

Bulletin of the Academy of Sciences, USSR Division of Chemical Science 1963 vol.12 N8, pages 1257-1264

β -Keto phosphonic esters Communication 12. Structures of the products of the reaction of some α -halo ketones of the aromatic series with triethyl phosphite and with sodium diethyl phosphite

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Abstract

1. According to chemical and spectroscopic data the product of the reaction of 2-bromoacetophenone with sodium diethyl phosphite is a difficultly separable mixture of esters of similar structure, namely diethyl 1-phenylvinyl phosphate and diethyl 1,2-epoxy-1-phenylethylphosphonate. 2. The product of the action of 2-bromopropiophenone on sodium diethyl phosphite is diethyl 1,2-epoxyphenylpropylphosphonate. 3. The reaction of 2-bromopropiophenone with triethyl phosphite gave diethyl 1-methylphenacylphosphonate and diethyl 1-phenylpropenyl phosphate. 4. The reactions of 2-bromo-2-methylpropiophenone, in which the bromine is on a tertiary carbon atom, with triethyl phosphite and with sodium diethyl phosphite take the same direction with formation of diethyl 2-methyl-1-propenyl phosphate. © 1964 Consultants Bureau.

<http://dx.doi.org/10.1007/BF00847793>
