

Independent Practice

5. At STP, what is the volume of 7.08mol of nitrogen gas?



6. At STP, a sample of neon gas occupies 550.cm³. How many moles of neon gas does this represent?

1cm=Iml

7. What is the mass of $1.33 \times 10^4 \text{mL}$ of oxygen gas at STP?

8. At STP, 3.00L of chlorine is produced during a chemical reaction. What is the mass of this gas?

9. Suppose you need 4.22g of chlorine gas, Cl₂. What volume at STP would you need to use?