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Compounds containing active methylene groups: Introduction, Keto-enol tautomerism, acidic character of such compounds

Preparation and Application towards the synthesis of monocarboxylic acid, dicarboxylic acid, keto acids, ketones, diketones, Unsaturated acids, heterocyclic compounds etc. of aceto acetic ester and malonic ester.

Organometallic Compounds:

Grignards' Reagent: Preparation, Reaction of compounds containing active hydrogen, carbonyl compounds, epoxides, carbon dioxide, nitriles, oxygen, sulphure, carbon disulphide, sulphure dioxide, iodine, inorganic halides, alkyl halides, α -unsaturated carbonyl compounds.

Organolithium compounds: Preparation, Reaction of compounds containing active hydrogen, carbonyl compounds, alkenes, carbon dioxide, nitriles, electrophilic displacement, nucleophilic displacement, α -unsaturated carbonyl compounds.

Heterocyclic Compounds: Introduction, Structure and aromaticity, Preparation and properties of Five membered Heterocyclic compounds(Pyrrole, Furan and Thiophene), Six membered Heterocyclic compounds(Pyridine) and fused Heterocyclic system(Quinoline)