

Chapter 4 Alkanes and Cycloalkanes

IUPAC name

How to name alkane compounds

1. **Identify and name the parent chain** (= the longest consecutive chain of carbons).
 - a. If there is more than one possible parent chain, choose the one with the most substituents attached.
2. **Identify and Name the substituents.**
 - a. Alkane substituents: replace "ANE" with "YL" (e.g. methane → methyl).
 - b. Halogen substituents: replace "INE" with "O" (e.g. fluorine → fluoro).
 - c. Complex substituents
 - i. Number the longest carbon chain **WITHIN** the substituent.
 1. Start with the carbon attached to the parent chain.
 - ii. Name the substituent.
 - iii. Name and Number the substituent's side group.
 - iv. Parenthesis all.
3. **Number the parent chain to assign a locant to each substituent.**
 - a. Chose the direction as the locant # becomes smallest.
 - b. If all #s are same, assign the lowest # alphabetically.
 - c. If there is only one position that can be substituted in the parent chain, do not assign a locant.
 - i. e.g. Chloromethane is not named 1-chloromethane because there is only one position to be substituted.
 - ii. e.g. Mono substituted cycloalkanes do not have numbering because no matter where it's substituted, the locant number is always "1". Chlorocyclohexane is not named 1-chlorocyclohexane.



Chloromethane



Chlorocyclohexane

4. **List the numbered substituents before the parent name in alphabetical order.**
 - a. A prefix is used (di, tri, tetra, penta, etc.) if multiple substituents are identical.
 - i. e.g. Instead of saying "... 3-methyl-5-methyl...", say "... 3,5-dimethyl..."
 - b. Prefix is ignored for alphabetization purposes except for "ISO".
 - c. Hyphen between each substituent; no hyphen between the last substituent and parent name.

Naming cyclic alkanes

1. Monocyclic compounds/substituents.
 - a. Add a prefix "CYCLO" to the total number of carbons consisting the ring system.

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Frank Rioux, Neidig



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what do we mean when we say something is a wave a wave is a disturbance that travels or propagates from the place where it was created waves transfer energy from one place to another but they do not necessarily transfer any mass light sound and waves in the ocean are common examples of waves

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waves are responsible for basically every form of communication we use whether you're talking out loud or texting on your

phone there s going to be a wave transmitting information learn the fundamentals of waves and sound in this unit