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Reactions of Phosphorylsulfenyl Chlorides with 2H-1,2,- -Diazaphospholes

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Abstract

Formation of a quasiphosponium salt in reaction of phosphorylsulfenyl chlorides with 1,2,3-diazaphospholes was established by dynamic ^{31}P NMR spectroscopy. The salt is formed by addition of 2 mol of phosphorylsulfenyl chloride to the $\sigma^2\lambda^3\text{P}=\text{C}$ endocyclic fragment by the 1,1- and 1,2-addition schemes. Decomposition of the salt yields mainly O,O-dialkyl phosphothiochloridate and, to a lesser extent, dialkyl phosphochloridate.
