Preparation and use of alfa-hydrogen substituted nitroxyls as catalysts (Technion)

code: CHM-1399

The synthesis of ketones and aldehydes is an ubiquitous process in industrial and academic preparation of organic compounds (drugs, fragrances, food additives, etc.). This new and innovative stable nitroxyl compound can be prepared in racemic form in only 5 chemical steps from cheap and environmentally-friendly starting materials. This compound catalyzes oxidation of primary and secondary alcohols to ketones and aldehydes rapidly, efficiently and at room temperature. This compound allows for the synthesis of a wide range of alcohol derivatives without creating byproducts laden with heavy metals.

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