1. mol of N02(g) at 298k is placed in a 1.00 liter container. The NO2(g) spontaneously dimerizes to form N2O4(g) via the reaction:

 2 NO2(g) $\leftrightarrow $ N2O4(g)

 Kp=6.74

Calculate the number of moles of both species once the reaction has reached equilibrium.