

19 a. $Q_r = \frac{1}{[\text{Ag}^+ (\text{aq})] \cdot [\text{Cl}^- (\text{aq})]}$ car AgCl est solide.

b. $Q_r = \frac{[\text{HCO}_2^- (\text{aq})] \cdot [\text{H}_3\text{O}^+ (\text{aq})]}{[\text{HCO}_2\text{H} (\text{aq})]}$ car H₂O est un solvant.

c. $Q_r = [\text{Ba}^{2+} (\text{aq})] \cdot [\text{SO}_4^{2-} (\text{aq})]$ car BaSO₄ est solide.

d. $Q_r = \frac{[\text{Al}^{3+} (\text{aq})]^2}{[\text{Zn}^{2+} (\text{aq})]^3}$ car Al et Zn sont solides.

e. $Q_r = [\text{SO}_4^{2-} (\text{aq})] \cdot [\text{H}_3\text{O}^+ (\text{aq})]^2$ car H₂SO₄ est solide et H₂O est un solvant.

f. $Q_r = \frac{[\text{Fe}^{2+} (\text{aq})]^2 \cdot [\text{S}_4\text{O}_6^{2-} (\text{aq})]}{[\text{Fe}^{3+} (\text{aq})]^2 \cdot [\text{S}_2\text{O}_3^{2-} (\text{aq})]^2}$