

Subiectul B. ELEMENTE DE TERMODINAMICĂ

II.a.	$m = \frac{\rho V \mu}{RT}$ <p>Rezultat final: $m \approx 2,33 \text{ kg}$</p>
b.	$\rho V = \frac{m}{\mu} RT$ $\rho = \frac{p \mu}{RT}$ <p>Rezultat final: $\rho = 1,16 \text{ kg/m}^3$</p>
c.	$\rho V = \frac{N}{N_A} RT$ $N = \frac{\rho V}{RT} N_A$ <p>Rezultat final: $N \approx 4,8 \cdot 10^{22}$</p>
d.	$\mu_{am} = \frac{m_{am}}{v_{am}} = \frac{m + m_2}{v + v_2}$ $\mu_{am} = \frac{v \mu + v_2 \mu_2}{v + v_2}$ $\mu_{am} = \frac{\frac{N}{N_A} \mu + \frac{N_2}{N_A} \mu_2}{\frac{N}{N_A} + \frac{N_2}{N_A}}$ $\mu_{am} = \frac{N \mu + N_2 \mu_2}{N + N_2}$ <p>Rezultat final: $\mu_{am} \approx 30,7 \cdot 10^{-3} \text{ kg/mol}$</p>
