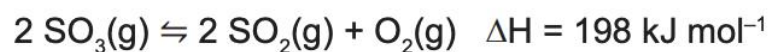


17. In the conversion between sulfur dioxide and sulfur trioxide in a sealed vessel, the following equilibrium is established:



For this system, which of the following statements about the equilibrium constant K is correct? K will

- (a) increase if the temperature of the system is decreased.
- (b) decrease if the partial pressure of $\text{SO}_2(\text{g})$ is increased.
- (c) increase if the temperature of the system is increased.
- (d) increase if the pressure of the system is increased.