كلية العلومر College of Sciences

جامعة الملك عبدالعزيز King Abdulaziz University

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MainPage	Research Details :	
About College	Research Title : Organotin compounds containing a bulky (Me3Si)(3)C or related	
Files	ligand. Crystal structures of {(Me3Si)(3)CMe(O2NO)Sn}(2)O,	
Researches	<u>(PhMe2Si)(3)CSnMeCI2 and (PhMe2Si)(3)CSnCI3</u> Organotin compounds containing a bulky (Me3Si)(3)C or relate	
Courses	ligand. Crystal structures of {(Me3Si)(3)CMe(O2NO)Sn}(2)O,	
Favorite Links	(PhMe2SI)(3)CShMeCI2 and (PhMe2SI)(3)CShCI3	
Our Contacts	(denoted by Tsi) or (PhMe2Si)(3)C (denoted by Tpsi), attached to	
Visits Of this Page:6	functional tin centres have been studied. Treatment of TsiSnR(2) CI, R = Me or Ph, with one equivalent of ICI gave the corresponding chloride TsiSnRCI(2), and use of an excess of ICI gave TsiSnCI(3)	

	(actional tin centres have been studied. Treatment of TsiSnR(2) CI, R = Me or Ph, with one equivalent of ICI gave the corresponding chloride TsiSnRCI(2), and use of an excess of ICI gave TsiSnCI(3) in both cases. Reaction of either chloride with one equivalent of Br-2 gave the dibromide TsiSnRBr(2); when an excess of Br-2 was used TsiSnMe(2)CI still gave the dibromide but TsiSiPh(2)CI gave the tribromide TsiSnBr(3). Reaction of TsiSnMe(2)Br with AgSCN or Ag2O gave TsiSnMe(2)NCS and (TsiSnMe(2))(2)O, respectively, but when the crude product from the reaction of TsiSnMeBr(2) with AgNO3 was recrystallized from MeOH the nitrate-oxide {TsiMe (O2NO)Sn}(2)O was obtained. In a seemingly previously unreported type of reaction, the alkoxide TsiSnMe(2)OEt reacted with ICI, Br- 2, or I-2 to give TsiSnMe(2)X, X = CI, Br, or I, respectively, and Bu3SnOEt likewise reacted with ICI to give Bu3SnCI. The chlorides TsiSnMe(2)CI and TsiSnMeCI(2) gave the hydrides TsiSnMe(2)H and TsiSnMe(2)CI the Tpsi-Sn bond was cleaved to give TpsiH. The compound (Me3Si)(2)C(SnMe2Ph)(SiMe2CI) reacted with a 1 M proportion of AgBF4 in CH2CI2 with cleavage of the Sn-Ph bond to give the difluoride (Me3Si)(2)C(SnMe2F)(SiMe2F). The crystal structures of the monomeric compounds {TsiMe(O2NO)Sn}(2)O, TpsiSnMeCI(2) and TpsiSnCI(3) are reported; {TsiMe(O2NO)Sn}(2)O, provides the first example of unidentate bonding of an NO, group to four-coordinate tin. (C) 1998 Elsevier Science S.A. All rights
Research Type	: Article
Research Year	: 1998
Publisher	: JOURNAL OF ORGANOMETALLIC CHEMISTRY Volume: 564 Issue: 1- 2 Pages: 215-226
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Added Date	: Saturday, June 14, 2008