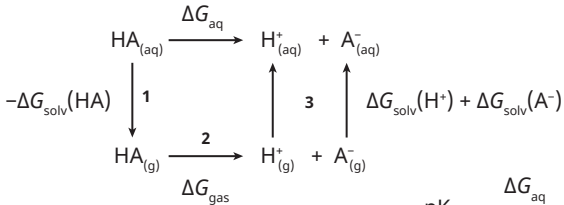


Reaction in solution



Reaction in the gas phase

$$\text{pK}_a = \frac{\Delta G_{\text{aq}}}{RT \ln(10)}$$