

SURVEY IN GRINGARD REAGENT

NAGHAM MAHMOOD ALJAMALI

Organic Chemistry, Department of Chemistry, College of Education, Iraq

ABSTRACT

A Grignard reagent has a formula RMgX where X is a halogen, and R is an alkyl or aryl (based on a benzene ring) group. We have briefly discussed converting alkenes to alkanes; alkanes to alkyl halides; alkyl halides to alcohols; alcohols to ethers, aldehydes, or ketones; and aldehydes to carboxylic acids. We have also shown how carboxylic acids can be converted into esters and amides.

KEYWORDS: Grignard, Reagent, Aldehyde, Synthesis, Organometallic, Magnesium