Samples   Avogadro's Law

1. Suppose we have a 11.2 L sample containing 8.80 mol oxygen gas at a pressure of 1.5 atm. If all of this oxygen were converted to ozone (O_3) at the same T and P, what would be the volume?

2. Suppose we have a 19.2 L sample containing 2.90 mol oxygen gas at a pressure of 1 atm. If all of this oxygen were converted to ozone (O_3) at the same T and P, what would be the volume?

3. Suppose we have a 6.1 L sample containing 9.50 mol oxygen gas at a pressure of 1 atm. If all of this oxygen were converted to ozone (O_3) at the same T and P, what would be the volume?