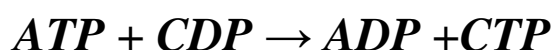


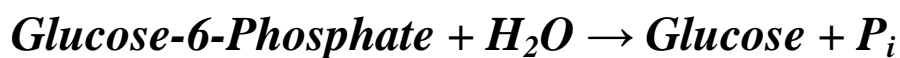
Biochemistry Homework 2

Estimate standard free energy for the following reaction and provide a logical explanation for your answer:



Technically, it is hard to determine directly the standard free energy for ATP hydrolysis experimentally. This is because of the minute amount of ATP remaining at equilibrium, so measurements will not be accurate. It is calculated indirectly!

Calculate standard free energy of ATP hydrolysis, provided the following information:



$$K_{eq}^{\circ} = 270$$



$$K_{eq}^{\circ} = 890$$