

2.0mole of gas occupy an adjustable container with a volume of 45L at a particular temperature pressure. if 0.5 mole of gas leak out what volume will occupy if tp do no change?

Solution:

If temperature and pressure are constant in both experience, interdependence without quantity of moles and volume will be such as description:

2.0 mole - 45 L

1.5 mole - x L

Like that $x = \frac{1.5 \cdot 45}{2} = 33.75L$

Answer: $V_2=33.75 L$.