

Reaction of dimethyl phosphite and monomethyl phenylphosphonite with 2-methyl-3,4,5-triphenylcyclopentadienone

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Abstract

In the absence of catalysts, the reaction of dimethyl phosphite and monomethyl phenylphosphonite with 2-methyl-3,4,5-triphenylcyclopentadienone goes with the formation of unconjugated β -phosphonoketones, which under the reaction conditions undergo prototropic isomerization to the conjugated β -phosphonoketones. In contrast to alcohols, dimethyl phosphite and monomethyl phenylphosphonite when reacted with the tricyclone do not form the products of 1,4-addition to the conjugated C=C=O system of the cyclone. © 1980 Plenum Publishing Corporation.

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