Stannylation of unsaturated carbon-carbon bonds by tin tetrachloride.

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The reactions of tin tetrachloride and four terminal alkynes (PhCCH, ^{t}BuCCH, ^{n}BuCCH, $HOCH_2CCH$), norbornene, and norbornadiene in dichloromethane or chloroform solution lead to the formation of stannylation products, which were characterized by ^{1}H , ^{13}C and ^{119}Sn NMR spectroscopy. Virtually complete α-regioselectivity was obtained in reaction of all four alkynes without any effect of the relative steric bulk of the substituent R at the triple bond of alkyne $RC_{\beta}C_{\alpha}H$. The reaction of norbornene and norbornadiene with $SnCl_4$ is stereoselective, giving an *exo* stannylation product.

Słowa kluczowe

stannylation, Alkynes, norbornene, norbornadiene, NMR

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