

21 1. $Q_r = \frac{[\text{SO}_3^{2-}(\text{aq})] \cdot [\text{H}_2\text{S}(\text{aq})]}{[\text{HSO}_3^-(\text{aq})] \cdot [\text{HS}^-(\text{aq})]}$

Systeme 1 : $Q_{r,1} = \frac{0,300 \times 0,300}{0,300 \times 0,300} = 1,00$

Systeme 2 : $Q_{r,2} = \frac{0,177 \times 0,301}{0,379 \times 0,223} = 0,630$

Systeme 3 : $Q_{r,3} = \frac{0,120 \times 0,120}{0,245 \times 0,326} = 0,180$

2. Le système 2 est à l'équilibre car $Q_{r,2} = 0,630 = K(T)$.