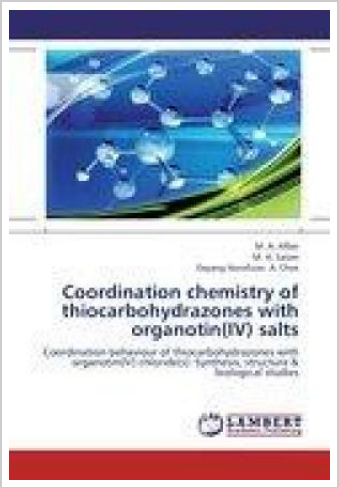




# Coordination chemistry of thiocarbohydrazones with organotin(IV) salts

By M. A. Affan

LAP Lambert Academic Publishing Jul 2012, 2012. Taschenbuch. Book Condition: Neu. 220x150x8 mm. This item is printed on demand - Print on Demand Neuware - In the present study, two series of thiocarbohydrazone ligands and their organotin(IV) complexes were synthesized and fully characterized. The two ligands include thiocarbohydrazone bis-2-hydroxyacetophenone (HAPTC) (1) and thiocarbohydrazone bis-2-furfural (FTC) (2) were synthesized by reacting the corresponding ketones and primary amines. Subsequently, two series of organotin(IV) complexes have been synthesized by direct reactions of RnSnCl4-n (R = Me, Bu, Ph; n = 1, 2), base and ligands (1-2) in 1:1:1 or 1:2:1 mole ratios. All ligands and their organotin(IV)complexes (3-13) have been characterized by elemental analyses, molar conductivity, UV-visible, IR, NMR spectroscopy and X-ray single crystal analysis. Based on the spectral studies, the ligands (1-2) was coordinated to tin(IV) via its ONS-donor atoms. Biological activity of the synthesized ligands and their organotin(IV) complexes were tested against Artemia salina, Coptotermes sp. and various bacterial stains. Biological activity studies revealed that all the organotin(IV) complexes were more effective and have the potency to be used as cytotoxic and antibacterial agents. 132 pp. Englisch.



### Reviews

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