

## **Ag Nanoparticle/Melamine Sulfonic Acid Supported on Alumina: Efficient Catalytic System in Synthesis of Dihydropyrimidines**

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**Abstract :** 3,4-dihydropyrimidin-2(1H)-thiones were synthesized in the presence of Ag nanoparticle/melamine sulfonic acid (MSA) supported on alumina. The reaction was carried out at 110 oC for 20 min under solvent free conditions. This method have some advantages such as good yield, mild reaction conditions, ease of operation and work up, short reaction time and high product purity.

**Keywords :** nanoparticle melamine sulfonic acid, Al<sub>2</sub>O<sub>3</sub>, Biginelli reaction, 3,4-dihydropyrimidin-2(1H), solvent free

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