Reaction Quotient

How do you predict which direction a reaction will proceed to reach equilibrium?

Why?

When a reaction reaches equilibrium there must be some non-negligible amount of every species in the reaction, otherwise the reaction cannot react in both directions. Knowing this, it is very easy to predict which direction a reaction will go to reach equilibrium when one of the components of the reaction has an initial concentration of zero. Many of the problems you have worked with thus far have some component at zero concentration, but real life does not work that way. Most of the time, the reaction in question has some measureable amount of every species. Deciding which way the reaction will go to reach equilibrium then becomes more challenging.

Model 1 - A Theoretical Equilibrium

Trial I	$A(g) + B(g) \longleftrightarrow C(g)$		
Initial	1,000 M4	1.000 M	1.000 M
Change	<		
Equilibrium	1.464 M	1.464 M	0.536 M

Trial 2	$A(g) + B(g) \longleftrightarrow C(g)$		
Initial	2.000 M	0.500 M	0.500 M
Cihange			
Equilibrium	2.150 M	0.650 M	0.350 M

Trial 3	$A(g) + B(g) \longleftrightarrow C(g)$		
Inicial	1.000 M	0.500 M	1.500 M
Change			
Equilibrium	1.864 M	1.364 M	0.636 M

Trial 4	$A(g) + B(g) \longleftrightarrow C(g)$		
Unitial	1.600 M	1,000 M	0.400 M
Change			
Equilibrium	1,600 M	1.000 M	0.400 M

Trial 5	$A(g) + B(g) \longleftrightarrow C(g)$		
Initial	1.400 M	1.200 M	0.400 M
Change			
Equilibrium	1.388 M	1.188 M	0.412 M

Trial 6	$A(g) + B(g) \longleftrightarrow C(g)$		
Unitial	0.750 M	2.000 M	0.250 M
Change			
Equilibrium	0.675 M	1.925 M	0.325 M

- 1. Examine Model 1.
 - at. Write the theoretical chemical reaction that is used in the trials of Model 1.
 - & If 0.50 M of reactant A reacts, predict the change in concentration of B and C.,
- 2. What variables were changed in the different trials shown in Model 1?

Equilibrium Activities For High School Chemistry Pogil

F. van Zeggeren, S. H. Storey

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Questioning for Formative Feedback Jackie Acree Walsh, 2022-05-20 When used effectively quality questions and student dialogue result in self regulated learners and formative feedback that reveals progress toward learning goals Learning knows no boundaries The potential for learning exists whenever and wherever we interact with our environment So how can we infuse school learning with the authenticity and excitement associated with real life experiences In Questioning for Formative Feedback Jackie Acree Walsh explores the relationship between guestioning and feedback in K 12 classrooms and how dialogue serves as the bridge connecting the two Quality questioning productive dialogue and authentic use of feedback are a powerful trifecta for addressing the needs of a new generation of learners In fact the skillful use of these three processes can fuel and accelerate the academic social and emotional learning of all students In this book Walsh provides a manual of practice for educators who want to engage students as partners in these processes To that end she offers the following features to help create a classroom in which everyone learns through intentional practice Blueprints for coherent models of key processes and products Tools and strategies to help you achieve identified outcomes Protocols with step by step directions to complete an activity Classroom artifacts of authentic classroom use including links to 21 original videos produced exclusively for this book Working together questioning dialogue and feedback can transform learning for all This book supports you in embracing and bringing that vision to fruition POGIL Activities for High School Chemistry High School POGIL Initiative, 2012 **High School Chemistry** Vishal Mody, 2016-05-20 This chemistry booklet was created to help students specifically with the topic of Chemical Equilibrium in chemistry This booklet has been made extremely concise yet explains the concepts in detail at the same time Remember that this booklet is not designed to be your main study source but rather as an adjunct to your school teacher's notes. There are also lots of practice questions with detailed solutions at the end to solidify the concepts you have learned Chemical Equilibrium In a Nutshell Brian Coleman, 2018-06-25 Understanding the math and minutiae of chemical equilibrium can be a tall task for anyone so why not enlist the help of a scientific squirrel to guide you on your journey Join Dr Wash as we dabble in equilibrium constants and other tools needed to predict chemical processes This book focuses on introductory concepts at the high school and early university level focusing on identifying equilibrium calculating K and Q discussing Le Chatelier's principle and tying equilibrium with the field of Thermodynamics Full of step by step instructions and practice questions this book aims to simplify one of the more complex topics found within the field of chemistry Comparison of Inductive and Deductive Programmed Instruction on Chemical Equilibrium for High School Chemistry Students Diane Decker Sakmyster, 1972 **Chemical Equilibrium** William Guenther, 1975-12 The present work is designed to provide a practical introduction to aqueous equilibrium phenomena for both students and research workers in chemistry biochemistry geochemistry and interdisciplin ary environmental fields The pedagogical strategy I have adopted makes heavy use of detailed examples of problem solving from real cases arising both in

laboratory research and in the study of systems occurring in nature The procedure starts with mathematically complete equations that will provide valid solutions of equilibrium problems instead of the traditional approach through approximate concentrations and idealized infinite dilution assumptions There is repeated emphasis on the use of corrected conditional equilibrium constants and on the checking of numerical results by substitution in complete equations and or against graphs of species distributions Graphical methods of calculation and display are used extensively because of their value in clarifying equilibria and in leading one quickly to valid numerical approximations. The coverage of solution equilibrium phenomena is not however exhaustively comprehensive Rather I have chosen to offer funda mental and rigorous examinations of homogeneous step equilibria and their interactions with solubility and redox equilibria Many examples are worked out in detail to demonstrate the use of equi librium calculations and diagrams in various fields of investigation Understanding of Chemical Equilibrium in Second Semester General Chemistry Students David C. Swanson, California State University, Sacramento, 2011 The concept of chemical equilibrium is central to the understanding of chemistry and is widely viewed as the most difficult topic to master in the General Chemistry curriculum The study of chemical equilibrium is at the core of Chem 1B the second semester general chemistry class at California State University Sacramento This study attempts to locate the primary reasons for students difficulties with chemical equilibrium and to suggest help for their problems particularly with regard to the conceptual understanding of this topic The action research technique has been employed to characterize this problem develop and introduce interventions to the student environment meant to improve the problem and collate and summarize the results of this intervention It is found that there is a lack of conceptual understanding of the principles underlying chemical equilibrium on the part of general chemistry students and it is recommended that additional conceptual teaching be added to the general chemistry curriculum at CSUS **Equilibrium Calculations** John T. Donoghue, 1971 **Chemical Equilibrium and Solutions** James E. Banks, 1967 **Interactive Chemistry** ,2001

Chemical Equilibrium William B. Guenther, 1975 **The Computation of Chemical Equilibria** F. van Zeggeren, S. H. Storey, 2011-02-17 This 1970 book the authors derive the equations describing equilibria in different types of system and outline the effect of variation of the parameters of the system on the equilibrium composition by using equilibrium calculations in high temperature high pressure processes in rocketry and in explosives technology Chemical Molecular Equilibrium P. H. Carnell, R. N. Reusch, 1963 Solution Equilibria F. R. Hartley, Christopher equilibrium , Burgess, R. M. Alcock, 1980 <u>Unified Equilibrium Calculations</u> William Benton Guenther,1991-08-19 A new approach to the academic treatment of solution equilibria is presented The author unifies homonuclear equilibrium calculations in one concept The alpha species fraction and bound proton and bound ligand ratio as a function of a single master variable the unbound H or L yield complete balances A single logic is maintained for all cases by equating the chemical binding expressed as an equilibrium condition and as a material balance condition Ion Exchange Equilibrium Constants Y. Marcus, Darryl G.

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