

Haloalkanes

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- Haloalkane is a hydrocarbon with at least one halogen atom

IUPAC Names

Cl- chloro
F- fluoro

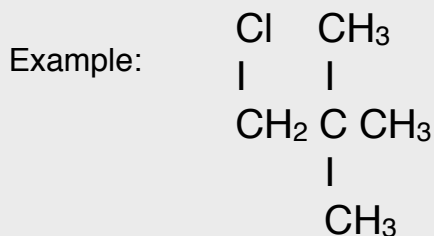
Br- bromo
I- iodo

- The general formula for the series is

R-X

Naming Cyclic Haloalkanes

- 1) Identify the base number of carbon.
 - The base is the longest continuous chain of carbons that contains the halogen atom.
- 2) When numbering, the halogen takes priority for the lowest carbon.
- 3) Specify the number (di, tri) and the location of the halogen side chain using numbers.



Answer: 1-chloro-2,2-dimethylpropane

Drawing Cyclic Haloalkanes

- 1) Start by drawing the base chain. Draw the number of carbons as indicated by the prefix.
- 2) Add any indicated double or triple bonds.
- 3) Add any indicated side chains, including halogen side chains.
- 4) Saturate the remaining carbons

Example: 1-bromo-2-methylbutane

