Polyhedron 95, 27 July 2015

Contents lists available at ScienceDirect

Polyhedron

journal homepage: www.elsevier.com/locate/poly

Contents

CuCl₂·2H₂O, Zn(NO₃)₂·6H₂O and PdCl₂ with

the bidentate Schiff base ligand HL (2-tert-

butyliminomethyl-phenol) in methanol. The

molecular structures of all the complexes were determined by the single crystal X-ray

diffraction technique. The catalytic activity

of these complexes has been evaluated for

the selective oxidation of sulfides with the

green oxidant 35% aqueous H₂O₂ under

solvent free conditions. For all catalysts,

using the optimized reaction conditions,

Mahsa Khorshidifard, Hadi Amiri Rudbari, Banafshe Askari, Mehdi Sahihi, Mostafa Riahi Farsani, Fariba Jalilian and **Giuseppe Bruno**

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SEVIER

Cobalt(II), copper(II), zinc(II) and palladium(II) Schiff base complexes: Synthesis, characterization and catalytic performance in selective oxidation of sulfides using hydrogen peroxide under solvent-free conditions

Cobalt(II), copper(II), zinc(II) and Pd(II) complexes, CoL₂, CuL₂, ZnL₂ and PdL₂, were synthesized from the reaction of CoCl₂·6H₂O,

Sourav Kanti Seth, Soumik Mandal, Pradipta Purkayastha and Parna Gupta

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Cyclometalated mono and dinuclear rhodium(III) and iridium(III) complexes with imidazolyl phenanthrolines: Synthesis and, photophysical and electrochemical characterization

different sulfides were converted to the corresponding sulfones. Homonuclear and heterobinuclear cyclometalated rhodium(III) and iridium(III) complexes 3-9 were synthesized with imidazolyl modified phenanthroline ligands. The detail photophysical studies reveal that the emission behaviour of the rhodium complexes is greatly influenced

by ligand emission behaviour.

Yi Young Kang, Hyoung-Ryun Park, Min Hyung Lee, Jiyoun An, Youngjo Kim and Junseong Lee

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Dinuclear iron(III) complexes with different ligation for ring opening polymerization of lactide

Two interesting iron(III) complexes bearing chiral tridentate Schiff base ligands were synthesized through a simple one step reaction. The solid state structure analysis revealed two iron atoms situated in different ligand environments. They were evaluated for their ability to catalyze LA, and showed high activity.









Contents

Lawrence R. Gahan and Sigrid L. Henriksen

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Preparation and characterization of di-(μ_2 -CH₃COO- κ^2 O:O')-tetrakis[μ_3 -methoxo-2,4-pentanedionatometal(II,III)] complexes Complexes with general formula $[M(III)_x-M(II)_y(acac)_4(CH_3COO)_2(\mu_3-OCH_3)_4]$, in some cases exhibiting partial occupancy the metal sites, have been prepared and the cubane type structures characterized with X-ray crystallography, mass spectrometry and magnetic susceptibility measurements. Susceptibility data indicate weak ferromagnetic coupling for the two divalent sites.

Aleksander Kufelnicki, Stefania V. Tomyn, Artem A. Babaryk, Jolanta Jaciubek-Rosińska, Jan Jaszczak, Cecylia Wardak, Matti Haukka and Igor O. Fritsky

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Synthesis, solid state and solution studies of zinc(II) complexes with 2-hydroxyiminopropanoic acid (HPA) Synthesis yielded a complex in which two linear dimeric anions have two Zn^{2+} atoms linked by the carbonate anion into a tetranuclear unit. The predominating species in aqueous solution are mononuclear: ZnLH (pH 4–6) and ZnL, ZnL₂H (pH 7–8) with an intramolecular H-bridge between the oxime oxygens.



Kristína Matelková, Roman Boča, ubor Dlháň, Radovan Herchel, Ján Moncol, Ingrid Svoboda and Anna Mašlejová

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Dinuclear and polymeric (μ -formato)nickel(II) complexes: Synthesis, structure, spectral and magnetic properties



Christina J. Leggett and Linfeng Rao

Polyhedron 95 (2015) 54

Complexation of calcium and magnesium with glutarimidedioxime: Implications for the ex-traction of uranium from seawater

Amidoxime-based sorbents are promising extractants for uranium in seawater. Complexes of calcium and magnesium with glutarimidedioxime, a ligand that can be formed during sorbent synthesis, were found to be much weaker than uranyl complexes. However, because of their high seawater concentrations, some sorption is expected and should increase with temperature.



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