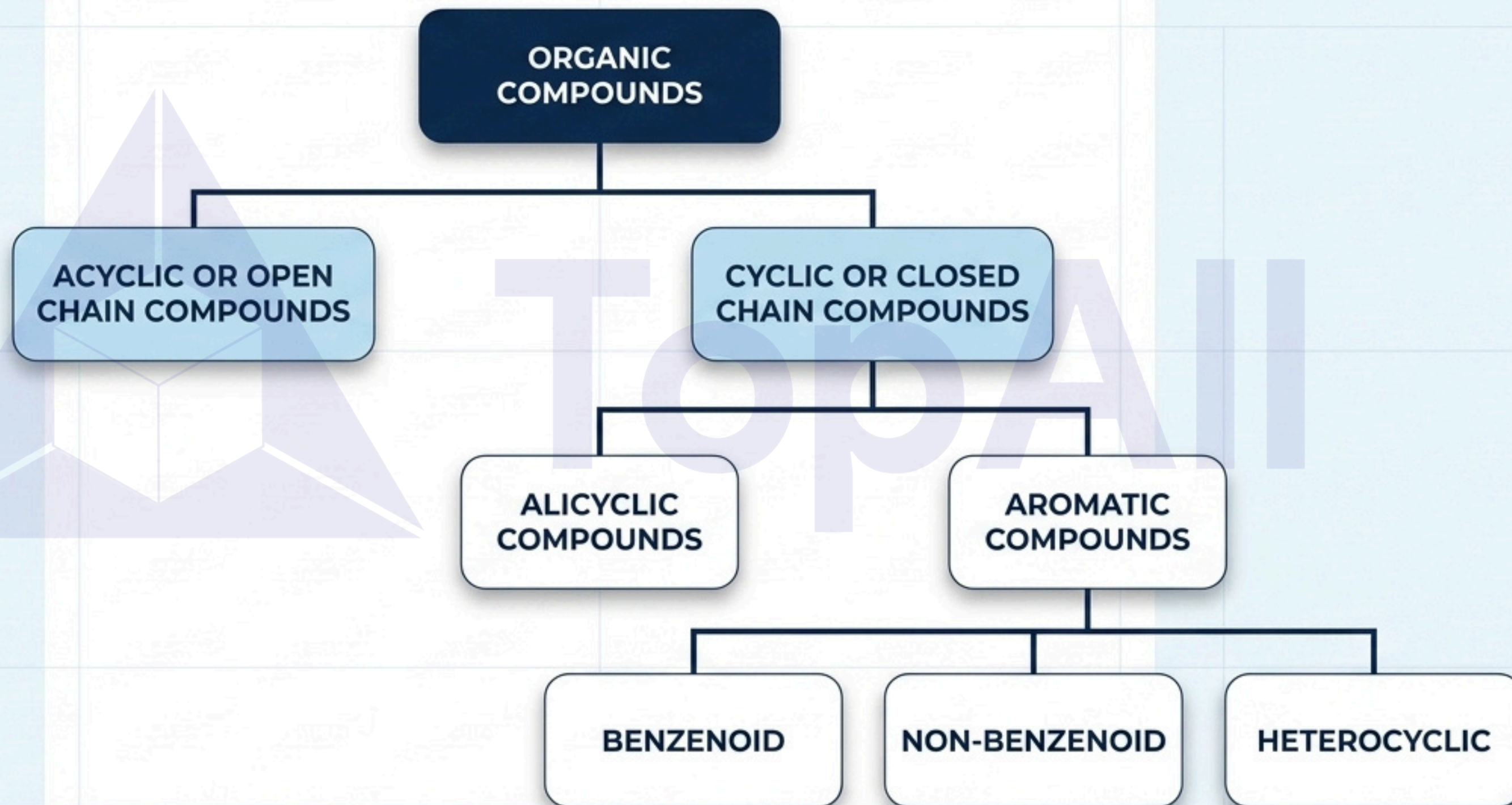
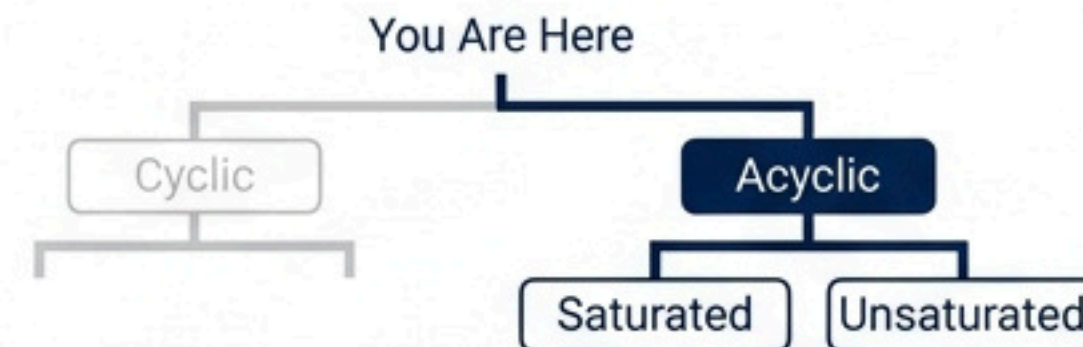


THE TAXONOMY OF ORGANIC COMPOUNDS



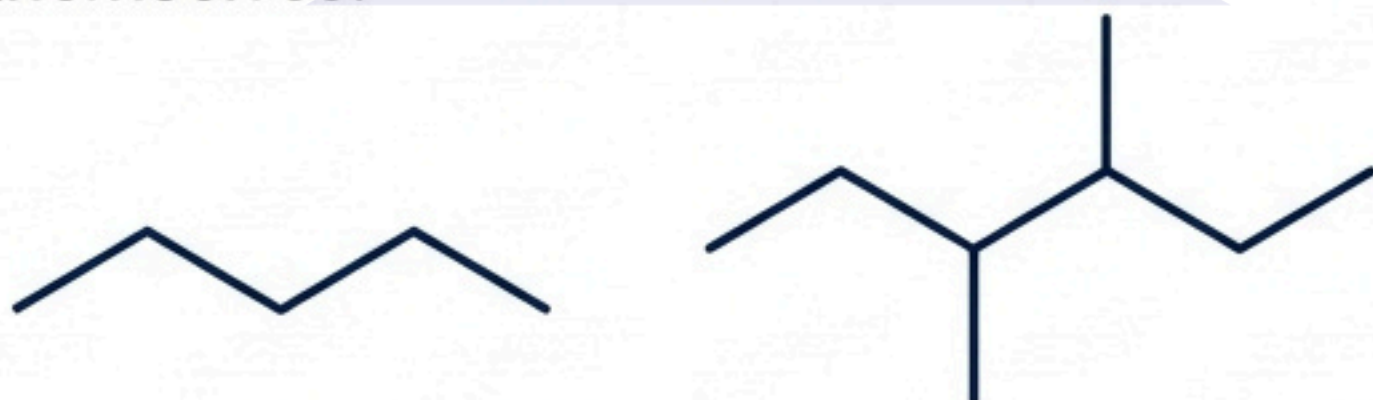


The Blueprint Rule: Aliphatic Frameworks

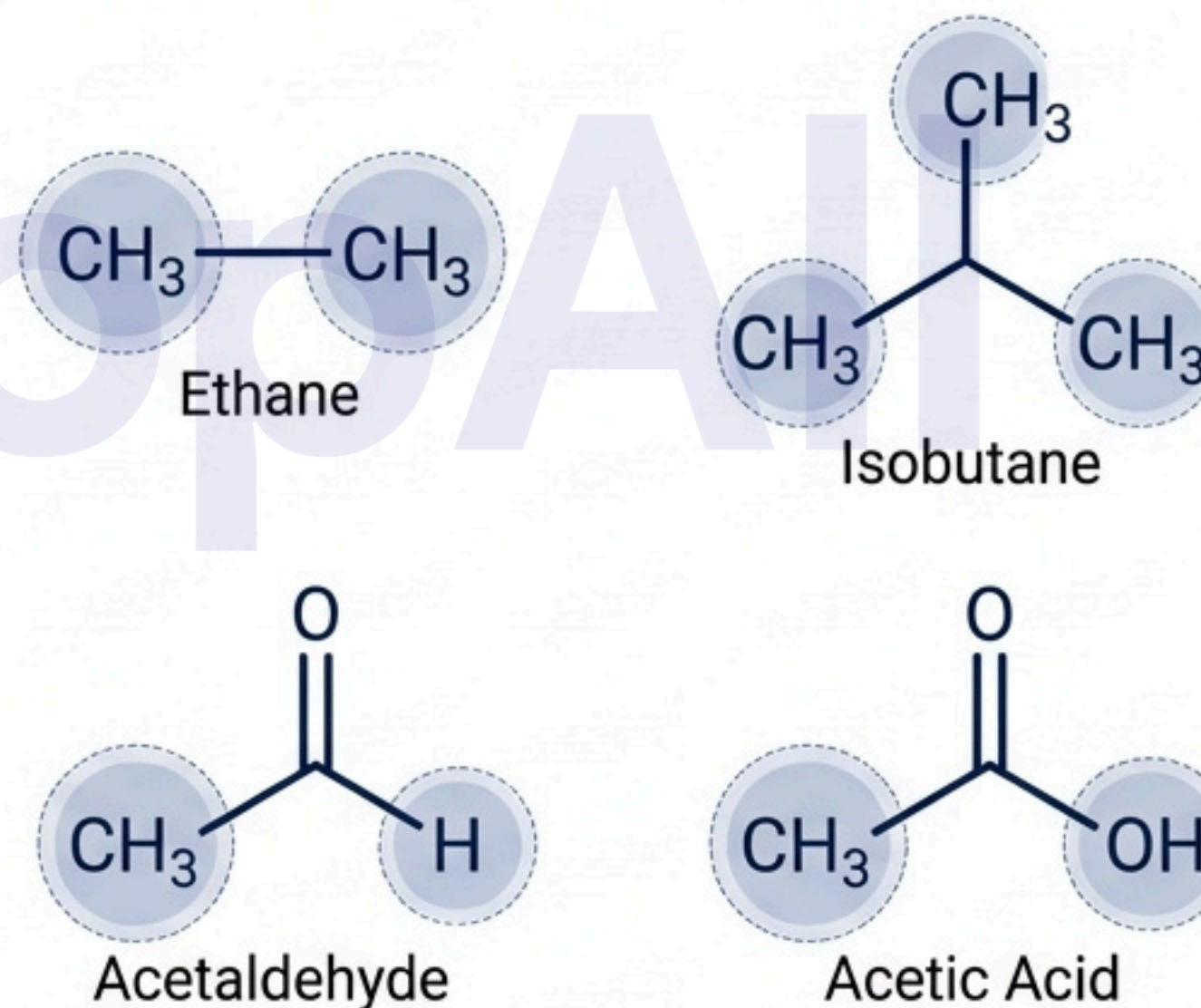
Also known as aliphatic compounds.

They consist of straight or branched open chains of carbon atoms.

Terminal ends never connect back upon themselves.



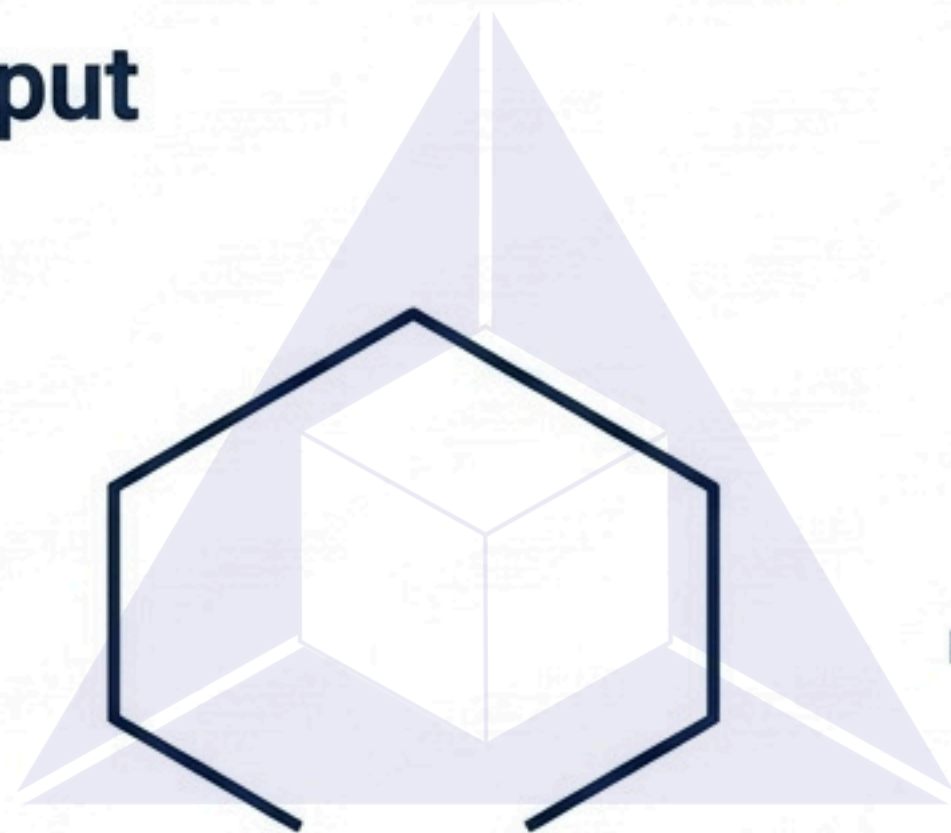
Archetypal Examples



Cyclic Compounds: The Closed Loops



The Input



Carbon atoms linked in an open sequence.



The Transformation



Carbon atoms linked to form a closed ring (homocyclic) or rings containing other atoms (heterocyclic).



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Let's Test Them Now.**

$$E=mc^2$$



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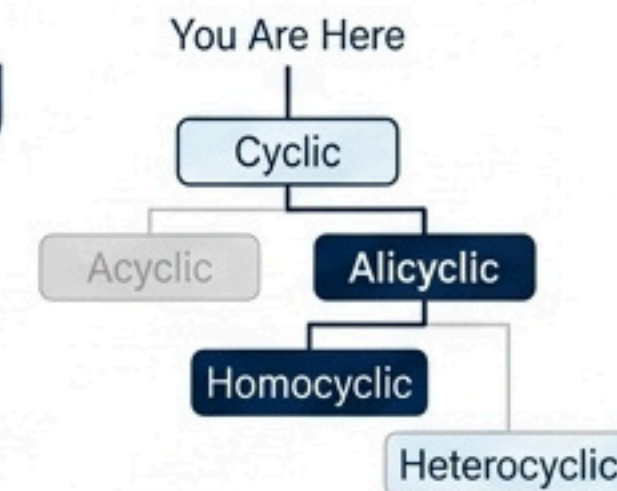
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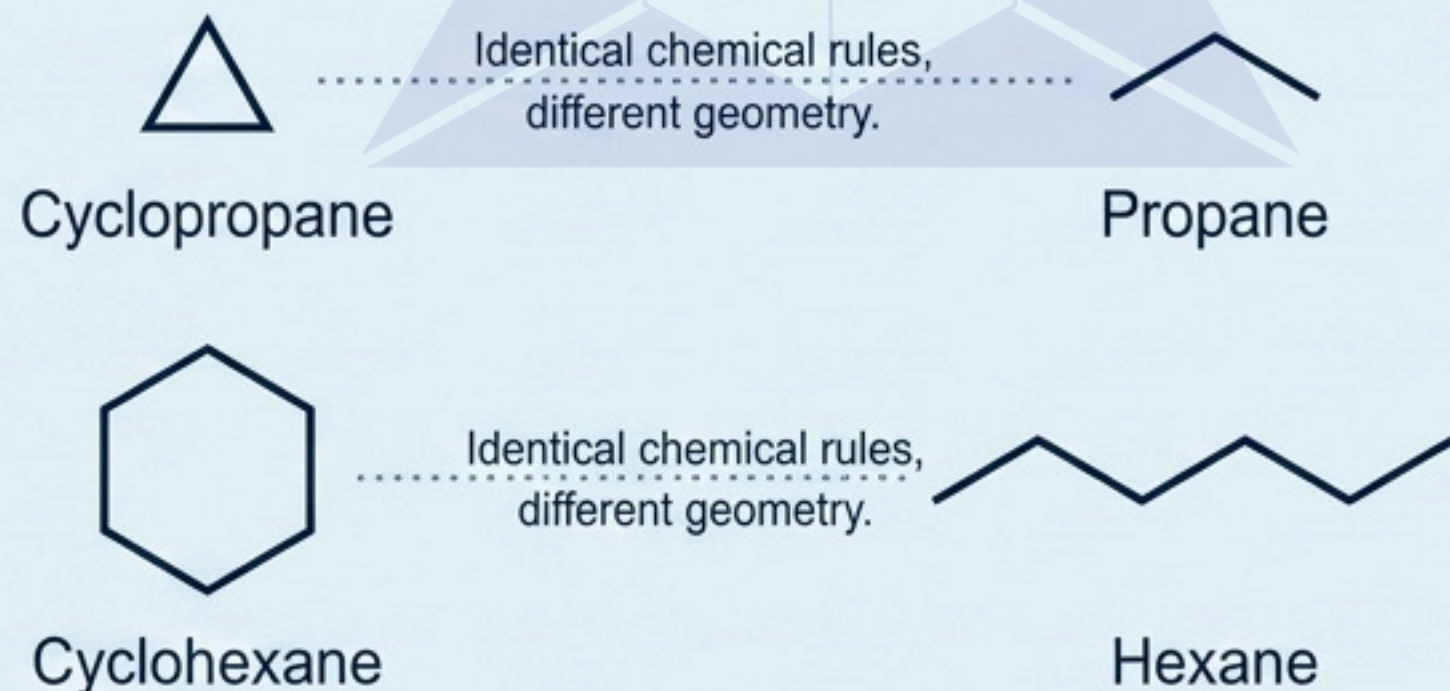


Alicyclic Compounds: Aliphatic Properties in a Ring

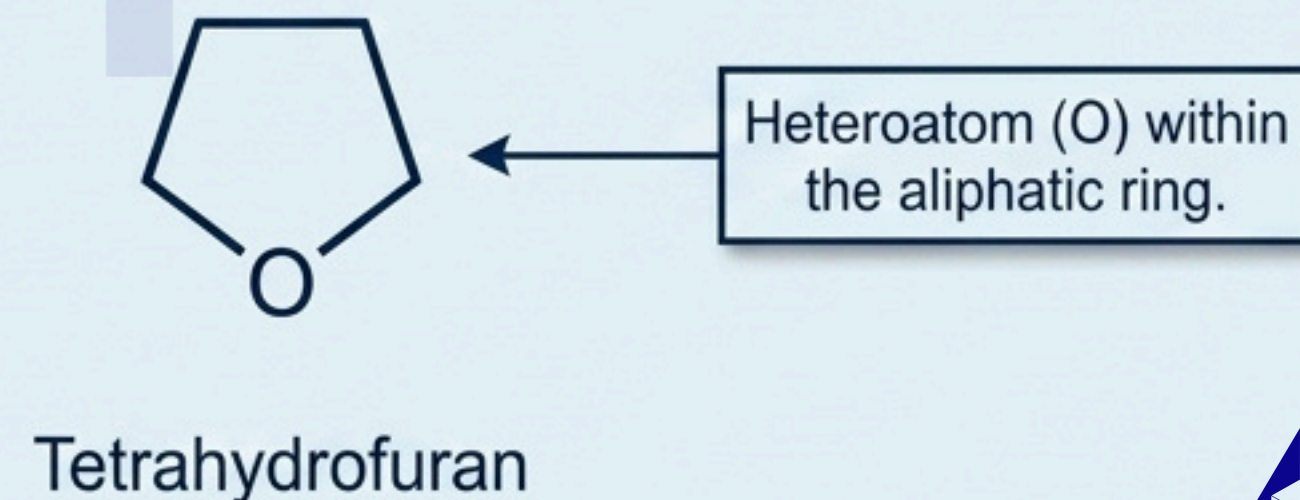


Alicyclic (aliphatic cyclic) compounds resemble acyclic aliphatic compounds in their chemical properties.

Homocyclic Comparison



Heterocyclic Example

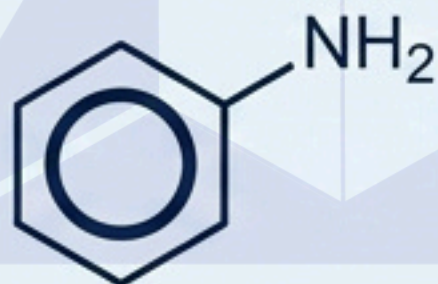


Aromatic Compounds: Conjugated Stability



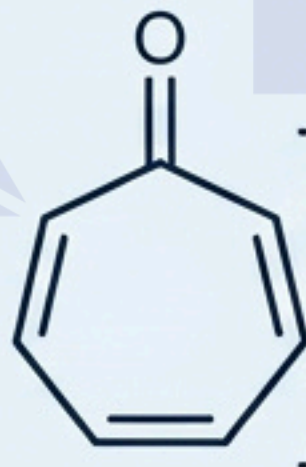
Benzenoid

Contain one or more benzene rings.



Non-Benzenoid

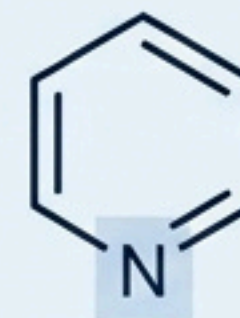
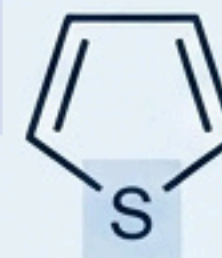
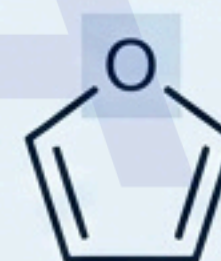
Highly unsaturated rings displaying aromaticity without a traditional benzene ring.



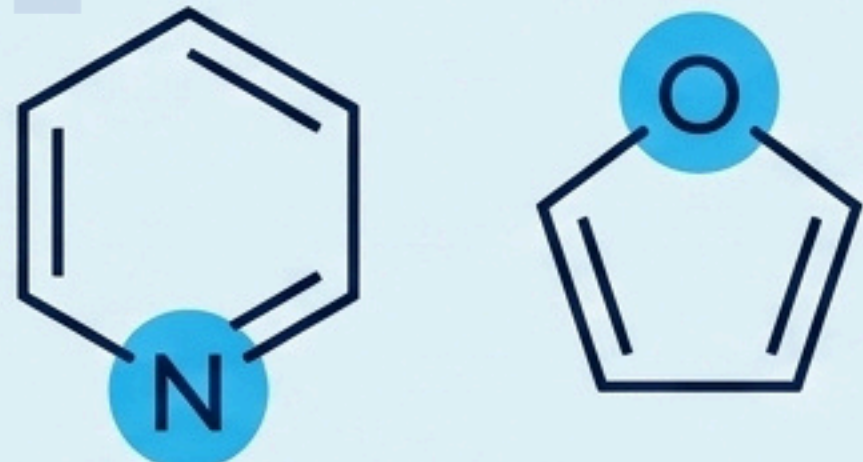
Seven-membered conjugated ring.

Heterocyclic Aromatic

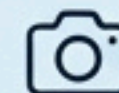
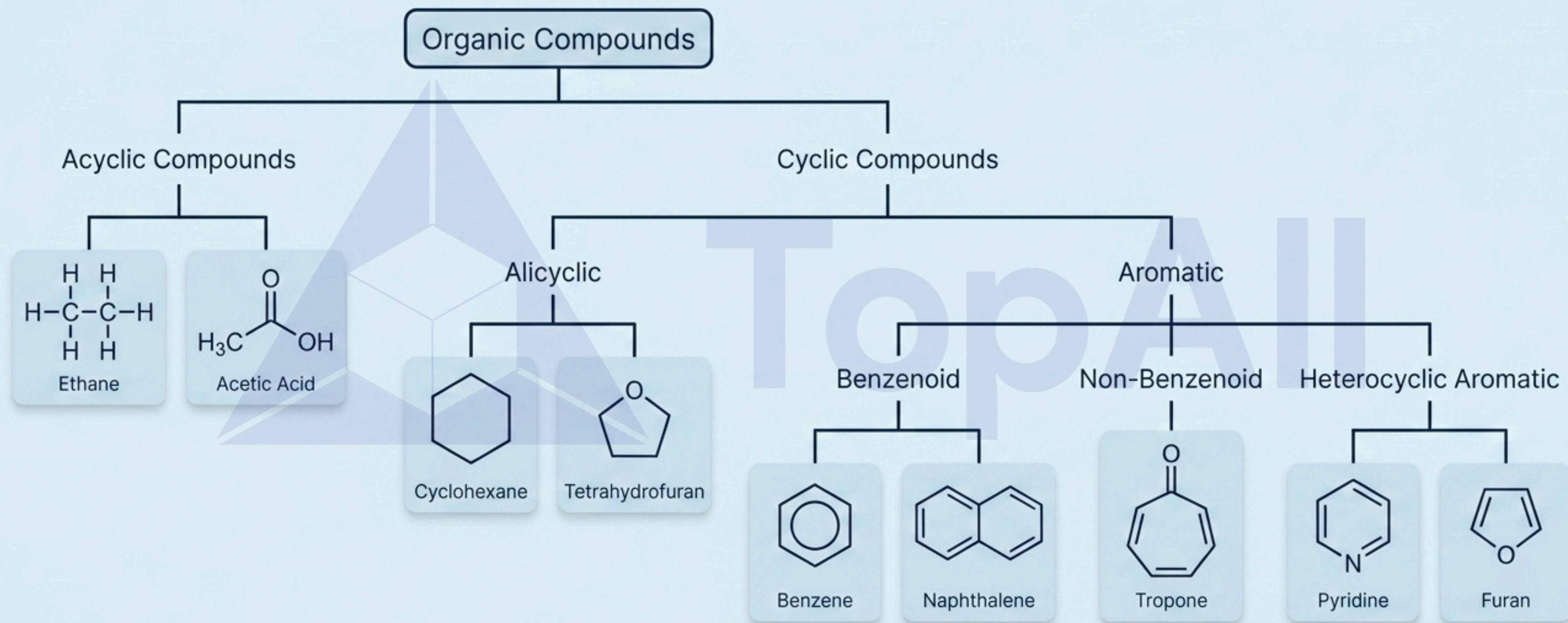
Aromatic rings containing heteroatoms.



The Heteroatom Variable: A Diagnostic Matrix

	Homocyclic (Carbon Only)	Heterocyclic (Contains N, O, or S)
Alicyclic (Non-Aromatic)	 Cyclohexane	 Tetrahydrofuran
Aromatic	 Benzene	 Pyridine & Furan

The Master Blueprint: Organic Classification





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