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Solvent-Free Oxidations of Alcohols, Oximes, Aldehydes and Cyclic Acetals by Pyridinium Chlorochromate

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Abstract

Oxidative transformations of alcohols, oximes and cyclic acetals to carbonyl compounds proceed efficiently by pyridinium chlorochromate (PCC) under solvent-free conditions. The oxidation of aromatic and cinnamyl aldehydes to carboxylic acids, which does not occur by PCC in solution, is achieved satisfactorily in the absence of solvent.

Key words

oxidations - alcohols - aldehydes - acetals - pyridinium chlorochromate

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