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The organotin(IV) complexes of phosphoramides

By Zahra Shariatnia

LAP Lambert Academic Publishing Nov 2013, 2013. Taschenbuch. Book Condition: Neu. 220x150x3 mm. This item is printed on demand - Print on Demand Neuware - It has been known that the chemistry of organotin(IV) complexes is of great interest because of their applications in medicine as anticancer, antitumor, antibacterial, antimicrobial, antifungal and antifouling agents that have made them as metal-based drugs. Furthermore, they can act as efficient catalysts in the chemical reactions. It is notable that although a number of researches have been conducted on the coordination compounds of organotin(IV) with various organic ligands, there are few reports about synthesis and characterization of organotin(IV) complexes containing phosphoramidate ligands. Thus, this area of organometallic chemistry has a great potential to grow by inorganic chemists and since phosphoramidate compounds have also shown promising medicinal and clinical applications like anticancer, anti-HCV, anti-HIV properties, their organotin(IV) complexes may indicate enhanced medicinal applications. Therefore, this work reviews the synthesis, X-ray crystal structures, DFT calculations, antibacterial activities and nanoparticles of organotin(IV) complexes including phosphoramidate ligands. 56 pp. Englisch.


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