

# Aldehydes

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# Foldable Instructions

\* Cut Here

1) Identify the number of carbons.

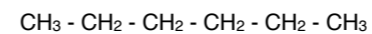
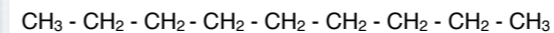
2) Use the appropriate IUPAC prefix with the ending \_\_\_\_\_.

1) Draw the number of \_\_\_\_\_ identified by the IUPAC prefix. Attach them each by a \_\_\_\_\_ bond.

2) \_\_\_\_\_ each carbon using a \_\_\_\_\_.

## EXAMPLES

Name:



## 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 ' \_\_\_\_\_ '.

# Foldable Instructions

\* Fill in the  
Blanks  
Here

1) Identify the number of carbons.

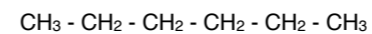
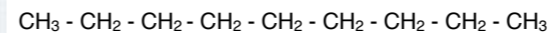
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1) Draw the number of \_\_\_\_\_  
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them each by a \_\_\_\_\_ bond.

2) \_\_\_\_\_ each carbon using  
a \_\_\_\_\_.

## EXAMPLES

Name:



## EXAMPLES

Draw:

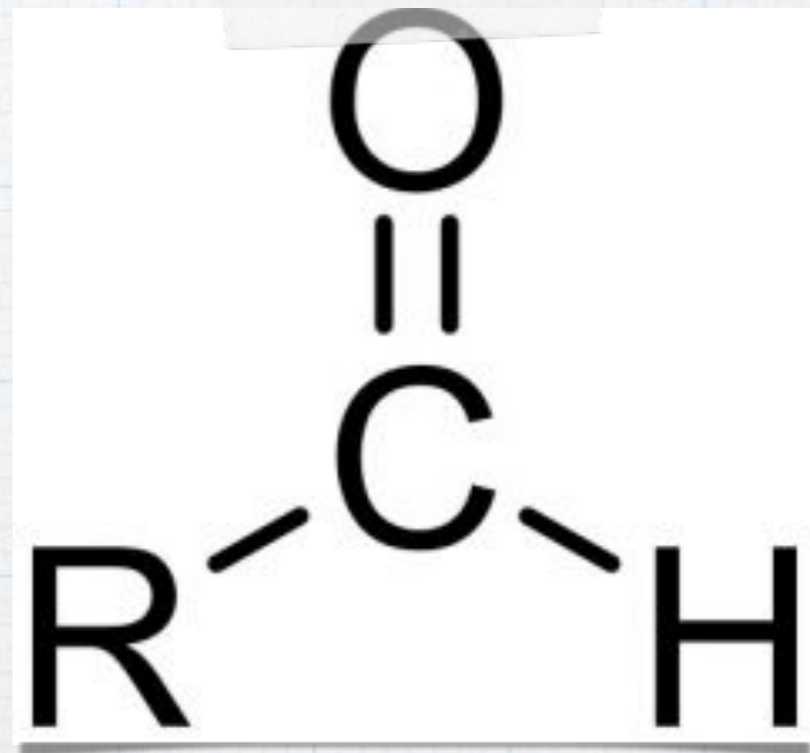
pentane

octane

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

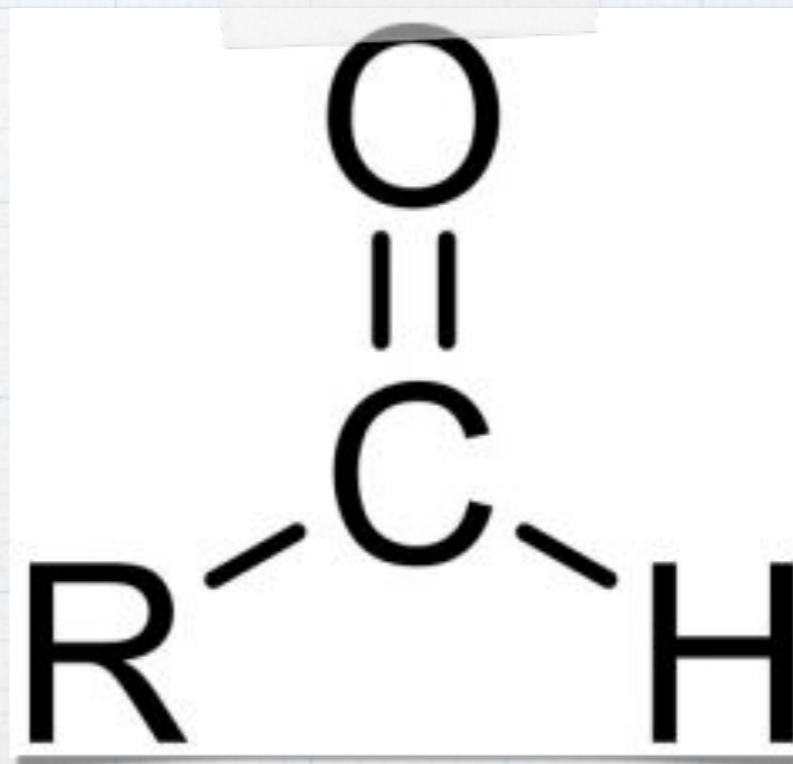
# Aldehydes

- \* Aldehydes are characterized by a double bonded oxygen.
- \* In aldehydes, the double bonded oxygen is always at the END



# Aldehydes

- \* Aldehydes always end with 'Al'



# Foldable Instructions

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Blanks  
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1) Identify the number of carbons.

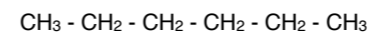
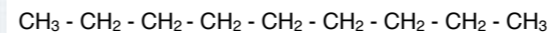
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1) Draw the number of \_\_\_\_\_  
identified by the IUPAC prefix. Attach  
them each by a \_\_\_\_\_ bond.

2) \_\_\_\_\_ each carbon using  
a \_\_\_\_\_.

## EXAMPLES

Name:



## 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 ' \_\_\_\_\_ '.

# Naming Aldehydes

- \* Identify the number of carbons.
- \* Use the appropriate IUPAC prefix with the ending AL.
- \* Since the double bonded oxygen is at the end, no number is required. This is no carbon one.
- \* Name any additional side chains with the same numbering system.

# Examples



II

O



II

I

O

CH<sub>3</sub>



# Examples



||

O

Heptanal



||

O

|

CH<sub>3</sub>

3-methylpentanal

# Foldable Instructions

\* Fill in the  
Blanks  
Here

1) Identify the number of carbons.

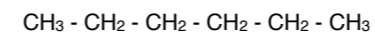
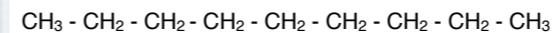
2) Use the appropriate IUPAC prefix  
with the ending \_\_\_\_\_.

1) Draw the number of \_\_\_\_\_  
identified by the IUPAC prefix. Attach  
them each by a \_\_\_\_\_ bond.

2) \_\_\_\_\_ each carbon using  
a \_\_\_\_\_.

## EXAMPLES

Name:



## 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 ' \_\_\_\_\_ '.

# Drawing Aldehydes

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

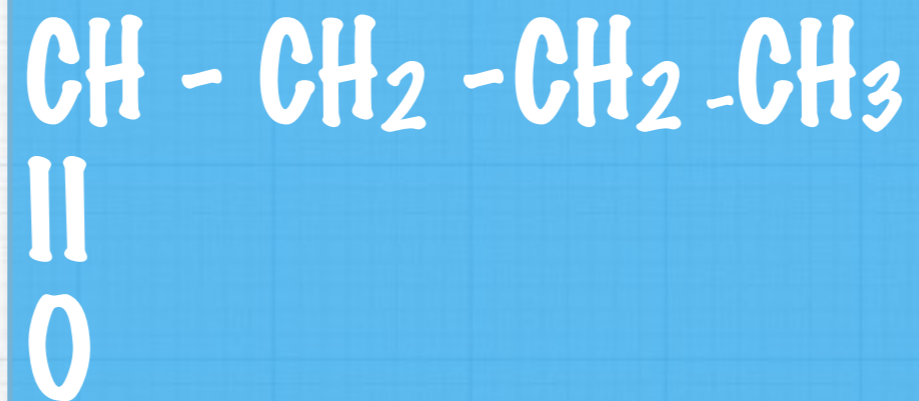
# Examples

Butanal

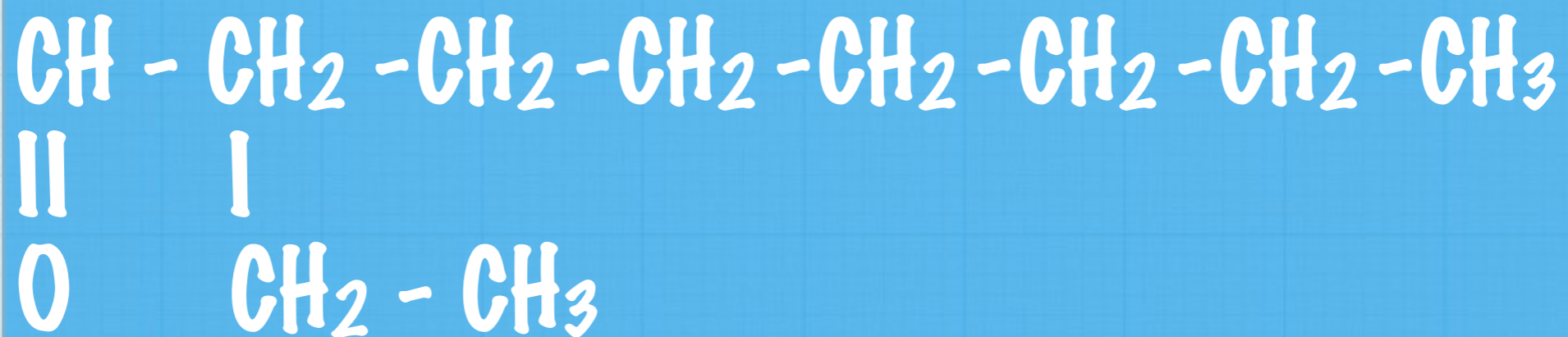
2-ethyloctanal

# Examples

## Butanal



## 2-ethyloctanal



# Examples

ethan-1-ol



4-ethylheptan-2-ol

