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Unusual group 14 metal thiolates and sulphides derived from tris(trimethylsilyl)methanethiol; *X*-ray structures of $[Pb(NR_2)(\mu\text{-}SCR_3)]_2$ and *cis*-$[Ge(CH_2Ph)(NR_2)(\mu\text{-}S)]_2$, (R = $SiMe_3$)

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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 or Pb), gives unexpected products: *cis*- and *trans*-$[Ge(CH_2Ph)(NR_2)(\mu\text{-}S)]_2$[a rare example of a group 14 cyclodi(metalthiane), $\{MXX(\mu\text{-}S)\}_2$, by refluxing in PhMe]; $[Pb(SCR_3)(\mu\text{-}SCR_3)]_2$(the new ligand SCR_3 evidently can function in both a terminal and a bridging fashion); and $[Pb(NR_2)(\mu\text{-}SCR_3)]_2$, the first simple prochiral group 14 metal(II) complex.

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