
Mono – and polynuclear complex compounds of gadolinium with cyclic structure oxine –based ligands

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Abstract The paper present six new mono- and polynuclear complex compounds of oxine derivative macrocyclic ligand L with Gd³⁺, Gd³⁺- Mn²⁺, Gd³⁺- Cu²⁺ and Gd³⁺- Fe³⁺. The complexes [GdLCl₃(H₂O)₅] **1**, [Gd₂LCl₄(H₂O)₁₂]Cl₂ **2**, [Gd₃L₂Cl₇(H₂O)₁₆]Cl₂ **3**, [GdCu₂L₂Cl₆(H₂O)₅]Cl **4**, [GdMn₂L₂Cl₆(H₂O)₅]Cl **5**, [GdFe₂L₂Cl₇(H₂O)₉]Cl₂ **6** have mono- and polynuclear structures and were characterised by elemental chemical analysis, molecular electrical conductivities, electronic, AA and IR spectra.

Keywords: mono and polynuclear complex compounds, macrocyclic ligand, gadolinium, oxine derivative
