

Molar Conversions Worksheet

1. How many moles does 80.0 grams of H_2O represent?
2. How many moles does 22.0 grams of CO_2 represent?
3. What is the mass of 5.0 moles of $\text{Ba}(\text{CN})_2$?
4. What is the mass of 3.5 moles of water?
5. How many molecules are in 0.25 moles of CH_4 ?
6. How many sodium ions are in 3.0 moles of NaCl ?
7. Convert 3.01×10^{23} molecules of C_2H_6 to moles.
8. How many moles of glucose does 1.2×10^{24} molecules represent?
9. What would be the mass of 1.20×10^{24} molecules of water?
10. How much mass does 1.51×10^{22} atoms of neon represent?
11. How many molecules does 36.0 grams of water represent?
12. How many atoms does 3.0 grams of carbon represent?
13. What would be the volume of 0.25 moles of chlorine gas at STP?
14. What would be the volume of 6.25 moles of helium gas at STP?
15. How many moles does 44.8 L of Hydrogen gas at STP represent?
16. A sample of Oxygen gas occupies 6.2 L at STP. How many moles does that represent?