

N1

328

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11 км.

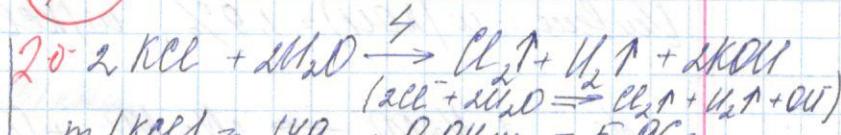
Раствор:

$$\omega \text{ (KCl)} = 4\%$$

$$m \text{ (KCl)} = 149_2$$

$$V \text{ (1 бутылка)} = 1,12 \text{ л}$$

$$\omega \text{ (Fe - ба)} = ?$$



$$m \text{ (KCl)} = 149_2 \cdot 0,04 = 5,96_2$$

$$\rho \text{ (KCl)} = \frac{5,96_2}{44,5^2 \text{ /моль}} = 0,08 \text{ моль} \quad 15.$$

$$\rho \text{ (H}_2\text{, Cl}_2\text{)} = \frac{V}{V_m} = \frac{1,12 \text{ л}}{22,4 \text{ л/моль}} = 0,05 \text{ моль} \quad 15.$$

$$\rho \text{ (Cl}_2\text{)} = \rho \text{ (H}_2\text{)} = \frac{1}{2} \rho \text{ (H}_2\text{ + Cl}_2\text{)} = 0,025 \text{ моль}$$

$$\rho \text{ (Fe)} = 0,08 - 0,05 = 0,03 \text{ моль}$$

15.

25.

$$\rho \text{ (KOH)} = \rho \text{ (KCl)} = 0,05 \text{ моль}$$

$$m(p-p_0) = 149_2 - 1,449_2 - 0,05_2 = 147,141_2$$

10.

$$m(Cl_2) = \rho \cdot M = 35,5^2 \text{ /моль} \cdot 0,025 \text{ моль} = 1,445_2 \quad 15.$$

$$m(H_2) = 0,025 \text{ моль} \cdot 2 \text{ г/моль} = 0,05_2 \quad 15.$$

$$\rho \text{ (KOH)} = \rho \text{ (KCl)} = 0,5 \text{ моль}$$

$$m(KOH) = 0,03 \text{ моль} \cdot (39^2 \text{ /моль} + 16^2 \text{ /моль} + 1 \text{ г/моль}) = 2,8_2$$

15.

$$\omega(KOH) = \frac{2,8_2}{147,141_2} \cdot 100\% = 1,9\%$$

15.

$$\omega(KCl) = \frac{2,235}{147,141_2} \cdot 100\% = 15,19\%$$

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$$m/\text{KCl} = (35,5^2/\text{molar} + 39^2/\text{molar}) \cdot 0,3 \text{ molar} = 22,352$$

Umrechnung: $w/\text{KCl} = 1,9\%$, $w/\text{KCl} = 15,19\%$ (170)



$$\text{J}(\text{O}_2) = \frac{V}{V_m} = \frac{11,2}{22,4} = 0,5 \text{ molar} \quad 25.$$

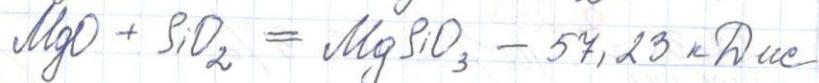
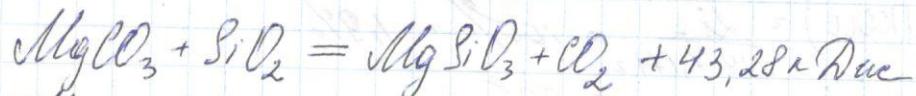
$$\text{J}(\text{NaNO}_3) = 2\text{J}(\text{O}_2) = 1 \text{ molar}$$

$$m(\text{NaNO}_3) = M \cdot J = 85 \text{ g} = 852$$

$$w(\text{NaNO}_3) = \frac{852}{122,62} = 100\% = 69,3\%$$

$$w(\text{Cu}(\text{NO}_3)_2) = 100\% - 69,3\% = 30,7\%$$

Umrechnung: $w(\text{NaNO}_3) = 69,3\%$; $w(\text{Cu}(\text{NO}_3)_2 = 30,7\%$



$$3 \text{ km} = 3000 \text{ m}$$

$$\bullet Q = 43,28 \frac{\text{m}^3}{\text{s}} / (-57,23 \text{ m}) = 100,51 \text{ kNm}$$

$$\frac{3000 \text{ m}^2}{84 \frac{\text{m}^3}{\text{kNm}}} = \frac{x}{100,51 \text{ kNm}}$$

$$x = \frac{3000 \cdot 100,51}{84} = 3589 \text{ kNm}$$

mm

$$\frac{3000 \text{ m}^2}{84 \frac{\text{m}^3}{\text{kNm}}} = \frac{x}{43,28 \text{ kNm}}$$

$$x = \frac{3000 \cdot 43,28}{84} = 1545,7 \text{ kNm} \quad 58.$$

5.

$$\text{gas m}/\text{D}_2 \} = \text{new m}/\text{CO}_2 \}$$

$$\begin{aligned} \text{m}/\text{CO}_2 &= 4,27 \text{ kg} \\ \text{m}/\text{H}_2\text{O} &= ? \quad x \\ \text{m}/\text{N}_2 &= ? \quad y \end{aligned} \quad \left. \begin{array}{l} \\ \\ \end{array} \right\} \text{m} = 70,19 \text{ kg}$$

$$\text{M}/(\text{kg} \cdot \text{km}) \approx 201,5 \frac{\text{m}^3}{\text{kg}}$$



$$M(CO_2) = 44 \text{ g/mole}$$

$$M(H_2O) = 18 \text{ g/mole}$$

$$M(NO_2) = 46 \text{ g/mole}$$

$$\frac{44}{5} : \frac{18}{1} : \frac{46}{5} = CO_2 : H_2O : NO_2$$

$$CO_2 = H_2O$$

$$= m(NO_2) 40,19 -$$

Umwelt 328