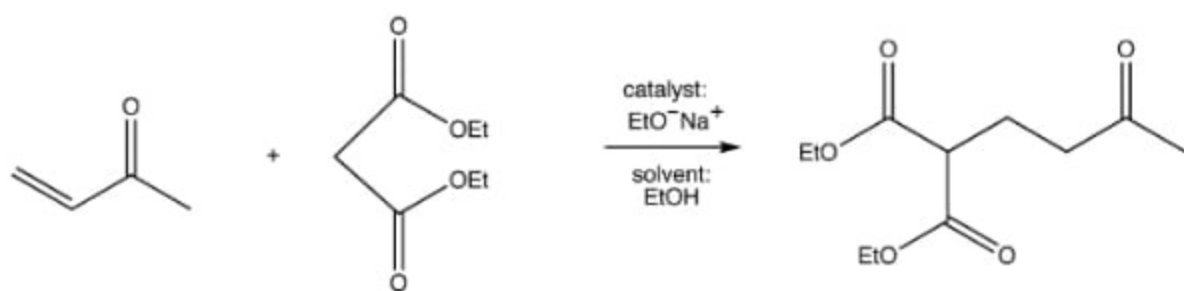


## MICHAEL ADDITION REACTION

1,4-Addition reactions of  $\alpha, \beta$ -unsaturated carbonyl compounds and  $\alpha, \beta$ -unsaturated nitriles with resonance-stabilized carbon nucleophiles, such as enolate ions and enamines, are known as Michael addition. The  $\alpha, \beta$ -unsaturated compounds undergoing Michael addition is called the Michael acceptor, the nucleophile Michael donor, and the product Michael adduct.

eg:



mechanism:

