

Mono- and polynuclear complexonates cobalt(II) and nickel(II) in aqueous 2-amino-3-methylbutanoic acid

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Keywords: cobalt(II), nickel(II), spectrophotometry, chelation, EDTA, 2-amino-3-methylbutanoic acid, complexes of structure.

Abstract

Spectrophotometric and pH-metric methods studied equilibrium in systems containing ions cobalt(II), nickel(II) and ethylene diamine and 2-amino-3-methylbutanoic (valine) acid. The stoichiometry of the complexes formed, their pH ranges existence calculated stability constants are set share kompleksonatov accumulation depending on the concentration of ligands and acidity. Experimental data processed using mathematical models which allow to establish the presence in the solution of complex particles general composition [MmValnEdtar] 2m-n-4r (m = 1-4, n = 0-8, r = 0-1). The proposed structure and model of the complexes formed.

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