Quiz8

Thursday, November 10, 2016 5:57 PM

Name _____

1. What does it mean for a reaction to be spontaneous?

The reaction can happen without any energy input for to outside In Fact, it release energy AGKO

2. Consider the following reaction. Determine if $\Delta G > 0$, $\Delta G < 0$, or $\Delta G = 0$ for each condition.

 $2 \text{ HI } (g) \rightleftharpoons I_2 (s) + H_2 (g) \qquad \qquad \text{K} = 24 \qquad \qquad \Delta \text{H} = -100 \text{ kJ mol}^{-1}.$

a. Adding HI to a reaction at equilibrium.

Products Favored DG<0

b. Adding I₂ to a reaction at equilibrium.

solid no charge AG=0

c. Adding H₂ to a reaction at equilibrium.

d. Increasing the temperature.

e. Mixing together 1.00 g of I_2 , 1.00 M of HI and 1.00 M of H_2 .