**Synthesis, Characterization and Applications of Enamines in [2+2] Cycloaddition**

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Enamines are unsaturated compounds that are nitrogen analogs of enols. The secondary amines (diethylamine and pyrrolidine) react with carbonyl compounds (acetophenone) to give enamines. Further a variety of enamines react with electrophilic olefins undergoing [2+2] cycloaddition to give cyclobutane derivatives. The products are then analysed by using IR, 1H NMR and 13C NMR studies.

**Keywords**: Enamines, [2+2] cycloaddition, electrophilic olefins.





**References:** Bahamonde,A.; Melchiorre,P.; Photochemical activity of enamines; *J. Am. Chem. Soc.,* **2016**, 51.