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Quantum mechanics has a number of consequences that are important for our understanding of organic chemistry. Which one of the following statements about nitromethane is incorrect?

- (A) The locations of the electrons of an atom are described by atomic orbitals.
- (B) A given orbital can contain only 2 electrons.
- (C) Each orbital has an associated energy and the electrons will occupy the highest energy orbitals first
- (D) Atomic orbitals on different atoms will combine to give molecular orbitals.
- (E) An atomic orbital on one atom can interact with an atomic orbital on another atom only if their symmetries match.

VIDEO SOLUTION



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