

QUADRIVALENCE

Meaning: Quadrivalence is the property of an atom to form four chemical bonds or the introduction of a fourth truth value in logic, increasing the complexity of truth evaluations.

1. The concept of quadrivalence in chemistry refers to an atom's ability to form four bonds.
2. In logic, quadrivalence introduces a fourth truth value, enhancing the complexity of propositional analysis.
3. The quadrivalence of carbon is a fundamental principle that allows for the vast diversity of organic compounds.
4. Researchers explored the implications of quadrivalence in the development of new materials with unique properties.
5. Understanding quadrivalence can lead to breakthroughs in both theoretical frameworks and practical applications in science.

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