Cheatography

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

1. 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)

If 2 or more branches, list alphebetically,
If more than 1 of same type of group, add

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prefix (di-,tri-, etc)

С

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 substi-

tuents on either side

Conformations

Eclipsed Conformation:	Staggered Conformations:		
0 degrees	Gauche=60 Degrees	Anti= 180 degrees	
In order of most to least stable: Anti -> Gauche -> Eclipsed			

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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