

Synthesis and study of aspects of complex formation on base of platinum tetrachloride and disodium salt of 4,6-dinitro-1-oksobenz-[6,5-c]-2,1,3-oxadiazole-5, 7

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Abstract

In present paper aspects of the interaction in the system of platinum tetrachloride – disodium salt of 4,6-dinitro-1-oxobenz-[6,5-c]-2,1,3-oksadiazoldiol-5,7 in various solvents (water, water-acetic acid, water-acetone) are discovered. Formation of complexes in solution studied by absorption spectroscopy, conductometry and pH measurements. Neutral metal complexes in solid state are reported and characterized based on elemental analyses, IR, Raman, ESR, absorption electronic, flame absorption, X-ray fluorescent spectroscopy methods and conductometry. In case of PtCl₄ excess, formation of polynuclear complexes determined. In case of ligand excess, formation of 1:1 complex determined. It is showed, that product yield higher in mixed water-acetone solvent.