Calculating the Mass of Compounds

Molecular Compounds

- Atoms linked together in discrete, electrically neutral particles
 - O₂, CO₂
- The mass of molecular compounds is called **molecular mass**

Ionic Compounds

- Composed of ions

 HCl, CuSO₄
- The mass of ionic compounds is called formula mass

Calculating

• The relative molecular mass or relative formula mass of a compound is the sum of the relative atomic masses of the atoms in a chemical formula

Example

• C₉H₈O₄

mass = 9C + 8H + 4O= 9(12.01) + 8(1.01) + 4(16.00)= 180