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ADDUCTS OF GROUP IV B ORGANOMETALLIC RADICALS WITH DITHIENYL KETONES AND SYMMETRIC DITHIENOBENZOQUINONES

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ADDUCTS OF GROUP IV B ORGANOMETALLIC RADICALS WITH DITHIENYL KETONES AND SYMMETRIC DITHIENOBENZOQUINONES.

by ANGELO ALBERTI

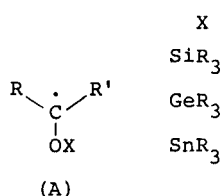
Laboratorio dei Composti del Carbonio contenenti Eteroatomi
e loro Applicazioni, C.N.R., Ozzano Emilia (Italy)

and Gian Franco Pedulli

Istituto di Chimica Organica dell'Università, Bari (Italy).

The radicals of general formula A or B

R, R'
2-Thienyl
3-Thienyl
2-Thieno[3,2b]Thienyl
2-Thieno[2,3b]Thienyl



have been produced either by irradiating a melt of the parent compound and the appropriate Silane (Germanium Hydride, ditin derivative) or by photolyzing a solution of the reactants in di-^tButylperoxide. In the resulting ketyl-like radicals the proton hyperfine couplings decrease along the series X=H>Si>Ge>Sn, with exception of the thiophen analogue of fluorenone where the trend is almost reversed: X=Si>Ge>H≈Sn. This may suggest that the electron releasing or electron withdrawing behaviour of the X substituent (X = MR₃) may depend on the nature of the substrate. In the thiophen analogues of anthraquinone there is no evidence of intramolecular migration of the organometallic group.