Answer on Question #63060 - Chemistry - General Chemistry

Question

You have a 44 L gas tank that contains a mixture of gases. The pressure exerted on the tank is 1.4 atmospheres. If 24% of the molecules are oxygen, what is the partial pressure of oxygen?

Solution:

 $p(O_2)=P_{total}*x(O_2)$ where $x(O_2)$ – mole fraction of O_2

 $p(O_2)=P_{total}*x(O_2)=1.4*0.24=0.336$ (atm)

Answer: partial pressure of oxygen 0.336 atm.

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