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Effect of sodium dodecylsulfate on equilibria of copper complexation

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Abstract

Effect of sodium dodecylsulfate (SDS) on the complexation of copper(II) with iminodiacetic acid (IDA) and ethylene diamine (En) is investigated using pH-metric titration and NMR relaxation together with computer treatment of the results obtained. In the ternary system of Cu(II)-ID-SDS the competition for Cu²⁺ ions between the complexing agent and surface active agent (SDS) was found, whereas in the presence of En the ternary associates with monomeric surfactant anions were observed.
