



Spectroscopic studies of the reactions of diaminotetrachlorotriphosphazenes with antimony trifluoride and potassium fluorosulphite as fluorinating agents

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Abstract

Reactions between some diaminotetrachlorotriphosphazenes and both SbF_3 and KSO_2F have been investigated. A total of 13 new compounds have been isolated and characterized. When SbF_3 is the fluorinating agent, non-geminally substituted amino-derivatives occur at the $\text{PCl}(\text{amine})$ group. On the other hand, reactions occur at the PCl_2 centre only, with KSO_2F as the fluorinating agent and the substituent is a secondary amine, but with a primary amine as a substituent, reaction at $\text{PCl}(\text{amine})$ and PCl_2 centres is observed.