

## 1-hydroxyalkane-1,1-diyldiphosphonates as potent chelating agents for metal ions. Potentiometric and spectroscopic studies of copper(II) coordination.

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### Streszczenie

Potentiometric and spectroscopic (EPR and absorption) studies have shown that two phosphonic groups bound to the same carbon atom serve as a very powerful binding site for  $\text{Cu}^{2+}$  ion in spite of the very high negative charge centred on these groups. The steric effects as well as a high negative charge enforce unusual geometries around the metal ion and the formation of 1:2 complexes is less favourable. These features of the diphosphonic moiety mean that alkoxo-bridged dimer formation *via* the adjacent hydroxyl groups is less likely.

### Adres publiczny

<https://doi.org/10.1039/DT9960001119>

### Strona internetowa wydawcy

<https://www.rsc.org/>