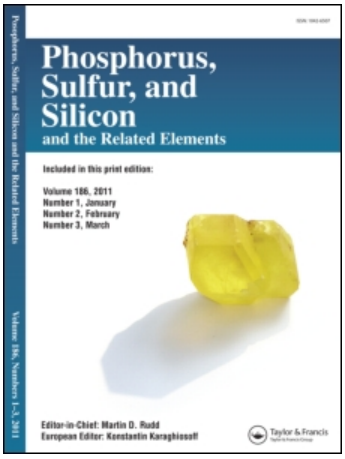

Phosphorus, Sulfur, and Silicon and the Related Elements

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Correlation Between Chemical Shifts (^{31}P) and Steric Parameters of Phosphametallacycloalkanes

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Correlation Between Chemical Shifts (^{31}P) and Steric Parameters of Phosphametallacycloalkanes

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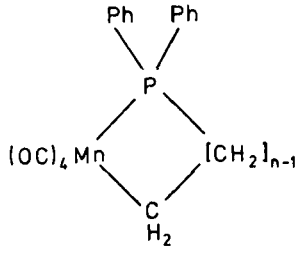
The X-ray structures of the phosphametallacycloalkanes **1**[1)]



1

were investigated to understand the anomalous chemical shift behavior of the phosphorus incorporated in the ringsystem. The ^{31}P chemical shifts could not be related to bond angles and to Tolman angles. An electronic contribution to the δP value could be excluded, while the torsional angle effect proved to be the dominant factor.

1) E. Lindner and R. Fawzi, J. Organomet. Chem. **299**, C47 (1986).