Chemical Quantities

mole : a representative unit to measure number of atoms or molecules.

6.022×10^{23} atom = 1 mole

Molar mass - grams/moles

Atomic mass = Molar Mass

Na - 22.99 g/mol

H - 1.0079 g/mol

As - 74.92 g/mol

Formula molar mass

$NaCl$

$Na - 22.99 \times 1 = 22.99$

$Cl - 35.45 \times 1 = +35.45$

$58.44\ g/mol$

Iron (III) Sulfate

Fe^{3+} SO_4^{2-}

$Fe_2(SO_4)_3$

Fe - 55.85 x 2 = 111.7

S - 32.07 x 3 = 96.21

O - 16.00 x 12 = +192.0

399.91 g/mol

Sucrose $C_{12}H_{24}O_{12}$

C - 12.01 x 12 = 144.12

H - 1.0079 x 24 = 24.1896

O - 16.00 x 12 = 192.00

360.3 g/mol

$CaCO_3$

$RbNO_3$

$Co_3(PO_4)_2$

Os_3As_5