















Standard Gibbs Free Energy: $G^\circ = G$ at 298K and 1 atm The 1.4 Rule: At 25 °C (298 K), every 1.4 kcal/mol change in ΔG° results in a factor of 10 difference in K_{eq} (useful for estimating conversion of a reaction). conversion: percentage of starting material that is converted to products at equilibrium					
		[A] =	<u>→</u> [B	1	
	G°	<i>K</i> eq	ratio [B] : [A]	conversion [B]/([B] + [A])	
	-4.2	10 ³	1000 : 1	> 99.9%	
	-2.8	10 ²	100 : 1	99%	
	-1.4	10	10 : 1	91%	
	0	1	1:1	50%	
	+1.4	10 ⁻¹	1:10	9%	
	+2.8	10 ⁻²	1:100	< 1%	
	+4.2	10 ⁻³	1:1000	< 0.1%	
		ures: 10		ly at different 50 °C (1.5), 0 °C), etc.	2























