



## Mole Day

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Mole Day is an **unofficial holiday celebrated** among chemists, chemistry students and chemistry enthusiasts on **October 23, between 6:02 AM and 6:02 PM, making the date 6:02 10/23 in the US date format.**

- The time and date are derived from **Avogadro's number**, which is approximately  $6.02 \times 10^{23}$ , defining the number of particles (atoms or molecules) in one mole of substance, one of the seven base SI units.
- The day was created to foster interest in chemistry.

### Avogadro's Number

- The number of particles (atoms, molecules or ions) present in **1 mole of any substance is fixed, with a value of  $6.022 \times 10^{23}$ .**
- This is an experimentally obtained value. This number is called the Avogadro Constant or **Avogadro Number (represented by  $N_0$ )**, named in honour of the **Italian scientist Amedeo Avogadro.**
- **1 mole (of anything) =  $6.022 \times 10^{23}$  in number, as, 1 dozen = 12 nos.**
- The Avogadro constant  $6.022 \times 10^{23}$  is defined as the number of atoms in exactly **12 g of carbon-12.**