

Organic Chemistry II Study Guide for Exam I
Chapters 10, 11, and 14

- Classification of Alcohols
 - Alcohols are classified according to how many carbons are attached to the carbon containing the -OH group.

- Methyl, primary, secondary, and tertiary

- Nomenclature of Alcohols

- Naming an alcohol

- Start numbering the carbon chain to reach the -OH group first
 - Include the location (carbon number) of the -OH group



- 2-methylhexan-2-ol

- Naming an alcohol as a substituent

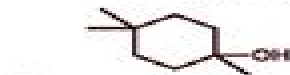
- Do this when alcohol is NOT the highest priority group (carboxylic acid, etc.)
 - Start numbering the carbon chain at the higher priority group
 - Use the prefix hydroxy- and include the location (carbon number) of the -OH group



- 4-hydroxybutanoic acid

- Naming cyclic alcohols

- If the -OH is the highest priority group, do NOT include the location (carbon number)
 - It is implied so it is unnecessary



- 1,4,4-trimethylcyclohexanol

- Naming diols

- When 2 -OH groups are present and is the highest priority group, use the suffix -diol
 - Include the location (carbon number) of BOTH -OH groups



- Propane-1,3-diol

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