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A truly green synthesis of α-aminonitriles via Strecker reaction

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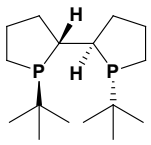
The classical Strecker reaction is one of the manageable and most economical methods for the synthesis of racemic α-aminonitriles (precursor of α-amino acids) and pharmacologically useful compounds. Indium powder in water is shown to act as a very efficient catalyst for one-pot, three-component synthesis of α-aminonitriles from diverse amines, aldehydes and TMSCN. This general rapid method is applicable to a wide range of amines and aldehydes and produces products in excellent yield. The present one-pot, three-component environmentally benign procedure for the synthesis of α-aminonitriles will find application in the synthesis of complex biologically active molecules.



(*S,S',R,R'*)-TangPhos

Biography

Juliana M Velazquez is actively pursuing her PhD/MD, after successfully completing her honorable Chemistry degree from University of Texas Pan American in an underserved community in the Rio Grande Valley. She was granted several publications in reputed journals, such as the "Organic and Medicinal Chemistry Letters" under the mentorship and guidance of Dr. B.K. Banik, President's endowed professor. Her future Post-doctoral studies from Baylor School of Medicine will focus in anticancer β-Lactams. For three consecutive years, she served as president of the Chemistry Honor Society, a premier student research organization with primary role as Editorial Board Member for peer reviews. She was recently granted a prestigious position at the department of Stem Cell Transplantation and Cellular Therapy Center at MD Anderson Cancer Center in Houston Texas and will continue conducting various research projects.

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