

II ()

10

1.

:

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

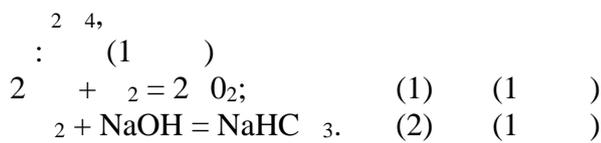
- 10

2.

1.

() = 29 - 29 * 0,034 = 28 (1)

;



: N₂, (II),

2.

: 5,6 / 22,4 = 0,25 (1)

3.

(2):

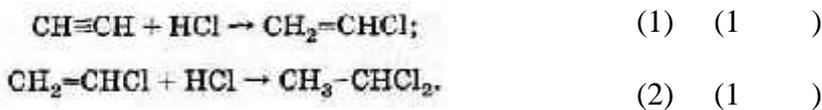
4.

$n(\text{N}_2) = n(\text{C}_2\text{H}_2) = n(\text{C}_2\text{H}_4) = 0,25$ (1)
 : (1)
 $m(\text{NaOH}) = 0,25 \cdot 40 = 10$;
 $m \text{ p-pa} = 10 : 0,1 = 100$
 $V \text{ p-pa} = 90,9$

- 7

3.

1.



2.

$n_1(\text{C}_2\text{H}_3\text{Cl}) = \frac{1800 \text{ кг}}{62,5 \text{ кг/кмоль}} = 28,8 \text{ кмоль}$. (1)

3.

l:

$m(\text{см.}) = \frac{1800 \text{ кг}}{0,948} = 1898,73 \text{ кг}$; (1)

$m_{\text{ост}}(\text{HCl}) = 1898,73 \text{ кг} \cdot 0,044 = 83,54 \text{ кг}$. (1)

4.

(2):

$$n(\text{C}_2\text{H}_4\text{Cl}_2) = \frac{1398,73 \text{ кг} \cdot 0,008}{99 \text{ кг/кмоль}} = 0,153 \text{ кмоль}; \quad (1)$$

$$n_2(\text{C}_2\text{H}_3\text{Cl}) = n(\text{C}_2\text{H}_4\text{Cl}_2) = 0,153 \text{ кмоль}; \quad (1)$$

$$n_2(\text{HCl}) = n(\text{C}_2\text{H}_4\text{Cl}_2) = 0,153 \text{ кмоль}. \quad (1)$$

5.

$$n_{\text{общ}}(\text{C}_2\text{H}_3\text{Cl}) = n_1(\text{C}_2\text{H}_2\text{Cl}) + n_2(\text{C}_2\text{H}_3\text{Cl}); \quad (1)$$

$$n_{\text{общ}}(\text{C}_2\text{H}_3\text{Cl}) = 28,8 \text{ кмоль} + 0,153 \text{ кмоль} = 28,953 \text{ кмоль}; \quad (1)$$

$$n(\text{C}_2\text{H}_2) = n_{\text{общ}}(\text{C}_2\text{H}_3\text{Cl}) = 28,953 \text{ кмоль}; \quad (1)$$

$$m(\text{C}_2\text{H}_2) = 28,953 \text{ кмоль} \cdot 26 \text{ кг/моль} = 752,78 \text{ кг}. \quad (1)$$

6.

1:

$$n_1(\text{HCl}) = n_{\text{общ}}(\text{C}_2\text{H}_3\text{Cl}) = 28,953 \text{ кмоль}; \quad (1)$$

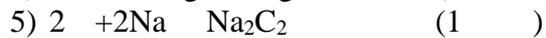
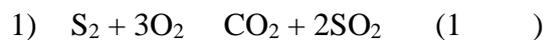
$$m(\text{HCl}) = m_1(\text{HCl}) + m_2(\text{HCl}) + m_3(\text{HCl}) \quad (1)$$

$$m(\text{HCl}) = 36,5 / \cdot (28,953 + 0,153) + 83,54 = 1145,91 \text{ кг}. \quad (1)$$

$$: m(1) = 1145,91 \text{ кг}; m(2) = 752,78 \text{ кг}.$$

- 15

4.



- 8

5.

1.

).

2.

(- 2)

3. (-2, -1)
 (-2)

-7

1). : 2 ,
 2). : (-2)

3). : .(1)

4). : (- , - 2+2)

-7

1). : 3 ,
 : .(1)
 2). PH (<7, =7, >7)
 (6)

-7

, :