

Rare monomeric-dimeric copper(II) cinnamate complexes in one single crystal :
syntheses, characterization, structure determination and DFT studies of two copper(II)
complexes.

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Streszczenie

Rare monomeric as well as dimeric Cu(II) complexes, $[\text{Cu}_2(\beta\text{-pic})_4\text{L}_4][\text{Cu}(\beta\text{-pic})_2\text{L}_2(\text{H}_2\text{O})_2] \cdot 2\text{H}_2\text{O}$ (**1**), (where L = cinnamate and $\beta\text{-pic}$ = $\beta\text{-picoline}$) in one single crystal have been synthesized by the reaction of copper(II) cinnamate and excess of $\beta\text{-pic}$ while a monomeric complex $[\text{Cu}(\text{py})_2\text{L}_2(\text{H}_2\text{O})] \cdot \text{py}$ (**2**) was obtained in a similar reaction by using py (py = pyridine) instead of $\beta\text{-pic}$. Both of these copper(II) complexes have been characterized by spectroscopic techniques, TGA, X-ray crystallography and DFT studies.

Słowa kluczowecopper(II) complex, Monomer–dimer, X-ray crystallography,
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