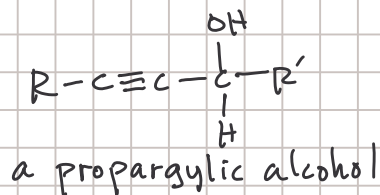
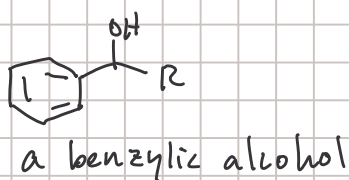
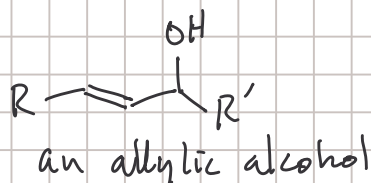
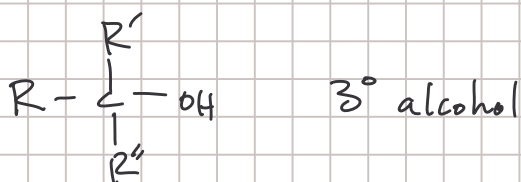
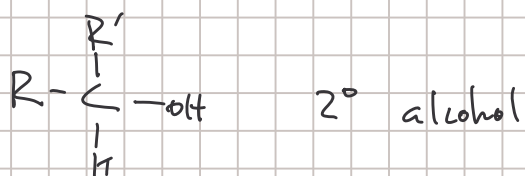
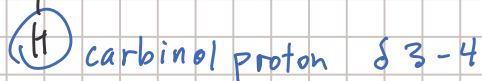
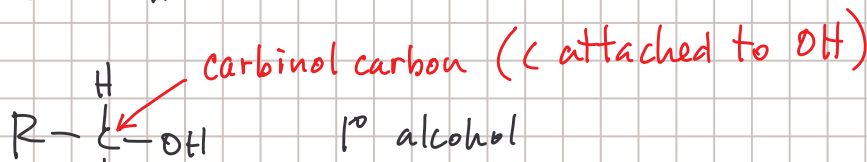
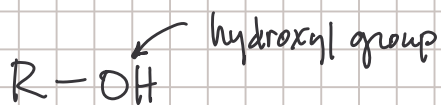


Ch 10 Alcohols

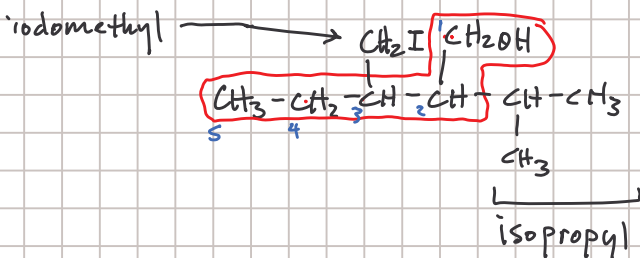
Note Title

12/5/2005



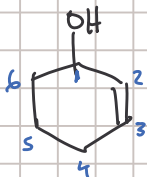
IUPAC nomenclature of alcohols

- 1) name longest C chain w/ OH group
 (OH has priority over db/triple bonds, halides)
- 2) number chain from end nearest OH group



3-iodomethyl-2-isopropyl-1-pentanol (OLD way)

" " " " -pentan-1-ol (NEW way)
 ↑ where OH attached

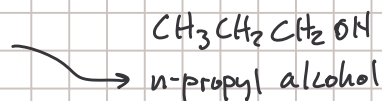


2-cyclohexenol (assume OH is #1 in ring)

2-cyclohexen-1-ol (old)

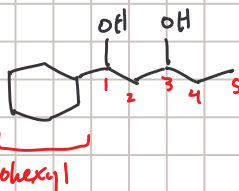
cyclohex-2-en-1-ol (new)
 loc. of dbl bond loc. of OH grp

Common names



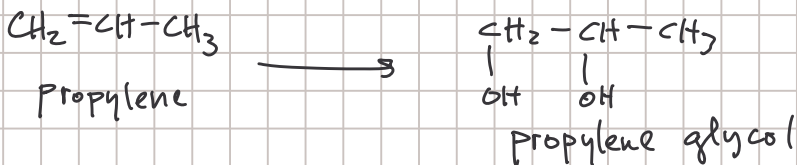
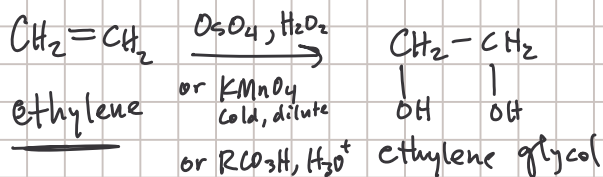
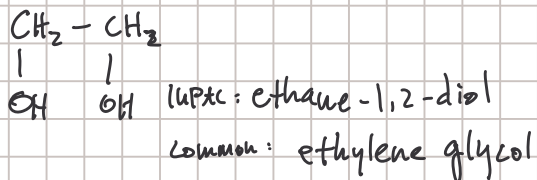
IUPAC: 1-propanol

Diols 2 hydroxyl groups.



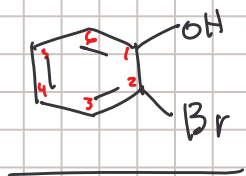
1-cyclohexylpentane-1,3-diol

1,2-diols = glycols (vicinal diol)



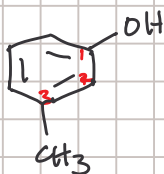
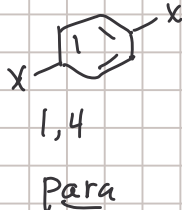
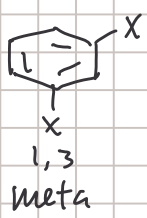
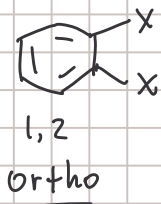
Phenols

Phenols

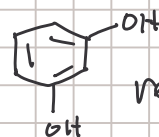


IUPAC: 2-bromophenol
 (2-bromo-1-hydroxybenzene)
 ↑ OH as substituent
 Not commonly used

Common Name: ortho-bromophenol



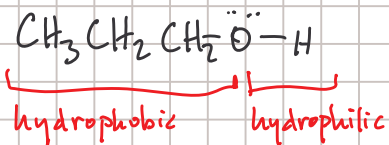
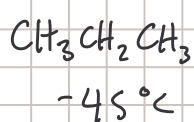
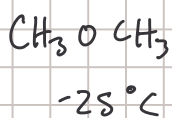
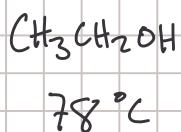
IUPAC benzene-1,2-diol
 Catechol



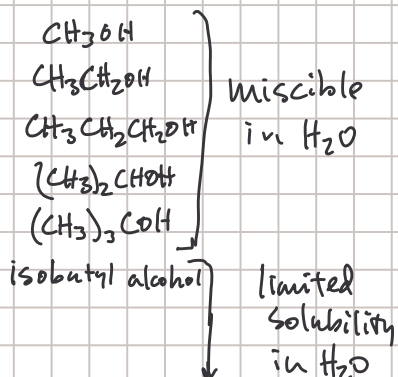
resorcinol



hydroquinone



Soluble in H_2O
 " in hexane



sol. decreases as #C increases.