



Acetylation of Phenols, Alcohols and Amines Catalyzed by Mono Ammonium Salt of 12-Tungstophosphoric acid under Ambient Conditions

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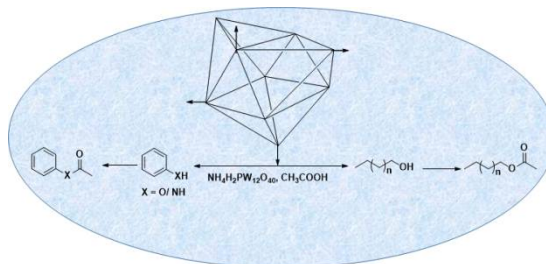
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ABSTRACT

A simple, highly rapid and efficient method is developed for the acetylation of phenols, alcohols and amines with excellent yield using monoammonium salt of 12-Tungstophosphoric acid $[(NH_4)H_2PW_{12}O_{40}]$ as a solid phase catalyst under ambient conditions. The salient features of this hetero polyacid catalyst are simple workup procedure, short reaction time, insoluble both in protic and aprotic solvents, high yield and reusable nature.

Graphical Abstract



Hilights

- Acetylation of alcohols, phenols and anilines in the presence of monoammonium salt of tungstophosphoric acid $[(NH_4)H_2PW_{12}O_{40}]$.
- Very easy to separate catalyst and products
- Obtained pure products with high yields.
- Catalyst is recycled for five times and yield of the products marginally varied from the first to fifth cyclic process.

Keywords: Acetylation, Monoammonium Salt of 12-Tungstophosphoric Acidcatalyst, Ambient conditions.