

THE MOLE AND AVOGADRO'S NUMBER

Name KEY

One mole of a substance contains Avogadro's Number (6.02×10^{23}) of molecules.

How many molecules are in the quantities below?

1. 2.0 moles	$\frac{2.0 \cancel{\text{mole}}}{1 \cancel{\text{mole}}}$	$\frac{6.02 \times 10^{23} \text{ molecules}}{1 \cancel{\text{mole}}} = \boxed{1.20 \times 10^{24} \text{ molecules}}$
2. 1.5 moles	$\frac{1.5 \cancel{\text{mole}}}{1 \cancel{\text{mole}}}$	$\frac{6.02 \times 10^{23} \text{ molecules}}{1 \cancel{\text{mole}}} = \boxed{9.03 \times 10^{23} \text{ molecules}}$
3. 0.75 mole	$\frac{0.75 \cancel{\text{mole}}}{1 \cancel{\text{mole}}}$	$\frac{6.02 \times 10^{23} \text{ molecules}}{1 \cancel{\text{mole}}} = \boxed{4.52 \times 10^{23} \text{ molecules}}$
4. 15 moles	$\frac{15 \cancel{\text{mole}}}{1 \cancel{\text{mole}}}$	$\frac{6.02 \times 10^{23} \text{ molecules}}{1 \cancel{\text{mole}}} = \boxed{9.03 \times 10^{24} \text{ molecules}}$
5. 0.35 mole	$\frac{0.35 \cancel{\text{mole}}}{1 \cancel{\text{mole}}}$	$\frac{6.02 \times 10^{23} \text{ molecules}}{1 \cancel{\text{mole}}} = \boxed{2.11 \times 10^{23} \text{ molecules}}$

How many moles are in the number of molecules below?

1. 6.02×10^{23}	$\boxed{1 \text{ mole}}$ (By definition!)
2. 1.204×10^{24}	$\frac{1.204 \times 10^{24} \text{ molecules}}{6.02 \times 10^{23} \text{ molecules}} = \boxed{2.00 \text{ moles}}$
3. 1.5×10^{20}	$\frac{1.5 \times 10^{20} \cancel{\text{mole}}}{6.02 \times 10^{23} \cancel{\text{molecules}}} = \boxed{2.49 \times 10^{-4} \text{ mole}}$
4. 3.4×10^{26}	$\frac{3.4 \times 10^{26} \cancel{\text{mole}}}{6.02 \times 10^{23} \cancel{\text{molecules}}} = \boxed{565 \text{ moles}}$
5. 7.5×10^{19}	$\frac{7.5 \times 10^{19} \cancel{\text{mole}}}{6.02 \times 10^{23} \cancel{\text{molecules}}} = \boxed{1.24 \times 10^{-4} \text{ moles}}$

Mole And Avogadros Number Answer Key

AW Rasmussen



Mole And Avogadros Number Answer Key:

Unveiling the Power of Verbal Beauty: An Psychological Sojourn through **Mole And Avogadros Number Answer Key**

In some sort of inundated with monitors and the cacophony of quick communication, the profound power and mental resonance of verbal beauty frequently diminish into obscurity, eclipsed by the regular assault of sound and distractions. Yet, situated within the lyrical pages of **Mole And Avogadros Number Answer Key**, a captivating work of fictional splendor that pulses with organic feelings, lies an unforgettable trip waiting to be embarked upon. Published by a virtuoso wordsmith, that mesmerizing opus courses visitors on a psychological odyssey, gently revealing the latent possible and profound impact stuck within the complex internet of language. Within the heart-wrenching expanse with this evocative analysis, we can embark upon an introspective exploration of the book is central themes, dissect its interesting writing model, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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