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

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### The Nature of the Phosphorus Tellurium Bond in Tellurophosphoranes and their Derivatives

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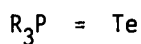
# The Nature of the Phosphorus Tellurium Bond in Tellurophosphoranes and their Derivatives

N. Kuhn \*, H. Schumann and G. Wolmershäuser §

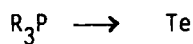
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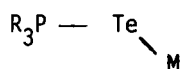
Tellurophosphoranes, which may be considered as phosphane chalcogenides (I) or as phosphane stabilized tellurium atoms (II), form coordination compounds III and IV. The nature of both the phosphorus tellurium and the phosphorus element bond is discussed from chemical and spectroscopic properties.



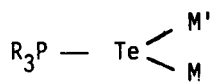
I



II



III



IV

R = Me, i-pr, t-bu, NMe<sub>2</sub>, mor

M, M' = CH<sub>3</sub><sup>+</sup>, CpFe(CO)<sub>2</sub><sup>+</sup>, Cr(CO)<sub>5</sub>, Mo(CO)<sub>5</sub>, W(CO)<sub>5</sub>

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§ Fachbereich Chemie der Universität Kaiserslautern,  
x-ray structure