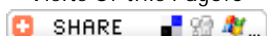




- > MainPage
- > About College
- > Files
- > Researches
- > Courses
- > Favorite Links
- > Our Contacts

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Research Details :

Research Title : Compounds of germanium, tin, and lead containing the ligand C (SiMe₃)₂(SiMe₂C₅H₄N-2)
Compounds of germanium, tin, and lead containing the ligand C (SiMe₃)₂(SiMe₂C₅H₄N-2)

Descriptipn : Reactions between LiC(SiMe₃)₂(SiMe₂C₅H₄N-2), 1, and the halides GeCl₂.dioxane, SnCl₂, and PbCl₂ gave the isostructural compounds MCl{C(SiMe₃)₂(SiMe₂C₅H₄N-2)} (M = Ge, 2; Sn, 3; or Pb, 4) which contain three-coordinate M. Treatment of the tin derivative 3 with MeI gave the oxidative addition product SnMeCl{C(SiMe₃)₂(SiMe₂C₅H₄N-2)}, 5, and this reacted with AgOCOCF₃ or AgOSO₂C₆H₄Me-4 to give, respectively, the compounds SnMeX₂{C(SiMe₃)₂(SiMe₂C₅H₄N-2)} with X = OCOCF₃, 6, or OSO₂C₆H₄Me-4, 7. Despite the presence of the bulky C(SiMe₃)₂(SiMe₂C₅H₄N-2) ligand, the Sn atom in the solid state structures of 6 and 7 is five-coordinate, and multinuclear NMR studies show that five-coordinate species are present also in THF solutions of 5, 6, and 7.

Research Type : Article

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