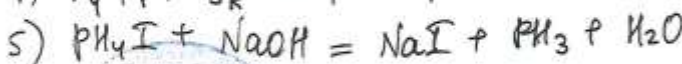
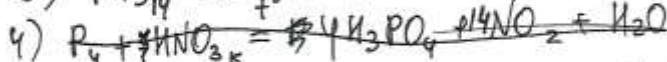
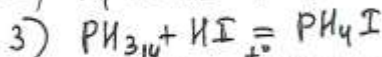
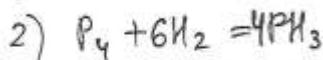
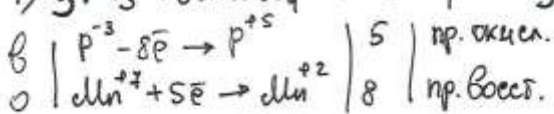
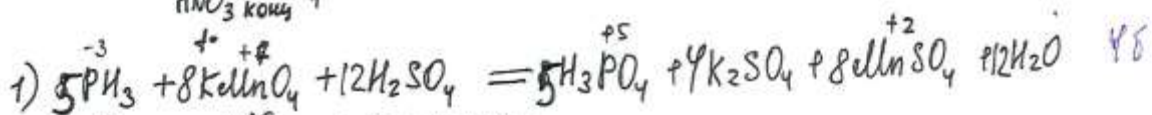
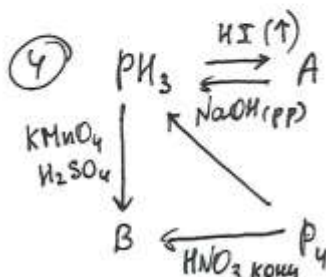
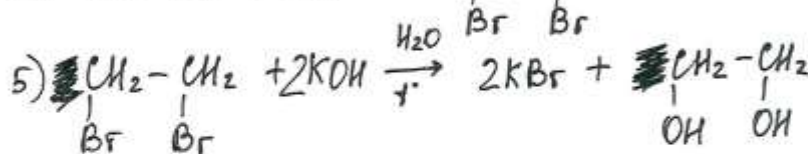
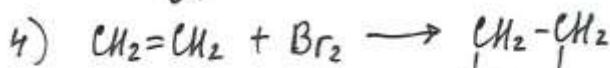
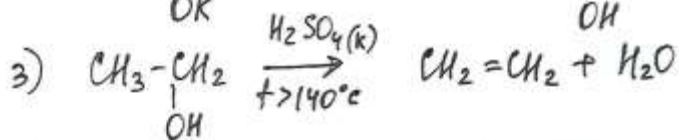
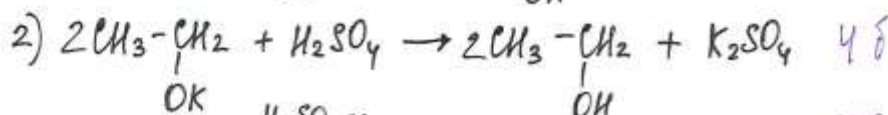
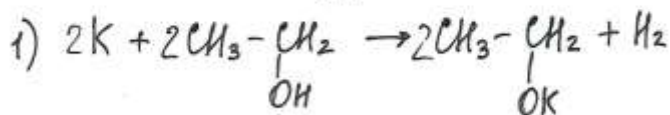
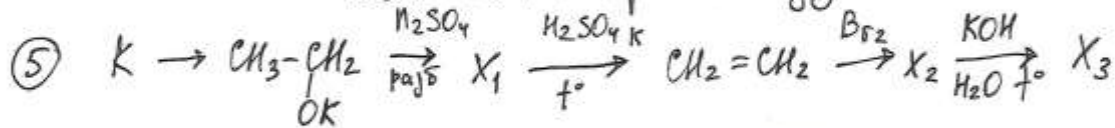


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① $\left[\begin{array}{c} 50\% \\ m=1 \end{array} \right] + \left[\begin{array}{c} 50\% \\ m \cdot 2 \end{array} \right] = \left[\begin{array}{c} 35\% \end{array} \right]$

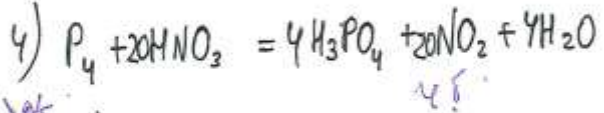
Ответ:

$0,5 + 0,5 = 0,35$
 $0,5 + 0,1 = 0,35$

205

2050
16
18
10
64

165



② Дано:

$$V(O_2) = 95 \text{ мл}$$

$$V(C_3H_8 + C_3H_8) = 25 \text{ мл}$$

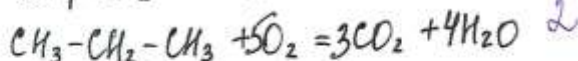
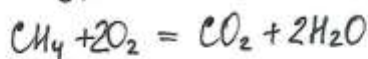
$$V(\uparrow) = 60 \text{ мл}$$

после р-ции

$$\omega(\uparrow) = ?$$

в % см.

Решение:



$$n(O_2) = \frac{95}{32} = 3 \text{ моль}$$

$$\text{Если } n_1(O_2) = x \text{ моль, то } n(CH_4) = \frac{x}{2} \text{ моль}$$

$$\text{Если } n_2(O_2) = y \text{ моль, то } n(C_3H_8) = \frac{y}{5} \text{ моль}$$

$$\begin{cases} x + y = 3 \text{ моль} \end{cases}$$

$$\begin{cases} 16 \cdot \frac{x}{2} + 44 \cdot \frac{y}{5} = 25 \end{cases} \Rightarrow \begin{cases} x = 3 - y \\ 16 \cdot \frac{3-y}{2} + 44 \cdot \frac{y}{5} = 25 \end{cases}$$

$$8(3-y) + \frac{44y}{5} = 25$$

$$24 - 8y + 8,8y = 25$$

$$0,8y = 1$$

$$y = 1,25 \text{ моль}$$

$$x = 1,75 \text{ моль}$$

$$n(CH_4) = \frac{1,75}{2} = 0,875 \text{ моль}$$

$$n(C_3H_8) = \frac{1,25}{5} = 0,25 \text{ моль}$$

$$m(CH_4) = 0,875 \cdot 16 = 14 \text{ г}$$

$$m(C_3H_8) = 0,25 \cdot 44 = 11 \text{ г}$$

$$\omega(CH_4) = \frac{14}{25} \cdot 100\% = 56\%$$

$$\omega(C_3H_8) = \frac{11}{25} \cdot 100\% = 44\%$$

$$\text{Ответ: } \omega(CH_4) = 56\%; \omega(C_3H_8) = 44\%$$

185

③ Дано:

$$m(A) = 2,125 \text{ г}$$

+ HCl конц

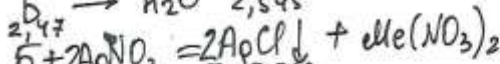
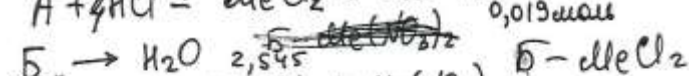
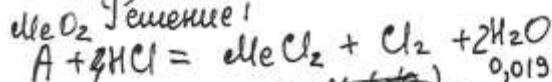
$$m(B) = 2,47 \text{ г}$$

+ AgNO₃

$$m(B\downarrow) = 2,545 \text{ г}$$

A-B-?

Решение:



$$n(AgCl) = \frac{2,545}{143,5} = 0,018 \text{ моль}$$

$$m(H_2O) = 2,47 - 2,125 = 0,345 \text{ г}$$

$$n(H_2O) = \frac{0,345}{18} = 0,019 \text{ моль}$$

$$n(MeO_2) = 0,0095 \text{ моль}$$

$$n(MeCl_2) = \frac{0,018}{2} = 0,009 \text{ моль}$$

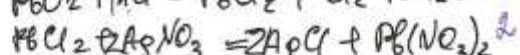
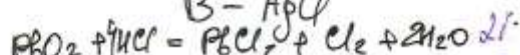
$$M(A) = \frac{2,125}{0,0095} = 224 \text{ г/моль}$$

$$M(B) = \frac{2,47}{0,009} = 274 \text{ г/моль}$$

A - PbO₂

B - PbCl₂

B - AgCl



105

$$\begin{aligned}\omega(p-p) &= 50\% \\ \omega(NaOH) &= 50\% \\ \omega(сол) &= 35\%\end{aligned}$$

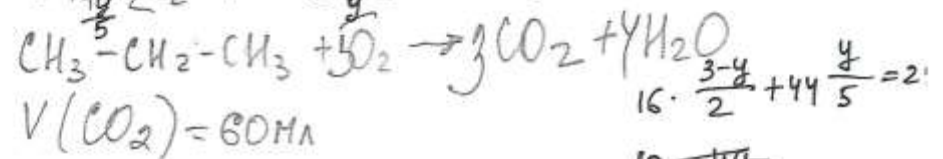
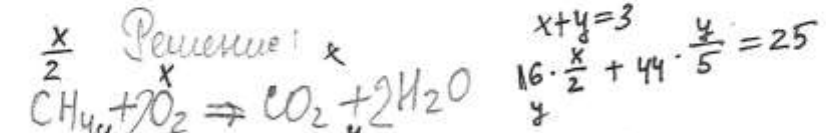
$$\boxed{50\%} + \boxed{50\%} = \boxed{35\%}$$

$$\begin{aligned}4,24 \cdot 10^{-3} \\ 4,24 \cdot 10^{-3}\end{aligned}$$

$$\begin{aligned}95 \quad 95 \text{ г} \\ 3 \text{ моль} \quad x = 3-y\end{aligned}$$

Дано

$$\begin{aligned}\textcircled{2} \quad V(O_2) &= 95 \text{ мл} \\ V(\text{смеси}) &= 25 \text{ мл} \\ V(\text{газов}) &= 60 \text{ мл} \\ \omega(\text{газов}) &= ?\end{aligned}$$



$$V(CO_2) = 60 \text{ мл}$$

$$95 \text{ мл } O_2 - 25 \text{ мл смеси}$$

$$n(CH_4) = n(CO_2) = x \text{ моль}$$

$$n(C_3H_8) = n(CO_2)$$

$$1 \quad 1 \quad 3$$

$$y \text{ моль} \quad 3y \text{ моль}$$

$$n(CO_2) = \frac{60}{44} = 1,36 \text{ моль}$$

$$\frac{y}{3} : y$$

$$2,125$$

$$\begin{cases} x + 3y = 1,36 \text{ моль} \\ 16x + 44y = 25 \end{cases} \Leftrightarrow \begin{cases} x = 1,36 - 3y \end{cases}$$

$$16(1,36 - 3y) + 44y = 25$$

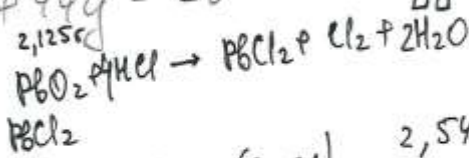
$$21,76 - 48y + 44y = 25$$

$$4y = 3,24$$

$$y = 0,81 \text{ моль}$$

$$2,43$$

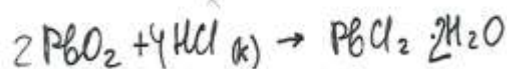
$$\begin{aligned}0,008 \\ 0,008\end{aligned}$$



$$n(AgCl) = \frac{2,545}{143,5} = 0,018 \text{ моль}$$

$$0,018 \text{ моль}$$

$$66 \text{ г}$$



$$137$$

$$\begin{aligned}x + y = 3 \\ 16 \cdot \frac{x}{2} + 44 \cdot \frac{y}{5} = 25\end{aligned}$$

$$16 \cdot \frac{3-y}{2} + 44 \cdot \frac{y}{5} = 2$$

$$24 - 8y + 8,8y = 2$$

$$0,8y = 1$$

$$y = 1,25 \text{ моль}$$

$$x = 1,75 \text{ моль}$$

$$\begin{aligned}0,25 \text{ моль пропан} \\ 0,875 \text{ моль метан}\end{aligned}$$

$$14 \quad 25$$

$$x + y = 1,36$$

$$\frac{14}{25} \cdot 100$$

$$56\%$$

$$44\%$$

