

Subiectul B. ELEMENTE DE TERMODINAMICĂ

ii. a.	$\rho_1 V = \frac{m_1}{\mu} RT$ $\rho_1 = \frac{m_1}{V}$ Rezultat final: $\rho_1 \cong 1,8 \text{ kg/m}^3$
b.	$N = \frac{\Delta m}{\mu} N_A$ Rezultat final: $N \cong 430 \cdot 10^{20}$ molecule
c.	$\rho_1 V = \frac{m_2 + \Delta m}{\mu} RT$ $\rho_2 V = \frac{m_2}{\mu} RT$ $\frac{\rho_1}{\rho_2} = 1 + \frac{\Delta m}{m_2}$ Rezultat final: $m_2 = 8 \text{ g}$
d.	$V = \frac{m_2 + \Delta m}{\rho_1}$ Rezultat final: $V \cong 5,55 \text{ l}$