

Question

The numerical value of the mole is defined as being equal to the number of atoms in exactly 12 grams of pure carbon-12. True or False?

Answer

True

Mole is defined as the amount of any substance that contains as many elementary entities (e.g., atoms, molecules, ions, electrons) as there are atoms in 12 grams of pure carbon-12 (^{12}C), the isotope of carbon with relative atomic mass 12.