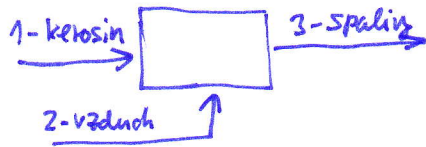


U2-14 ^{III}



| W _i | ① | ② | ③ |
|-------------------------------------|---|-------|-----------------|
| A - C ₁₀ H ₂₂ | 1 | - | - |
| B - O ₂ | - | 0.233 | x _{B3} |
| C - CO ₂ | - | - | x _{C3} |
| D - H ₂ O | - | - | x _{D3} |
| E - N ₂ | - | 0.767 | x _{E3} |

$$M_A = 10 \cdot 12 + 22 = 142 \text{ g/mol}$$

$$M_B = 32 \text{ g/mol}$$

$$m_1 = 1 \text{ kg} \quad m_2 = 24 \text{ kg} \quad m_3$$

$$1 \cdot \int_{\text{teor}} \cdot M_A = 1 \text{ kg} \quad (\text{kerosin})$$

$$\frac{31}{2} \int_{\text{teor}} M_B = \cancel{24} \cdot 0.233 \cdot m_{2,\text{teor}} \quad (\text{vzduch})$$

$$m_{2,\text{teor}} = \frac{1}{0.233} \cdot \frac{31/2 \cdot M_B}{1 \cdot M_A} \cdot 1 \text{ kg} = 14.99 \text{ kg}$$

$$\frac{\text{kg-vzduch}}{\text{kg-O}_2} \cdot \frac{\text{mol-O}_2 / \text{mol-R-O}}{\text{mol-K} / \text{mol-R-O}} \cdot \frac{\text{kg-O}_2}{\text{mol-O}_2} \cdot \frac{\text{mol-K}}{\text{kg-K}} \cdot \text{kg-K}$$

$$P = \frac{m_2 - m_{2,\text{teor}}}{m_{2,\text{teor}}} = \frac{24 - 14.99}{14.99} = 60.09\%$$

$$P = \frac{0.233 \cdot m_2 - m_{t,O_2}}{m_{t,O_2}}$$