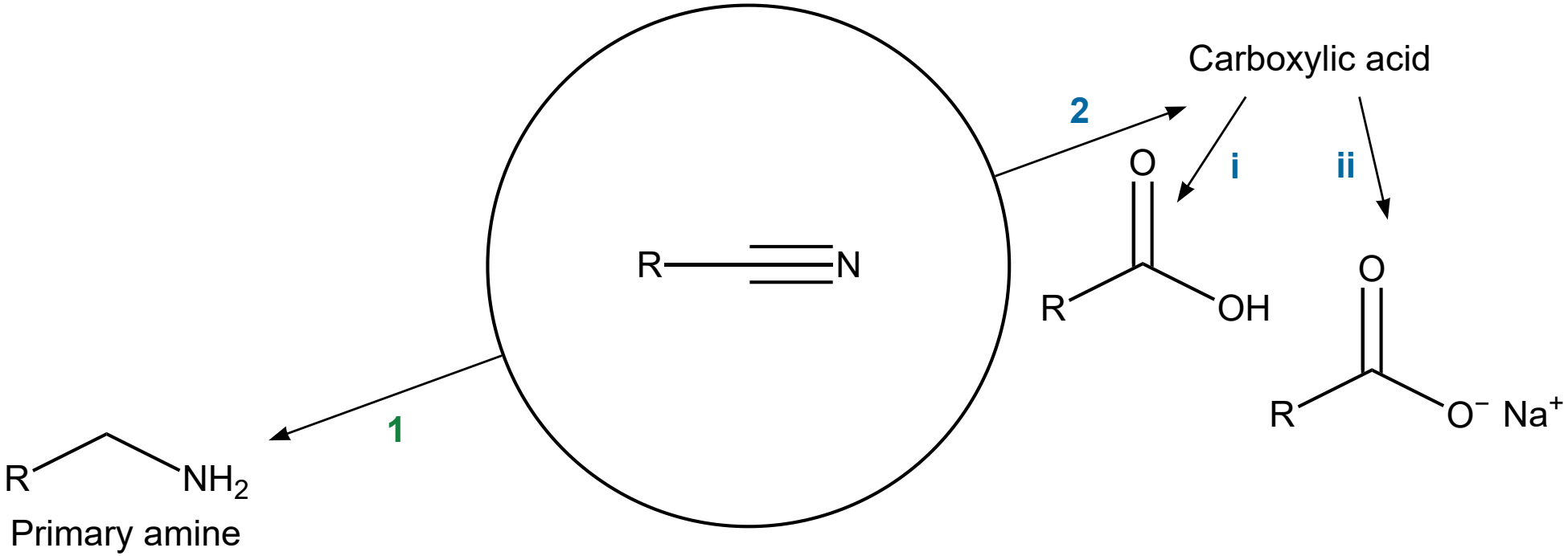
Nitriles Map

Edexcel A Level Chemistry · Topics 17C and 18B



1 reduction: [H]; $LiAlH_4$ in dry ether, then water, or H_2/Ni, heat and pressure

2 hydrolysis: heat under reflux
i dilute acid → carboxylic acid
ii NaOH(aq) → carboxylate salt

Nitriles come from halogenoalkanes + KCN in ethanol (chain + 1 C); hydroxynitriles from carbonyls + HCN/KCN.

reduction hydrolysis

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