



Aminomethylphosphonate ligands containing imidazole side chain are powerful ligands for Cu(II) and Ni(II) ions.

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Potentiometric and spectroscopic data have shown that insertion of imidazole into the aminophosphonate moiety results in very powerful ligand for Cu(II) and Ni(II) ions. The phosphonic function is a basic donor system below pH 6, while above this pH each ligand serves two very powerful nitrogen donors derived from the amino and imidazole moieties. The (amino)(1H-imidazol-4-yl)methyl phosphonic acid is a powerful chelating agent for Cu(II) and Ni(II) ions. The high stabilities of the metal complexes result from the presence of two effective nitrogen donors that of amino group and other one of imidazole moiety.

Słowa kluczowe

Aminomethylphosphonate ligands, Imidazole, Cu(II) and Ni(II) ions

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