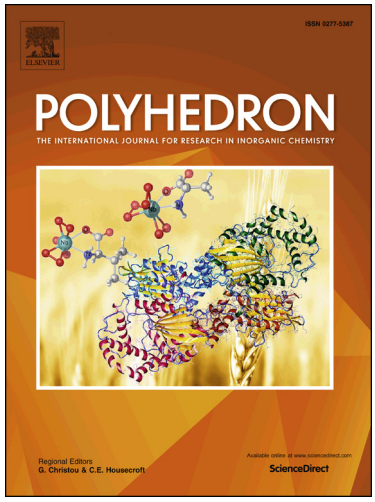

Synthesis and characterization of three hetero-dinuclear complexes with CuO_2M cores (M= Na, Hg): Exploration of their phenoxazinone synthase mimicking activity

Sourav Roy, Michael G.B. Drew, Shouvik Chattopadhyay

PII: S0277-5387(18)30186-4
DOI: https://doi.org/10.1016/j.poly.2018.04.018
Reference: POLY 13120

To appear in: *Polyhedron*

Received Date: 22 February 2018
Accepted Date: 12 April 2018

Please cite this article as: S. Roy, M.G.B. Drew, S. Chattopadhyay, Synthesis and characterization of three hetero-dinuclear complexes with CuO_2M cores (M= Na, Hg): Exploration of their phenoxazinone synthase mimicking activity, *Polyhedron* (2018), doi: https://doi.org/10.1016/j.poly.2018.04.018

Synthesis and characterization of three hetero-dinuclear complexes with CuO_2M cores (M= Na, Hg): Exploration of their phenoxazinone synthase mimicking activity

Sourav Roy,[a] Michael G. B. Drew,[b] Shouvik Chattopadhyay*[a]

[a] Department of Chemistry, Inorganic Section, Jadavpur University, Kolkata - 700032, India.

Tel: +9133-2457-2941; E-mail: shouvik.chem@gmail.com

[b] School of Chemistry, The University of Reading, P.O. Box 224, Whiteknights, Reading RG6 6AD, United Kingdom, E-mail: m.g.b.drew@reading.ac.uk

Abstract

Three new hetero-dinuclear complexes, $[CuL^1Na(NCS)]\cdot 0.5H_2O$ (**1**), $[CuL^1Na(OClO_3)]\cdot 0.25H_2O$ (**2**) and $[CuL^2HgCl_2]$ (**3**) {where H_2L^1 = N,N'-bis(3-ethoxysalicylidene)-2,2-dimethylpropane-1,3-diamine and H_2L^2 = N,N'-bis(3-methoxysalicylidene)-2,2-dimethylpropane-1,3-diamine] are N_2O_4 donor compartmental Schiff bases} have been synthesized and characterized. The phenoxazinone synthase mimicking activity of each complex in acetonitrile has been investigated with the model substrate *o*-aminophenol.

Keywords: Hetero-dinuclear complex; Schiff Base Ligand; Phenoxazinone synthase mimicking activity.