

9

1. 1,44%, - 34,66%, - 47,29% : - 16,61%, -

20

$\text{Na}_a\text{H}_b\text{O}_c\text{X}_d$. (2) 100 ,

()

$$a:b:c:d = n(N):n(H):n(O):n(\text{Э}) = \frac{m(N)}{M(N)}:\frac{m(H)}{M(H)}:\frac{m(O)}{M(O)}:\frac{m(\text{Э})}{M(\text{Э})}$$

$$= \frac{16,61}{23}:\frac{1,44}{1}:\frac{34,66}{16}:\frac{47,29}{x} = 0,722:1,44:2,17:\frac{47,29}{x}$$

(разделим на самое меньшее 0,722)

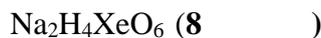
$$= 1:2:3:\frac{6,5}{x} \text{ (6)}$$

$\frac{6,5}{x}$

65,5 /

$$2 : a:b:c:d = 2:4:6:\frac{1}{x}$$

x=131.



16



(

),



+6,



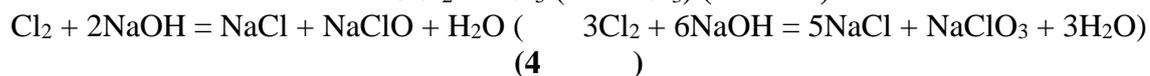
2.

$1,18 \cdot 10^{-22}$,

20

$$M(\text{в} - \text{ва}) = m(\text{молекулы}) \cdot N_A = 1,18 \cdot 10^{-22} \cdot 6,02 \cdot 10^{23} = 71 \text{ г/моль} \\ (\text{Cl}_2). \quad (4)$$

:



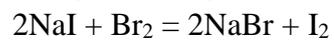
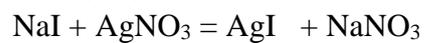
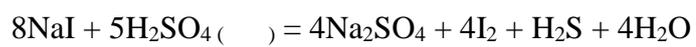
4.

- 1)
- 2)
- 3)
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)

15

: 9421

3 . 4 (15).



5.

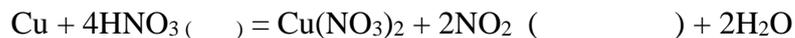
3.00

0.50

?

15

:



(4)



NO_2

:

$$n(\text{NO}_2) = \frac{V}{V_M} = \frac{0,5}{22,4} = 0,022 \text{ моль (1)}$$

, 2
0,011

(2)

$$m(\text{C}) = n \cdot M = 0,011 \cdot 64 = 0,704 \text{ г (1)}$$

$$m(\text{A}) = 1,5 - m(\text{C}) = 0,796 \text{ г (1)}$$

$$n(\text{A}) = \frac{0,7}{2} = 0,0295 \text{ моль (1)}$$

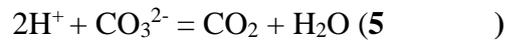
$$V(\text{H}_2) = n(\text{H}_2) \cdot V_M = 0,0295 \cdot 1,5 \cdot 22,4 = 0,99 \text{ л (1)}$$

6.

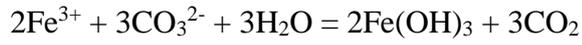
: H^+ , Fe^{3+} , NO_3^- , CO_3^{2-} .

15

CO_3^{2-} ,



Fe^{3+} ,



Fe^{3+}

(5)

Na^+

NH_4^+ . (5)

: Na^+ , NO_3^- , CO_3^{2-} .