

MULTIDENTATE

Meaning: Multidentate refers to a ligand that has multiple binding sites to attach to a metal ion, enhancing the stability and efficiency of coordination complexes.

1. Multidentate ligands are crucial in coordinating metal ions for various chemical reactions.
2. The efficiency of a complex can significantly increase when employing a multidentate approach.
3. In inorganic chemistry, understanding the behavior of multidentate molecules can lead to the development of novel catalysts.
4. Researchers are exploring multidentate structures to improve drug delivery systems in biomedical applications.
5. The stability of metal complexes often depends on the presence of multidentate ligands that form several bonds with the metal center.

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