

Synthesis and X-ray single crystal structure of dialkyl 2-[1-(2,2-dimethylpropionyl)-3,3-dimethyl-2-oxobutyl]-3-(triphenylphosphoranylidene)succinates.

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Streszczenie

A one-pot synthesis of sterically congested phosphorus ylides in fairly high yields by the reaction of 2,2,6,6-tetramethyl-3,5-heptanedione, dialkyl acetylenedicarboxylates and triphenylphosphine is reported. The structures of these compounds were confirmed by IR, ¹H, ³¹P and ¹³C NMR spectroscopy, and X-ray single crystal structure determination. The NMR spectra (CDCl₃ as solvent) indicated that the compounds contained two rotamers for each ylide.

Słowa kluczowe

molecule, structure elucidation, 6-Tetramethyl-3, 5-heptanedione, Phosphorus Ylide, Acetylenic Ester, Vinyltriphenylphosphonium Salts

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