Coordination modes of histidine- or methioninehydroxamic acids in copper(II) mixed-ligand complexes with ethylenediamine in aqueous solution.

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Streszczenie

The stability constants and coordination modes of the mixed-ligand complexes formed by copper(II) ion and ethylenediamine as a primary ligand and methioninehydroxamic acid (Metha) or histidinehydroxamic acid (Hisha) as a secondary ligand L were determined by potentiometric titration, UV–Vis and EPR spectroscopy. The obtained results suggest the formation of mixed-ligand species in basic solution with 4N coordination – both amine and hydroxamic nitrogens of Metha or Hisha (NH_2, N_{ha}) and two amine nitrogens of en (2 × NH_2) in the equatorial plane.

Słowa kluczowe

Copper(II) complexes, Mixed-ligand complexes, Aminohydroxamic acids, EPR, Vis spectroscopy, Potentiometry, Equilibria, Stability constants

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