

Coordination abilities of amino-phosphonate derivatives of pyridine.

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Potentiometric and spectroscopic methods were used to evaluate the binding ability of the series of amino-phosphonates containing pyridine as a side-chain. The involvement of pyridine nitrogen in the Cu(II) binding results in very effective chelation of the metal ion. The binding ability of some pyridine-containing ligands is comparable to powerful imidazole amino-phosphonates. Amino-phosphonic derivatives of pyridine are very effective ligands for Cu(II) ions. The pyridine nitrogen being a rather acidic donor, binds effectively when the formation of a chelating ring is possible. The most stable are the CuL₂ complexes in which coordination occurs via four nitrogen donors.

Słowa kluczowe

Amino-phosphonates, Pyridine, Coordination

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