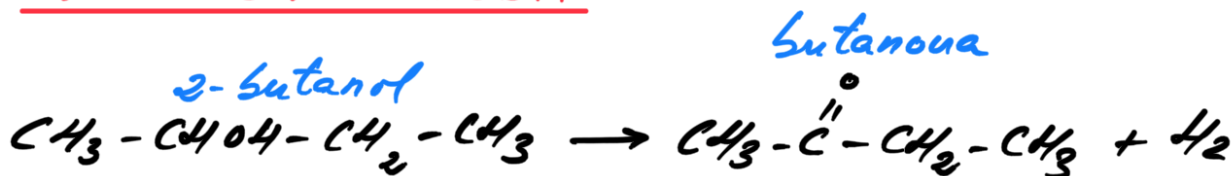


EJERCICIO FQ1BE2614:



a) ¿g butanona?

$\left\{ \begin{array}{l} 0,3 \text{ dm}^3 \text{ de uua} \\ \text{disolució de butanol} \\ 0,85 \text{ g/ml}; 76\% \text{ uua} \end{array} \right.$

$$0,3 \text{ dm}^3 = 300 \text{ ml deu} \frac{0,85 \text{ g deu}}{1 \text{ ml deu}} \frac{76 \text{ g butanol}}{100 \text{ g deu}} = 193,8 \text{ g butanol}$$

$$193,8 \text{ g butanol} \frac{72 \text{ g cetona}}{74 \text{ g butanol}} = 188,56 \text{ g cetona}$$

b) ¿V H₂? ⇒ 300°C; 1560 mmHg

$$193,8 \text{ g butanol} \frac{2 \text{ g H}_2}{74 \text{ g butanol}} = 5,24 \text{ g H}_2$$

$$P \cdot V = n R T \Rightarrow P \cdot V = \frac{m_{\text{H}_2}}{M_{\text{H}_2}} \cdot R \cdot T$$

$$\frac{1560}{760} \cdot V = \frac{5,24}{2} \cdot 0,082 \cdot (273 + 300)$$

$$V = 59,97 \text{ litres H}_2$$