



Copper(II) complexes of 2,3-dihydroxybenzoic acid.

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Streszczenie

The interaction of copper(II) with 2,3-dihydroxybenzoic acid (2,3-DHB) in aqueous solution has been investigated by means of potentiometric and spectroscopic (EPR and electronic absorption) measurements. The complex formation equilibria in the Cu(II)-2,3-DHB system are distinctly different from those already observed with analogous ligands such as 3,4-DHB and 2,x-DHB ($x = 4, 5$ and 6) which form catechol- and salicylic-like complexes, respectively. The position of the three binding sites allows 2,3-DHB to exhibit both the salicylic and catechol coordination types. Besides monomeric species, oligonuclear complexes are formed in which the carboxylate groups are responsible for the metal bridging.

Słowa kluczowe

Copper(II), molecule, 3-dihydroxybenzoic acid, stability constants, oligomers

Adres publiczny

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