عنوان مقاله:

Nanocatalyst based on heteropolyacid supported on clay as catalyst for the synthesis of 3,4-dihydropyrimidin-2(1H)-ones/thiones under solvent-free conditions

محل انتشار:

اولین همایش ملی تکنولوژی های نوین در شیمی و پتروشیمی (سال: 1393)

تعداد صفحات اصل مقاله: 8

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خلاصه مقاله:

A simple and efficient synthesis of 3,4-dihydropyrimidin-2(1H)-ones or 3,4-dihydropyrimidin-2(1H)-thiones is described, using 20% w/w Cs2.5H0.5PW12O40/K-10 as a solid acidcatalyst from an aldehyde, 1,3-dicarbonyl compound, and urea or thiourea at 80 °C under solvent-freeconditions. Short reaction times, high yields, easy work-up, use of environmentally friendly catalyst and absence of organic solvents makes this method efficient and environmentally benign

کلمات کلیدی:

Biginelli reaction, solid acid catalyst, 3,4-dihydropyrimidin-2(1H)-ones, solvent-free condition,heteropolyaci d