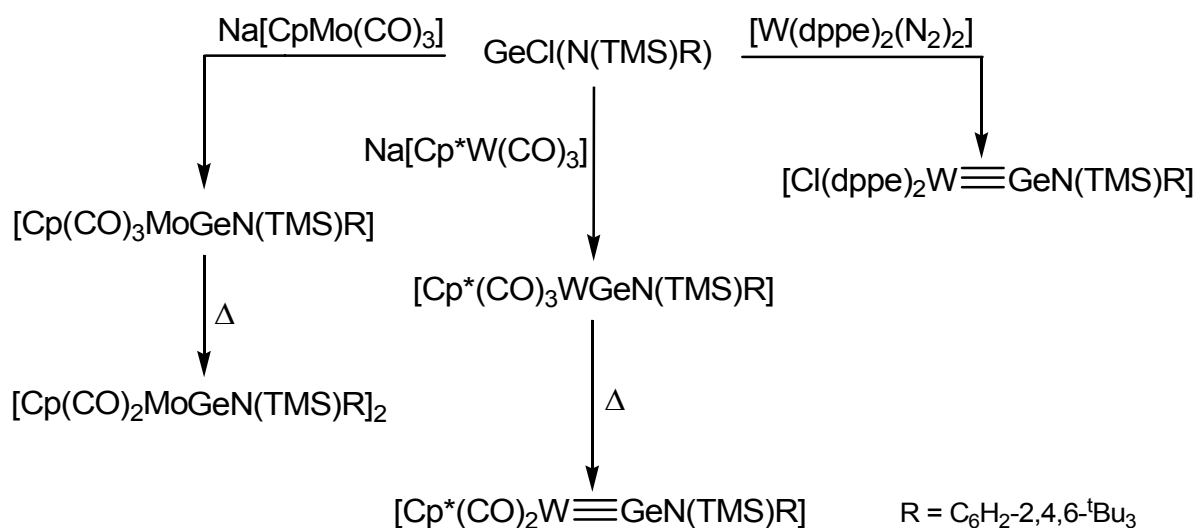


Aminogermylidyne Complexes of Group 6 Metals

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Recent developments in the organoelement chemistry of Si – Pb have produced a number of unusual complexes featuring metal–element triple bonds.^[1] All compounds of the general formula $L_nM\equiv E-R$ (L_n = ligand sphere; M = transition metal; E = Si – Pb), reported so far, contain triply bonded ylidene ligands $E-R$, in which the tetrel atom E carries a σ -bonded alkyl or aryl substituent R , that cannot be easily displaced. A major progress in this direction is the present report on novel germylidyne complexes bearing an amino substituent on the Ge center. The stepwise syntheses of the aminogermylidyne complexes is outlined in Scheme 1.



[1] A.C. Filippou, O. Chernov, K. W. Stumpf, G. Schnakenburg, *Angew. Chem.* **2010**, 122, 3368, *Angew. Chem. Int. Ed.* **2010**, 49, 3296, and refs. therein.