

What is molar mass and when do we use it?

Molar mass is the mass of one mole of a substance ( $6.02 \times 10^{23}$  particles of that substance).

The molar mass of an element can be found on the periodic table.

mass of 1 mole of carbon = 12.01 grams

molar mass of aluminum = 26.98 grams

To find the molar mass of a compound, add up the molar masses of the elements in the compound.

molar mass of  $H_2O$  =

$$H: (1.01g)2 = 2.02g$$

$$O: (16.00g)1 = +16.00g$$

$$\boxed{18.02g}$$

molar mass of  $Be(NO_3)_2$  =

$$Be: 9.01g = 9.01g$$

$$N: (14.01g)2 = 28.02g$$

$$O: (16.00g)6 = +96.00g$$

$$\underline{133.03g}$$