

N1.
Берілгені
500мл.
 $w = 4,0\%$

$$\rho = 1,025 \text{ г/мл}$$

$$m = 15,0 \text{ г}$$

Шешуі:

$$500 \text{ мл} - 4,0\%$$

$$1 \cdot \frac{500}{4,0} = 125$$

$$\begin{array}{cc} 125 & \cdot x \\ 10,25 \text{ мл} & 15,0 \end{array}$$

$$x = \frac{125 \cdot 15,0}{10,25} = 1829,2$$

$$w(\text{PT}) = \frac{196}{1829,2} \cdot 100\% = 10,6\%$$

$$w(\text{Na}) = \frac{23}{1829,2} = 1,25\%$$

жауабы: $w(\text{Na}) = 1,25\%$ $w(\text{PT}) = 10,6\%$

N2.

Берілгені:

$\text{Cu} = \text{Fe} = \text{Zn}$ массалары.

Fe

$\text{HCl} - 150\text{г} - 15\%$

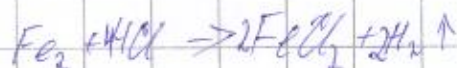
Т/к: $w = ?$

Шешуі:



$$\text{Cl} = \frac{150}{2.85} = 1.76 \quad x = \frac{6 \cdot 36.5}{1.76} = 124.4$$

$$w = \frac{64}{124.4} \cdot 100\% = 51.4\%$$



$$w(\text{Fe}) = \frac{56}{124.4} \cdot 100\% = 45\%$$



$$w(\text{Zn}) = \frac{65}{124.4} \cdot 100\% = 52.2\%$$

Найдем:

$$w(\text{Cu}) = 51.4\%$$

$$w(\text{Fe}) = 45\%$$

$$w(\text{Zn}) = 52.2\%$$

№3

Берілгені:

$$w(B) = 72,131\%$$

$$w(C) = 69,69\%$$

$$w(D) = 64,44\%$$

$$w(E) = 58,41\%$$

$$w(A) = 43,71\%$$

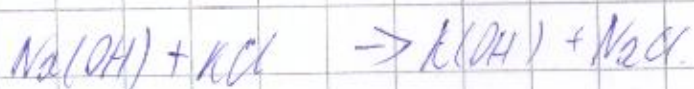
Жау

Менші:

Р

N4.

Көшірі:



$$K_{sp}(\text{AgCl}) = 1,8 \cdot 10^{-10}$$

$$K_{sp}(\text{Ag}_2\text{SO}_4) = 3,2 \cdot 10^{-5}$$

4.1 $137 : 100 = 1,37 \cdot 10^{-10}$

4.2. $\text{Ст. минимал} = 1 \cdot 10^{-6}$

4.3. Себебі: BaSO_4 өрiндей ақ түнбей тұрады. Олар бір-бірімен қосынғада өрiндей қалмай.

4.4. Себебі сондай реакция жүрмейді.

N5.



5,3.

Берілгені:

$$T_1 = 22^\circ$$

$$T_2 = 28,8^\circ$$

$$m = 250 \text{ г}$$

жылу сыйымдылығы $4,186 \text{ Дж/}^\circ\text{К}$.

$$\text{Шешуі: } T_2 - T_1 = 28,8 - 22 = 6,8^\circ$$

$$m = \frac{Q}{c \Delta T}$$

$$\hat{m} = \frac{250 \text{ г}}{168 \text{ г/моль}} = 1,42$$

$$M = \frac{250 \text{ г}}{56,2 \text{ г/моль}} = 4,41$$

$$\frac{6,8 - 4,4}{4,186} = 0,54$$