

## Reaction of o,o-diisopropyl dithiophosphate with nitriles of carboxylic acids

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### Abstract

The interaction of O,O-diisopropyl dithiophosphate with benzonitrile, phenylacetoneitrile, adipodinitrile, and ethyl cyanoacetate proceeds with the formation of unstable imidoaldithiophosphates, which are capable of being rearranged to form the corresponding phosphorylated thioamides. The further course of the reaction is associated with the splitting of the P-N-C or P-S-C bonds in the N-(O,O-diisopropylthiophosphonyl)thioamides and probably of the imidoaldithiophosphates under the action of a second molecule of the dithio acid. © 1979 Plenum Publishing Corporation.

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