

Same Connectivity, Different Space

The transition from 2D paper formulas to 3D physical reality.

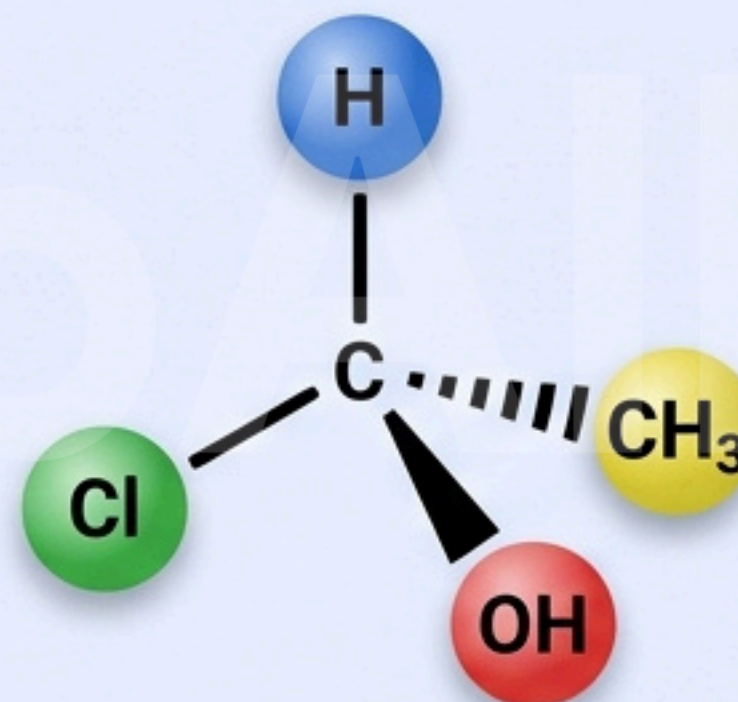
Structural Isomerism



Different connectivity. Visible on paper.



Stereoisomerism



Same connectivity. Hidden in space.

The NCERT Definition, Decoded

Compounds that have the same constitution and sequence of covalent bonds but differ in relative positions of their atoms or groups in space...

Same constitution
and sequence of
covalent bonds

+

Differ in relative
positions of their
atoms or groups
in space

=

Stereoisomers

1. Geometrical Isomerism

2. Optical Isomerism



You've Learned the Theory. Let's Test Them Now.

$$E=mc^2$$



Turn theory into marks with **unlimited MCQs, smart analysis, and focused revision.**

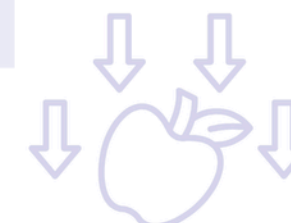
Practice Now



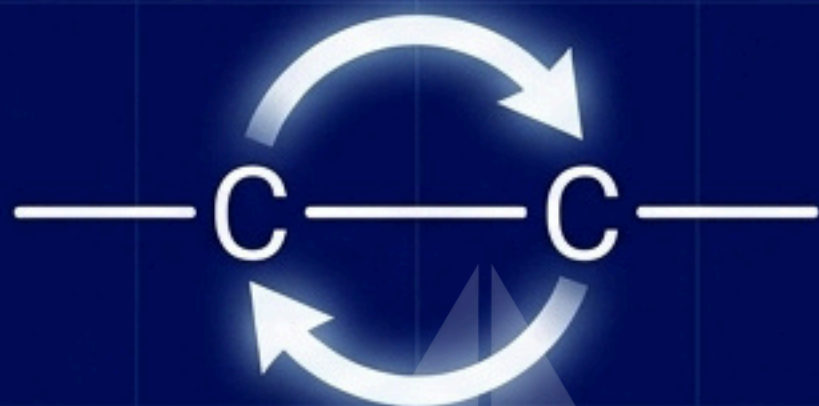
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Key Highlights

- » Free Study Material, Videos & Infographics
- » Push Your Limits with Level-Based Challenges
- » Climb the Leaderboard Among Fellow Aspirants
- » Practice Unlimited MCQs for NEET & JEE
- » Get Clear Explanations, Not Just Marks
- » Track Your Performance Smarter



Geometrical Isomerism: The Locked Axis

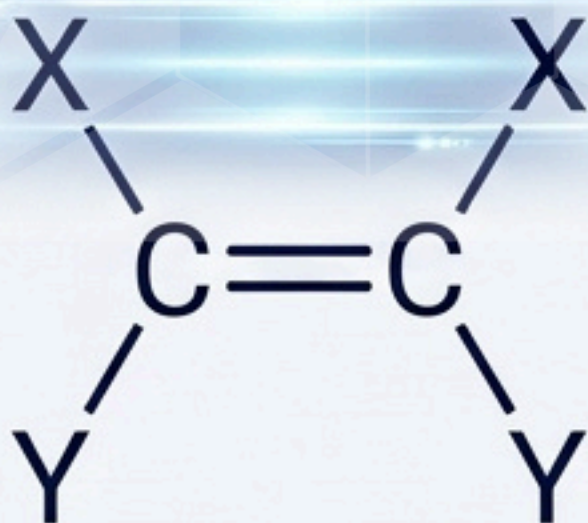


Free Rotation



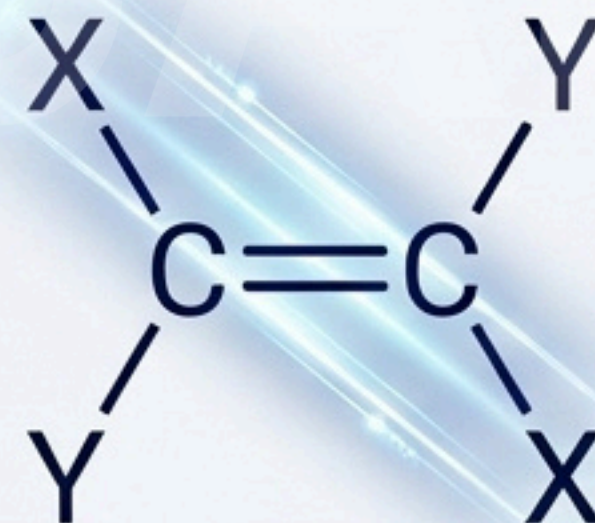
Restricted Rotation (The Cause)

Cis Configuration



Cis: Same side of the restricted axis.

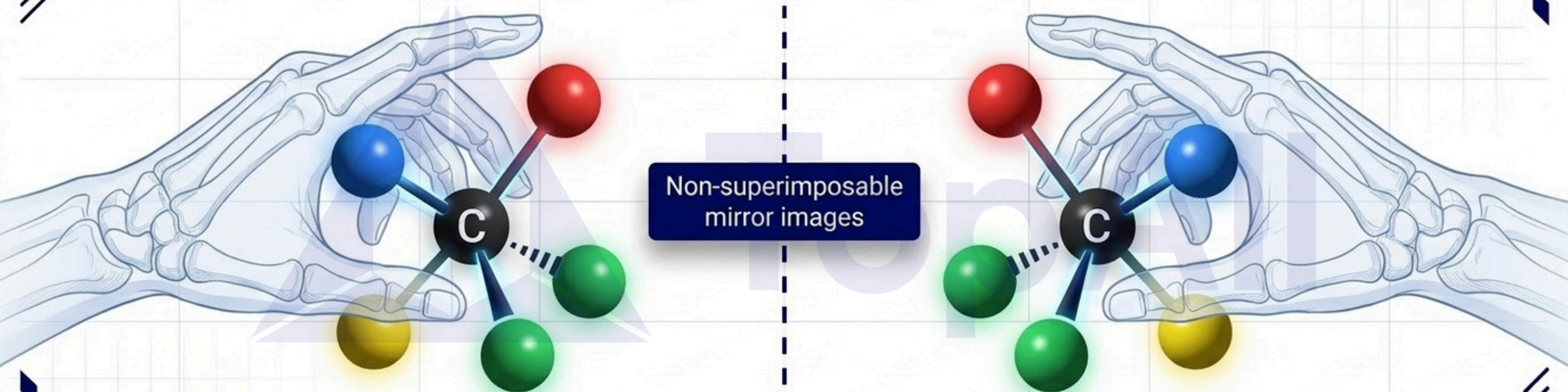
Trans Configuration



Trans: Opposite sides of the restricted axis.

Optical Isomerism: Asymmetry & Light

Driven by chiral centers—carbon atoms attached to four different groups.

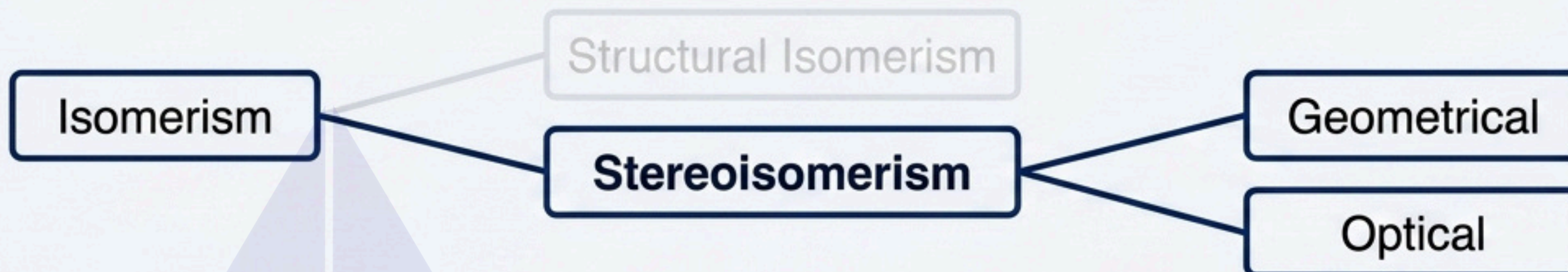


Dextrorotatory (d): Rotates plane-polarized light to the right (+).



Laevorotatory (l): Rotates plane-polarized light to the left (-).

Revision Frame: The Stereoisomerism Matrix



The Diagnostic Comparison Matrix		
Dimension	Geometrical Isomerism	Optical Isomerism
Origin of Isomerism	Restricted rotation (e.g., C=C)	Chiral center / Asymmetry
Physical Properties (in achiral environment)	Different (BP, MP, dipole)	Identical (except rotation direction)
Optical Activity	Inactive	Active (Rotates plane-polarized light)





You've Learned the Theory.

Now Let's Test It.

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Practice the moment you finish studying
Jump in while the concept is still fresh in your head

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