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N_2S_2 -Type Iminothiolates and Macrocyclic Iminosulfides and Their Application as Ligands for Complexation with Ni(II) and Co(II)

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the synthesis of complexes **I**. Template condensation of corresponding carbonyl compounds with appropriate diamines in the presence of metal salts is preferable for the synthesis of complexes **II**. In the case of complexes **III**, the macrocyclic ligands with different size of spacer between S and N atoms were obtained previously from appropriate α,ω -bis(2-formylphenyl)- α,ω -dithiaalkane and diamine, and then they were subjected to the complexation reactions.

The synthesized ligands and complexes were characterized by elemental analysis, X-rays, and NMR, IR, and UV spectroscopy data. All synthesized complexes were investigated by voltammetric method.