

Course 34.3 Lecturer Sam Gellman

Day Wednesday Date 8/19/13

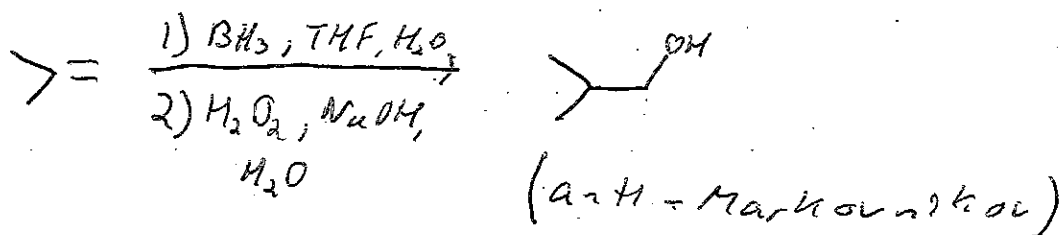
Notes Taken By Carl McBurney Total # of Pages 4

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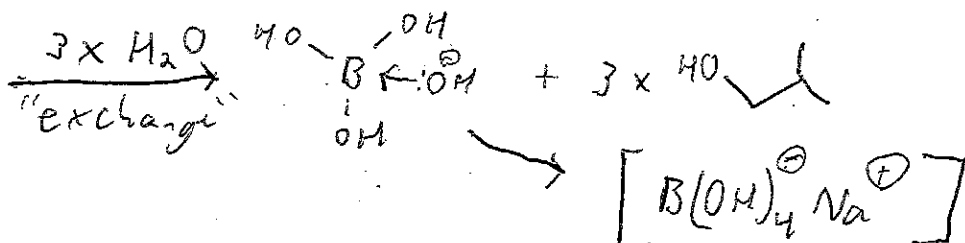
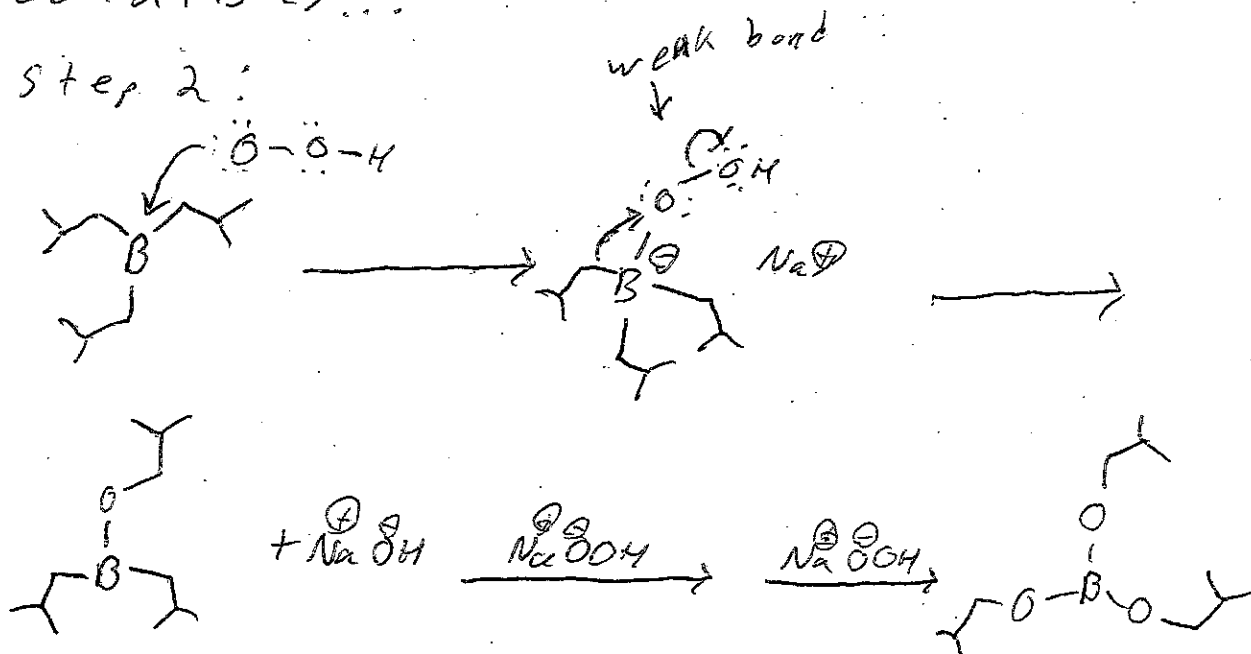
Recall: Rxns of alkenes...

Hydroboration-oxidation



Mechanism...

Step 2:

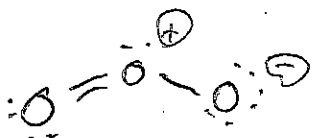


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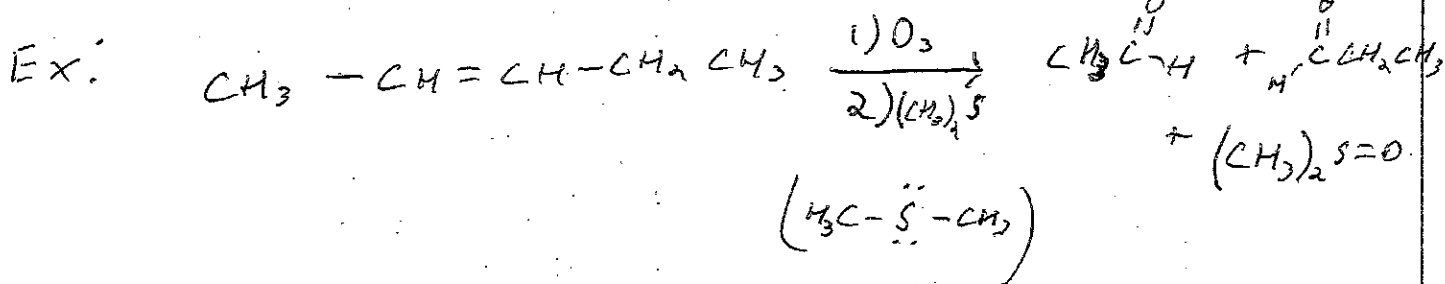
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Ozonolysis of alkenes

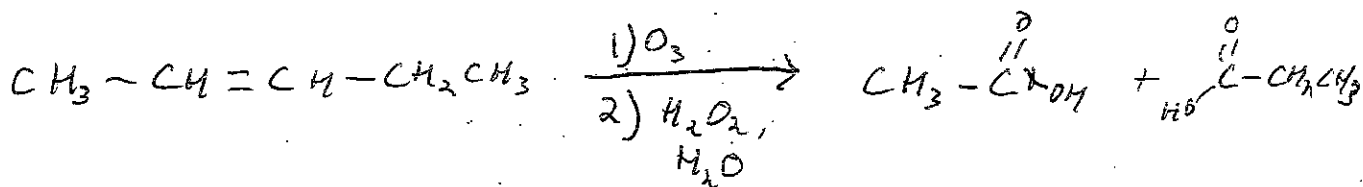
$O_3 \equiv$ ozone



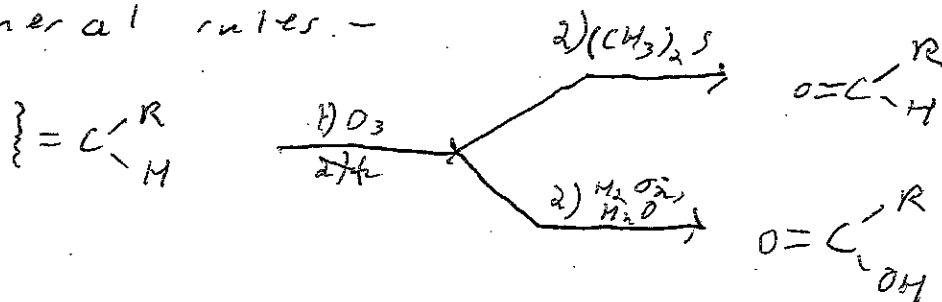
2 aldehydes
↙ ↘



Variation - provides different products



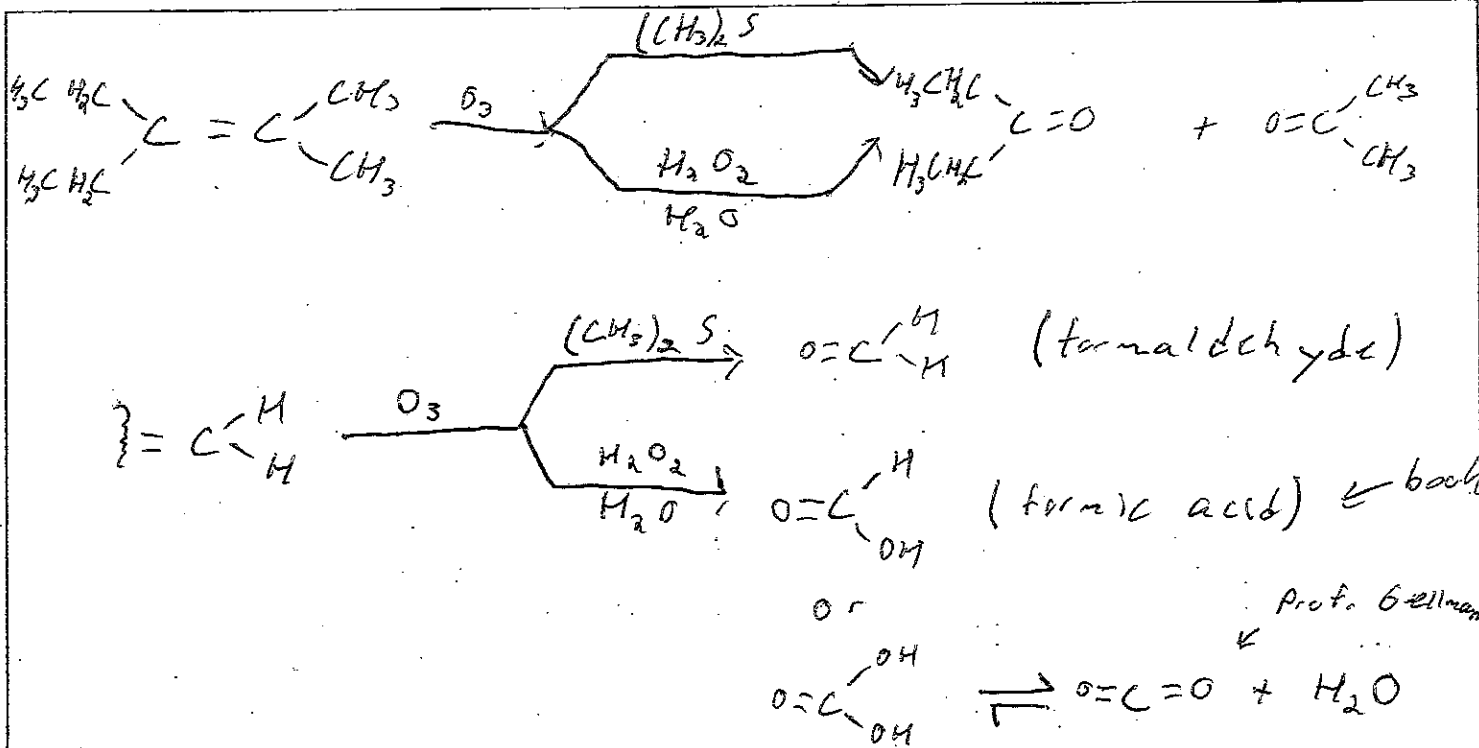
General rules -



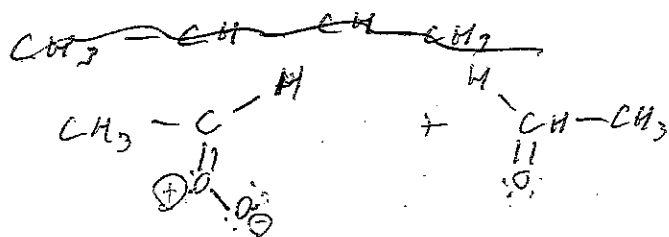
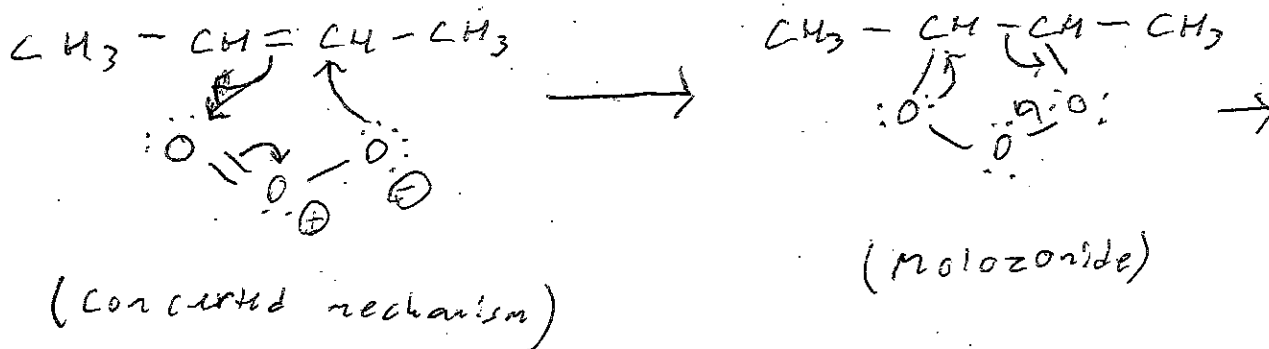
If both substituents are alkyl (C), then products are ketones

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Mechanism



redraw next page

(Carbonyl oxide)

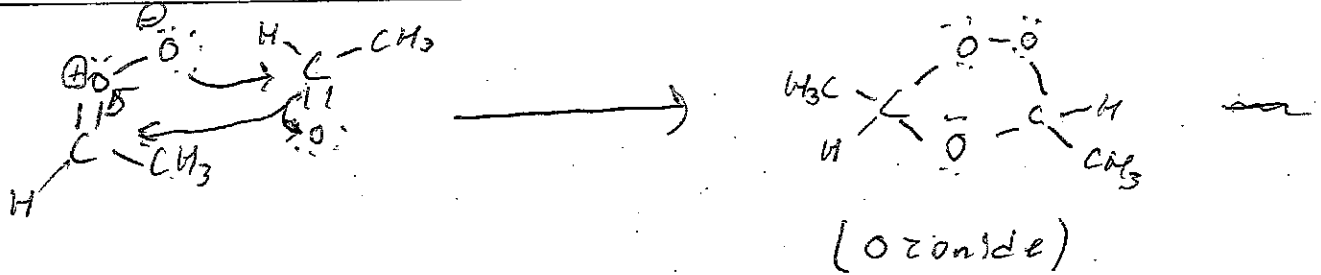
Course _____ Lecturer _____

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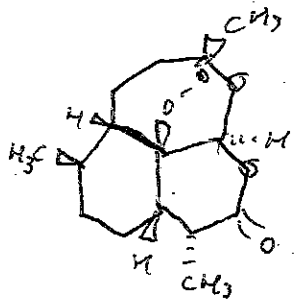
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add (CH₃)₂
→ Final products
or
H₂O₂, H₂O

Ozonide and ozonide-like molecules as anti-malarial drugs.

Artemisinin:



not quite an ozonide, but very similar