

Subiectul B. ELEMENTE DE TERMODINAMICĂ

| | |
|--------------|---|
| II.a. | $\rho = \frac{m}{V}$ $p_1 V = \frac{m}{\mu} RT$ $\rho = \frac{p_1 \mu}{RT}$ Rezultat final: $\rho = 0,96 \text{ kg/m}^3$ |
| b. | $p_1 V = \frac{m_1}{\mu} RT$ $m_2 = m_1 - \Delta m$ $\Delta m = 30\% \cdot m_1$ Rezultat final: $m_2 \cong 16,1\text{g}$ |
| c. | $\frac{\Delta m}{\mu} = \frac{\Delta N}{N_A}$ $\Delta N = N_A \frac{\Delta m}{\mu}$ Rezultat final: $\Delta N = 20,8 \cdot 10^{23}$ |
| d. | $p_2 V = \frac{m_2}{\mu} RT$ $p_2 = \frac{m_2 RT}{\mu V}$ Rezultat final: $p_2 = 8,36 \cdot 10^5 \text{ Pa}$ |