

Organometallic fluorides of main group and transition elements

HERBERT W ROESKY

University of Gottingen, Gottingen, Germany

Me_3SnF , Ph_2PbF_2 and Ph_3BiF_2 are used for the preparation of organometallic fluorides. Their different properties in fluorination reactions are discussed. The application of organometallic fluorides as catalysts and matrices for trapping reactive intermediates is given (e.g. MeZnF). Moreover, the syntheses of difluoroorganometallic anions such as $[\text{Me}_2\text{AlF}_2]$ are reported.

In this paper, the reactions of titanium and zirconium fluorides with aluminium alkyls are described and the application of these systems in polymerization reactions is mentioned.

In addition the recent chemistry on aluminium hydrides is reported.