

Solutions

Each answer shows the steps, then the **result**.

2.1

- $K = \frac{[\text{SO}_3]^2}{[\text{SO}_2]^2[\text{O}_2]}$

2.2

- Pure solids and pure liquids

2.3

- $K = \frac{[\text{HI}]^2}{[\text{H}_2][\text{I}_2]}$

3.1 B

- its coefficient in the balanced equation

3.2

(a)

- $K = [\text{CO}_2]$

(b)

- The solids (CaCO_3 , CaO) have constant activity and are omitted

3.3

- $K = \frac{[\text{FeSCN}^{2+}]}{[\text{Fe}^{3+}][\text{SCN}^-]}$