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## Phosphorus, Sulfur, and Silicon and the Related Elements

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### P-Functionalized $\eta^1$ -P Phosphole Tungsten Complex as Intermediates for Cycloaddition Reactions and Phosphinidene Formation

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# P-Functionalized $\eta^1$ -P Phosphole Tungsten Complex as Intermediates for Cycloaddition Reactions and Phosphinidene Formation

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The reaction of 3,4-dimethylphospholyl anion 1 with  $W(CO)_6$  yields the  $\eta^1$ -P complexed anion 2 which reacts with electrophiles to give the new-P-functionalized complexes 3. Their ability to give cycloaddition reactions has been compared.

The phosphanorbornadienes 4 obtained in some cases by cycloaddition with dimethylacetylene dicarboxylate lead to the P-functionalized phosphinidenes 5 which are trapped by tolane as phosphenes 6.

