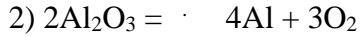


10

10-1



2. $n(\text{Na}_3[\text{AlF}_6]) = 80000 : 210 / 80 = 381$

$n(\text{HF}) = 6n(\text{Na}_3[\text{AlF}_6]) \cdot 1,2 = 381 \cdot 6 \cdot 1,2 = 2743$

$m(\text{HF}) = 2743 \cdot 19 \text{ г/моль} = 51917 \text{ г} = 51,9 \text{ кг}$

$m_{\text{p-ра}} = 54,9 : 0,4 = 137$

$V_{\text{p-ра}} = 137 : 1,13 / = 121$

3.

$m(\text{Al}_2\text{O}_3) = m(\text{Al}_2\text{O}_3) \cdot \omega(\text{Al}_2\text{O}_3) = 100 \cdot 0,05 = 5$

$n(\text{Al}_2\text{O}_3) = 5 : 102 / = 49$

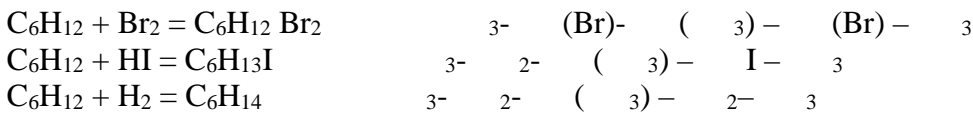
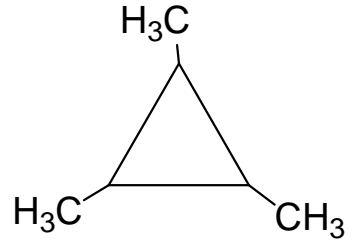
$n(\text{Al}) = 98 \quad m(\text{Al}) = n(\text{Al}) \cdot 27 \cdot \eta = 98 \cdot 27 \cdot 0,75 = 1,95$

- 1. 1 - 3
- 2. 1 - 3
- 3. 2 - 1
- 4. 1 - 2
- 5. 1 - 2

: 11

10-2 (

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



- 1. C_6H_{12} - 3
- 2. - 2
- 3. 1 - 3
- 4. 1 - 3

: 11

10-3

$$: 2 \cdot 2 = 2 \cdot 2 + 2$$

$$: n(H_2) = \frac{PV}{RT} = \frac{2,03 \cdot 10^5 \cdot 153 \cdot 10^{-3}}{8,31 \cdot 373} = 10$$

$$, n(H_2O) = 10$$

$$n() = 20$$

$$n() = x$$

$$20 - 8 = 12,$$

$$2 + 1 \cdot (20 -) = 28,$$

$$= 8.$$

$$H : D = 12 : 8 = 3 : 2.$$

- 1.
- 2.
- 3.

- 1
- 1
- 3

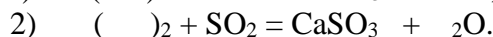
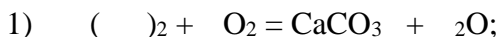
: 5

10-4

$$n(HCl) = CV = 1 / \cdot 0,125 = 0,125$$

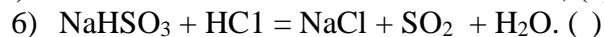
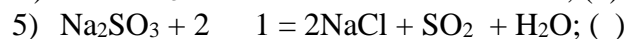
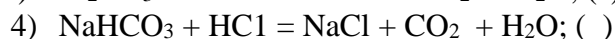
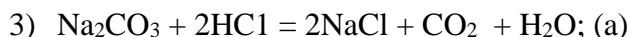
$$n(NaCl) = \frac{m}{M} = \frac{2,925}{58,5} = 0,05$$

()



: Na₂SO₃; NaHSO₃; Na₂CO₃;

NaHCO₃:



0,05

= n ·

$$(CO_2) = 44 (/) \cdot 0,025 = 1,1 ; ()$$

$$(CO_2) = 44 (/) \cdot 0,05 = 2,2 ; ()$$

$$(SO_2) = 64 (/) \cdot 0,025 = 1,6 ; ()$$

$$(SO_2) = 64 (/) \cdot 0,05 () = 3,2 . ()$$

().

- Na₂CO₃,

- O₂:



(0,5)

;

44 / .

: C₃H₈ N₂O.

(I)

- N₂O.

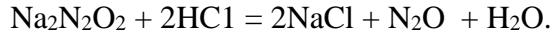
O₂

N₂O,

- Na₂N₂O₂ (

).

:



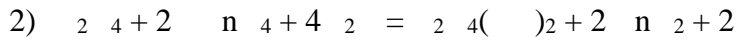
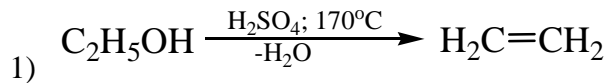
. - Na₂CO₃; - Na₂N₂O₂; - 2; - N₂O.

1. , 1 - 3
2. - 3
3. , - 4
4. 1-6 0,5 - 3
5. 0,5 - 1

: 14

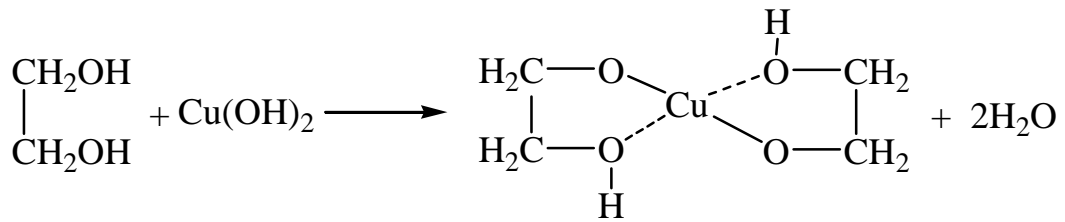
10-5

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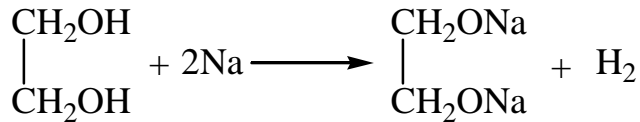


(II) :

3)



4)



$$n(\text{H}_2) = \frac{V}{V_m} = \frac{33,6}{22,4} = 1,5$$

$$n_{(\text{C}_2\text{H}_4(\text{OH})_2)} = \frac{1,5}{0,7 \cdot 0,7} = 3,06 \quad m(\text{C}_2\text{H}_4(\text{OH})_2) = 3,06 \cdot 62 = 18,97 \approx 19$$

1. - 2
 2. 1 4 1 - 2
 3. 2 3 2 - 4
 4. - 1
- : 9