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Synthesis and properties of phosphobetaine structures: III. Phosphobetaines derived from tertiary phosphines and α,β -unsaturated carboxylic acids. Synthesis, structure, and chemical properties

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Abstract

Methods of synthesis of acylate phosphobetaines by reactions of triphenylphosphine with methacrylic, cinnamic, and p-methoxycinnamic acids are developed. The phosphobetaine form is proposed to exist in equilibrium with the (σ^5 -oxaphospholane form. The features of methylation of the phosphobetaines are discussed.

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