Proton electron nuclear double resonance study of oxovanadium(IV) complexes of D-galacturonic and polygalacturonic acids.

Autorzy

M. Branca

Giovanni Micera

A. Dessi

Henryk Kozłowski

Rok wydania

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Streszczenie

The ^{1}H electron nuclear double resonance (ENDOR) spectra of the VO^{IV}–D-galacturonic acid system in aqueous solution have been studied as a function of pH. Couplings between the paramagnetic ion and the protons of ligand or water molecules have been distinguished by comparative examination of the spectra recorded in water and D_2O. Comparison of data with results available from potentiometric and other spectroscopic measurements allowed interpretation of the pH dependence of ENDOR spectra and the assignment of the main observed resonances, *e.g.* those due to methine protons on the carbon atoms bearing deprotonated carboxyl and/or hydroxyl groups co-ordinated to the metal ion.

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