

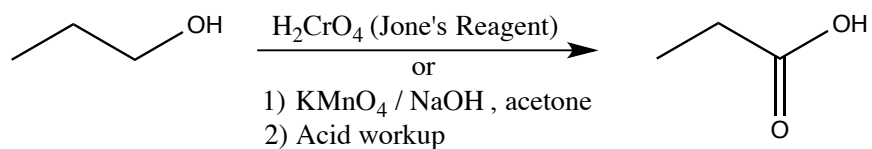
Chem 343 – Organic Reactions

Chapter 10

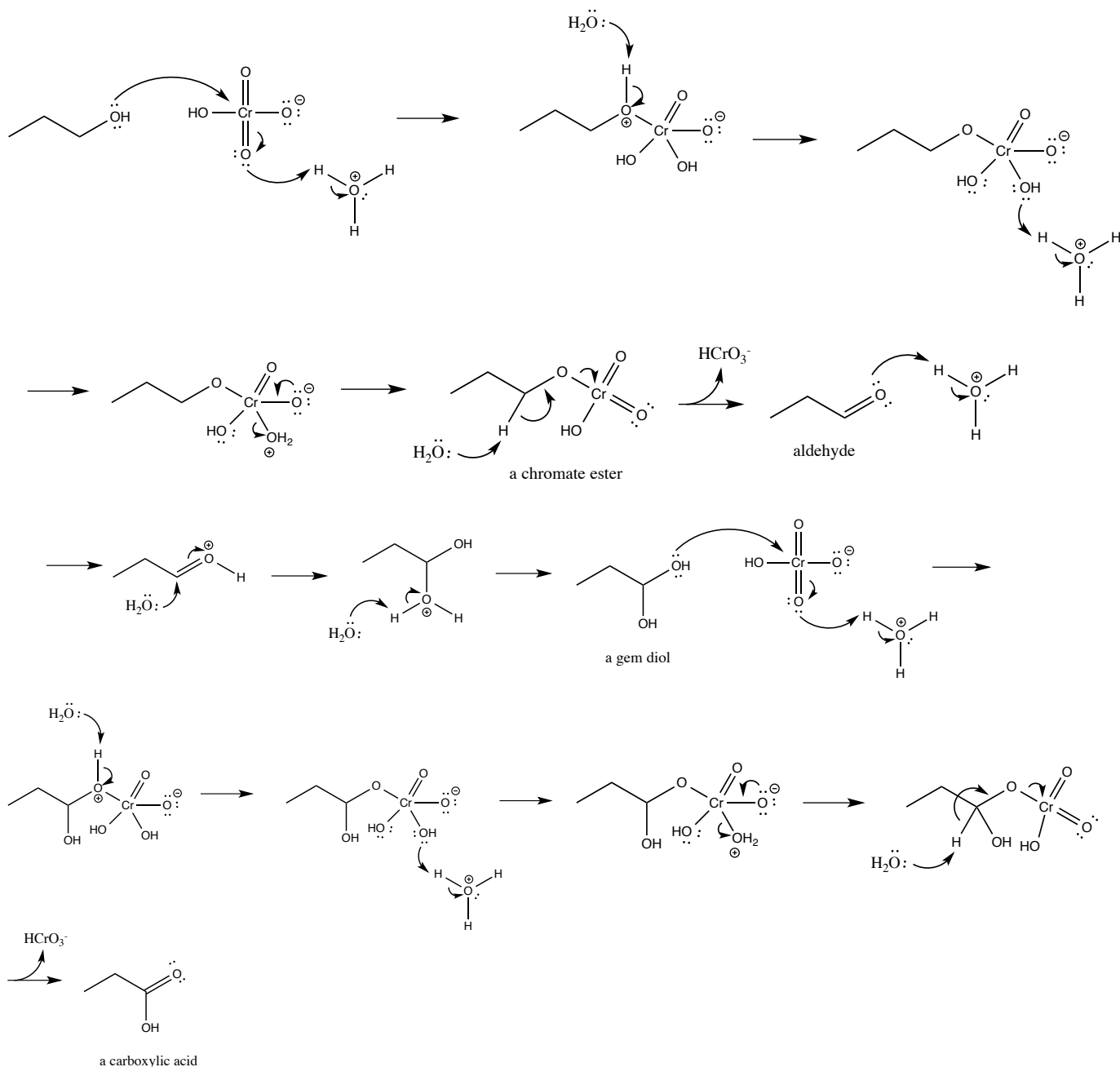
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<http://www.chem.wisc.edu/areas/clc> (Resource page)

Oxidation of Primary Alcohols to Carboxylic Acids



Mechanism for Jones's Reagent



Chromic acid and permanganate are powerful oxidizing agents. The reaction will not stop at the aldehyde. The overall reaction requires a 4 electron transfer.

A similar mechanism for the permanganate occurs except that the media is basic. The major product is a carboxylate, which is transformed into a carboxylic acid by acid workup.

