

Cu(N–N)₂Cl₂ and Cu(N–N–N)Cl₂ and HgCl₂ building blocks in the synthesis of coordination compounds—X-ray studies and magnetic properties.

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Rok wydania

2010

Czasopismo

Journal of Solid State
Chemistry

Numer woluminu

183

Strony

2012-2020

DOI

10.1016/j.jssc.2010.06.015

Kolekcja

Naukowa

Język

Angielski

Typ publikacji

Artykuł

Streszczenie

A series of complexes containing Cu(N–N)₂Cl₂ (N–N=bis(pyrazol-1-yl)methane (bpzm), bis(3,5dimethylpyrazol-1-yl)methane (bdmpzm), 2,2-dipyridylamine (dpa), 5,6-diphenyl-3-(2-pyridyl)-1,2,4-triazine (dppt) and 2,2'-bipyridine (bipy)), Cu(N–N–N)Cl₂ (N–N–N=2,2':6',2''-terpyridine (terpy)) and HgCl₂ building blocks have been synthesized and structurally characterized. Increase in structural dimensionality is observed for [Cu(bpzm)₂][HgCl₄], [Cu(dpa)₂][HgCl₃]₂ and [Cu(terpy)(μ-Cl)HgCl₃] compounds. No coordination polymers have formed in the case of bis(3,5dimethylpyrazol-1-yl)methane, 5,6-diphenyl-3-(2-pyridyl)-1,2,4-triazine and 2,2'-bipyridine. The [Cu(bpzm)₂][HgCl₄] and [Cu(terpy)(μ-Cl)HgCl₃] complexes have been studied by magnetic measurements.

Słowa kluczowe

Heterobimetallic coordination polymer, Copper complexes, Mercury compounds, Chloride bridge, X-ray, magnetic measurements

Adres publiczny

<https://doi.org/10.1016/j.jssc.2010.06.015>

Strona internetowa wydawcy

<http://www.elsevier.com>

