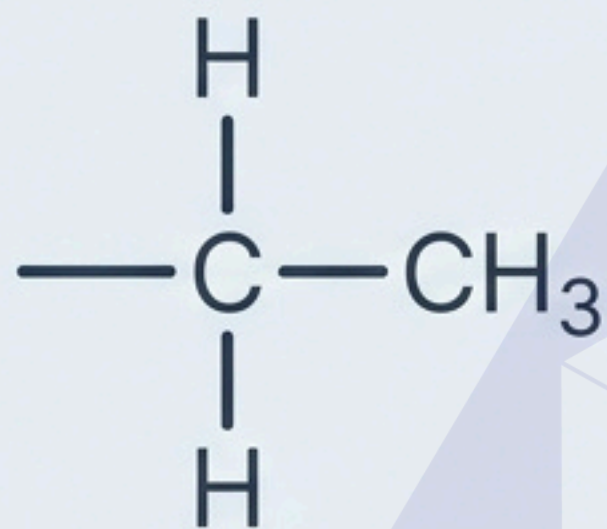
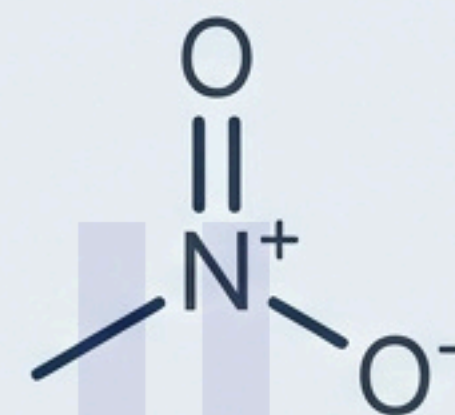


Benzene as the Parent Ring



Prefix + Benzene

Methyl + Benzene →
Methylbenzene

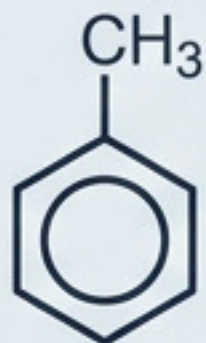


Prefix + Benzene

Nitro + Benzene →
Nitrobenzene

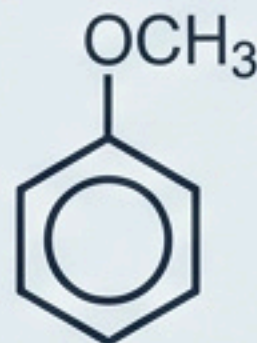
For simple monosubstituted aromatic compounds, the substituent is placed as a prefix to the word benzene.

Accepted Common Names (Trivial Nomenclature)



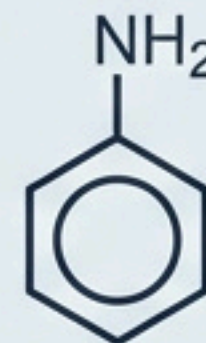
Methylbenzene

Toluene



Methoxybenzene

Anisole



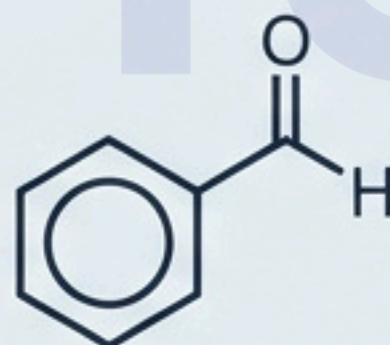
Aminobenzene

Aniline



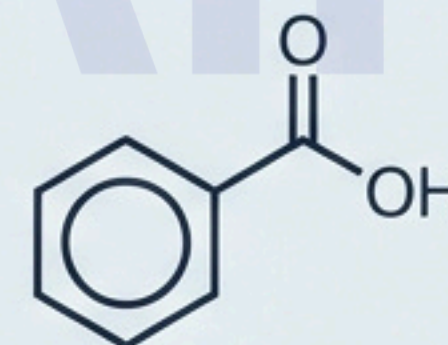
Hydroxybenzene

Phenol



Formylbenzene

Benzaldehyde

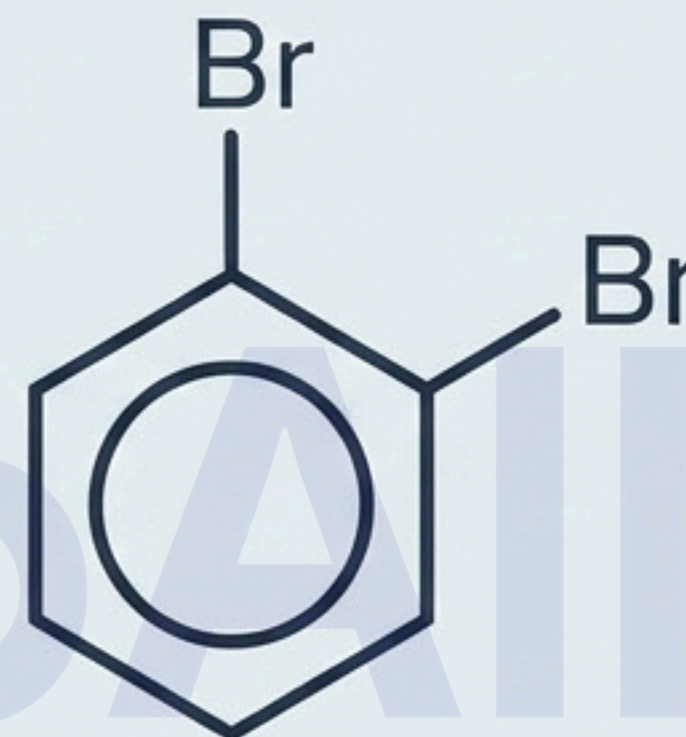
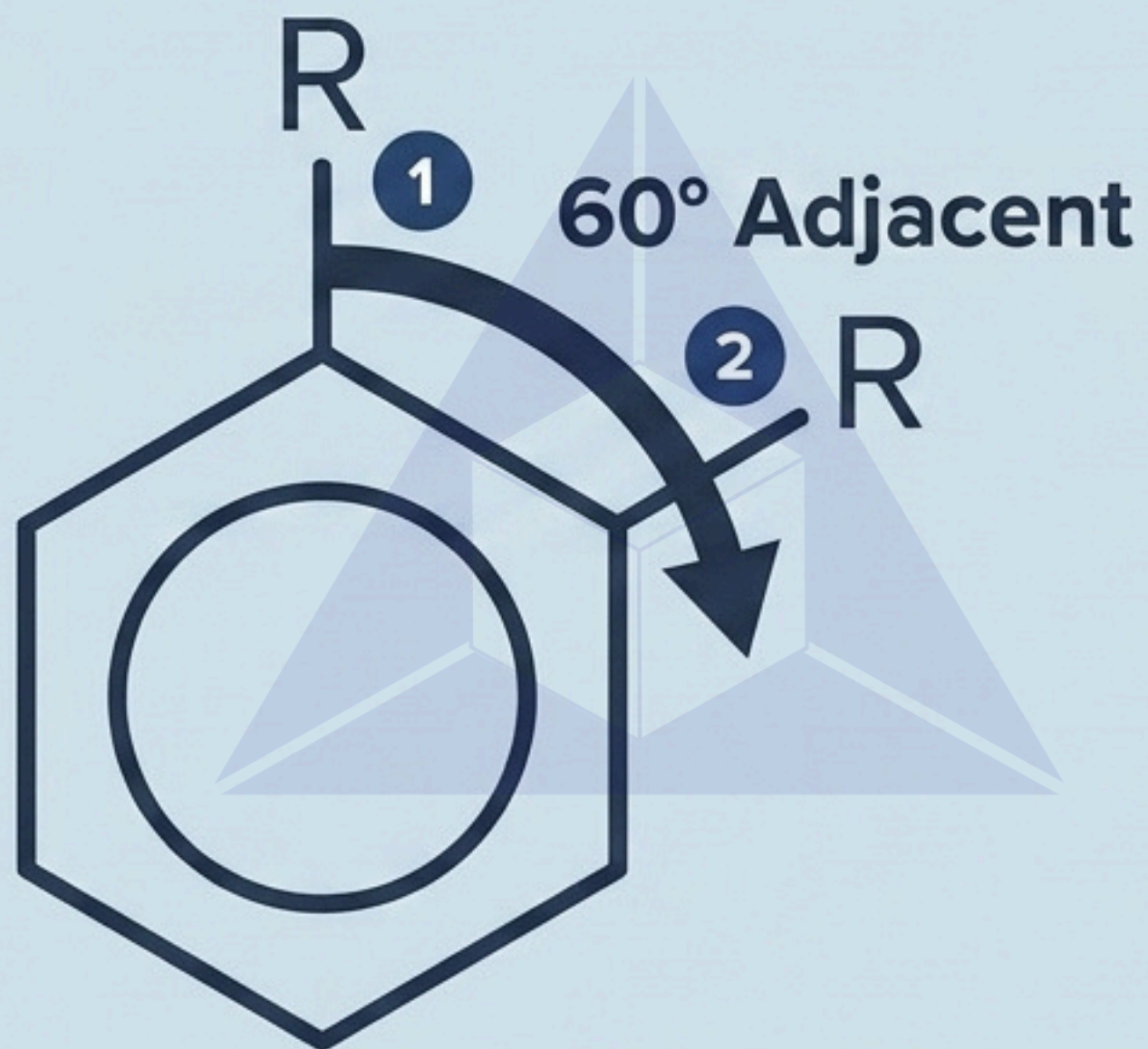


Carboxybenzene

Benzoic Acid

These trivial names act as the new 'parent' for further substitution.

Disubstitution: The Ortho Position (1,2)



IUPAC Name: 1,2-Dibromobenzene
o-Dibromobenzene

Ortho (**o-**) indicates substituents on strictly adjacent carbon atoms.



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$$E=mc^2$$



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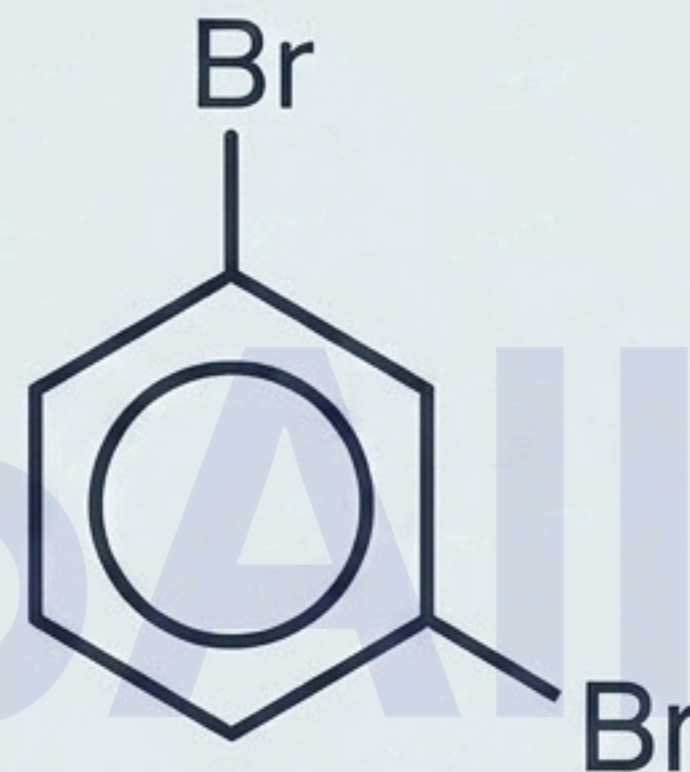
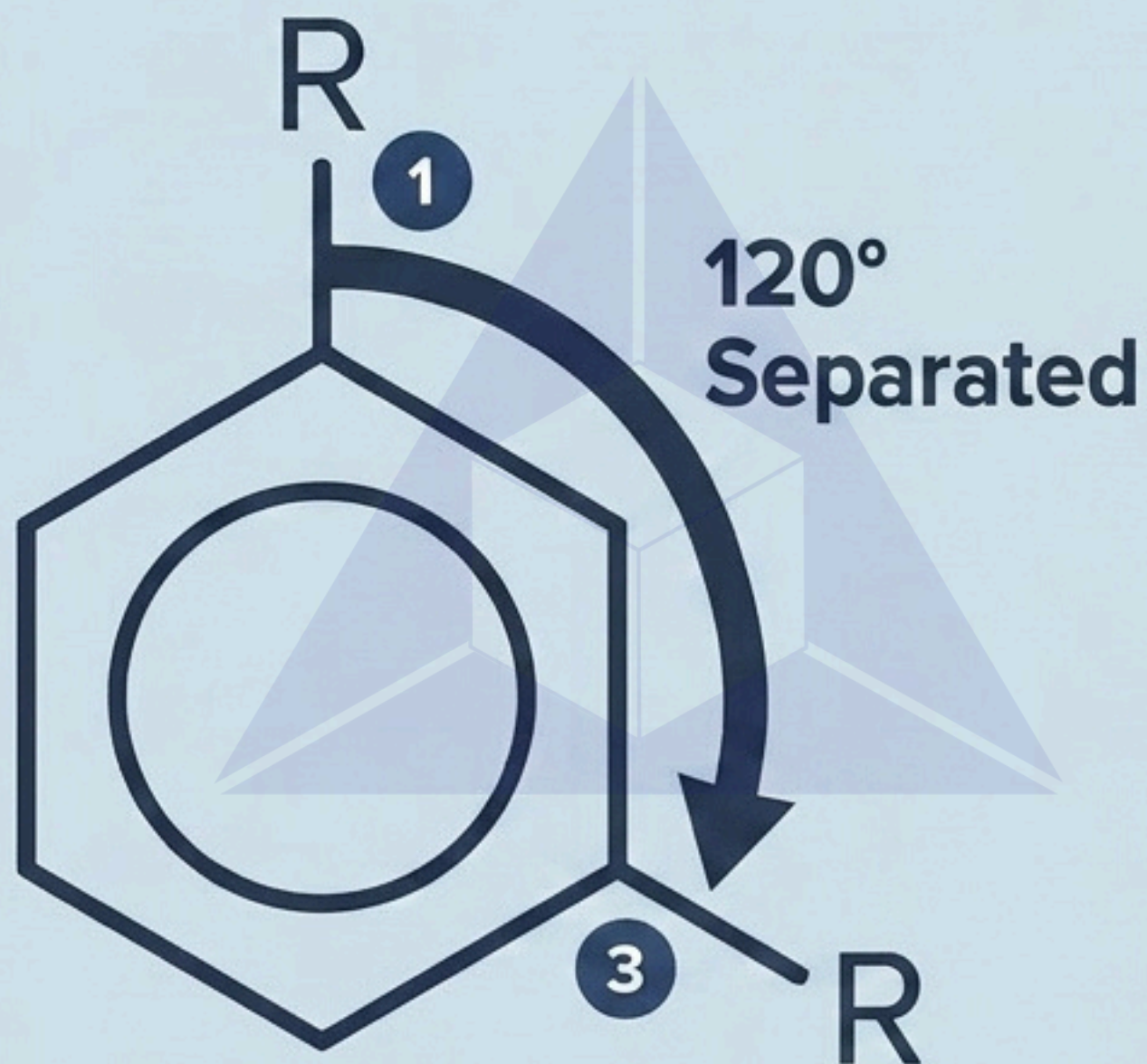
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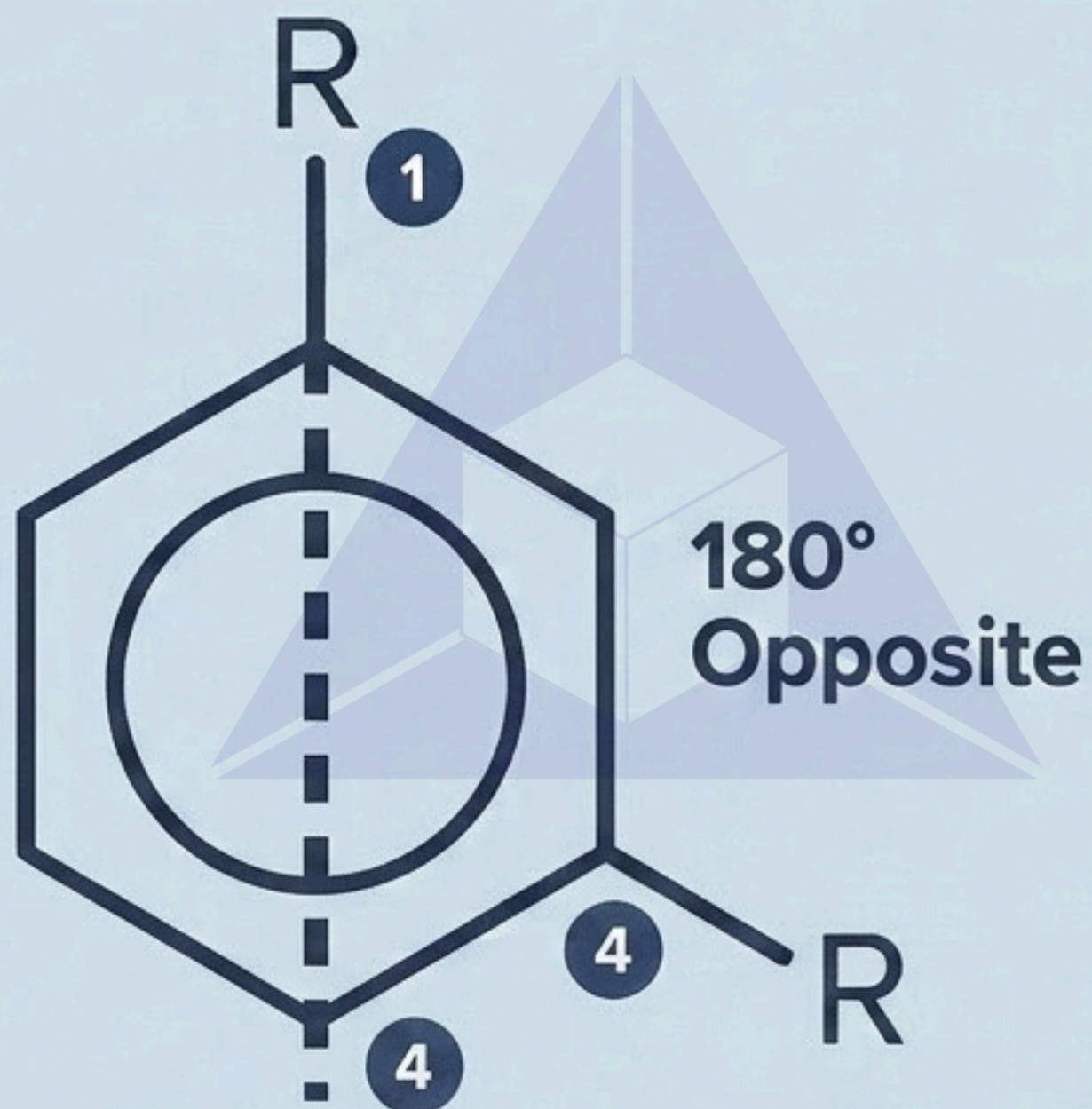
Disubstitution: The Meta Position (1,3)



IUPAC Name: 1,3-Dibromobenzene
***m*-Dibromobenzene**

Meta (***m***-) indicates substituents separated by one unsubstituted carbon atom.

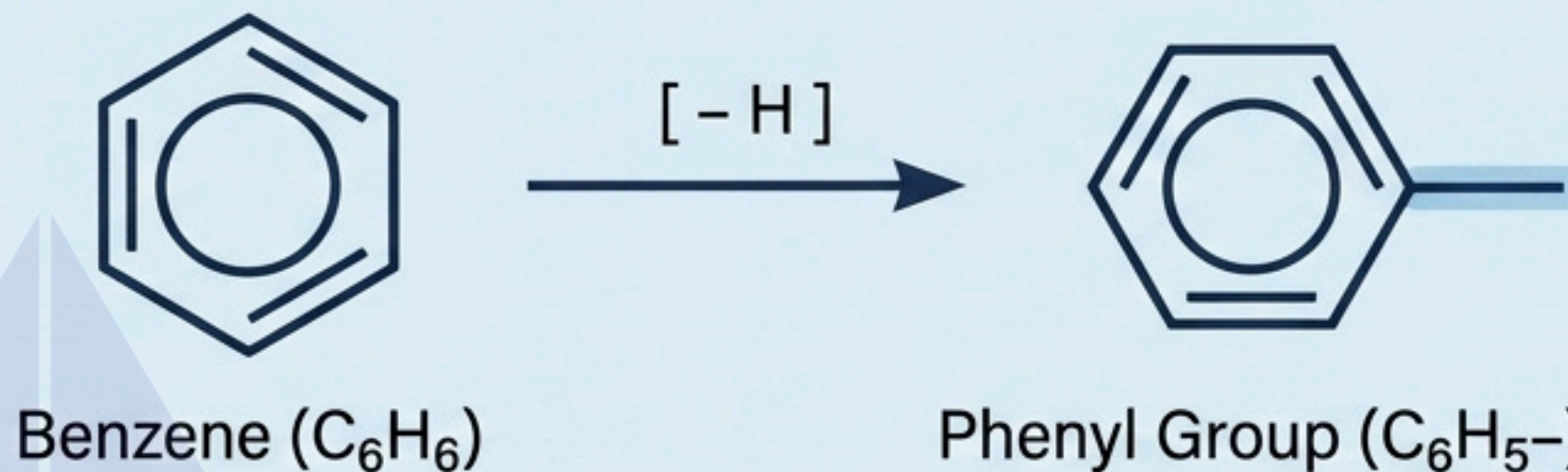
Disubstitution: The Para Position (1,4)



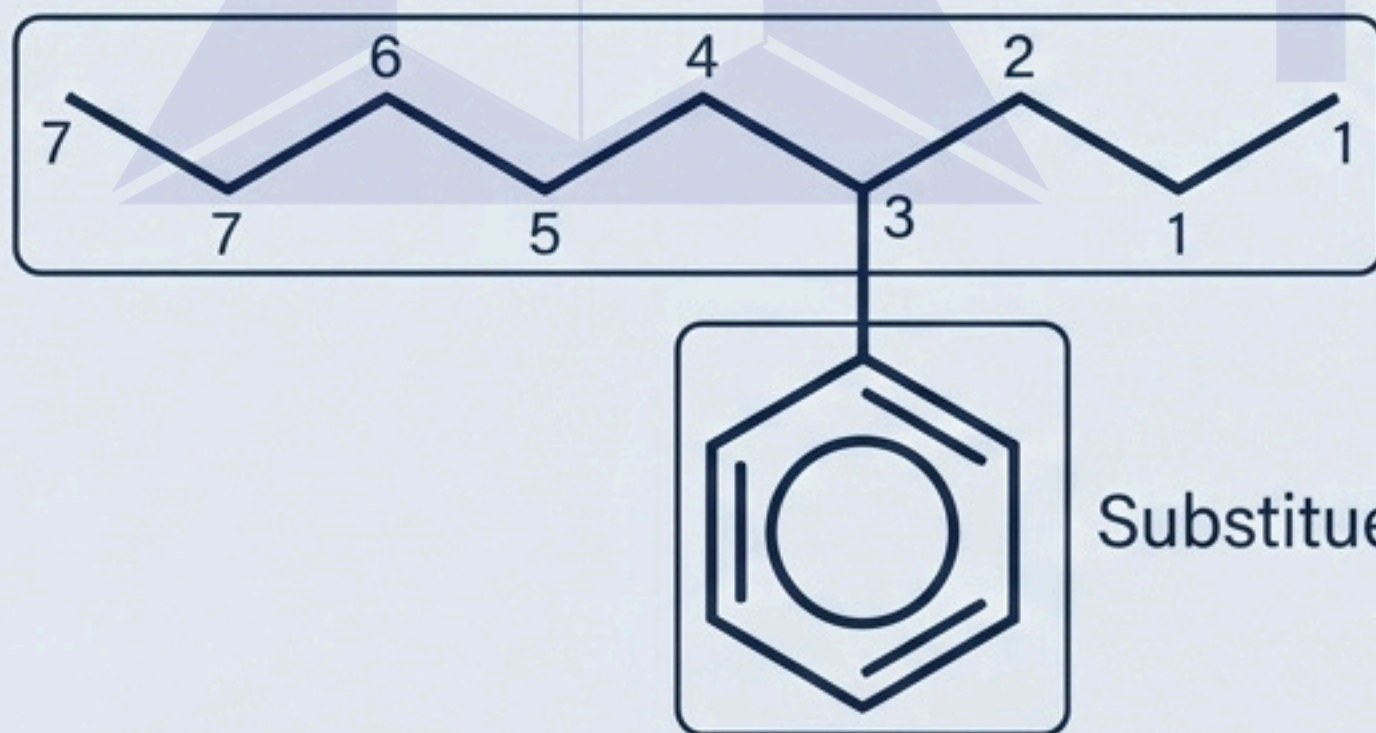
IUPAC Name: 1,4-Dibromobenzene
***p*-Dibromobenzene**

Para (*p*-) indicates substituents positioned exactly opposite each other on the ring.

Role Reversal: The Phenyl Group (C_6H_5-)



When Benzene loses one hydrogen, it becomes the Phenyl radical (abbreviated as Ph).



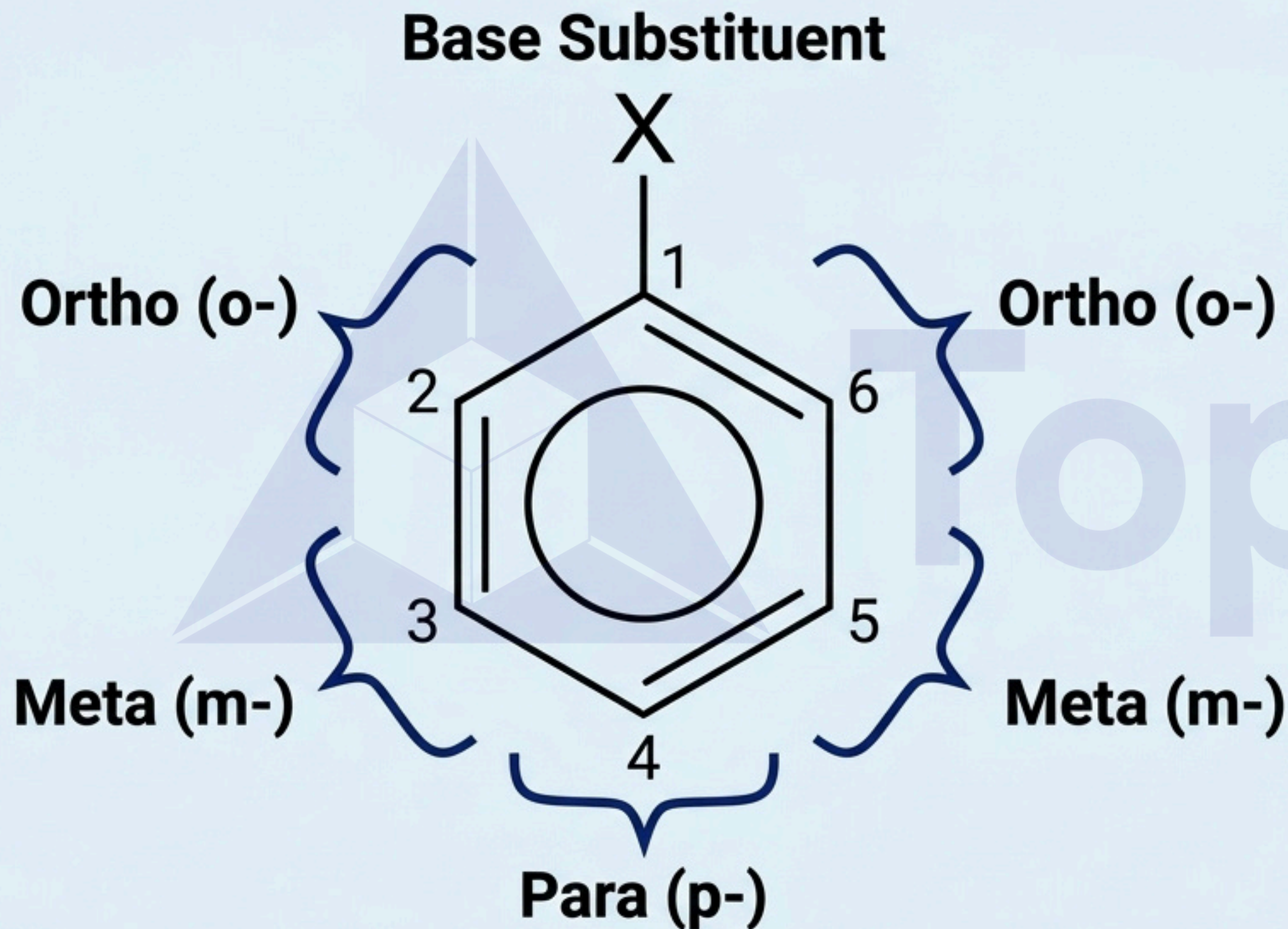
Parent Chain
(Heptane)

Substituent

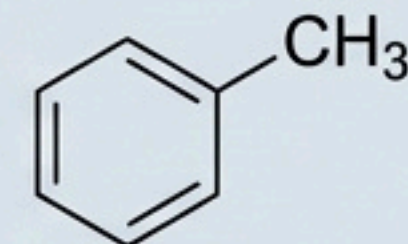
3-Phenylheptane

Rule: If the attached alkyl chain is larger (or contains a principal functional group), Benzene is demoted to a substituent.

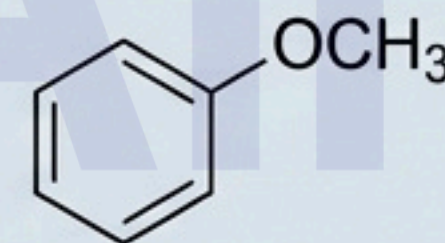
Master Blueprint: Aromatic Nomenclature



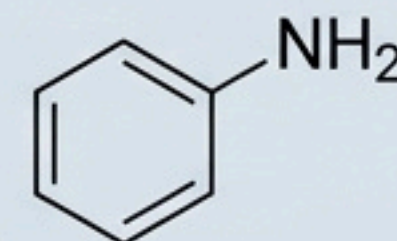
These act as position 1 (X) when present.



Toluene



Anisole



Aniline



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