



Two coordination modes around the Cu(II) cations in complexes with benzo[*b*]furancarboxylic acids.

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Rok wydania

2013

Czasopismo

Chemical Physics Letters

Numer woluminu

559

Strony

41-45

DOI

10.1016/j.cplett.2013.01.011

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

Three Cu(II) complexes with derivatives of the benzo[*b*]furancarboxylic acid have been synthesized and characterized by the elemental and thermal analyses, and IR spectroscopy. The geometry of metal–ligand interaction for all compounds has been described using X-ray absorption spectroscopy and for one of them by X-ray crystallography. Two mononuclear Cu(II) complexes, with 7-acetyl-5-bromo-6-hydroxy-3-methylbenzo[*b*]furan-2-carboxylic and 6-acetyl-5-hydroxy-2-methylbenzo[*b*]furan-3-carboxylic acids, exhibit a tetra-fold coordination, CuO₄. The Cu(II) cation in crystals with 7-acetyl-6-methoxy-3-methyl-benzo[*b*]furan-2-carboxylic acid is penta-coordinated; the bridging COO[−] groups and ethanol molecule stabilize the dinuclear center Cu₂O₁₀. The powdered form of this complex is based on the Cu₂O₈ units, indicating the absence of the ethanol molecules

Adres publiczny

<http://dx.doi.org/10.1016/j.cplett.2013.01.011>

Strona internetowa wydawcy

<http://www.elsevier.com>

Plik został wygenerowany dnia 2026-08-19 01:17:28

Adres w repozytorium <https://old.chem.uni.wroc.pl/pl/repozytorium/MiBHDot>.