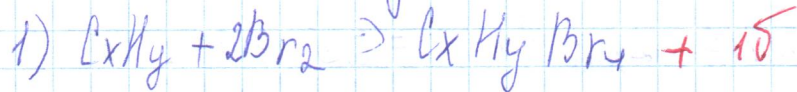


Задача N 11-1.

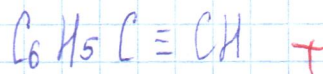
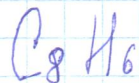
408



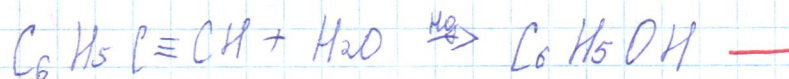
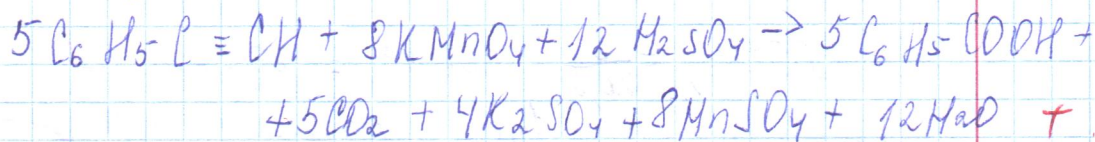
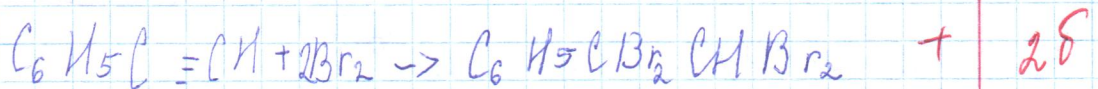
$$W(Br) = 75,8\%$$

$$M(C_x H_y Br_4) = \frac{80 \cdot 4}{0,758} = 422 \text{ г/моль} + 45$$

$$M(C_x H_y) = M(C_x H_y Br_4) - 4M(Br) = 422 - 320 = 102 \text{ г/моль}$$

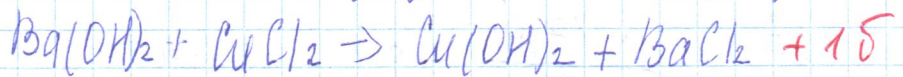
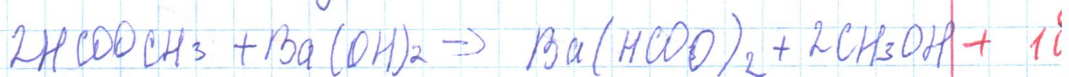


25



125

Задача N 11-2.



$$20,8 = 60x + 74y$$

$$v(\text{Ba}(\text{OH})_2) = \frac{90,9 \cdot 11 \cdot 0,135}{135} = 0,01 \text{ моль}$$

$$v(\text{Ba}(\text{OH})_2)_{\text{max}} = C_M \cdot V = 2,5 \cdot 0,1 = 0,25$$

$$\begin{cases} 0,25 = \frac{x}{2} + \frac{y}{2} + 0,01 \end{cases} \quad +$$

$$\begin{cases} 20,8 = 60x + 74y \end{cases}$$

$$x = 0,1 \text{ моль}$$

$$y = 0,2 \text{ моль}$$

$$m(\text{HCOOCH}_3) = 0,1 \cdot 60 = 6 \text{ г}$$

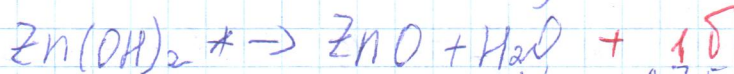
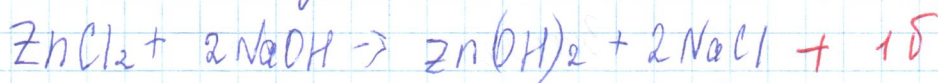
$$m(\text{CH}_3\text{COOCH}_3) = 0,2 \cdot 74 = 14,8 \text{ г} \quad +$$

$$m(\text{смеси}) = 6 + 14,8 = 20,8 \text{ г}$$

$$W(\text{HCOOCH}_3) = \frac{6}{20,8} \cdot 100\% = 28,85\% \quad +$$

$$W(\text{CH}_3\text{COOCH}_3) = \frac{14,8}{20,8} \cdot 100\% = 71,15\% \quad \textcircled{15\text{Б}}$$

Задача 11-3.



$$n(\text{ZnCl}_2) = m(\text{p-ра}) \cdot \frac{W}{M} = \frac{275 \cdot 0,1088}{136} = 0,22 \text{ моль}$$

$$n(\text{ZnO}) = \frac{m(\text{ZnO})}{M(\text{ZnO})} = \frac{8,1}{81} = 0,1 \text{ моль} \quad + 1\text{Б}$$

$$c(\text{NaOH}) = \frac{n}{V} = \frac{0,2}{0,25} = 0,8 \text{ моль/л}$$



$$1 - n(\text{Zn(OH)}_2)_1 = n(\text{ZnCl}_2) = 0,22 \text{ моль}$$

$$2 - n(\text{Zn(OH)}_2)_2 = n(\text{ZnO}) = 0,1 \text{ моль} \quad +$$

$$3 - n(\text{Zn(OH)}_2)_3 = 0,22 - 0,1 = 0,12 \text{ моль}$$

$$1 - n(\text{NaOH})_1 = 2n(\text{Zn(OH)}_2)_1 = 0,44 \text{ моль} \quad +$$

$$3 - n(\text{NaOH})_3 = 2n(\text{Zn(OH)}_2)_3 = 0,24 \text{ моль}$$

$$n(\text{NaOH}) = 0,44 + 0,24 = 0,68 \text{ моль}$$

$$c(\text{NaOH}) = \frac{0,68}{0,25} = 2,72 \text{ моль/л} \quad +$$

85

3 аргумента  $\sqrt{5}$ .



A - P +

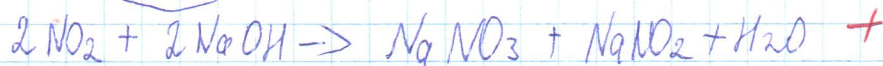
Б - HNO<sub>3</sub> +

В - H<sub>3</sub>PO<sub>4</sub> +

Ж - NO<sub>2</sub> +



И - Na<sub>3</sub>PO<sub>4</sub> +



К - NaNO<sub>3</sub> +

Л - NaNO<sub>2</sub> +

58