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Reaction of diethyl phosphorisocyanatidite with 3,4-dichloro-5-hydroxy-2(5H)-furanone

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Abstract

Reaction of diethyl phosphorisocyanatidite with 3,4-dichloro-5-hydroxy-2(H)-furanone (mucochloric acid) is accomplished by mixing the reagents and leads to a bicyclic phosphonamidate. The highly reactive isocyanato substitution at the σ_3 -phosphorus atom permits one to effect cyclization after the first stage of the Arbuzov reaction and thus much extend the synthetic potential of phosphorylation of mucochloric acid derivatives.
