The Mole Concept

Independent Practice

4. What is the mass in grams of 2.50mol of oxygen gas, O_2 ?

80. Dg

5. How many molecules are there in 90.078g of $C_6H_{12}O_6$?

3.0100 ×10 mlc C6 H1200

6. How many molecules are there in 396.42g of ammonium sulfate, $(NH_4)_2(SO_4)$?

1.8060X10 FV (NH4) 2504

7. What is the mass in grams of 3.01×10^{24} molecules of diphosphorus pentoxide?

10. g P205

8. How many moles of $Ca(OH)_2$ in $2.107x10^{24}$ formula units of $Ca(OH)_2$?

3.500 mol Cal Ottz

9. How many **chloride ions** in 380.844g of MgCl₂? (hint: how many chloride ions are in 1 molecule of chloride?)

U.816 XID a Cl