

CHEM – 647

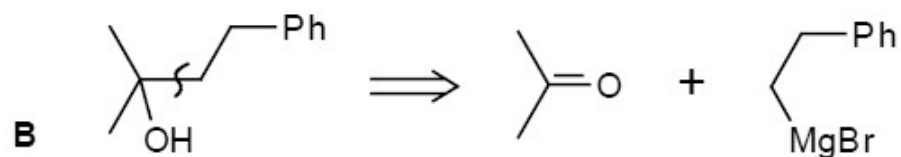
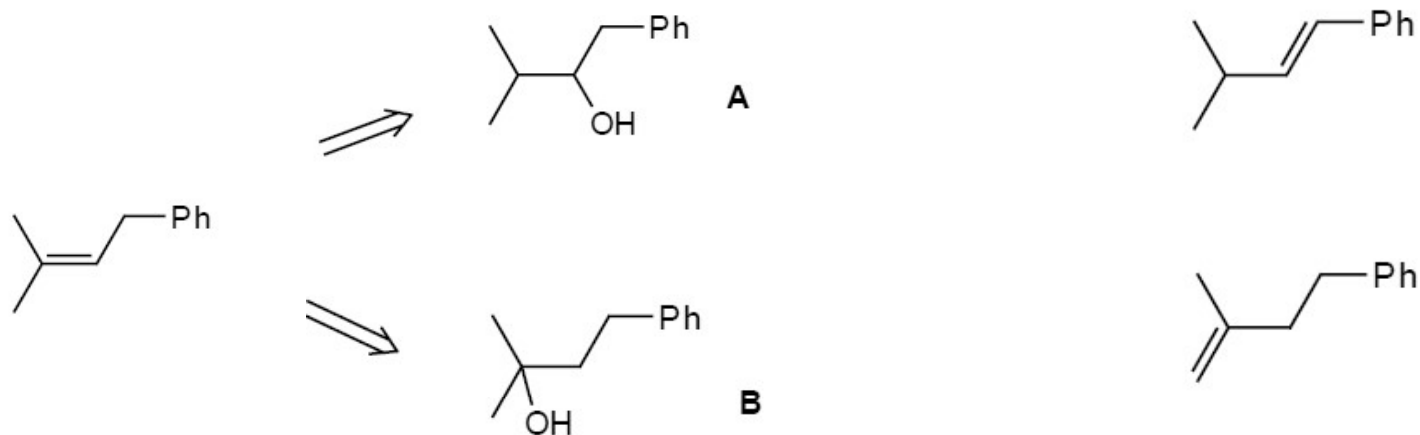
Organic synthesis



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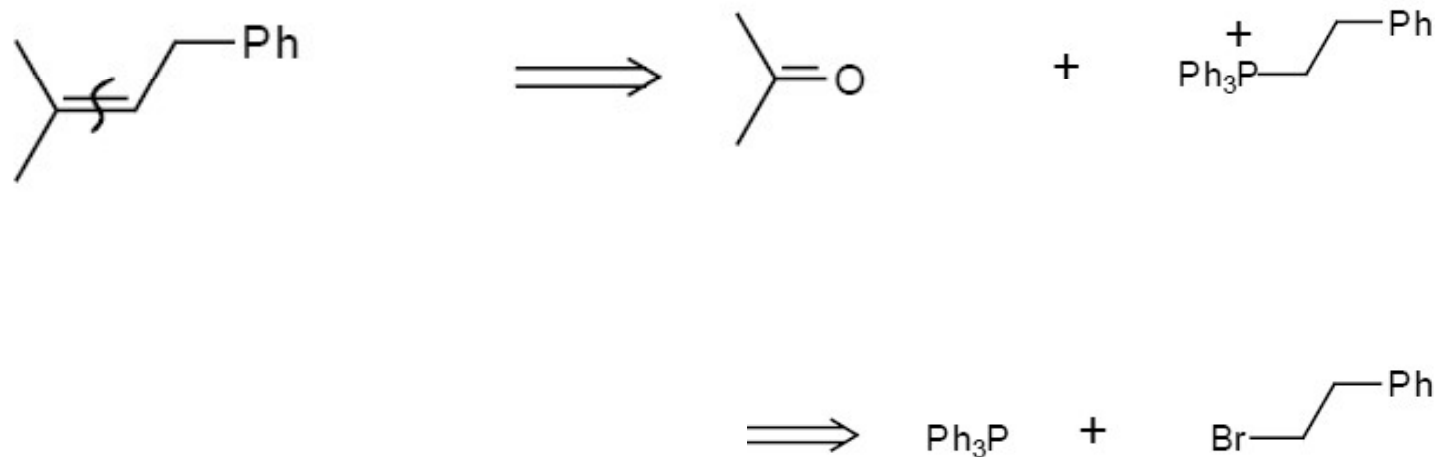
DISCONNECTIONS OF ALKENES





DISCONNECTIONS OF ALKENES

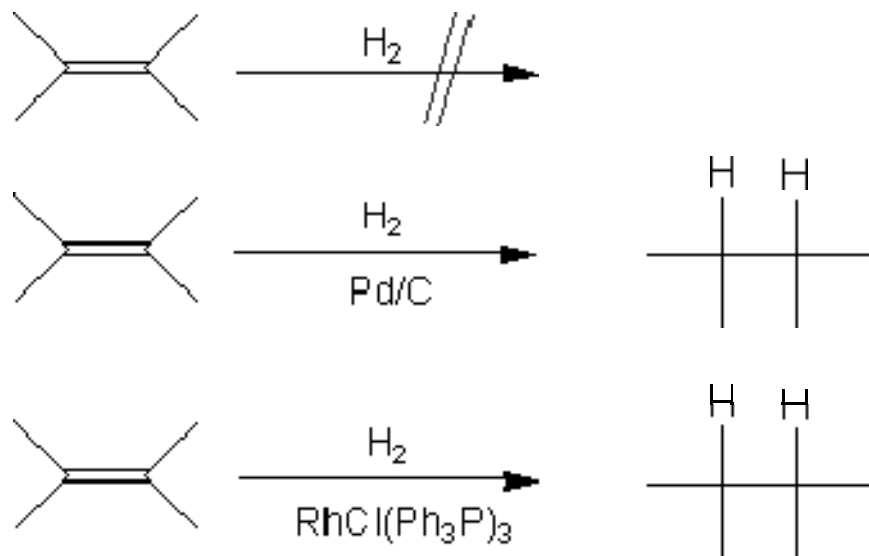
Wittig reaction





DISCONNECTIONS OF

saturated hydrocarbons



Heterogeneous catalysts such as Pd or Pt on activated carbon

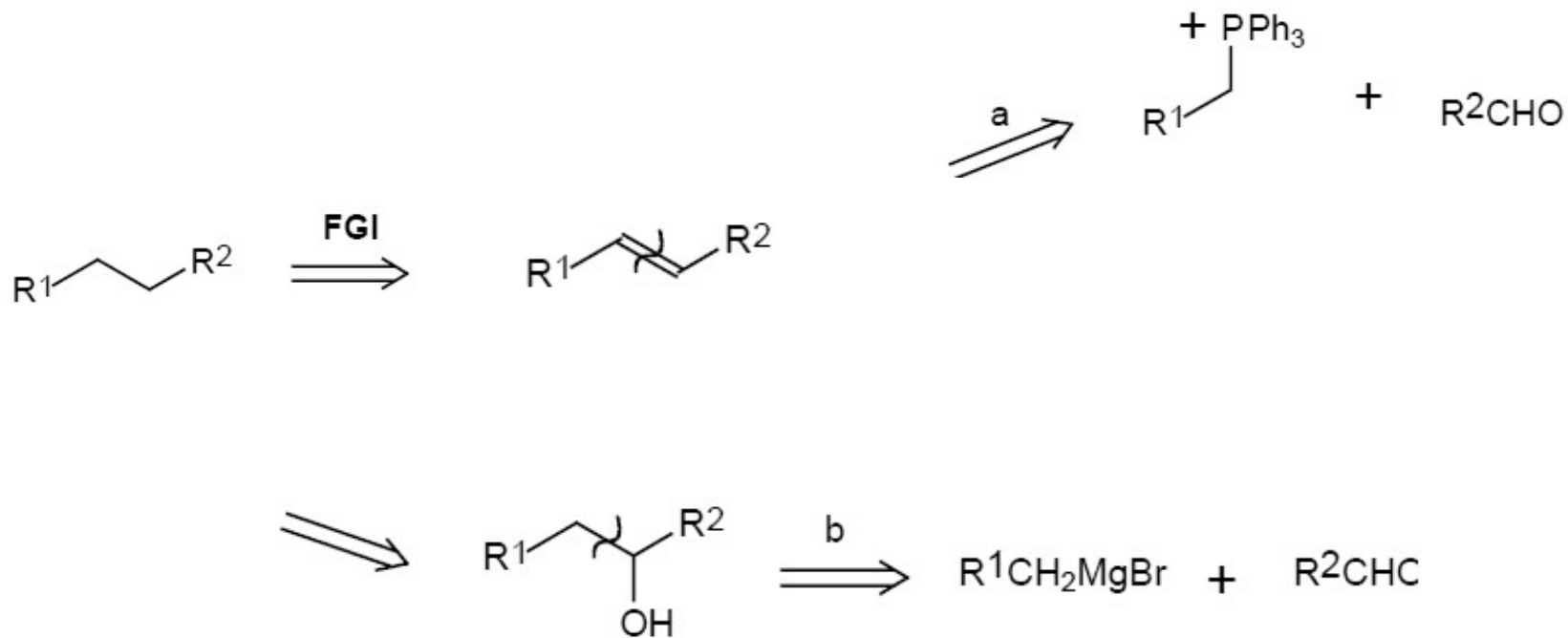
Homogeneous catalysts *e.g.* the Wilkinson's catalyst

chlorotris(triphenylphosphine)rhodium(I), $RhCl(Ph_3P)_3$



DISCONNECTIONS OF

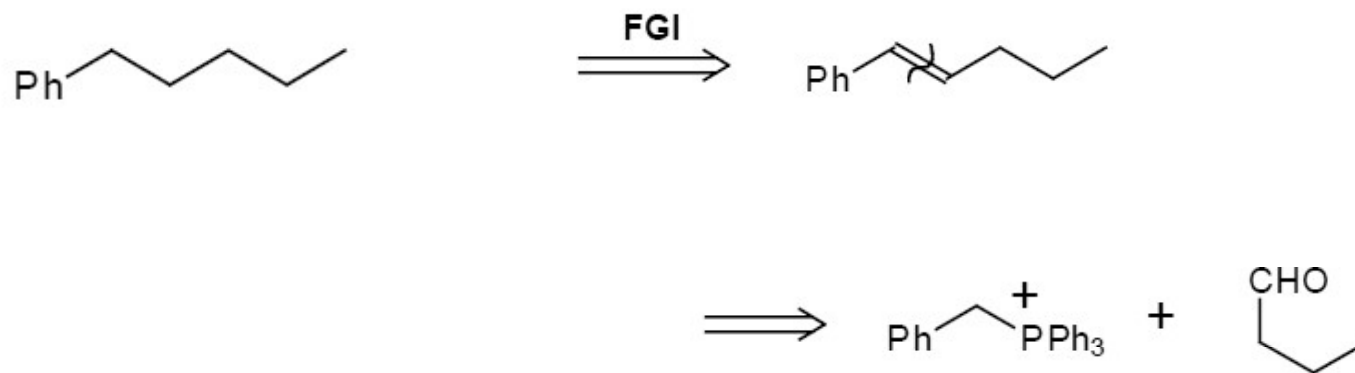
saturated hydrocarbons



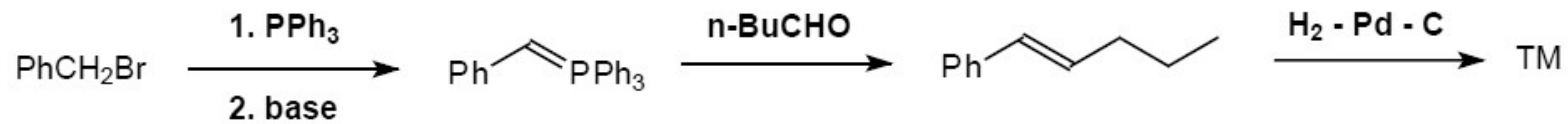


DISCONNECTIONS OF

saturated hydrocarbons



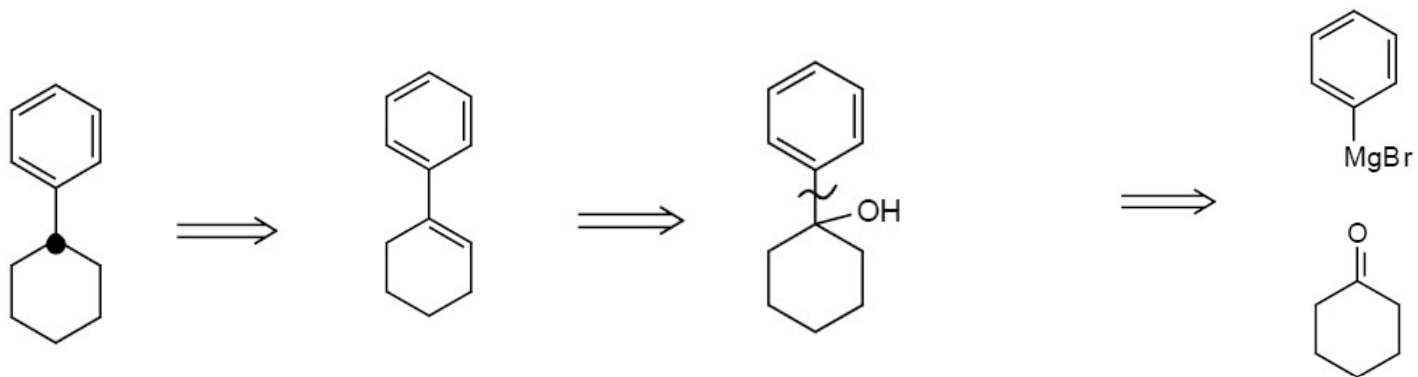
Synthesis:



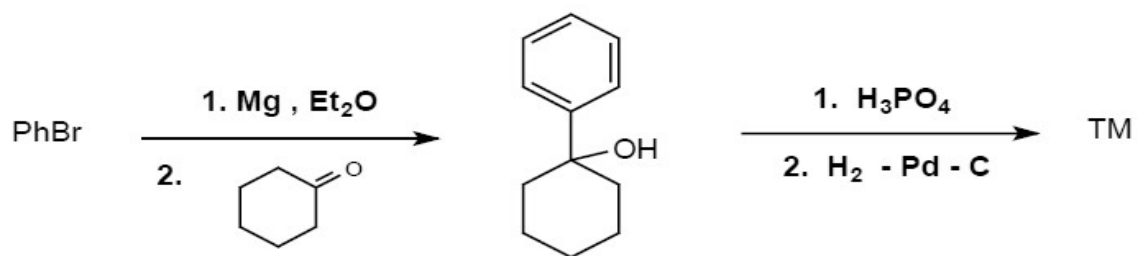


DISCONNECTIONS OF

saturated hydrocarbons



Synthesis:





DISCONNECTIONS OF

saturated hydrocarbons

Exercise

Attempt all possible disconnections of given molecules.
Write the synthesis from the best route.

