D. DONATI, C. MORELLI, M. TADDEI* (UNIVERSITA DEGLI STUDI DI SIENA, ITALY)

A Rapid Microwave-Assisted Utilizing the Mukaiyama Supported Reagent

Tetrahedron Lett. **2005**, 46, 2817-2819.

A Rapid Microwave-Assisted Esterification Utilizing the Mukaiyama Supported Reagent

Significance: The esterifications of seven alcohols and six carboxylic acids were found to proceed very smoothly in the presence of 2-chloro-1-methylpyridinium iodide (the so-called Mukaiyama reagent) supported on polystyrene resin with the aid of microwave heating. All reactions were performed at 80 °C for 4–18 minutes in CH_2Cl_2 and Et_3N to give high yields (64–96%) of the esters via simple filtration of resin (20 examples).

Comment: The authors have recently reported the synthesis of the polymer-supported Mukaiyama reagent (*J. Org. Chem.* **2004**, 69, 9316–9318).

SYNFACTS Contributors: Yasuhiro Uozumi, Yoichi M. A. Yamada, Takayasu Arakawa

Synfacts 2005, 0, 0086-0086

DOI: 10.1055/s-2005-869886; Reg-No.: Y00805SF

2005 © THIEME STUTTGART • NEW YORK