

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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