MOLE IN CHEMIST



What is a mole? Mole Day!

23rd October

 6.022×10^{23}

>6.02am-6.02pm

 $=6.022\times10^{23}$

LORENZO R.A.C AVOGADRO (1776 - 1856)ITALIAN SCIENTIST



1 MOLE CARBON = 6.022×10²³ CARBON ATOMS

One mole is the

amount of a

substance

that contains exactly

 6.022×10^{23} atoms,

molecules, ions. This

number is known as

AVOGADRO NUMBER



How we calculate mole?

We use gm, kg etc. to measure things in our daily life. But chemistry deals with "microscopic particles" like atoms and molecules, and to measure them we use 'mole' as a unit.

Why we use moles?



Mole no.=

Mass of the given sample

Molar mass of the sample

WHAT IS MOLAR MASS?

LET'S DISCUSS SOME IMPORTANT FACTORSI

No.of moles of solute Molarity = Vol of solution (in L)

No.of moles of solute Molality = Mass of solvent (in kg)

No. of gram equivalent of solute Normality = Vol of solution (in L)

Mole symbol → mol

Mass of one mole substance in grams

1 mole = Molar mass

1 mole= 22.4 litres of ideal gas at NTP

LET'S SEE IT WITH A DIAGRAM!







