

Organic Chemistry Exam 1 Cheat Sheet by Shelbeans (shelbeans) via cheatography.com/177819/cs/37114/

Naming Alkanes		
1	meth-	
2	eth-	
3	prop-	
4	but-	
5	pent-	
6	hex-	
7	hept-	
8	oct-	
9	non-	
10	dec-	

Naming Alkanes Rules

 Find longest continous carboon chain (Parent Chain) and name based on how many carbons present and stick an -ane on the end

(4 carbon chain = Butane)

- 2. If 2 or more branches, list alphebetically,
- 3. If more than 1 of same type of group, add prefix (di-,tri-, etc)

Functional Groups			
For clarification, a carbonyl is just the C-O			

Classification of Isomers

Constitutional Isomers: isomers that differ in order of atoms connected
Stereoisomer: Isomers with same connections but different atom arrangements
Enantiomers: stereoisomers that are nonsuperimposable mirror images
Diastereomers: steroisomers that are not mirror images

Cis-Transisomers: Only compounds w/ double bonds and at least 2 different substituents on either side

Conformations		
Eclipsed Conformation:	Staggered Co	nformations:
0 degrees	Gauche=60 Degrees	Anti= 180 degrees
In order of mos	t to least stable:	

Chirality

Chiral: If it cant be superimposed on its mirror image (entantiomers)

Achiral: The molecules in chich mirron images are super imposable



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Published 6th September, 2024. Last updated 15th February, 2023. Page 1 of 1. Sponsored by Readable.com

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