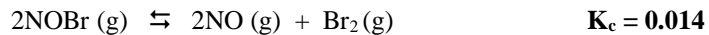


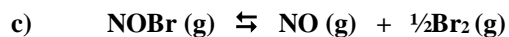
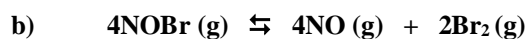
"TRY YOURSELF" PROBLEMS FROM STUDY SECTION 7.5

Try Yourself 7.5 a

The following reaction have the indicated equilibrium constant at 100°C:

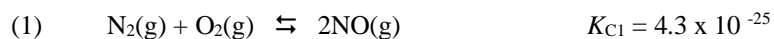


Determine the equilibrium expression, and value for K_c for the following reactions:



Try Yourself 7.5 b

Given these equilibrium reactions and constants,



Nitrogen dioxide is a toxic pollutant that contributes to photochemical smog. Calculate the equilibrium constant, K_{C3} , for the overall reaction, given that the K_c 's occur at the same temperature.