

Name:
Period:

Date:
Worksheet: Molar Volume/Molar Mass #1

1. How many moles of Neon atoms are contained in 78.4 L of Neon at STP?
2. What is the volume of 0.8 moles of Chlorine gas at STP?
3. How many molecules are contained in 16.8 L of Xe at STP?
4. How many moles of molecules are contained in 39 L of F₂ gas at STP?
5. How many molecules are contained in 134.5 L of O₂ at STP?
6. How many molecules of Cl₂ gas are in 23.7 g of Cl₂ gas at STP?
7. How many moles of molecules are contained in 168 L of CO₂ at STP?
8. What is the mass of 40.34×10^{23} H₂ molecules at STP?
9. What is the mass of 99.0 L of NO₂ at STP?
10. How many molecules are contained in 5.6 L of H₂ at STP?
11. What is the volume of 6.5 moles of Helium at STP?
12. What is the volume of 5.0 moles of O₂ at STP?
13. What is the mass of 7.9×10^{23} molecules of O₂ at STP?
14. What is the volume of 43.7 g of Helium at STP?
15. What is the mass of 122.4 L of Neon at STP?
16. How many molecules are in 10.0 g of O₂ gas at STP?
17. How many moles of molecules are in a mass of 26.8 g of Xe at STP?
18. What is the volume of 12.0 g of Cl₂ gas at STP?
19. What is the volume of 0.9 g of O₂ at STP?
20. What is the volume of 0.5 moles of N₂ at STP?