

Synthesis and Structure of a Novel Tetranuclear Copper(II) Resorcin[4]arene-based Complex

Fang-Hui Wu, Yu-Jie Liu, Shu-Qun Liu, and Qian-Feng Zhang

Department of Applied Chemistry, Anhui University of Technology, Ma'anshan, Anhui 243002, China

Reprint requests to Dr. Qian-Feng Zhang. Fax.: +86-555-2311552. E-mail: zhangqf@ahut.edu.cn

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The preparation, spectroscopic properties and crystal structure of a tetranuclear copper(II) resorcin[4]arene-based complex with the cap-bpa ligand [cap = resorcin[4]arene-based cavitand, bpa = bis(pyridyl)methylamine] are reported. The orientation of each (bpa)Cu fragment in the complex is perpendicular to the cap bowl. All four copper centers are only coordinated to the tridentate bpa moiety.

Key words: Resorcinarene, Cavitand, Synthesis, Crystal Structure, Copper(II) Complex