



Complexes of a novel *N*-(diisopropoxythiophosphoryl)thiourea derivative of 1,4,8,11-tetraazacyclotetradecane with Na⁺, K⁺ and Cu(PPh₃)₂⁺ cations.

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The reaction between 1,4,8,11-tetraazacyclotetradecane (cyclam) and *O,O'*-diisopropyl-isothiocyanatothiophosphoric acid (*i*PrO)₂P(S)NCS gives the tetra-functional thiourea H₄L with four C(S)NHP(S)(OPri)₂ groups attached to the intracyclic nitrogen atoms. The tetra-substituted product has been obtained in the solid state, while partial dissociation with elimination of isothiocyanate (*i*PrO)₂P(S)NCS takes place in CCl₄ and CDCl₃ solutions. Deprotonation of the exocyclic groups prevents the dissociation, and alkali metal salts of M₄L formula (M = Na⁺, K⁺) were obtained by treatment with MOH. The potassium salt K₄L was used to synthesize the Cu(I) complex [{Cu(PPh₃)₂}₄L] by reaction with Cu(PPh₃)₃I.

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