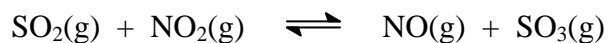


Marks
5

- Consider the following reaction.



At 460 °C this reaction has a value of $K_c = 85.0$. Suppose 0.100 mol of SO_2 , 0.0600 mol of NO_2 , 0.0800 mol of NO and 0.120 mol of SO_3 are placed in a 10.0 L container at this temperature. What are the concentrations of all of the gases when the system reaches equilibrium?

$[\text{SO}_2(\text{g})] =$

$[\text{NO}_2(\text{g})] =$