

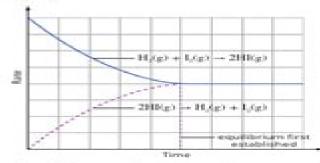
Chapter 2 Chemical equilibrium

2.1 Dynamic equilibrium

2.1 KEY QUESTIONS

- 1 a An open system occurs when both matter and energy are exchanged between the system and the surroundings.
 - b Chemical equilibria can occur in closed systems.
 - c. In some circumstances, a reversible reaction can form a dynamic equilibrium.
 - d The extent of reaction for chemical equilibria is different for different equilibria.
- 2 a taise
 - D. Californi
 - e true
 - d false

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- 4 closed, decreases, less, reverse, increases, equal
 - a open; both energy and matter (carbon dioxide and water vapour) are exchanged with the surroundings
 - b closed; only energy can be exchanged with the surroundings. While the can is unopened, no matter is exchanged.
 - c open; both energy and matter are exchanged with the surroundings
- 6 B and F. Equilibrium can only occur in a closed system. At the molecular level, some of the sugar in the saturated sugar solution will continue to dissolve at the same rate as some is precipitated. In the unopened bottle of sparking mineral water, the dissolved carbon dioxide will be in equilibrium with the gaseous carbon dioxide. In all of the other situations, the reverse reaction is not occurring at the same rate as the forward reaction, because the systems are open.
- 7 130 kJ mol⁻¹. The activation energy is the difference between 390 kJ mol⁻¹ and 260 kJ mol⁻¹, which is 130 kJ mol⁻¹.
- 8 a Chemical equilibrium is 'dynamic' because both forward and reverse reactions occur at the same rate. An equilibrium develops between water vapour and water when wet clothes are in a sealed bag, with water evaporating as rapidly as water vapour condenses, so the clothes remain wet.
 - b When the bag is opened, water vapour escapes and the rate of evaporation exceeds the rate of condensation. The system is not in equilibrium and the clothes dry.
- 9 a 0.07 molL-1
 - b Ormol L-1
 - 0.03 molt.⁻¹
 - d 0.08 molt.-1
 - e 0.04 midles
 - f The horizontal regions of the graph indicate that there is no change in concentration of NO₂ or N₂O₄. This is when the system is at equilibrium and both the forward and reverse reactions are occurring at the same rate.
 - g 6 seconds
 - h As the reaction proceeds, the intensity of the brown colour will increase as the concentration of NO₂ increases until equilibrium is reached. Once equilibrium is reached, the colour of the reaction mixture will remain constant.

Reaction And Equilibrium Workbook Answers

Roman Wölfel

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General Chemistry Workbook Daniel C. Tofan, 2010-07-28 This workbook is a comprehensive collection of solved exercises and problems typical to AP introductory and general chemistry courses as well as blank worksheets containing further practice problems and guestions It contains a total of 197 learning objectives grouped in 28 lessons and covering the vast majority of the types of problems that a student will encounter in a typical one year chemistry course It also contains a fully solved 50 guestion practice test which gives students a good idea of what they might expect on an actual final exam covering the entire material Organic Chemistry I Workbook For Dummies Arthur Winter, 2009-01-29 From models to molecules to mass spectrometry solve organic chemistry problems with ease Got a grasp on the organic chemistry terms and concepts you need to know but get lost halfway through a problem or worse yet not know where to begin Have no fear this hands on guide helps you solve the many types of organic chemistry problems you encounter in a focused step by step manner With memorization tricks problem solving shortcuts and lots of hands on practice exercises you ll sharpen your skills and improve your performance You ll see how to work with resonance the triple threat alkanes alkenes and alkynes functional groups and their reactions spectroscopy and more 100s of Problems Know how to solve the most common organic chemistry problems Walk through the answers and clearly identify where you went wrong or right with each problem Get the inside scoop on acing your exams Use organic chemistry in practical applications with confidence *Organic Chemistry* Workbook Pierre Vogel, Kendall N. Houk, 2019-08-20 Provides references and answers to every question presented in the primary Organic Chemistry textbook Successfully achieving chemical reactions in organic chemistry requires a solid background in physical chemistry Knowledge of chemical equilibria thermodynamics reaction rates reaction mechanisms and molecular orbital theory is essential for students chemists and chemical engineers. The Organic Chemistry presents the tools and models required to understand organic synthesis and enables the efficient planning of chemical reactions This volume Organic Chemistry Theory Reactivity and Mechanisms in Modern Synthesis Workbook complements the primary textbook supplying the complete calculated solutions to more than 800 questions on topics such as thermochemistry pericyclic reactions organic photochemistry catalytic reactions and more This companion workbook is indispensable for those seeking clear in depth instruction on this challenging subject Written by prominent experts in the field of organic chemistry this book Works side by side with the primary Organic Chemistry textbook Includes chapter introductions and re stated questions to enhance efficiency Features clear illustrations tables and figures Strengthens reader s comprehension of key areas of knowledge Organic Chemistry Theory Reactivity and Mechanisms in Modern Synthesis Workbook is a must have resource for anyone using the primary textbook Chemistry Workbook For Dummies Peter J. Mikulecky, Katherine Brutlag, Michelle Rose Gilman, Brian Peterson, 2008-08-06 From liquids and solids to acids and bases work chemistry equations and use formulas with ease Got a grasp on the chemistry terms and concepts you need to know but get lost halfway through a

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