## Phosphorous Acid: An Efficient and Recyclable Liquid Catalyst for the Synthesis of α-Aminophosphonates

Authors : Hellal Abdelkader, Chafaa Salah, Touafri Lasnouni

Abstract : A simple, efficient and general method has been developed for the high diastereoselective synthesis of diethyl  $\alpha$ -aminophosphonates in water through "one-pot" three-component reaction of aromatic aldehydes, aminophenols and dialkyl phosphites in the presence of a low catalytic amount (10mol%) of phosphorous acid as highly stable catalyst is described. Keywords : DFT, HOMO-LUMO, phosphonic acid, aminophenols

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1