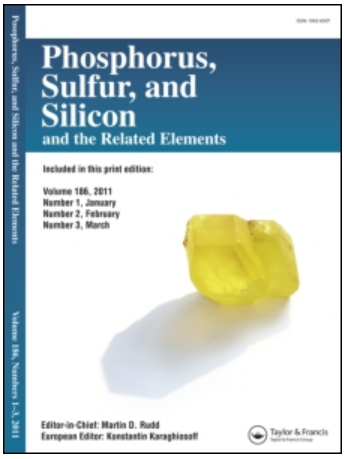

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P-Functionalized η^1-P Phosphole Tungsten Complex as Intermediates for Cycloaddition Reactions and Phosphinidene Formation

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P-Functionalized η^1-P Phosphole Tungsten Complex as Intermediates for Cycloaddition Reactions and Phosphinidene Formation

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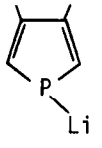
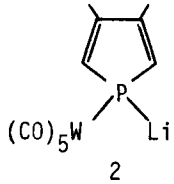
The reaction of 3,4-dimethylphospholyl anion 1 with $W(CO)_6$ yields the η^1-P complexed anion 2 which reacts with electrophiles to give the new-P-functionalized complexes 3. Their ability to give cycloaddition reactions has been compared.

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 phosphirenes 6.



1



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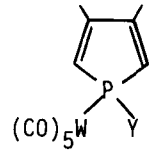
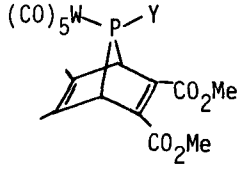


3

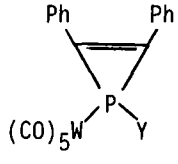
Y = CO_2Et, C-$C_3Ø_3$, C=CØ, CN, SMe...



4

$[(CO)_5WPY]$

5



6