



SBA-15 with sulfonic acid groups as a *Green Catalyst* for the acetoxylation of α -pinene

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ARTICLE INFO

Article history:

Received 13 June 2012

Accepted 10 July 2012

Available online 20 July 2012

Keywords:

Acetoxylation

α -pinene

SBA-15

Sulfonic acid groups

ABSTRACT

The acetoxylation of α -pinene was carried out over SBA-15 with sulfonic acid groups. The products of acetoxylation of α -pinene are acetates (α -terpinyl acetate, bornyl acetate and β -fenchyl acetate) and hydrocarbons (camphene, tricyclene, limonene, γ -terpinene, terpinolene and α -terpinene).

Catalysts with different amount of sulfonic acid groups were prepared. It was observed that the activity increases with increase of the surface area and porous volume.

Catalytic stability of the sample that showed the highest activity (C1) was evaluated by performing consecutive batch runs with the same catalyst sample. After the fifth batch, the catalyst exhibited a good initial activity.

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