

Even More Moles

1. Determine the number of liters at STP that are in 0.688 mol of AgNO_3 .
2. How many moles of ethane (C_2H_6) contain 8.46 grams?
3. Determine the number of grams that are in 1.48 mol of NaF .
4. How many moles are in 3.5g of NaOH ?
5. If you burned 6.10 liters of ethane (C_2H_6) at STP, what mass of ethane did you burn?
6. How many moles are in 5.1g of TiO_2 ?
7. What is the mass of 3.62 moles of methanol (CH_3OH)?
8. How many moles are in 1.4g of PbCl_2 ?
9. Determine the mass of 294 moles of decane ($\text{C}_{10}\text{H}_{22}$).
10. How many moles are in 5.6g of H_2S ?
11. A container with a volume of 893L contains how many moles of air at STP?
12. A chemical reaction produces 0.37 mol of N_2 gas. What volume will that gas occupy at STP?
13. A canister with a volume of 694L contains how many moles of oxygen at STP?

14. A chemical reaction produces 13.8 mol of CO gas. What volume will that gas occupy at STP?
15. A tube with a volume of 3.68 L contains how many moles of neon gas at STP?
16. A chemical reaction produces 0.884 mol of H₂S gas. What volume will that gas occupy at STP?
17. A container with a volume of 101L contains how many moles of argon gas at STP?
18. A chemical reaction produces 138 mol of HBr gas. What volume will that gas occupy at STP?