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β-Keto phosphonic esters - Communication 11. Action of diazomethane on diethyl acetyl- and benzoylphosphonates

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Abstract

1. By the reaction of diazomethane with diethyl acetylphosphonate diethyl 1,2-epoxy-1-methylethylphosphonate and a little diethyl acetonylphosphonate were obtained. 2. Diethyl 1,2-epoxy-1-methylethylphosphonate was obtained also by the oxidation of diethyl isopropenylphosphonate with peroxyacetic acid. 3. By the reaction of diazomethane with diethyl benzoylphosphonate diethyl phenacylphosphonate was obtained. 4. The addition of phosphorus pentachloride to α -ethoxystyrene gave β -ethoxystyrylphosphonic dichloride, which was converted into diethyl β -ethoxystyrylphosphonate. Hydrolysis of the latter gave diethyl phenacylphosphonate. © 1964 Consultants Bureau Enterprises, Inc.

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