## Subjectul B.ELEMENTE DE TERMODINAMICA

II. a. $m_{01} = \frac{\mu_{N_2}}{N_A}$ $m_0 = \frac{\mu_{O_2}}{2N_A}$ $\mu_{O_3} = 3m_O \cdot N_A$ Rezultat final: $m_{01} = 5, 3 \cdot 10^{-26} \text{ kg}$ ; $\mu_{03} = 48 \cdot 10^{-3} \frac{\text{kg}}{\text{mol}}$ b. $\frac{1}{\mu} = \frac{\nu}{m} = \frac{m_1 : \mu_1 + m_2 : \mu_2 + m_3 : \mu_3}{m}$
$m_{\rm O} = \frac{\mu_{\rm O_2}}{2N_A}$ $\mu_{\rm O_3} = 3m_{\rm O} \cdot N_A$ Rezultat final: $m_{\rm O1} = 5, 3 \cdot 10^{-26} \text{ kg}$ ; $\mu_{\rm O3} = 48 \cdot 10^{-3} \frac{\text{kg}}{\text{mol}}$
$\mu_{O_3} = 3m_O \cdot N_A$ Rezultat final: $m_{01} = 5, 3 \cdot 10^{-26} \text{ kg}$ ; $\mu_{03} = 48 \cdot 10^{-3} \frac{\text{kg}}{\text{mol}}$
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<b>b.</b>
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$\frac{1}{u} = \frac{v}{m} = \frac{m_1 \cdot \mu_1 \cdot m_2 \cdot \mu_2 \cdot m_3 \cdot \mu_3}{m}$
I u m m
Rezultat final: $\mu = 29,36 \cdot 10^{-3} \frac{\text{kg}}{\text{kg}}$
, , mol
C.
$\rho = \frac{m}{\mu} = \mu \rho$
$\rho = \frac{m}{V} = \frac{\mu \rho}{RT}$
Dozultot finali, s. 4.2 kg
Rezultat final: $\rho = 1,2 \frac{kg}{m^3}$
d.
$\frac{1}{\mu'} = \frac{\nu'}{m} = \frac{m_1 : \mu_1 + (m_2 + m_3) : \mu_2}{m}$
$\mu = 29,09 \cdot 10^{-3} \frac{\text{kg}}{\text{mol}}$
Rezultat final: scade cu $\Delta \mu = 0.27 \cdot 10^{-3} \frac{\text{kg}}{\text{mol}}$
mol