

N1

X-09-03

$$\text{дискон} - C_3 H_2 = 98$$

$$C - 3H$$

$$\frac{9}{3} = 3$$

Минималді көміртек атомдарының саны - 3

N2

$$m(H_2) = 24,32$$

$$m(O_2) = 36,82$$

$$m(N_2) = 33,282$$

$$M(H_2) = 1 \cdot 2 = 2$$

$$M(O_2) = 16 \cdot 2 = 32$$

$$V(H_2) \cdot 2 \cdot m_H = 24,32$$

$$V(O_2) \cdot 32 + m_H = 36,82 \text{ моль}$$

$$m_H = 24,02, V(H_2) = V(O_2) = 0,4 \text{ моль}$$

$$0,128(0,16 \cdot 32 + (0,4 - 0,16) \cdot X) = 202 \text{ моль}$$

Ғализ 202-1001

N4

$$Ca_3(PO_4)_2 = 15,52$$

$$m(NaOH) = 2062,50\%$$

$$m(NaOH) = 1902,510\%$$

$$m(NaOH) = 402,510\%$$

$$M(Ca_3PO_4) = 40 \cdot 3 + 31 + 16 \cdot 4 \cdot 2 = 279$$

$$M(NaOH) = 23 + 16 + 1 = 40$$

$$Ca_3(PO_4)_2 + NaOH = Na_3PO_4 + Ca(OH)_2$$

N5

$$C_2H_2 + 2H_2 = C_2H_6$$

$$C_2H_4 + 4H_2 = C_2H_{10}$$

$$V = 150 \text{ C}_2\text{H}_2$$

$$V = 150 \cdot 2 = 300 \text{ (H}_2)$$

$$x + 150 - x + 300 - (2 \cdot x + 150 \cdot 4) = 250$$

$$x = 100 \text{ моль}$$

$$C_2H_2 + 2H_2 = C_2H_6$$

$$V = 0,12$$

$$\frac{22,4}{22,4} = 0,0045 \text{ моль C}_2\text{H}_2$$

$$m(H_2) = 160 \cdot 0,0045 \cdot 2 = 1,44 \text{ кг}$$

$$C_2H_2 + 2H_2 = C_2H_6$$

$$V = 0,105$$

$$\frac{22,4}{22,4} = 0,10022 \text{ моль C}_2\text{H}_2 = 59,89682$$

$$m(H_2) = 16 = 0,0222 = 0,22 \text{ моль}$$

$$m_{H_2} = \frac{14 \cdot 0,12}{0,12}$$

$$2C_2H_6 + 13O_2 = 8CO_2 + 10H_2O$$

$$2C_2H_6 + 11O_2 = 8CO_2 + 6H_2O$$

$$V(CO_2) = \frac{82}{44} = 2 \text{ моль}$$

$$V(H_2O) = \frac{30,6}{18} = 1,7 \text{ моль}$$

$$x + y = 2$$

$$1,25x + 0,75y = 17$$

$$1,25x + 0,75y = 17$$

$$1,25x + 1,25y = 17$$

$$0,15y = 0,17$$

$$y = 0,11$$

ж-09-03

$$f = 1.16 \text{ моль}$$

$$k = 0.14 \text{ моль}$$

$$v(\text{CH}_4) = \frac{x}{4} = 0.1 \text{ моль}$$

$$v(\text{C}_2\text{H}_2) = \frac{y}{2} = 0.14 \text{ моль}$$

№ 6

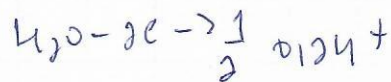
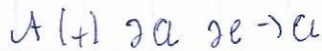
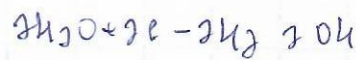
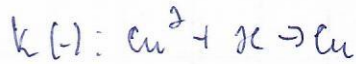
$$m(\text{CuSO}_4) = 200 \text{ г}$$

$$w(\text{CuSO}_4) = 16\%$$

$$m(\text{NaOH}) = 200 \text{ г}$$

$$w(\text{SO}_4^{2-}) = 51.6\%$$

$$n(\text{H}_2\text{O}) = ?$$



$$n(\text{CuSO}_4) = \frac{m \cdot w}{M} = \frac{200 \cdot 0.16}{160} = 0.2 \text{ моль}$$

$$m_{\text{ер}} = (16.12 \cdot 14) - (0.12 \cdot 2) - (0.14 \cdot 71) =$$

$$= 400 - 12.2 - 0.14 = 387.4 = 387.4 \text{ г}$$

$$m(\text{ер} - \text{ж}) = 387.4 - m(\text{H}_2\text{O}) = 342.2$$

$$m(\text{H}_2\text{O}) = 387.4 - 342.2 = 45.2$$

$$m(\text{H}_2\text{O}) = 357 - m(\text{H}_2\text{O}) = 342.2$$

$$n(\text{H}_2\text{O}) = \frac{m}{M} = \frac{45.2}{18} = 2.51 \text{ моль}$$



$$n(\text{H}_2) = 0.19 \cdot 2 = 0.38$$

$$n(\text{O}_2) = 0.19 \cdot 1 = 0.19$$

$$V = 96500 \quad 2.12 = 250 \text{ голь}$$

$$\text{каж } 12.2 \text{ Cu } 2.12$$

$$\text{H}_2 \text{ ж } 1.4 \text{ H}_2 = 14.1 \text{ г}$$

$$0.14 + 1.8 = 2.12 \text{ H}_2$$

$$0.18 + 9 = 2.6 \text{ моль}$$