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Electrochemical Reduction of Methyl Cinnamate in the Presence of 1,3-Bis(4-methyl phenylsulphonyloxy)propane

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Abstract: Electrochemical reduction of methyl cinnamate in the presence of a dielectrophile, such as 1,3-bis(4-methyl phenylsulphonyloxy)propane gives two major products: trans- (λ pm) methyl 2-phenylcyclopentanecarboxylate and trans- (λ pm) methyl 2,3-diphenyl-5-oxo-cyclopentanecarboxylate. The ratio of products basically depends on the electrolysis conditions.

Key Words: Methyl cinnamate, electrochemical reduction, cyclisation.



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