

SUBJECT - CHEMISTRY

CLASS - B.Sc (Hons) PART - II

PAPER - IV GROUP - B

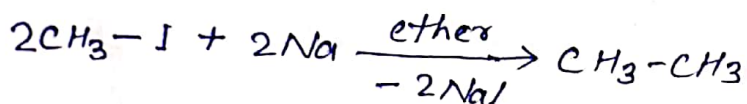
TOPIC - Wurtz reaction:

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Wurtz reaction:

The reaction of two same or different alkyl halides in presence of Na in pure and dry ether to give a higher alkane is called Wurtz reaction -



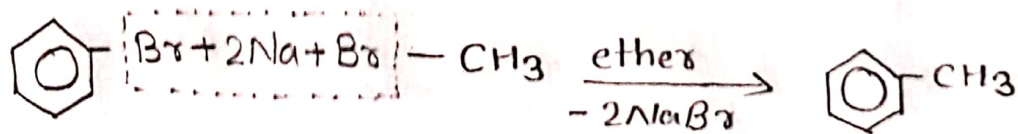
This reaction affords a unique method for the preparation of heavy alkanes at the cost of lighter ones.

Mechanism



methyl radical

The reaction of an aryl halide with another aryl or alkyl halide in presence of Na in pure dry ether to give an aromatic hydrocarbon is called Wurtz-Fittig reaction -



toluene

These reactions are used in ascending the homologous series.