

Introduction

Tuesday, January 30, 18

* Organic compounds: contain carbon atoms bound to themselves, hydrogen, and sometimes other elements.

* Po not include CO, CO₂, and other ionic compounds containing carbon

* There are specific IUPAC rules for naming organic compounds

* Hydrocarbons: organic compounds that contain only hydrogen and carbon.

* Alipathic Hydrocarbons: straight or branched chained hydrocarbons.

* Aromatic Hydrocarbons: Contain a benzene ring structure.

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Model	Example	Description
Empirical Molecular Formula	C5H12	-Shows the number and types of atoms present -Does not specify structure
Expanded Molecular Formula	CH3CH2(CH3)CH2CH3	Chause the avounties of atoms
Structural Formula	H H H H I I I I I H-C-C-C-C-H I I I I I H H H H H	-Clear picture of atoms -Accurate but requires space
Condensed Structural Formula	CH3 - CH2 - CH2 - CH3	-Still shows side chains but takes up less space
Line Structural Formula		-Uses a line to represent bonds