

Complexing processes in M(II)-dithiomalonamid- -diacetyl triple systems (M = Ni, Cu) in ethanol solution and in a metal(II)hexacyanoferrate(II) gelatin- immobilized matrix materials

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Abstract

The complexing processes in the M^{II}-dithiomalonamide-diacetyl triple system (M = Ni, Cu) occurring in the nickel(II)- and copper(II) hexacyanoferrate(II) gelatin-immobilized matrix in contact with aqueous alkaline solutions (pH~12) containing dithiomalonamide and diacetyl at room temperature, and between MCl₂, dithiomalonamide and diacetyl in EtOH solutions upon heating to ~80°C, have been studied. In the Ni^{II}-dithiomalonamide-diacetyl system, template synthesis occurs in EtOH solution but does not occur in the gelatin-immobilized matrix, whereas in the Cu^{II}-dithiomalonamide-diacetyl system, template synthesis occurs in the gelatin-immobilized matrix but not in EtOH solution. Dithiomalonamide and diacetyl are the ligand synthons in the processes indicated.

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