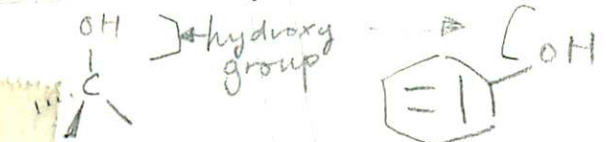


917 Alcohol / Phenol

review 1/16 1/17 1/18

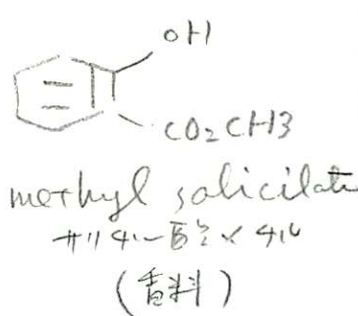
rev: CW 1/16 1/17 1/18
p587

酸性度 acidity (pKa) pKa = log $\frac{[A][H_3O^+]}{[HA]}$
p592

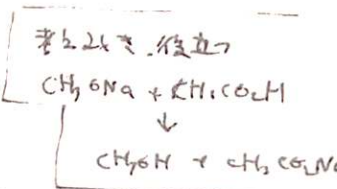


alcohol 種類

phenol 種類



<chem>CC(O)C</chem>	18.00
<chem>CCO</chem>	16.00
<chem>O</chem>	15.74
<chem>CC(O)C</chem>	15.54
<chem>Oc1ccccc1</chem>	9.89
<chem>Oc1ccc([N+](=O)[O-])cc1</chem>	7.15
酢酸	4.76
リン酸	2.16
塩酸	-7.0

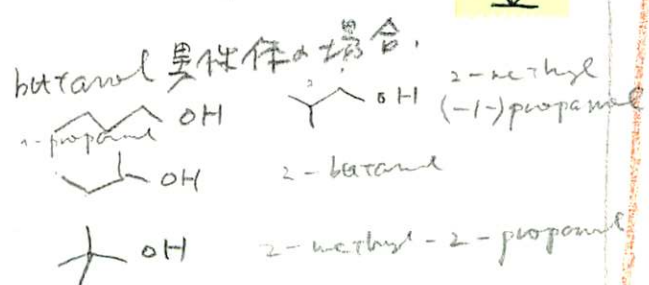


強い酸
(共役塩基が)
安定

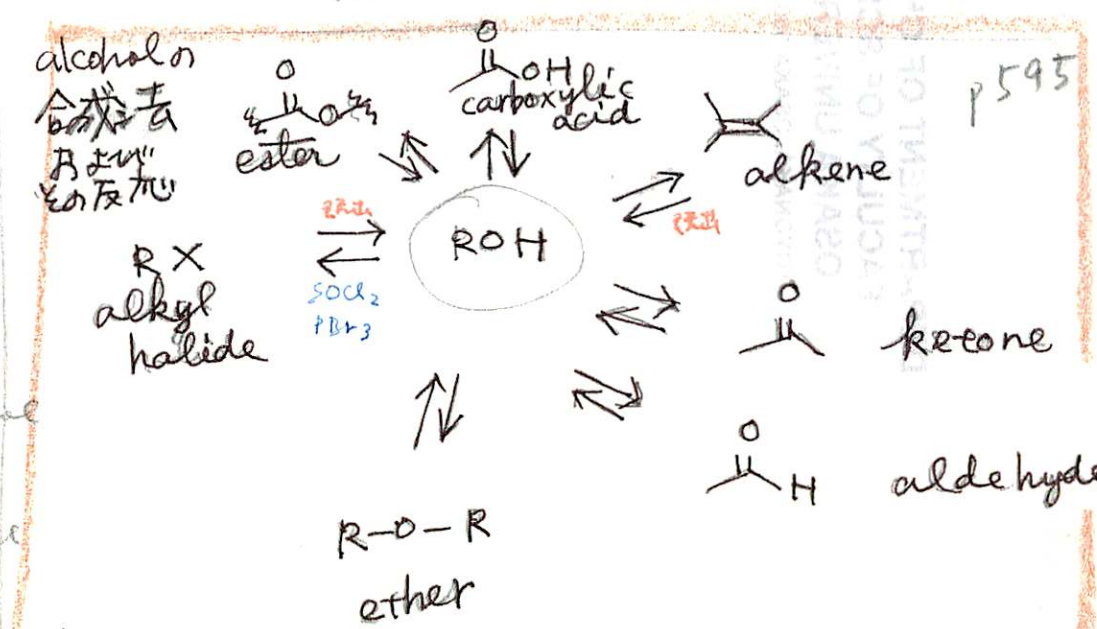
命名法

- C3 propanol
- C4 butanol
- C5 pentanol
- C6 hexanol
- C7 heptanol
- C8 octanol
- C9 nonanol
- C10 decanol

primary 第一級
secondary 第二級
tertiary 第三級



2018 4.27
↓



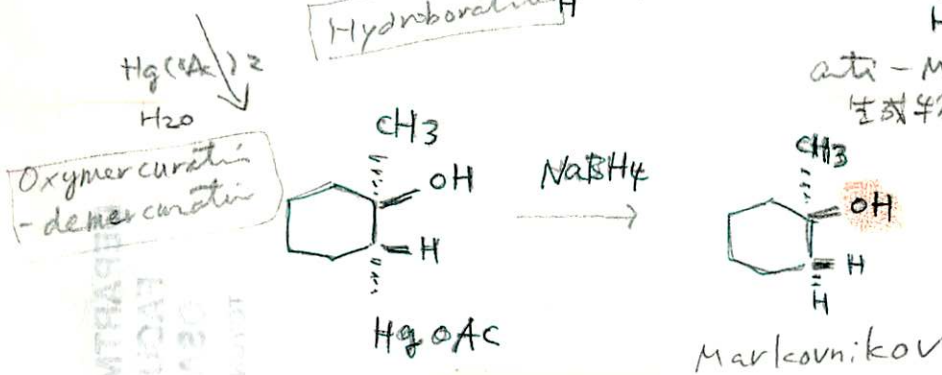
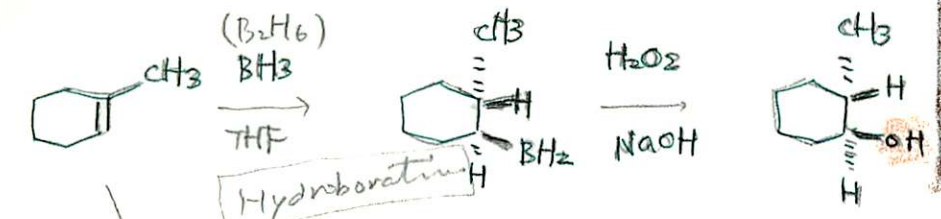
1/16 1/17 1/18

2012 12/12
↓

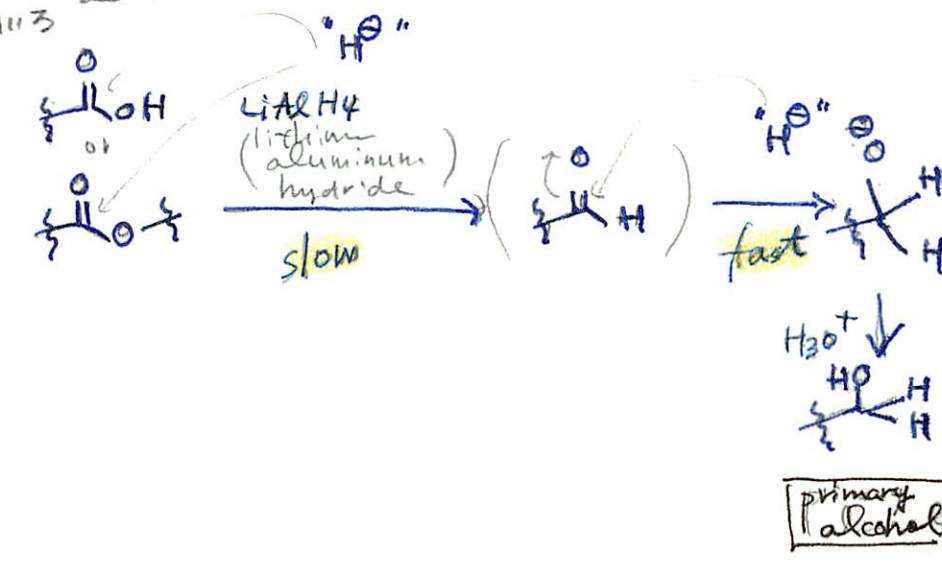
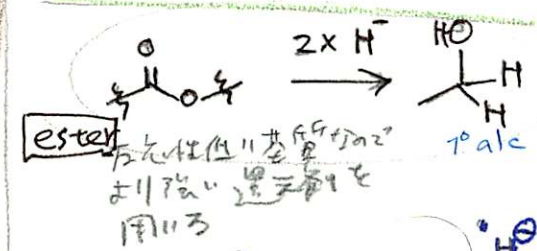
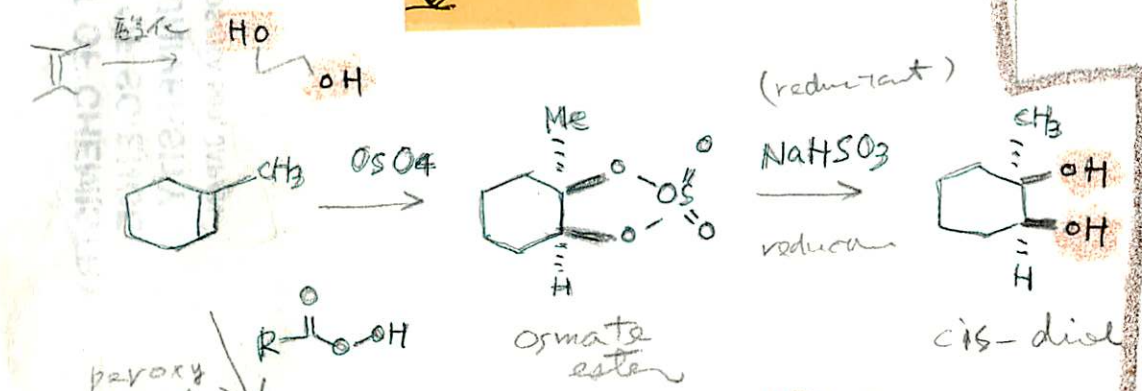
水-20(11%, 1.6%)
 hydrate OH
 活性化エネギ 高
 特別な工夫が必要

p596
 合成
 1° alc

p597 ⑨
 1° alc



2012.12.19

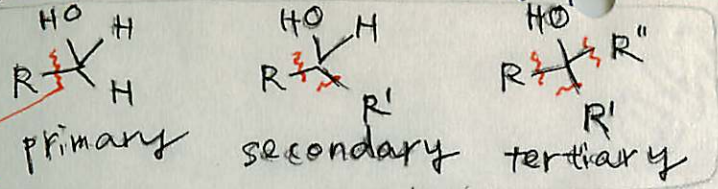


57 224
 = 142 review
 142 alc 合成
 142 alc 142
 alcohol 142
 142 142

炭素陰イオン carbanion (C⁻ M⁺) の合成

p601

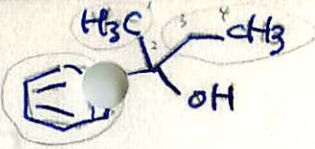
前回のHOとL284にC-C結合形成合成マース



Synthesis of

p604

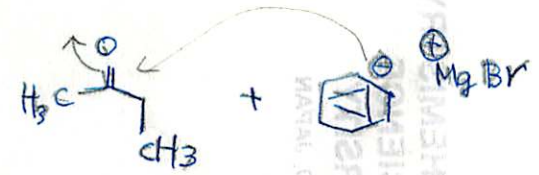
(1312)



2-phenyl-2-butanol (10)

From ketones ...

three ways



反応性、コスト、安全性
入手の容易さ...

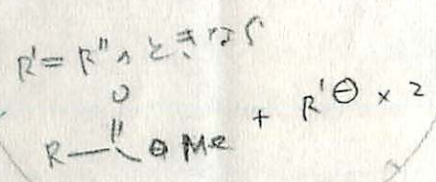
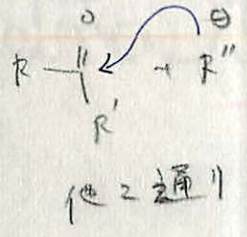
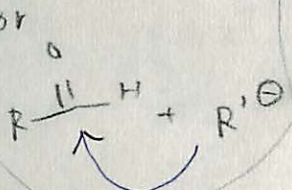
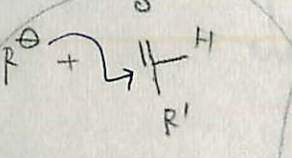
1912 Nobel prize in chemistry
the first organic chemist

R-MgBr
Grignard
試薬

↑ Mg
Me-Br
Et-Br

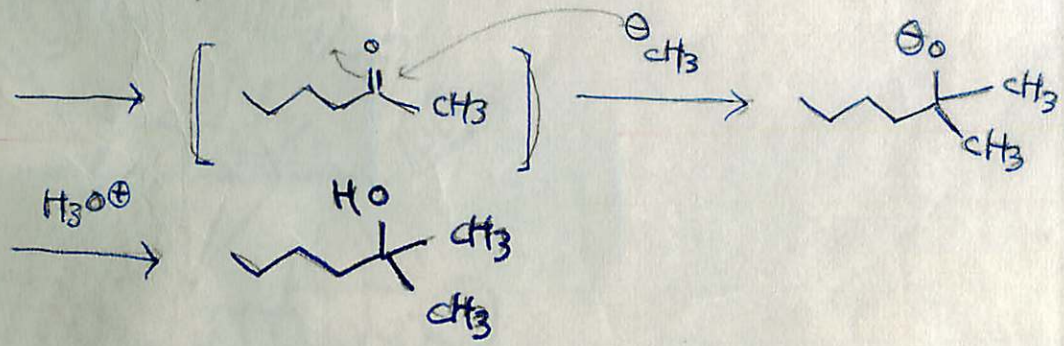
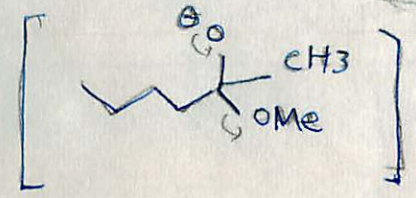
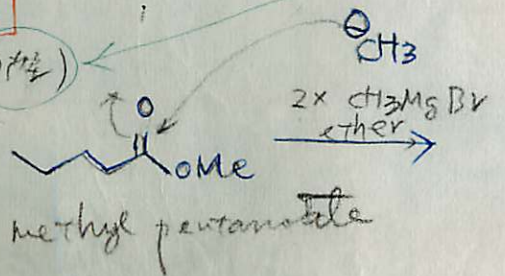
2019 5.11

右の方に付く
R'の代わり



例1

(1311)



==> 9+2日 左
hydroboration
oxymercuration
OsO4
peracid

10/23 2227