ORGANIC CHEMISTRY 1 LECTURE GUIDE 2019

BY RHETT C. SMITH

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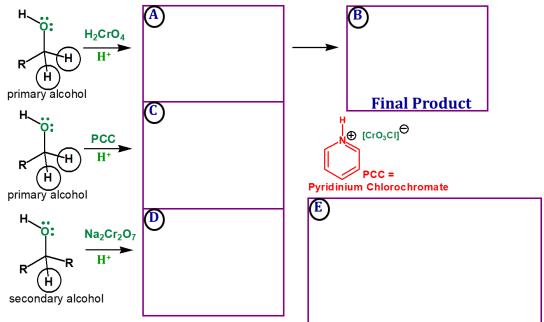
by Rhett C. Smith

Organic Chemistry 1 Primer 2019,

by Rhett C. Smith, Andrew G. Tennyson, and Tania Houjeiry

Lecture Topic II.13: Oxidation of Alcohols Chromium Reagents are Commonly used to Oxidize Alcohols

Oxidation of alcohols is a useful way to make carboxylic acids, aldehydes, and ketones. Strong oxidizing agents like H^+/CrO_4^{2-} , H^+/Cr_2O_7 , CrO_3/H_2SO_4 (Jones Oxidation) replace all C-H bonds of an alcohol C with C–O bonds. PCC is weaker and can only replace one C–H with a C–O bond:



<u>Notes</u>