

Chem 345 – Organic Reactions

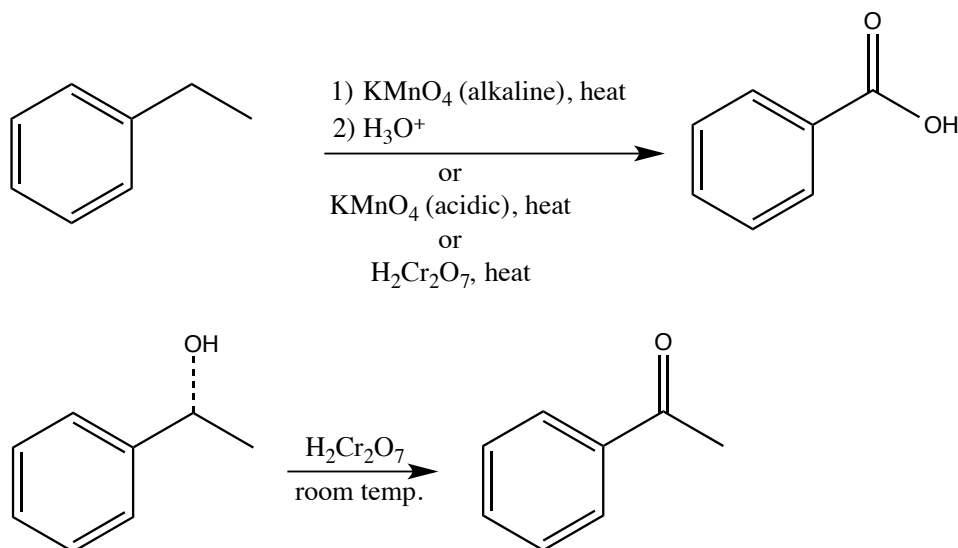
Chapter 17

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<http://www.chem.wisc.edu/areas/clc> (Resource page)

Oxidation of Alkylbenzene Compounds #1

Reactions:



Under strong oxidizing conditions alkylbenzene – relatively short chains - with benzylic protons can be oxidized to carboxylic acids. Conditions require vigorous oxidation, which are: strong oxidant, high concentration of oxidant, heat, and long reaction times. Under milder conditions you can get a benzylic alcohol to be converted to a ketone, as shown above.