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Interaction of Cyclohexanediimines with Phosphorus (III) Chlorides

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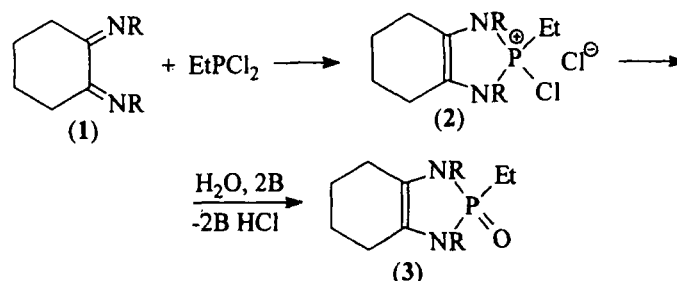
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Interaction of Cyclohexanediimines with Phosphorus (III) Chlorides

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It is known that reactions of phosphorohalidites with linear α -diimines proceed accordingly [1+4]-cycloaddition mechanism and give rise to 1,3,2-diazaphosphol-4-enes. We have found that 1,2-cyclohexanediimines (1) react with alkylidichlorophosphines in the absence of base also resulting in the formation of products of 1,3,2-diazaphosphol-4-ene structure (2, 3).



On contrast interaction of cyclohexanediimines (1) with phosphorochloridites in the presence of base produce 1,3,2-diazaphospholanes containing cyclohexadiene fragment (4).

