

Influence of pH on the formation of manganese(II) with cysteine complexes in aqueous solutions

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Abstract

The compositions of aqueous solutions of manganese(II) chloride and cysteine are studied using UV/Vis spectroscopy, electron paramagnetic resonance (EPR) and dynamic light scattering (DLS). The molecular and supramolecular structures formed in these solutions are identified and it was shown that the values of the hydrodynamic diameter, diffusion coefficient, particle size distribution of the latter depend on pH, concentration and ratio of the components of the solution.

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