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Synthesis, Spectral Characterization and Biological Applications of Tri- and Diorganotin(IV) Derivatives of 2-[N-(2,6-Dichloro-3-methylphenyl)amino]benzoic acid

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Abstract: A series of tri- and diorganotin(IV) compounds with the general formulae R_3SnL and R_2SnL_2 (where R = Me, n-Bu, Ph and L = 2-[N-(2,6-dichloro-3-methylphenyl)-amino]benzoate) were synthesized. These compounds were characterized by different instrumental methods such as infrared, multinuclear NMR (1H , ^{13}C , ^{119}Sn) and mass spectrometry. The spectroscopic investigation illustrates that the carboxylate group acts as a bidentate in solid state and as a monodentate in solution. Biological screening tests reveal that the investigated compounds have potential as antibacterial agents.

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