

2-[N,N-Bis(trimethylstannyl)amino]pyridine and Bis[N-(N-trimethylsilyl-2-aminopyridyl)]dimethyltin – Intramolecular N-Sn Co-ordination

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2-[N,N-Bis(trimethylstannyl)amino]pyridine (**1**), bis[N-(N-trimethylsilyl-2-aminopyridyl)]-dimethyltin (**2**) and bis[N-(N-trimethylsilyl-2-amino-3-methyl-pyridyl)]dimethyltin (**3**) were prepared and characterized by ¹H, ¹³C, ¹⁵N, ²⁹Si and ¹¹⁹Sn NMR spectroscopy. In the case of **1**, intramolecular pyridine-N-Sn co-ordination was established by the low temperature ¹¹⁹Sn NMR spectra which show two resonance signals, one for a penta-co-ordinate and one for a tetra-co-ordinate tin site. In the cases of **2** and **3**, intramolecular pyridine-N-Sn co-ordination follows conclusively from ¹³C, ¹⁵N and ¹¹⁹Sn NMR parameters. In contrast with the known behaviour of the corresponding trimethyltin derivative, the methyl group in 3-position of the pyridine ring does not prevent this type of co-ordination in **3**.