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Atoms, molecules and compounds

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Atoms, Molecules and Compounds**1. Three subatomic particles of the atom**

-neutrons

-protons

-electrons

2. Their charge

-Neutrons- are atoms with no electric charge

-Protons- positively charged atoms (+)

-Electrons- atoms with negative charge (-)

3. Difference between an atom and a molecule

-Atoms are not stable alone whereas molecules are stable alone.

-chemical reactions cannot separate atoms into subatomic particles whereas molecules can be separated into atoms.

-atoms are basic units of molecules whereas molecules have equal number of both negative and positive charge.

-atoms have no bonding whereas the molecules have intra and inter molecular forces.

4. How the molecule differs from the compound

When two or more atoms of the same element bind together chemically they form a molecule whereas a compound is said to be a molecule that contains at least two or more different elements.

5. Provide an example of an atom, a molecule, and a compound.

-Atom- Oxygen atom (O)

-Molecule- oxygen gas (O₂)

- Compound- water (H₂O)

References

- Diercks, C. S., & Yaghi, O. M. (2017). The atom, the molecule, and the covalent organic framework. *Science*, 355(6328), eaal1585.
- Gross, L., Schuler, B., Pavlíček, N., Fatayer, S., Majzik, Z., Moll, N., ... & Meyer, G. (2018). Atomic force microscopy for molecular structure elucidation. *Angewandte Chemie International Edition*, 57(15), 3888-3908.

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