

1. In a 2.00 L container, 0.100 mol of H_2 and 0.100 mol of I_2 are placed. The system is allowed to reach equilibrium at 400°C. At equilibrium, the concentration of H_2 is 0.050 M. Calculate the equilibrium constant, K_c , for the reaction.

Experiment 11: $\text{H}_2 + \text{I}_2 \rightleftharpoons 2\text{HI}$