

Amount of matter in a sample: main idea

How many mol, molecules and atoms are in a sample?:
The first step towards the solution:

we need

relationship between:
• mass
• amount of matter

can be given as

molecular mass (m)

molar mass (Mm)

is

is

u

same value

grams

... $\frac{\text{molecule / atom}}{\text{molecule / atom}}$

... $\frac{\text{mol}}{\text{mol}}$