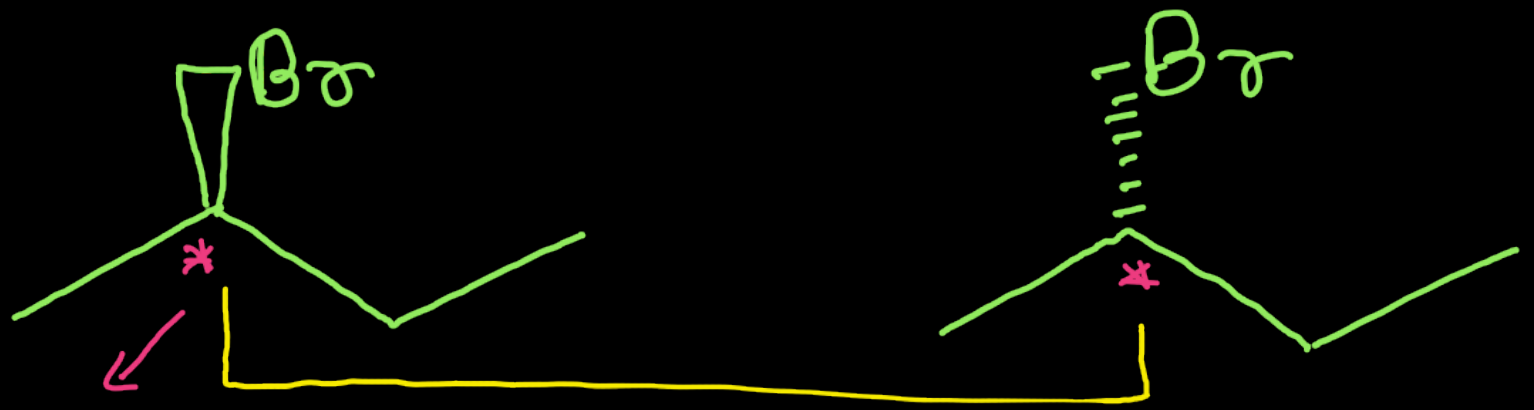
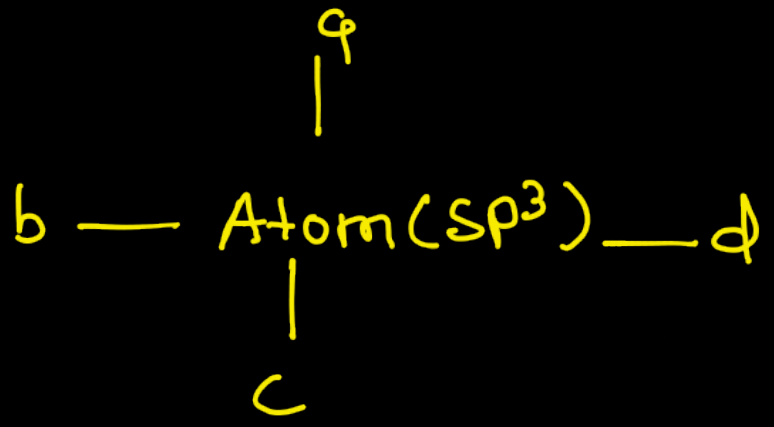
(1)



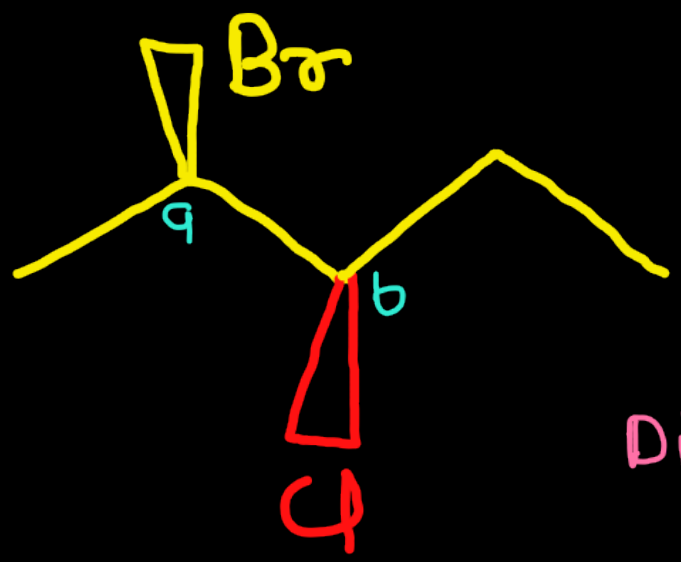
Chiral Centre

wedge to dash (Enantiomer)
(Apply when 1 chiral centre)

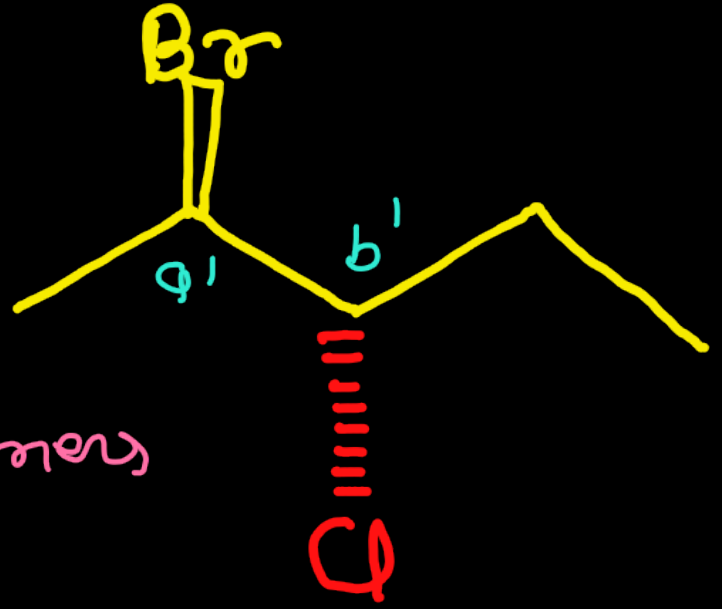


Enantiomer
→ Mirror Image
→ Non superimposible M.I.

(2)



Diastereomers



a ⟶ a' (No change)

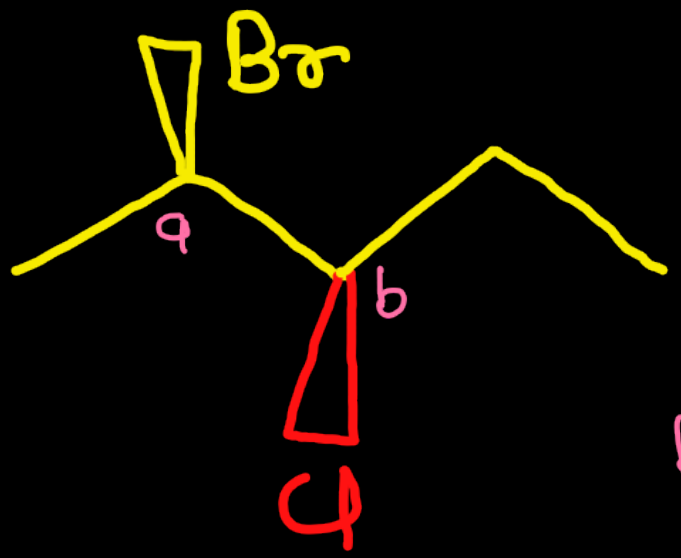
b — b' (Wedge to dash)

* When two chiral centre and any one of them is change i.e W ⟶ D or D ⟶ W Always Diastereomers.

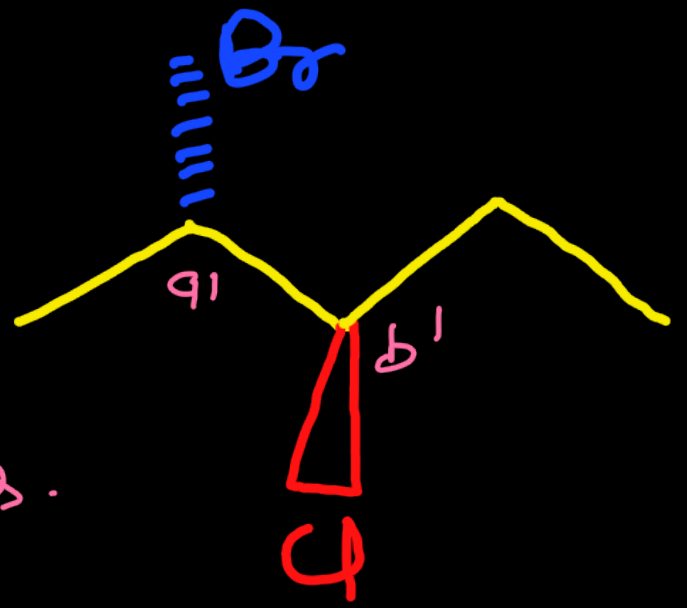
Diastereomers

Which are not mirror image.

(3)



Diastereomers.

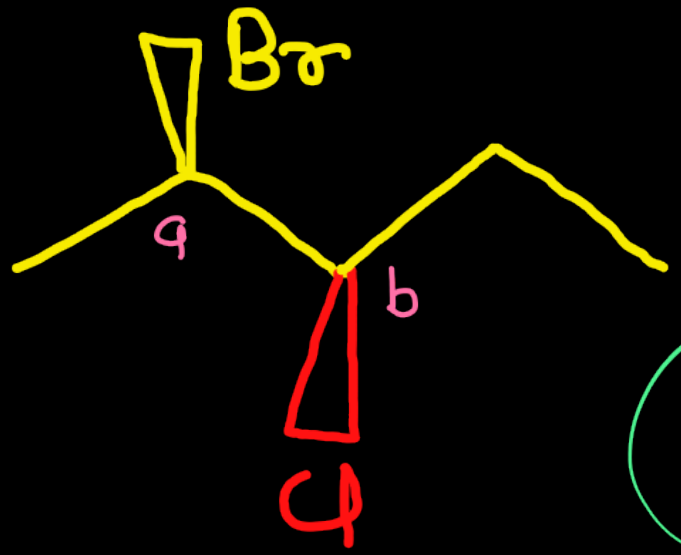


d h)

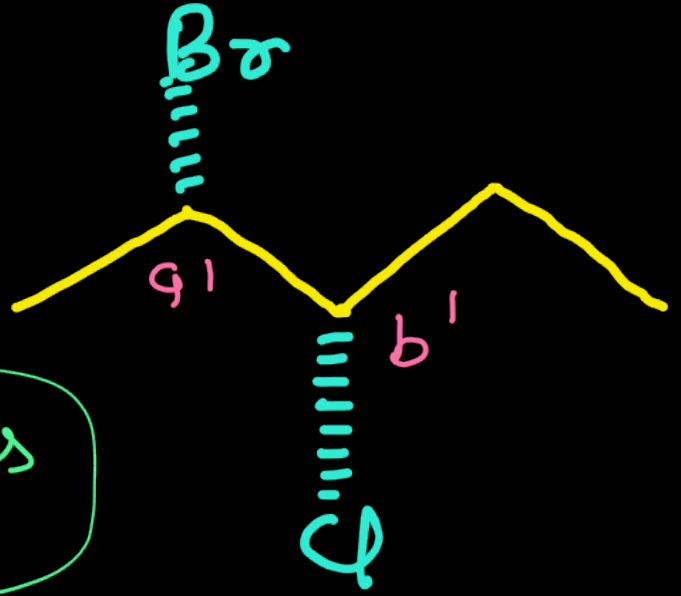
a ⟶ a' (Change wedge to ⌀

b ⟶ b' (No change)

(4)



Enantiomers



a ⟶ a' (Change)

b ⟶ b' (Change)

Enantiomers

M.I , N.S.I

II- Method

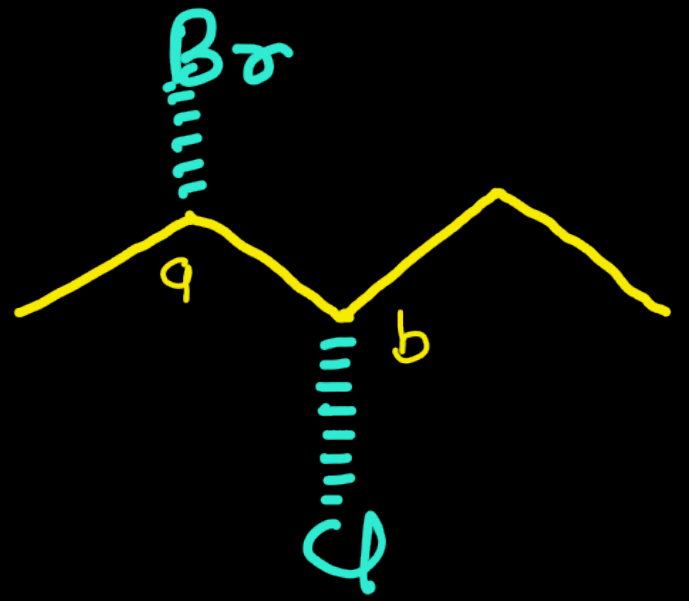
*

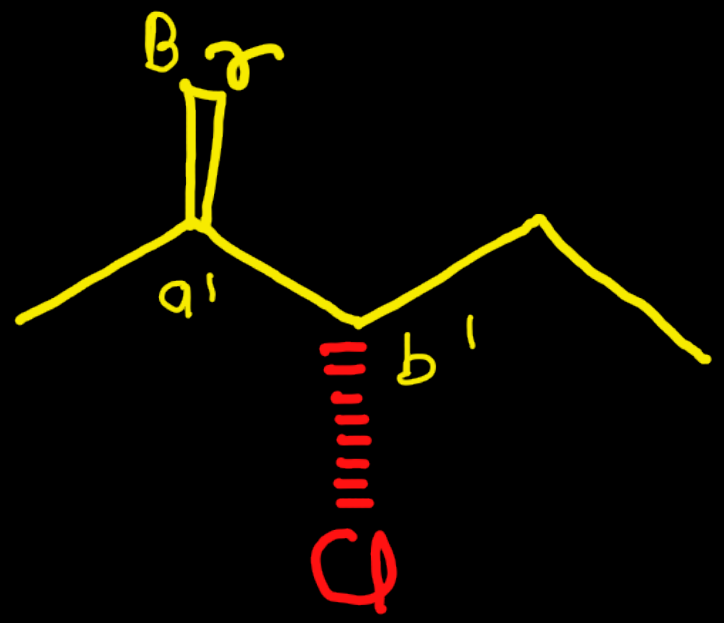
Two chiral centre

a	a'	b	b'
R	S	R	S
S	R	S	R

or

(5)



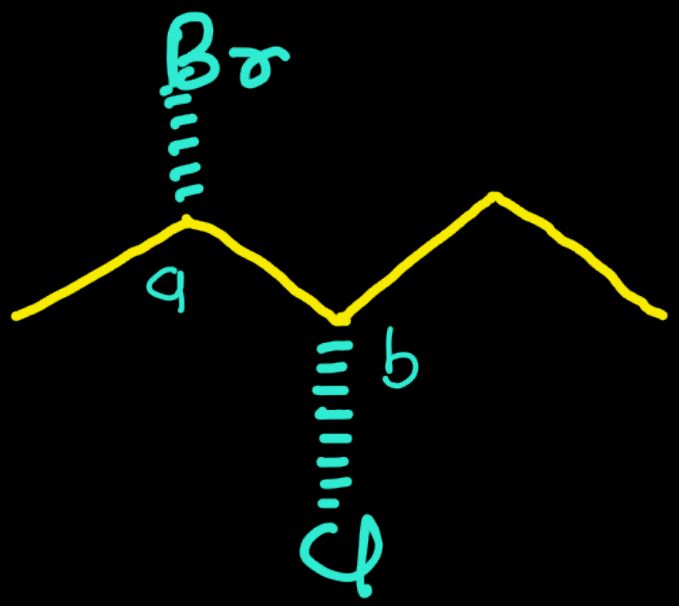


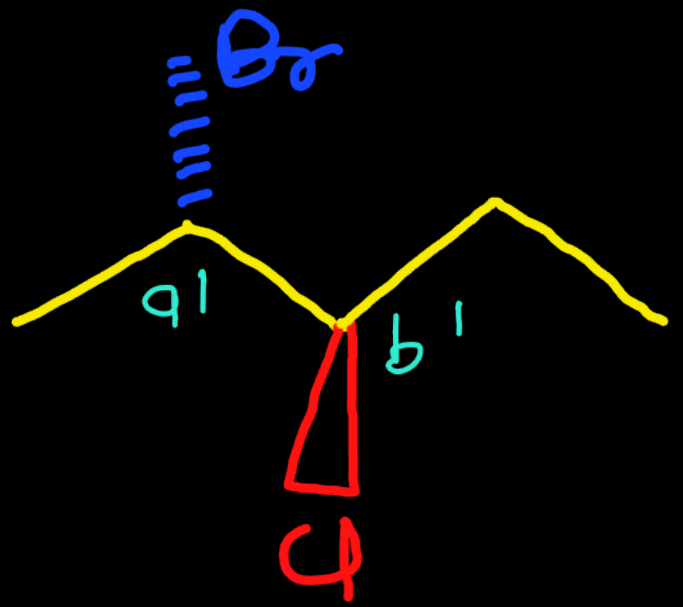
a ⟶ a' (Dash ⟶ wedge change)

b ⟶ b' (No change)

Diastereomers

(6)



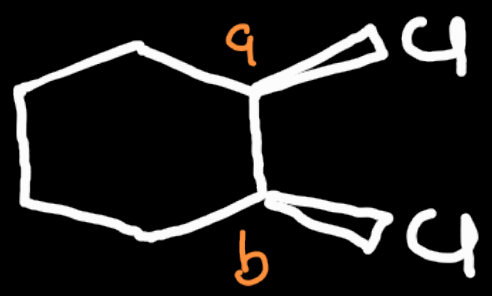


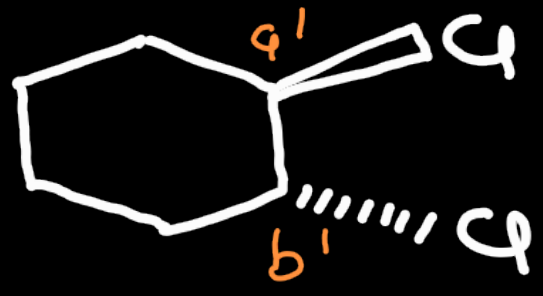
a ⟶ a' (No change)

b ⟶ b' (change dash ⟶ wedge)

Diastereomers.

(7)



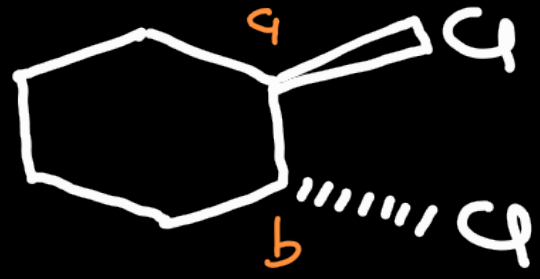


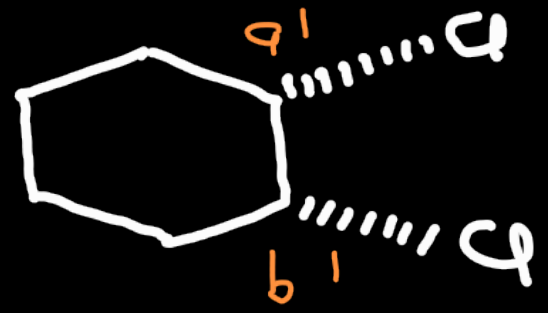
a ⟶ a' (No change wedge ⟶ wedge)

b ⟶ b' (change wedge ⟶ dash)

Diastereomers.

(8)

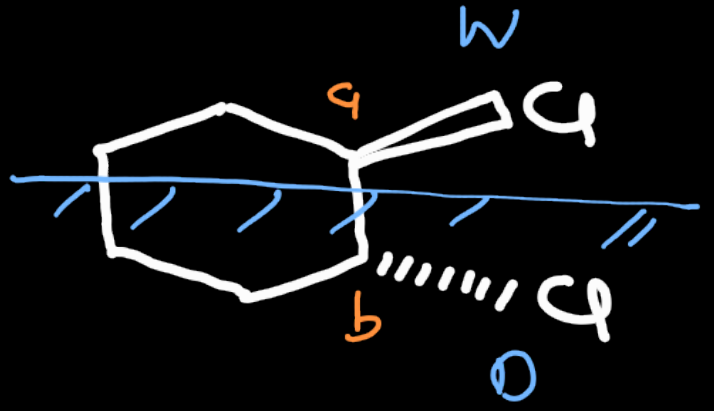




a ⟶ a' (change)

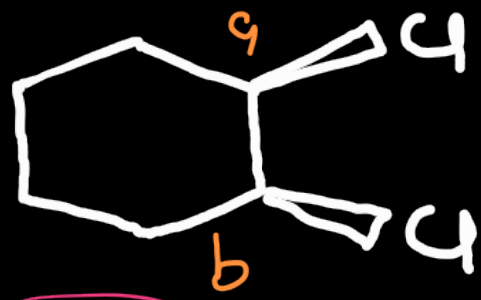
b ⟶ b' (No change)

Diastereomers.

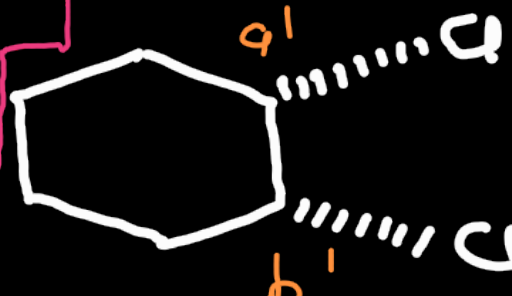


POS(X)

(9)



a	a'	b	b'
R	R	R	R
or S	S	or S	S'

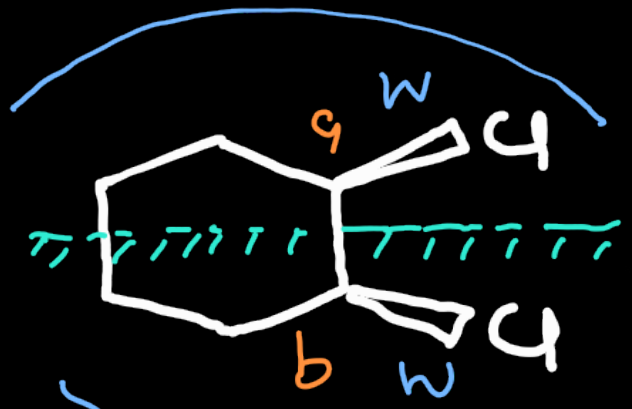


Meso

Identical

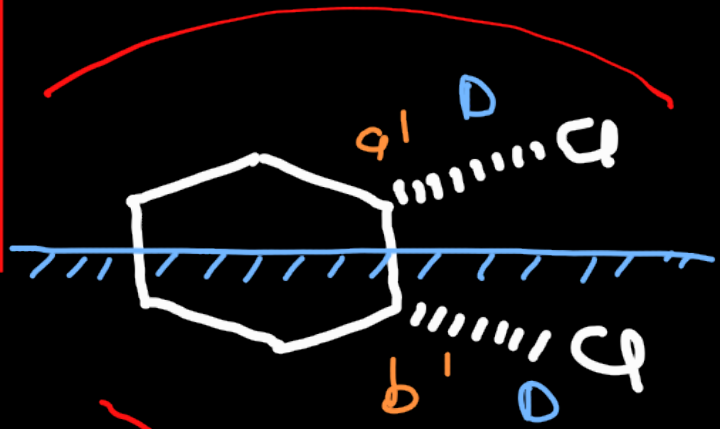
Meso

2 Chiral Centre and pos Meso



Meso

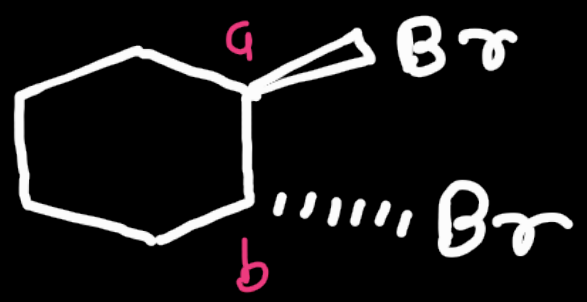
pos (v) ⇒ Meso



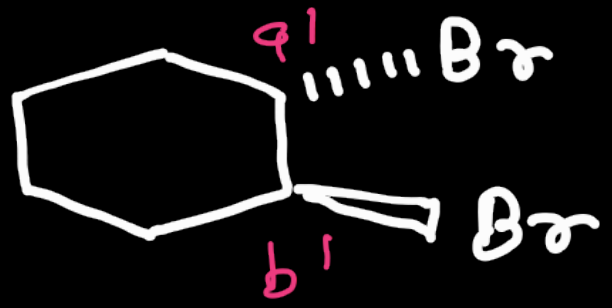
Meso

pos(v)

(10)



Meso (x)



Meso (x)

a ⟶ a' (change)

b ⟶ b' (change)

Enantiomers.