

organo-tin compounds

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51 - 172

Preparation and NMR Investigation of 1,2-Distannyl Aromatics and Heteroaromatics, 1,2-Distannylcycloalkenes, and 1,2-Distannylcycloalkanes. — The treatment of a series of dibromoaromatics, -heteroaromatics, and -cycloalkenes with Me_3SnNa (II) in tetraglyme provides the corresponding distannylated products in ca. 40-60% yield. Especially the synthesis of 1,2-distannylcycloalkenes by this method seems to be an attractive alternative compared to the tin addition to cycloalkynes, since the latter are instable in the case of small rings. As expected, 1,2-dibromocycloalkanes do not give the corresponding distannyl derivatives when elaborated with (II). The distannylcycloalkanes are available as single isomers by applying the diimine reduction protocol to distannylcycloalkenes. — (MITCHELL, TERENCE N.; BOETTCHER, KARIN; BLECKMANN, PAUL; COSTISELLA, BURKHARD; SCHWITTEK, CHRISTOPH; NETTELBECK, CHRISTA; Eur. J. Org. Chem. (1999) 9, 2413-2417; Fachbereich Chem., Univ. Dortmund, D-44221 Dortmund, Germany; EN)

