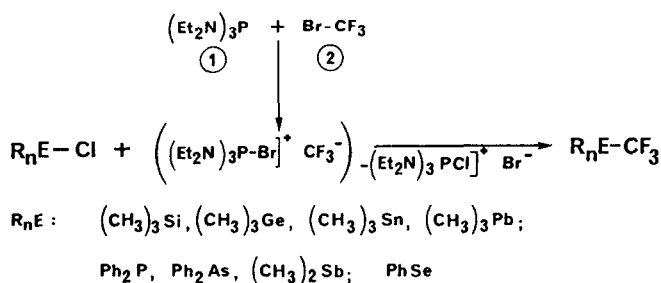


NUCLEOPHILIC TRIFLUOROMETHYLATION WITH THE REAGENT COMBINATION (Et₂N)₃P/CF₃Br

Ingo Ruppert

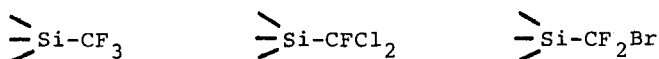
Anorganisch-Chemisches Institut der Universität Bonn, Gerhard-Domagk-Str. 1, 5300
Bonn 1 (F.R.G.)

By interaction of the reagent combination aminophosphane 1 and bromotrifluoromethane 2 on halides of the 4th-6th main group we found a new synthetic route to trifluoromethylated element-organics.



All CF₃-products can be isolated in respectable yields by this simple procedure.

In the meantime our method was extended to higher perfluoro-organyl halides inclusive C₆F₅Br and mixed halo(F, Cl, Br)methanes. In this connexion especially the synthesis of a palette of α-fluorinated silanes like



emphasizes the scope and validity of our three component system.