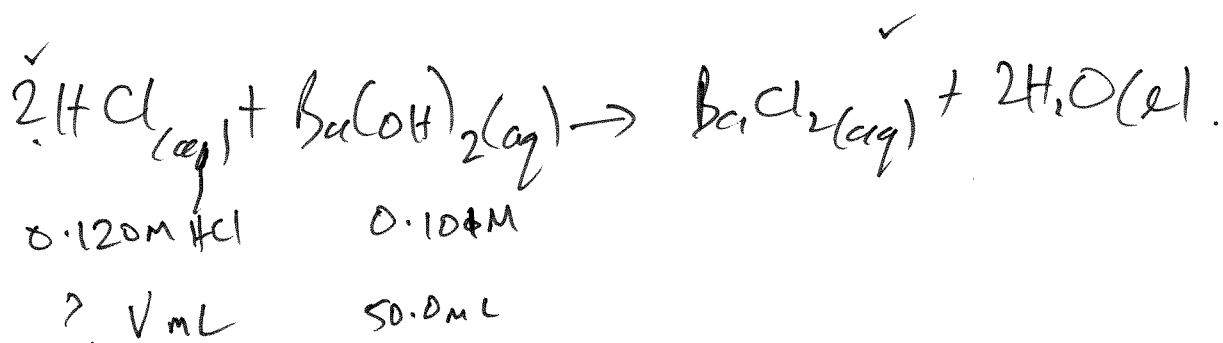
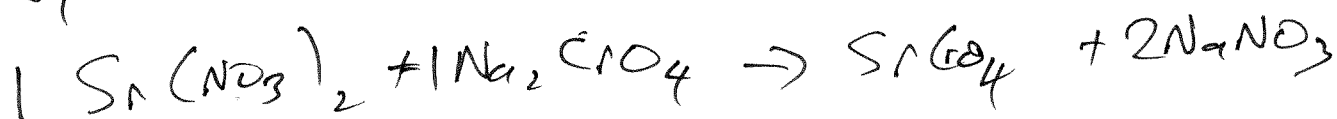


(3)



$$\begin{aligned}
 \frac{C_{\text{HCl}} V_{\text{HCl}}}{C_{\text{Ba}(\text{OH})_2} V_{\text{Ba}(\text{OH})_2}} &= \frac{2}{1} \Rightarrow V_{\text{HCl}} = \frac{2 C_{\text{Ba}(\text{OH})_2} V_{\text{Ba}(\text{OH})_2}}{C_{\text{HCl}}} \\
 &= \frac{2}{1} \frac{0.100\text{M} \times 50 \times 10^{-3}\text{L}}{0.120\text{M}} \\
 &= 0.0842\text{L} \\
 &= 84.2\text{ mL}
 \end{aligned}$$

4.64



6.82g

0.500L

↓

0.100L

0.0335M

$$\begin{aligned}
 V_{\text{Na}_2\text{CO}_3} &= \frac{0.0644 \times 0.100}{0.0335} \\
 &= 0.192\text{ L}
 \end{aligned}$$

$$M_{\text{Sr}(\text{NO}_3)_2} = 211.6 \frac{\text{g}}{\text{mol}}$$

$$n_{\text{Sr}(\text{NO}_3)_2} = \frac{6.82\text{ g}}{211.6 \text{ g/mol}}$$

$$= 0.032\text{ mol}$$

$$C = \frac{n}{V} = \frac{0.032}{0.500\text{L}}$$

$$= 0.0644 \frac{\text{mol}}{\text{L}}$$

$$0.0644 \frac{\text{mol}}{\text{L}} \times 0.100\text{L}$$

$$C_1 V_1 = C_2 V_2$$

Sr(NO₃)₂Na₂CO₃