

BIDENTATE

Meaning: BIDENTATE refers to a type of ligand that has two binding sites, allowing it to attach to a metal ion at two points simultaneously, thereby forming stable complexes.

1. The bidentate ligand formed strong bonds with the metal ion in the complex.
2. In coordination chemistry, bidentate ligands can significantly enhance the stability of metal complexes.
3. Bidentate chelation often leads to more stable structures compared to monodentate binding.
4. The scientist carefully selected a bidentate molecule to facilitate the reaction.
5. When two functional groups act as bidentate ligands, they can create a unique spatial arrangement.
6. Understanding the properties of bidentate compounds is crucial for designing effective catalysts.
7. The bidentate nature of the ligand allowed it to wrap around the central atom securely.
8. In organic chemistry, bidentate interactions are often key to determining the reactivity of a compound.
9. The researchers noted that the bidentate configuration increased the solubility of the complex in water.
10. Bidentate ligands are commonly found in various biological systems, particularly in metalloenzymes.

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