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Complexing reactions in the Ni(II)-5-methyl-4-amino-3-thiooxo-1,2,4-triazapentene-1-methanal and Ni(II)-5-methyl-4-amino-3-thiooxo-1,2,4-triazapntene-1-propanone triple systems

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Abstract

Complexing processes in the NiII-TTA-methanal (A) and NiII-TTA-propanone (B) triple systems (TTA - 5-methyl-4-amino-3-thiooxo-1, 2, 4-triazapentene-1) in ethanol solution and nickel(II)hexacyanoferrate(II) gelatin-immobilized matrix have been studied. In the NiII-TT--methanal system, formation of NiII oligomeric coordination compounds in which metal chelate cycles are connected by -H2C-O-CH2- structural groups, takes place. In the NiII-TTA-propanone triple system, formation of only NiII complexes with TTA takes place. No complexing process in the triple systems in nickel(II)hexacyanoferrate(II) gelatin-immobilized matrix was found. © 2009 Taylor & Francis.

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Keywords

Complexing reactions, N,S-donor atomic ligand, Nickel(II) chelate complexes