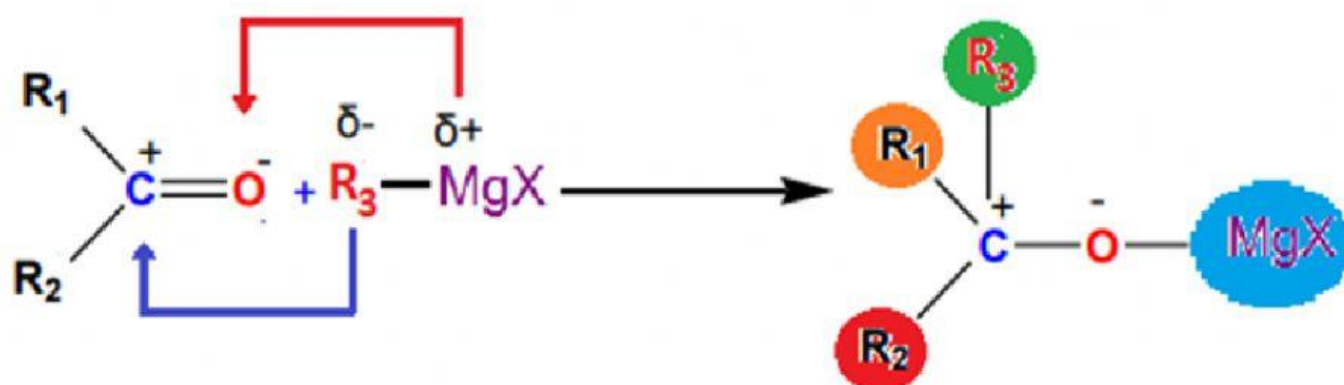


ΦΥΛΛΟ ΕΡΓΑΣΙΑΣ ΣΤΗΝ ΠΑΡΑΣΚΕΥΗ ΑΛΚΟΟΛΩΝ
ΜΕ ΤΗ ΜΕΘΟΔΟ ΑΝΤΙΔΡΑΣΤΗΡΙΩΝ GRIGNARD

ΟΝΟΜΑ

ΕΠΙΘΕΤΟ

ΜΗΧΑΝΙΣΜΟΣ ΠΡΟΣΘΗΚΗΣ ΣΤΟ ΚΑΡΒΟΝΥΛΙΟ

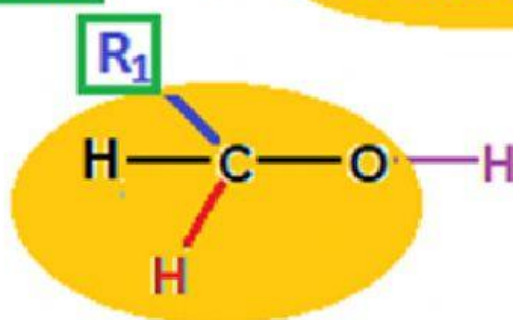


ΠΑΡΑΣΚΕΥΗ ΠΡΩΤΟΤΑΓΩΝ ΑΛΚΟΟΛΩΝ

GRIGNARD

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ΦΟΡΜΑΛΔΕΥΔΗ



GRIGNARD

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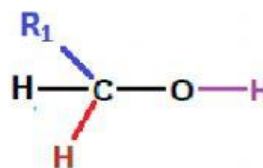
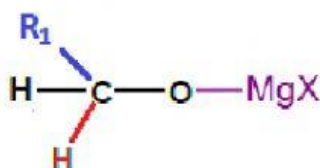
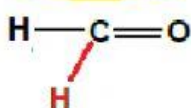
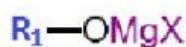
ΦΟΡΜΑΛΔΕΥΔΗ



ΕΝΔΙΑΜΕΣΟ



ΠΡΩΤΟΤΑΓΗΣ ΑΛΚΟΟΛΗ



Παρασκευή
 $CH_3 - CH_2 - OH$

GRIGNARD

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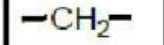
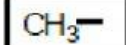
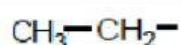
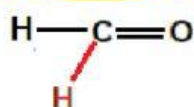
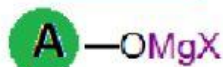
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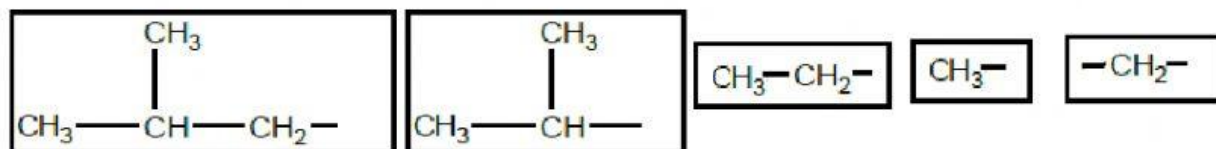
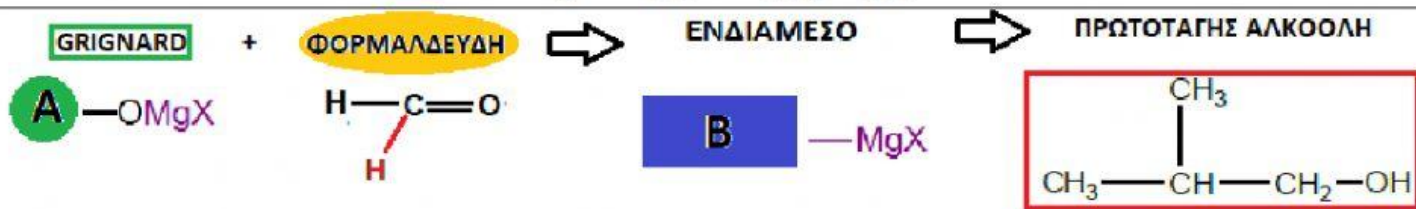
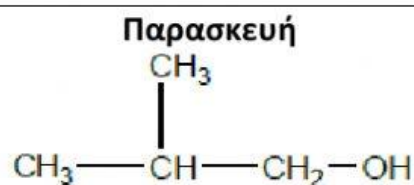


ΕΝΔΙΑΜΕΣΟ



ΠΡΩΤΟΤΑΓΗΣ ΑΛΚΟΟΛΗ

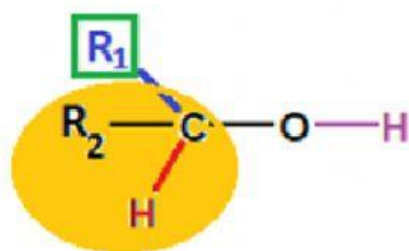




ΠΑΡΑΣΚΕΥΗ ΔΕΥΤΕΡΟΤΑΓΩΝ ΑΛΚΟΟΛΩΝ

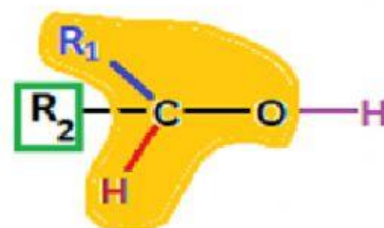
Α ΤΡΟΠΟΣ

GRIGNARD + ΑΛΔΕΥΔΗ



Β ΤΡΟΠΟΣ

GRIGNARD + ΑΛΔΕΥΔΗ



Παρασκευή

