## Efficient Synthesis of Succinate Derivatives using Mercaptoalkanols or Mercaptophenols

Rahimeh Hajinasiri<sup>a</sup>, Zinatossadat Hossaini<sup>a</sup>, Faramarz Rostami-Charati<sup>b</sup>, Roghaye Mirzaie<sup>a</sup>, and Sara Ahmadpoor<sup>a</sup>

 <sup>a</sup> Chemistry Department, Qaemshahr Branch, Islamic Azad University, Qaemshahr, I. R. Iran
<sup>b</sup> Department of Chemistry, Facualty of Science, Gonbad Kavous University, P. O. Box 163, Gonbad, I. R. Iran

Reprint requests to Dr. Rahimeh Hajinasiri. Tel.: +981232145117. E-mail: rhmhajinasiri@yahoo.com

Z. Naturforsch. 2012, 67b, 154-158; received January 8, 2012

A one-pot synthesis of dialkyl 2-(diphenoxyphosphoryl)-3-[hydroxy (alkyl)(aryl) sulfanyl] succinate derivatives *via* the reaction between dialkyl acetylenedicarboxylates, triphenyl phosphite and mercaptoalkanols or mercaptophenols is described. These reactions lead to the formation of dialkyl 2-(diphenoxyphosphoryl)-3-[hydroxy (alkyl)(aryl) sulfanyl] succinates as a mixture of two diastereomers without using any catalyst and in good yields.

*Key words:* Triphenyl Phosphite, Dialkyl Acetylenedicarboxilates, Mercaptoalkanol, Mercaptophenols