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Complexes of aminophosphonates. Part 7. Copper(II) complexes of some aliphatic, alicyclic and aromatic aminophosphonous and aminophosphinic acids.

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pH-Metric and spectroscopic (visible and ESR) studies were made of the proton and copper(II) complexes of various bidentate aliphatic, alicyclic and aromatic aminophosphonous and amino-phosphinic acids, and of the α- and β-phosphinic acid derivatives of aspartic acid, at 25 °C and at an ionic strength of 0.20 mol dm^{-3}(KCl). It was found that the metal-binding abilities of these bidentate ligands are weaker than those of their aminocarboxylate analogues, which is due mainly to the differences in basicity of the PO_2R^- and the CO_2^- groups. The potentially terdentate aspartic acid derivatives are co-ordinated mainly *via* their aminocarboxylate moieties and the participation of the phosphinate group in the co-ordination is significant only for the α-phosphinic acid derivative. The metal-binding abilities of amino-phosphonates, -phosphinates and -carboxylates are compared.

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