



Complexes of *N*-thiophosphorylthioureas (HL) with copper(I). Crystal structures of [Cu₃L₃] and [Cu(PPh₃)₂L] chelates.

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Streszczenie

Reaction of the potassium salts of *N*-thiophosphorylated thioureas of common formula RC(S)NHP(S)(OiPr)₂ [R = morpholin-*N*-yl (HL^a), piperidin-*N*-yl (HL^b), NH₂ (HL^c), PhCH₂NH (HL^d)] with Cu(PPh₃)₃I in aqueous EtOH/CH₂Cl₂ leads to mononuclear [Cu(PPh₃)₂L-S,S'] complexes. Using copper(I) iodide instead of Cu(PPh₃)₃I, polynuclear complexes [Cu_{*n*}(L-S,S')_{*n*}] were obtained. The structures of these compounds were investigated by ES-MS, elemental analyses, ¹H and ³¹P NMR in solution, IR and ³¹P solid-state MAS NMR spectroscopy. The crystal structures of [Cu₃L₃^a] and [Cu(PPh₃)₂L^b] were determined by single-crystal X-ray diffraction.

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