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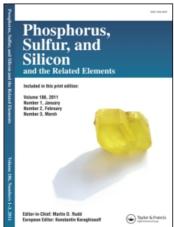
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Phosphorus, Sulfur, and Silicon and the Related Elements

Publication details, including instructions for authors and subscription information: http://www.informaworld.com/smpp/title~content=t713618290

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To cite this Article Tyryshkin, Nickolay I., Gavrilov, Viktor V. and Fuzhenkova, Alexandra V.(1996) 'Reaction of Trialkylphosphine Carbon Disulfide Adducts with Cyclopentadienones', Phosphorus, Sulfur, and Silicon and the Related Elements, 111: 1, 190

To link to this Article: DOI: 10.1080/10426509608054819 URL: http://dx.doi.org/10.1080/10426509608054819

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REACTION OF TRIALKYLPHOSPHINE CARBON DISULFIDE ADDUCTS WITH CYCLOPENTADIENONES

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It has been known more than for 100 year that triethylphosphine forms the 1:1 adducts with carbon disulfide and isothiocyanates. However, little is know on the reaction of the adducts and the formation of reactive alkylidenephosphoranes was recently reported by the reaction of adducts with electron-poor double bonds.

We have undertaken a detailed study of the cycloaddition reactions of adducts with a wide range of different cyclopentadienones (CPD). Reaction of the CS₂/tri-n-butilphosphine adducts with one equivalent of cyclopentadienon in C₆H₆ or CH₂Cl₂ resulted in a slow reaction to produce a new adducts, alkylidenphosphoranes and phosphoranes, isolated after flash cromatography.

[822]/190