

## **Copper(II) activated transformation of azomethine to imidate**

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Tridentate Schiff bases are excellent ligands in forming dinuclear complexes of metal ions which prefer square-planar geometry. Deprotonated monobasic arylhydrazones of 2-pyridine-carboxaldehyde can coordinate a metal ion via the pyridine-N, the imine-N and the amide-O atoms. We are interested in amide-O bridged dinuclear complexes in order to study the influence of amide proton on the interaction between the two metal ions. In developing a dinuclear copper(II) complex we have reacted 4-dimethylaminobenzoyl-hydrazone of 2-pyridine-carboxaldehyde (HL) with  $\text{Cu}(\text{O}_2\text{CCH}_3)_2 \times \text{H}_2\text{O}$  in methanol. The product obtained is a dinuclear complex,  $[\text{Cu}_2\text{L}_2(\text{O}_2\text{CCH}_3)_2] \times 2\text{H}_2\text{O}$ , in which the azomethine group of HL has been transformed to imidate. The syntheses and X-ray structures of the free hydrazone and the dinuclear copper(II) complex of the transformed ligand are described in this work.