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Unusual group 14 metal thiolates and sulphides derived from tris(trimethylsilyl)methanethiol; X-ray structures of [Pb(NR₂)(μ -SCR₃)]₂ and cis-[Ge(CH₂Ph)(NR₂)(μ -S)]₂, (R = SiMe₃)

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Abstract

The reaction of tris(trimethylsilyl)menthanethiol, $HSCR_3(R = SiMe_3)$, with a group 14†; metal(II) bis(trimethylsilyl)amide, $M(NR_2)_2(M = Ge \text{ or Pb})$, gives unexpected products: *cis-* and *trans*- $[Ge(CH_2Ph)(NR_2)(\mu-S)]_2[a \text{ rare example of a group 14 cyclodi(metalthiane), <math>\{MXX(\mu-S)\}_2$, by refluxing in PhMe]; $[Pb(SCR_3)(\mu-SCR_3)]_2$ (the new ligand SCR_3 evidently can function in both a terminal and a bridging fashion); and $[Pb(NR_2)(\mu-SCR_3)]_2$, the first simple prochiral group 14 metal(II) complex.

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