

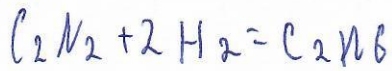
N1

X - 09 - 01

$$2C_4H_{10} + 13O_2 + 10H_2O \rightarrow 8CO_2 + 6H_2O \text{ или } (CO_2) = \frac{88}{44} = 2 \text{ моль } (H_2O) = \frac{36}{18} = 2 \text{ моль}$$

1,4 моль

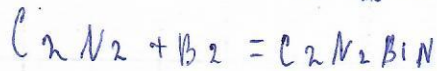
N3



$$V = 150 (C_2H_2)$$

$$x + 150 - x + 350 - (2 \cdot x + 150 - x) = 250$$

$$x = 100 \text{ мл}$$



$$V = \frac{0,1}{2,2} = 0,0045 \text{ моль } C_2N_2$$

$$m(B_2) = 160 \cdot 0,0045 \cdot 2 = 1,44 \text{ г}$$

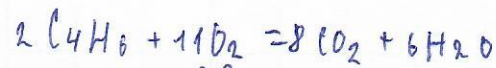
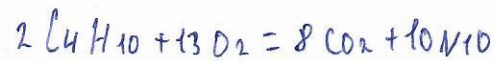


$$V = \frac{0,05}{22,4} = 0,00223 \text{ моль } C_2H_4$$

$$m(B_2) = 160 \cdot 0,00223 = 0,358 \text{ г}$$

$$B_2 = \frac{1,44 \cdot 0,358}{0,03} = 17,12 \text{ г}$$

N5



$$V(H_2O) = \frac{88}{44} = 2 \text{ моль}$$

$$V(H_2O) = \frac{36}{18} = 2 \text{ моль}$$

$$x + y = 2$$

$$1,25x + 1,875y = 2,5$$

$$1,25x + 0,9375y = 1,25$$

$$0,9375y = 0,8$$

$$y = 1,6 \text{ моль}$$

$$x = 0,4 \text{ моль}$$

$$V(C_4H_{10}) = \frac{x}{2} = 0,2 \text{ моль}$$

$$V(C_4H_6) = \frac{y}{2} = 0,8 \text{ моль}$$