

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 measurable amount of every species. Deciding which way the reaction will go to reach equilibrium then becomes more challenging.

Model 1 – A Theoretical Equilibrium

Trial 1	$A(g) + B(g) \rightleftharpoons C(g)$		
Initial	1.000 M	1.000 M	1.000 M
Change			
Equilibrium	1.464 M	1.464 M	0.536 M

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

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

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

Trial 4	$A(g) + B(g) \rightleftharpoons C(g)$		
Initial	1.600 M	1.000 M	0.400 M
Change			
Equilibrium	1.600 M	1.000 M	0.400 M

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

- Examine Model 1.
 - 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.
- What variables were changed in the different trials shown in Model 1?

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CH Cherryholmes



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Analytical Chemistry Juliette Lantz, Renée Cole, The POGIL Project, 2014-12-31 An essential guide to inquiry approach instrumental analysis Analytical Chemistry offers an essential guide to inquiry approach instrumental analysis collection The book focuses on more in depth coverage and information about an inquiry approach This authoritative guide reviews the basic principles and techniques Topics covered include method of standard the microscopic view of electrochemistry calculating cell potentials the BerriLambert atomic and molecular absorption processes vibrational modes mass spectra interpretation and much more

Argumentation in Chemistry Education Sibel Erduran, 2022-06-29 Scientists use arguments to relate the evidence that they select from their investigations and to justify the claims that they make about their observations This book brings together leading researchers to draw attention to research policy and practice around the inclusion of argumentation in chemistry education

Equilibrium Calculations John T. Donoghue, 1971

Equilibrium Thomas R. Blackburn, 1969

Chemical Equilibrium and Solutions James E. Banks, 1967

The Answer

Key: A Comprehensive Explanation of Problem Solving Methods for General Chemistry Success (Volume Two)

(First Edition Rachel Turoscy, 2018-08-09 The Answer Key A Comprehensive Explanation of Problem Solving Methods for General Chemistry Success Volume 2 is a concise and accessible textbook that covers the critical information a student needs to understand the basic mathematics used in chemistry courses The book provides easy to understand step by step instructions for solving general chemistry problems The book begins with chapters dedicated to solutions kinetics and liquids solids and phase changes In subsequent chapters the text covers important topics like equilibrium concentrations strong and weak acids and bases the Common Ion Effect and reaction mechanisms It also covers the equilibrium between a solid and its respective ions in a solution as well as the second law of Thermodynamics The text also addresses Gibbs Free Energy equilibrium constants and electrolysis calculations Each chapter contains sample problems and practice problems to help further understanding of how math and chemistry go hand in hand The Answer Key is an excellent resource for any undergraduate course that deals with the basic concepts of general chemistry

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 interdisciplinary 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 fundamental 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 equilibrium calculations and diagrams in various fields of investigation *Principles of Chemical Equilibrium* Kelso B. Morris,1965

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Equilibrium Michell J. Sienko,1964 **Critical Evaluation of Equilibrium Constants in Solution** International Union

of Pure and Applied Chemistry. Commission on Toxicology, 1978 **Solutions, Phase equilibrium, Conductance, Electrochemistry and Functional Group Organic Chemistry - II** Mr. Rohit Manglik, 2024-03-03 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources. Specializing in competitive exams and academic support, EduGorilla provides comprehensive and well-structured content tailored to meet the needs of students across various streams and levels.

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