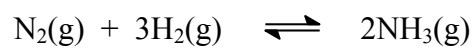


- Ammonia is synthesised according to the following reaction.



At 500 °C this reaction has a  $K_c$  of  $6.0 \times 10^{-2}$ .  $\Delta H^\circ$  for this reaction is  $-92 \text{ kJ mol}^{-1}$ . Calculate the value of  $K_c$  at 200 °C.

**Marks**  
**3**

Answer: