

Complexes of 3,4-dihydroxyphenyl derivatives-X. Copper(II) complexes of chlorogenic acid and related compounds.

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The interactions of copper(II) with chlorogenic acid [1,3,4,5-tetrahydroxycyclohexanecarboxylic acid 3-(3,4-dihydroxycinnamate)] and related compounds such as 3,4-dihydroxyphenylacetic acid (3,4-DHPA), 3,4-dihydroxyphenylpropionic acid (3,4-DHPP) and *trans*-3-(3,4-dihydroxyphenyl)propenoic acid (caffeic acid) in aqueous solution have been investigated by pH-metric and spectroscopic (ESR and electronic absorption) methods. It has been found that these ligands exhibit a real ambidentate character, i.e. in addition to the chelation via the catecholate sites, the separated carboxylate can also coordinate to the copper(II) ion. The simultaneous coordination of both types of binding sites leads to the formation of various oligomeric species.

Adres publiczny

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