

Jan 28-8:32 AM





Ideal Gas Law Practice
What is the mass of helium in a 2.75 L container
at 56 C and 1.5 atm? (show all your work)

$$PV = nRT$$
 R = constant (0.0821 L*atm/K*mol)
 $P=1.5atm$ $1.5 \cdot 2.75 = n \cdot 0.08\lambda (\cdot 3.29)$
 $V=2.75L$ $4.125 = n \cdot 27.009$
 $n = ? mol \rightarrow gHc$ $n = 0.153 mol He$
 $R=0.082L L.ntm$
 $T=56^{\circ}C + 273 = 329K$
 $0,153 mol He x - \frac{4}{1} = \frac{9}{1} He}$ = .611gHe

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