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

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### Study of Tautomerism in Some $\beta$ -Keto Phosphoryl Prototropic Pentad Systems

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$$\begin{array}{c}
 \text{PPh}_3 \\
 | \\
 \text{Ph}_2\text{P}(\text{O})-\text{C}-\text{COR} \xrightarrow{\text{HX}} \\
 \text{I, II}
 \end{array}
 \rightleftharpoons
 \begin{array}{ccc}
 \text{Ph}_2\text{P}(\text{O})-\text{CH}-\text{COR} \text{ X}^- & \rightleftharpoons & \text{Ph}_2\text{P}(\text{OH})=\text{C}-\text{COR} \text{ X}^- \\
 \text{A} & & \text{C} \\
 & \nwarrow \nearrow & \\
 & \text{Ph}_2\text{P}(\text{O})-\text{C}=\text{C}(\text{OH})\text{R} \text{ X}^- & \\
 & \text{B} & \\
 & \text{III, IV} &
 \end{array}$$

753