

Problema0252: Calcula o número de moles que ocupan 5L dun gas a 20°C e 780 mm Hg.

$$P \cdot V = n \cdot R \cdot T$$

$$n = \frac{P \cdot V}{R \cdot T} = \frac{\frac{780 \text{ mm Hg}}{760 \text{ mm Hg / atm}} \cdot 5 \text{ L}}{0,082 \frac{\text{atm} \cdot \text{L}}{\text{mol} \cdot \text{K}} \cdot 293 \text{ K}} = 0,214 \text{ mol}$$