

Triphenylphosphine in reactions with ω -haloalkylcarboxylic acids

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Abstract

© 2016 Taylor & Francis Group, LLC. Stable phosphonium salts were synthesized by the phosphorylation of a series of ω -haloalkylcarboxylic acids with triphenylphosphine. In a second step the resulting phosphonium salts have been treated with 1 M aqueous solution of sodium hydroxide to form the corresponding carboxylate phosphobetaines. The structure of the isolated compounds was determined by IR and NMR spectroscopy, elemental analysis, and X-ray crystallographic studies. Their thermal stability was studied by simultaneous thermogravimetry and differential scanning calorimetry.

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Keywords

Phosphonium salts, triphenylphosphine, ω -haloalkylcarboxylic acids