ISSN 0042-1308

Российская академия наук

Успехи химии

Обзорный журнал по химии

Том 84 Номер 3 2015 стр. 225–333

Издается Российской академией наук

Успехи химии

Том 84
Номер 3
2015

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Russian Chemical Reviews

Volume 84 Number 3 2015

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A.V.Pestov,[a, b] P.A.Slepukhin,[a, b] V.N.Charushin [a, b]

[a] *I.Ya.Postovsky Institute of Organic Synthesis, Ural Branch of Russian Academy of Sciences, Ekaterinburg, Russia*
[b] *Ural Federal University named after the First President of Russia B.N.Yeltsin, Ekaterinburg, Russia*

Comparative analysis of the structures of copper(II) and nickel(II) chelate complexes with N-substituted 2-aminoethanol, 3-aminopropan-1-ol, glycine and β-alanine is performed. It is shown that tetradentate ligands based on 3-aminopropan-1-ol and β-alanine, sterically hindered 2-aminoethanol derivatives and tridentate enamino ketone derivatives tend to form oligonuclear copper(II) and nickel(II) complexes. Glycine derivatives do not provide the formation of oligonuclear copper(II) and nickel(II) complexes. The magnetic properties of a number of polynuclear complexes are compared.
Bibliography — 182 references.