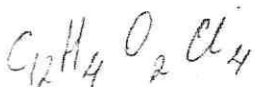
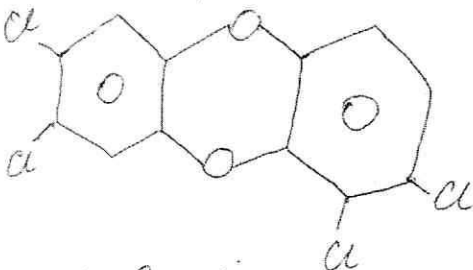


1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10
~~10~~ | ~~8~~ | ~~7~~ | ~~12~~ | ~~17~~ | ~~10~~

103

Зад. 1. Дано:

2, 3, 4, 6-тетракарбодихлорбензол-диоксим! 2, 4, 5-трихлорбензолат натрия



$\frac{N(C)}{N(Cl)} = 1,7273$

в 6-6 смеси = ?

Решение:

$N(C) = x \cdot NA$

$\frac{N(C)}{N(Cl)} = \frac{x(C) \cdot NA}{x(Cl) \cdot NA} = \frac{x(C)}{x(Cl)}$

2) $\sqrt{(C_{12}H_4O_2Cl_4)} = x$ моль
 $\sqrt{(NaC_6H_2OCl_3)} = y$ моль

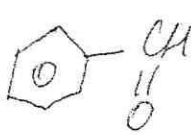
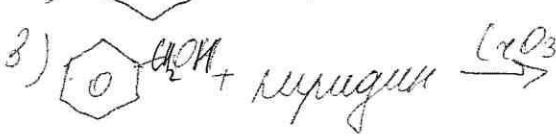
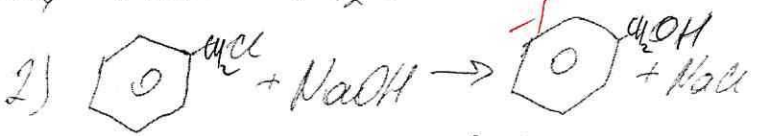
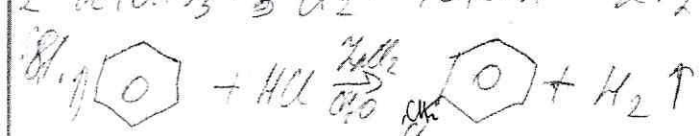
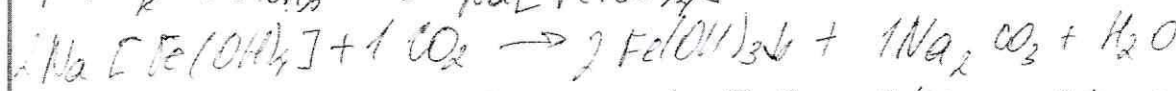
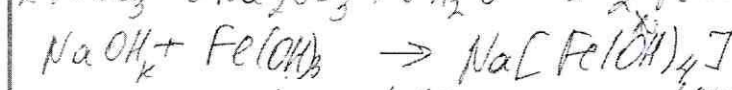
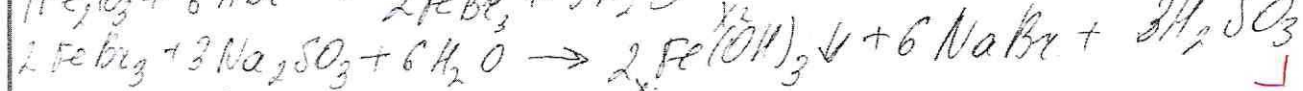
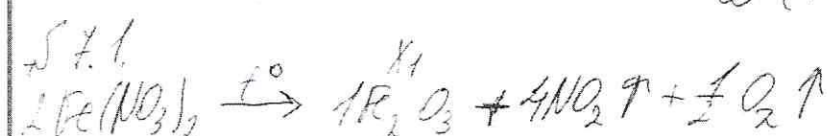
3) $\frac{x(C)}{x(Cl)} = \frac{12x + 6y}{4x + 3y} = 1,7273$

$12x + 6y = 10,9092x + 8,1819y$
 $1,0908x = 2,1819y$
 $x = 2y$

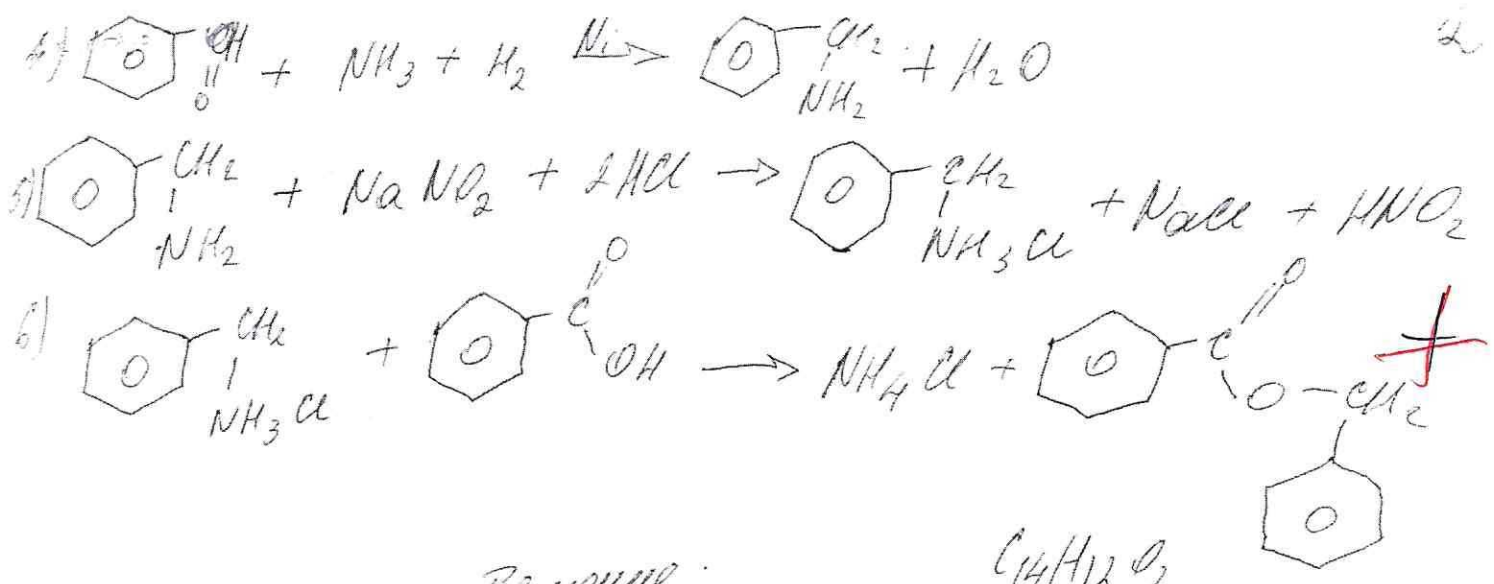
4) $w(C_{12}H_4O_2Cl_4) = \frac{322,2y}{322,2y + 219,5y} = 0,746$

$w(NaC_6H_2OCl_3) = 1 - 0,746 = 0,254$

Ответ: $w(C_{12}H_4O_2Cl_4) = 74,6\%$
 $w(NaC_6H_2OCl_3) = 25,4\%$



12



Р. 2. 1. Дано:
 $m(X) = 7,4 \text{ г.}$
 $+ O_2$
 $v(CO_2) = 8,96$
 $m(H_2O) = 9 \text{ г.}$
 $X - C_n H_p O_m$
 $X - ?$

Решение:
 $C_{14}H_{12}O_2$
 $K_2CO_3 + \frac{2H_2O}{2} \rightarrow K_2CO_3 + \frac{2}{2} H_2O$
 2) $K: \frac{1}{2} = 0,4:0,5$
 $K: C = 4:10$
 $C_4H_{10}O_m$
 3) $(X) = \frac{0,4}{0,1} = 0,1$
 $M(X) = \frac{7,4}{0,1} = 74 \text{ г/моль}$
 $C_4H_{10}O$
 $X - \text{глюциновый эфир}$

2) Дано:
 $m(C_4H_{10}O) = 15 \text{ г.}$
 $+ NaOH$
 $v(NaOH) = 2,75 \text{ м.}$
 $m(NaOH) = 31 \text{ м.}$
 $w(Na) = 0,45$
 $w(C_4H_{10}O) = ?$

Решение:
 $CH_3O-C_2H_5 + NaOH \rightarrow C_2H_5O-Na + CH_3OH + \frac{1}{2} O_2 + \frac{1}{2} Na_2O$
 $M(C_4H_{10}O) = \frac{15}{0,91} = 16,48 \text{ г/моль}$
 $v(NaOH) = 2,75 \cdot 0,91 = 2,5$
 $2NaOH + CH_3-C(=O)-O-CH_2-CH_3 \rightarrow CH_3-C(=O)-ONa + CH_3-CH_2-OH + \frac{1}{2} O_2$
 $CH_3-C(=O)-ONa + NaOH \rightarrow CH_4 + Na_2CO_3$

N 3. 1. $V = h \cdot r \cdot T^2 = 1570$
 $V' = 0,6 \cdot 1570 = 942$
 $v(NH_3) = 14,6$
 $n(NH_3) = 0,652$
 $C = 0,692 \text{ моль/л}$
 $pH = 14 - 0,15 (pK_e - \lg C(NH_3)) = 11,5$

HOCHO

10
85