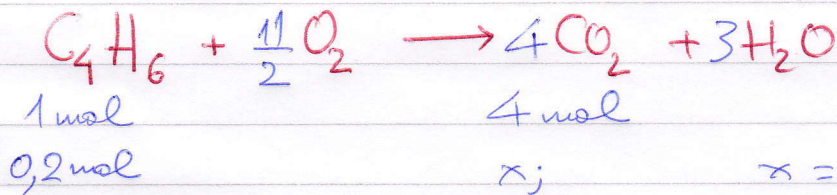


3η ΕΡΓΑΣΙΑ ΧΗΜΙΚΑ Β' ΛΥΚΕΙΟΥ

A: 1-βουτίνιο $\text{CH}\equiv\text{C}-\text{CH}_2-\text{CH}_3$ ($M_r = 4 \cdot 12 + 6 = 54$)

B: $\text{C}_v\text{H}_{2v+2}$ $M_r = 58$

$$\alpha) n_A = \frac{m_A}{M_r} = \frac{10,8}{54} = 0,2 \text{ mol}$$



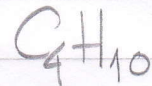
$$x = 0,8 \text{ mol CO}_2$$

$$\text{δλ. μ} = 0,8 \cdot 44 = \boxed{35,2 \text{ g}}$$

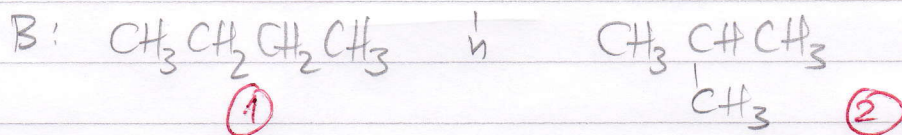
β) $M_r = 58$ δλ. δλ. $14v + 2 = 58$

$$14v = 56$$

$$\boxed{v = 4}$$



Υδροκάν 160 γφν



$$\begin{array}{ccc} 1 \text{ mol B} & \frac{13}{2} \text{ mol O}_2 & \\ 0,2 \text{ mol B} & y; & \end{array}$$

$$y = 1,3 \text{ mol O}_2 \longrightarrow V_{\text{O}_2} = n \cdot 22,4 \text{ L}$$

$$V_{\text{O}_2} = 29,12 \text{ L}$$

Στα 100 L αέρα περιέχονται 20 L O_2

$$y; \quad 29,12 \text{ L O}_2$$

$$\boxed{y = 145,6 \text{ L αέρα}}$$