

SCH4U - Electrochemistry Cheat Sheet

by hunterkorman via cheatography.com/82889/cs/19681/

Definition

Equilibrium = the point in a chemical reaction where the reactants and the products are formed and broken at the same rate

Equilibrium Constant (K or Keq) = the numerical value defining the equilibrium law for a system at a given temperature (changes with temperature)

Vocabulary

Equilibrium = the point in a chemical reaction where the reactants and the products are formed and broken at the same rate

Dynamic equilibrium = a balance between the forward and backward rates that are occurring simultaneously

Equilibrium law = mathematical description of a chemical system at equilibrium

Equilibrium constant (K or Keq) = the numerical value defining the equilibrium law for a system at a given temperature (changes with temperature)

Heterogeneous equilibrium = products and reactants are in at least 2 different states; pure solids/liquids are not included in Keq formula

Variables Affecting Chemical Equili-

Le Châtelier's Principle: When a chemical system at equilibrium is disturbed by a change in property, the system responds in a way that opposes the change

Concentration/T- [conc]/T = shift to emperature consume

[conc]/T = shift to replace

If you add more reactant/heat to a system, the system will consume it to make more product, and vice versa

The Reaction Quotient

If Q >

Keq

Repres ented by the variable "Q"	Helps to determine the position of the equilibrium of a system using therate law for the system and comparing it with the Keq
If Q < Keq	[products] < [reactants] Reaction has not reached ⇒ yet; reaction needs to shift right
If Q = Keq	[products] = [reactants] Reaction has not reached equilibrium yet; no shift will occur

[products] > [reactants] Reaction

needs to shift left



By hunterkorman

Not published yet. Last updated 23rd May, 2019. Page 1 of 1. Sponsored by **Readable.com**Measure your website readability!
https://readable.com

cheatography.com/hunterkorman/