Synthesis and study of som phoshorus nitro gen compounds and kinetic study of phospory lation

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Hydrazides and their derivatives of the general formula 0R-C-NE-NH2 have important applications as monoamino oxidaseinhibitor (M.O.A.I.) acd form a new class of therapeutic agent in the treatment of mental depression beside their toxiphoric character.OrganophoophoruS compounds are toxic because of their inhibition for cholinesterase enzyme. The aim of the present work is to synthesize organo-phosphorus hydrazides having expected M.O.A.I. and which may have important biological applications.Phosphorus hydrazides were prepared from phosphoramide through a new technique by treating the latter with tertiary butyl hypochlorite ae 8 chlorinating agent where N-chloramide derivatives obtained were rearranged through the treatment with alkali alkoxide. this reaction was generalised to be a new type of rearrangement and the mechanism of this react-ion is discussed. The process of rearrangement could be illustrated by the following equation.