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Bis(Pentamethylcyclopentadienyl)-Substituted Phosphanes and Phosphoranes

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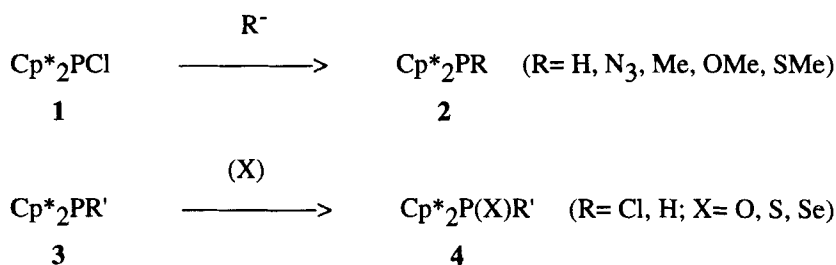
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BIS(PENTAMETHYLCYCLOPENTADIENYL)-SUBSTITUTED PHOSPHANES AND PHOSPHORANES

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Abstract The synthesis and crystal structures of a series of phosphanes and phosphoranes will be reported

Only a few representatives of phosphanes of the type Cp^*_2PR ($\text{Cp}^* = \text{C}_5\text{Me}_5$) have been described in the literature^[1]. We have synthesized a series of novel phosphanes **2** and phosphoranes **4** by the following routes :



The crystal structure analyses of several compounds prepared **2** ($\text{R} = \text{H}, \text{OMe}, \text{SMe}$ ^[2]), **4** ($\text{R}' = \text{Cl}, \text{X} = \text{S}; \text{R}' = \text{H}, \text{X} = \text{O}$) have been carried out and the bond length and angles are discussed.

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- [1] JUTZI, P; SALESKE, H.; *Chem. Ber.*, **1984**, *117*, 222-233
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