Turkish Journal of Chemistry

Turkish Journal

of

Chemistry

Organotin (IV) Derivatives of 1-Ethyl-1,4-Dihydro-7-Methyl-4-Oxo- 1,8-Naphthyridine-3-Carboxylic Acid (Nalidixic Acid): Synthesis, Structural Elucidation and Biological Activities

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Abstract: Organotin carboxylates of the general formulae R_2SnL_2 and R_3SnL, where R = CH_3, n-C_4H_9, C_6H_5, $CH_2C_6H_5$ and L = 1-ethyl-1,4-dihydro-7-methyl-4-oxo-1,8-naphthyridine-3-carboxylic acid (nalidixic acid), have been prepared. These compounds were characterized by FT-IR, mass and multinuclear NMR (^1H, ^{13}C and ^{119}Sn) spectroscopy. The geometry around the tin atom is compared both in solution and in solid state. These compounds were also screened for their antifungal and antibacterial activities.

Key Words: Organotin(IV) complexes, 1-ethyl-1,4-dihydro-7-methyl-4-oxo-1,8- naphthyridine-3-carboxylic acid (nalidixic acid), Spectroscopic characterization, Biological Activity

Keywords
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Turk. J. Chem., **30**, (2006), 193-202.
Full text: pdf
Other articles published in the same issue: Turk. J. Chem.,vol.30,iss.2.