2004 Pyridine derivatives

Pyridine derivatives

R 0380

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The Vinylogous Mannich Reaction: An Efficient Access to Substituted Nicotinonitriles. — A variety of highly substituted title compounds is prepared by the cyclocondensation of β-enaminonitriles with iminium salts. In the case of salt (IX), the product structure depends on the substitution pattern of the starting nitrile. — (WINTER, A.; RISCH*, N.; Synlett 2003, 13, 1959-1964; Fac. Nat. Sci., Univ. Paderborn, D-33095 Paderborn, Germany; Eng.) — Mais

A): CHCl₃, reflux

IV — Me CI- O-Et (VII) NC NC A), [5 h]

VIII
a 15%

b 22%

Ic
$$\frac{\text{Me} + \text{Me} + \text{CI} - \text{(IX)}}{\text{B}}$$

$$E: -\text{CO} - \text{O} - \text{Et}$$

$$X 34%$$

B): CH_2CI_2 , $0^{\circ}C$ -> reflux, [15 h]