east coast park havens of cyclists runners and rollerblading enthusiasts

if you are really lucky you might even catch a sporting event in action