Alcohols



- 1)Identify the number of carbons.
- 2) Use the appropriate IUPAC prefix with the ending _____.
- 1)Draw the number of _____
 identified by the IUPAC prefix. Attach
 them each by a _____ bond.

 2) _____ each carbon using

EXAMPLES

Name:

CH₃ - CH₂ - CH₃

CH₃ - CH₂ - CH₂ - CH₂ - CH₂ - CH₃

EXAMPLES

Draw:

pentane

octane

- Alkanes are characterized by a _____ carbon-carbon bond.
- Alkanes are _____ and contained no double or triple bonds.
- Alkanes always end with '________'

* Fill in the Blanks Here

1) Identify the number of carbons. 2) Use the appropriate IUPAC prefix with the ending	1)Draw the number of identified by the IUPAC prefix. Attach them each by a bond. 2) each carbon using a
EXAMPLES	Examples
	i !
Name: CH ₃ - CH ₂ - CH ₃	Draw: pentane

Alkanes are characterized by a _____ carbon-carbon bond.

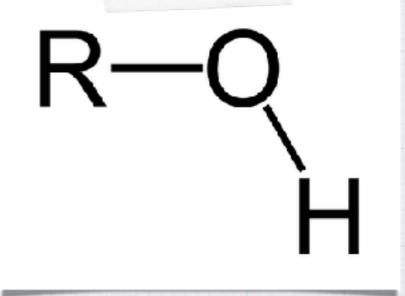
and contained no double or triple bonds.

Alkanes are _____

Alkanes always end with '_

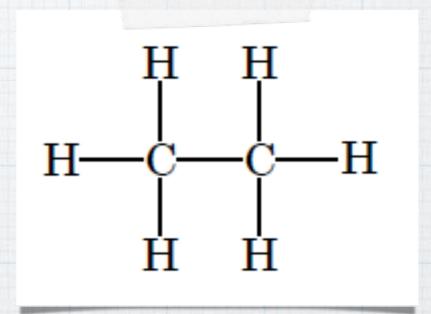
Alcohols

- * Alcohols are characterized by a hydroxyl group.
- * Alcohols are made up or an oxygen and hydrogen bound together.



Straight Chain Alkanes

* Alkanes always end with 'OL'



* Fill in the Blanks Here

1) Identify the number of carbons. 2) Use the appropriate IUPAC prefix with the ending	1)Draw the number of identified by the IUPAC prefix. Attach them each by a bond. 2) each carbon using a
EXAMPLES	Examples
Name: CH ₃ - CH ₂ - CH ₃	Draw: pentane

Alkanes are characterized by a _____ carbon-carbon bond.

CH3 - CH2 - CH2 - CH2 - CH3

Alkanes are ___

Alkanes always end with '_

octane

_____ and contained no double or triple bonds.

Naming Alcohols

- * Identify the number of carbons.
- * Use the appropriate IUPAC prefix with the ending OL.
- * Locate the hydroxyl. State the location of the using a number.
- * Name any additional side chains with the same numbering system.

Examples

CH3 - CH2 - CH - CH2 - CH2 - CH2 - CH2 - CH2 - CH3

OH

CH3 - CH2 - CH - CH2 - CH2 - CH2 - CH2 - CH3

HO

I

CH3

Examples

CH3 - CH2 - CH - CH2 - CH2 - CH2 - CH2 - CH2 - CH3

OH

nonan-3-ol

CH3 - CH2 - CH - CH2 - CH - CH2 - CH3

1

1

HO

CH3

5-methylheptan-3-ol

* Fill in the Blanks Here

1) Identify the number of carbons. 2) Use the appropriate IUPAC prefix with the ending	1)Draw the number of identified by the IUPAC prefix. Attach them each by a bond. 2) each carbon using a
	:

EXAMPLES

Name:

 $\mathsf{CH}_3 \mathsf{-} \mathsf{CH}_2 \mathsf{-} \mathsf{CH}_3 \mathsf{-} \mathsf{CH}_3$

CH3 - CH2 - CH2 - CH2 - CH2 - CH3

EXAMPLES

Draw:

pentane

octane

- Alkanes are characterized by a _____ carbon-carbon bond.
- Alkanes are _____ and contained no double or triple bonds.
- Alkanes always end with '________'

Prawing Alcohols

- * Draw the number of carbons identified by the IUPAC prefix. Attach them each by a single bond.
- * Praw the hydroxyl as identified.
- * Add any additional side chains.
- * Saturate each carbon using a hydrogen.

Examples ethan-1-ol

4-ethylheptan-2-ol

Examples ethan-1-ol

CH3 - CH2
I
OH

4-ethylheptan-2-ol

CH3 - CH - CH2 - CH - CH2 - CH3 - CH3 - CH3 - CH2 - CH3 - CH2 - CH3