

Efficient Synthesis of Calix[4]Pyrroles Catalyzed by Powerful and Magnetically Recoverable Fe₃O₄ Nanoparticles

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Abstract : The magnetic Fe₃O₄ nanoparticles has been used as an efficient and facile acid catalyst for the synthesis of calix[4]pyrrole in moderate to excellent yields by the one pot condensation of different ketones and pyrrole. The catalyst was easily recovered using external magnet and reused over several cycles without losing its catalytic activity.

Keywords : calix[4]pyrrole, magnetic, Fe₃O₄ nanoparticles, catalysis

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