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The reaction of stable sulfonium ylides of dimedone with triphenylphosphine

Arbuzov B., Belkin Y., Polezhaeva N., Yudina T.
Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia

Abstract

1. Triphenylphosphine demethylates 2-(methylphenylsulfuranylidene)-5,5-dimethylcyclohexane-1, 3-dione to form methyltriphenylphosphonium 2-(phenylthio)-5,5-dimethylcyclohexane-1,3-dione (IV). 2. Compound (IV) readily undergoes anion-exchange reactions with NaBPh₄, MeI, moist SO₂ (gas), dry HCl, and Me₂SO₄. 3. Dimethyl- and dibenzylsulfonium ylides of dimedone are desulfurized and deoxygenated by triphenylphosphine. © 1978 Plenum Publishing Corporation.

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