

$$1) m_{\text{Cr}} - g_{\text{Cr}} = 802 \quad m_{\text{Cr}_2\text{O}_3} = \frac{802 \cdot 202}{100} = 162$$

$w_{\text{Cr}} = 20\%$
 $m_{\text{Cr}_2\text{O}_3} = ?$
 $m(\text{NH}_3) = ?$
 $m(\text{Cu}) = ?$

$$m_{\text{Cu}} = m_{\text{Cr}} - m_{\text{Cr}_2\text{O}_3} = 802 - 162 = 642$$

$$2) m_{\text{C}_2\text{H}_2} = 3 \text{ г} \quad m_{\text{C}_2\text{H}_4} = 3 \text{ г} \quad C = \frac{m}{M} = \frac{3 \text{ г}}{26 \text{ г/моль}} = 0,115 \text{ моль}$$

$$V = 20 \text{ мл} \quad V = 20 \text{ мл} \quad M(\text{C}_2\text{H}_4\text{O}_2) = 12 \cdot 2 + 4 + 16 \cdot 2 = 60 \text{ г/моль}$$

$$C = \frac{m}{M} \quad C = ?$$

$m(\text{C}_2\text{H}_4\text{O}_2) = 962$
 NaOH

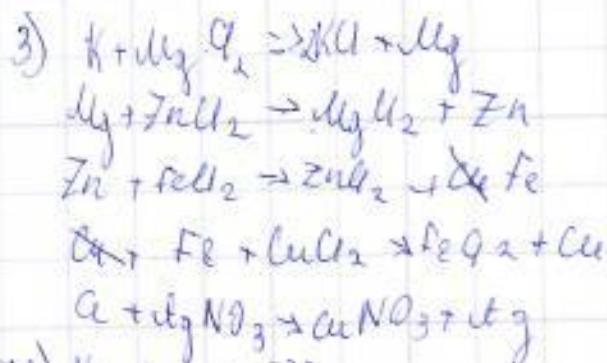
$$Q = 560 \text{ Дж}$$

$$Q = \frac{q}{n(\text{C}_2\text{H}_4\text{O}_2)}$$

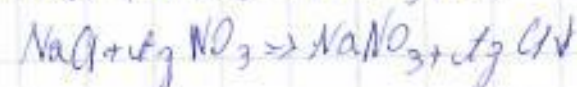
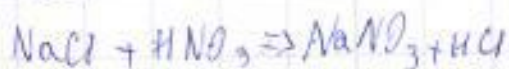
$J = ?$

$$J = \frac{m}{M} = \frac{0,17}{60 \text{ г/моль}} = 0,1 \text{ моль}$$

$$Q = \frac{560 \text{ Дж}}{0,1 \text{ моль}} = 5600 \text{ Дж/моль}$$



$$4) N = 3,82 \cdot 10^{-23}$$



$$9) m(\text{HgCl}_2) = 0,4416 \text{ г}$$

$$\rho = 1,2 \text{ г/см}^3$$

$$V = 20 \text{ см}^3$$

$$\omega = ?$$

$$\omega = \frac{m_{\text{с.з}}}{\rho \cdot V}$$

$$\omega = \frac{0,4416 \text{ г}}{1,2 \text{ г/см}^3 \cdot 20 \text{ см}^3} = 0,02208 \%$$