Relationship between K_{eq} and $\Delta G^{0'}$

$$\Delta G^{0'} = - [1372] \ \lg_{10} K_{eq}$$

Products / Reactants	**K_{eq}**		**$\lg_{10}$**	**$\Delta G^{0'}$ cal/mole* [$\lg_{10}$ x -1372]**	
1/1000	.001	10^{-3}	**-3**	**+ 4116**	**[R] > [P]**
1/100	.01	10^{-2}	**-2**	**+ 2744**	
1/10	.1	10^{-1}	**-1**	**+ 1372**	
1/1	1.0	0	0	0	
10/1	10	10^{+1}	**+1**	**- 1372**	**[P] > [R]**
100/1	100	10^{+2}	**+2**	**- 2744**	
1000/1	1000	10^{+3}	**+3**	**- 4116**	