

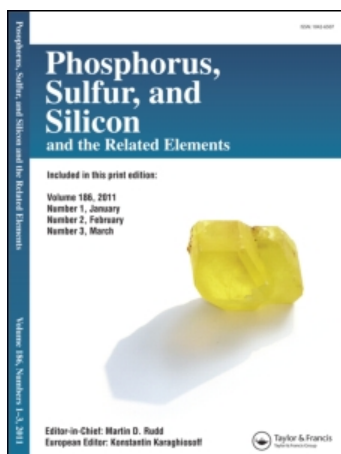
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Reactions of Difluorophosphoranes and P-Fluoro Ylids

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Reactions of Difluorophosphoranes and P-Fluoro Ylids

E. Fluck, H. Riffel and B. Neumüller*

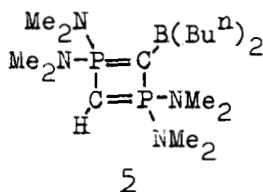
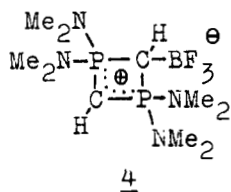
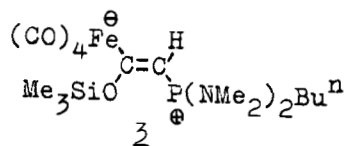
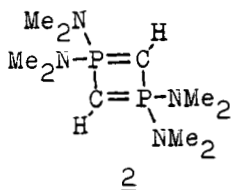
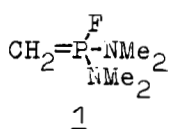
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$\text{MePF}_2(\text{NMe}_2)_2$ (1) reacts with n-butyl lithium in a molar ratio 1:1 to the methylenediaminophosphorane 1 (2) and in a molar ratio of 1:2 to a diphosphete 2 (3). Silylsubstituted alkylidene-fluorophosphoranes could be prepared from 1 and silicon chloro compounds (2).

With n-butyl lithium the compound $\text{Me}_3\text{SiCHP}(\text{NMe}_2)_2\text{Bu}^n$ is formed, leading with $\text{Fe}(\text{CO})_5$ to the vinylironcarbonyl complex 3 (4,5).

The diphosphete 2 was treated with $\text{BF}_3 \cdot \text{OEt}_2$ to a 1:1 adduct 4. A boronsubstituted diphosphete 5 can be prepared by the reaction of 4 with n-butyl lithium.



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