

Ch 26

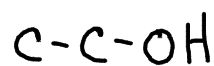
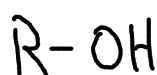
Sec 26.2

HW: Sec Rev 8, 10-12, 25ac, 26bd

obj: Identify alcohols and predict products for addition reactions.

## Alcohols

- Compounds w/ a Hydroxyl replacing a hydrogen



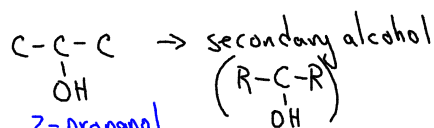
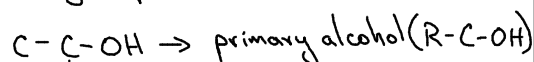
ethanol

(ethyl alcohol)

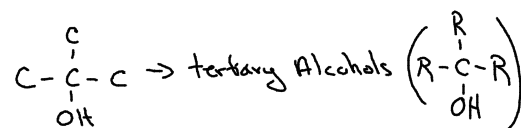
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- Types of Alcohols (Aliphatic Alcohols)

\* Depends on the position of the -OH group.



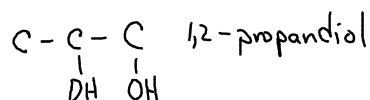
2-propanol  
(sec propyl alcohol)



2-methyl-2-propanol

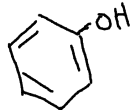
- Alcohols can have more than one

-OH group.

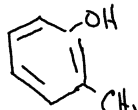
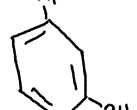


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- Phenols - Alcohols of benzene.



Phenol

o-cresol  
2-methylphenol

m-cresol

### Properties of Alcohols

- Alcohols exhibit hydrogen bonding.  
\* because of the hydroxyl group.



- Alcohols w/ less than 4 carbons easily dissolves in water.

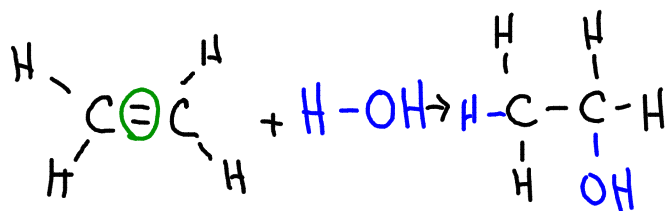
- Have higher boiling points than the alkanes, Alkenes w/ the same # of carbon.

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### Addition Reactions

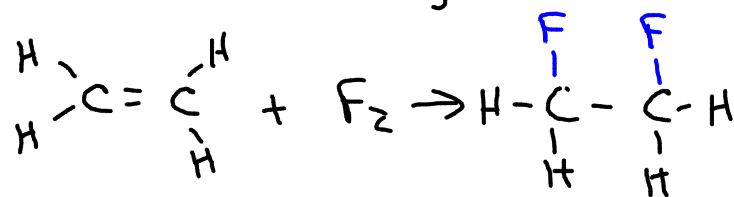
- Reactions w/ Alkenes or Alkynes.  
\* The Double or Triple Bond is Lost.

- Hydration Reaction  
\* Reaction of an Alkene w/  $H_2O$

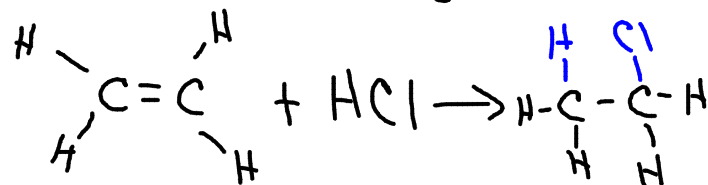


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- Addition of a Halogen.



- Addition of a Hydrogen Halide



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Dec 16 - 11:21 AM