

Reaction of Fluoro-containing 3-Oxoesters with Benzaldehyde*

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Received November 22, 2000

Abstract - Depending on conditions, fluorinated 3-oxoesters in reactions with benzaldehyde afford either 2-benzylidene-3-fluoroalkyl-3-oxoesters or 3,5-dialkoxycarbonyl-2,6-dihydroxy-2,6-difluoroalkyl-4-phenyl-tetrahydropyrans. The latter were also obtained by treating 3-oxoesters with 2-benzylidene-3-oxoesters. Pentafluorobenzoylacetate with benzaldehyde furnishes 3,5-diethoxycarbonyl-2-pentafluorophenyl-4-phenyl-7,8,9,10-tetrafluoro-4,5-dihydrobenzo[b]oxacin-6-one.