TETRAVALENT

Meaning: Tetravalent refers to an atom, particularly carbon, that has the capacity to form four covalent bonds with other atoms.

1. A tetravalent atom can form four covalent bonds with other atoms.
2. In organic chemistry, carbon is often described as tetravalent due to its ability to bond with four different elements.
3. The tetravalent nature of silicon makes it a crucial component in semiconductors.
4. In the context of coordination chemistry, tetravalent metal ions can coordinate with multiple ligands.
5. Tetravalent vaccines aim to protect against four different strains of a virus.

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