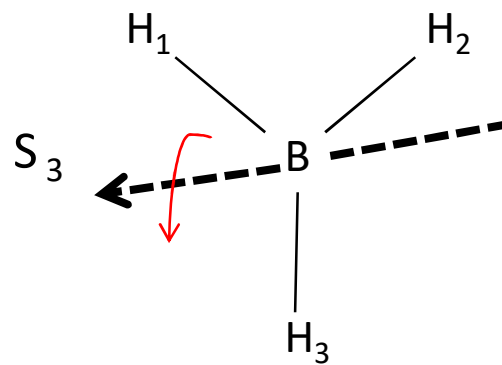
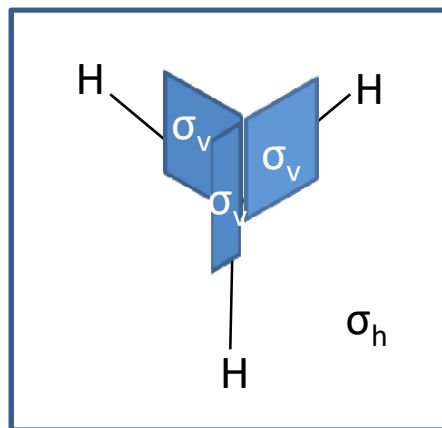
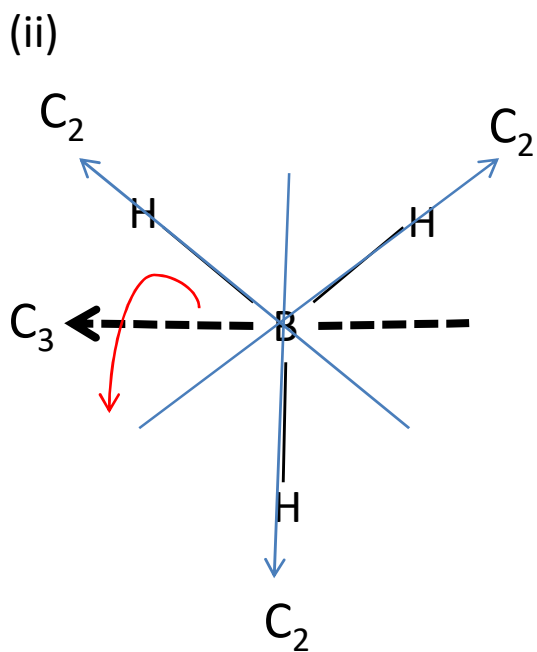
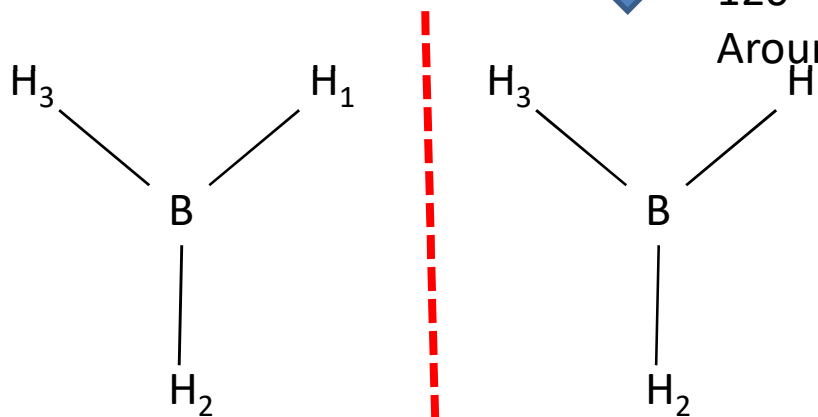


If the molecule is rotated by a very small angle around the axis, it will produce an indistinguishable structure. For example $360^\circ / 0.034 = 10558.24$. So you can take an angle, as much small as possible.

1. One C_∞
2. Two C_2
3. Infinite number of σ_v planes.
4. One σ_h plane.
5. Center of inversion (i) is present.
6. Two S_2 are present. These S_2 are superimposed over C_2 axis.



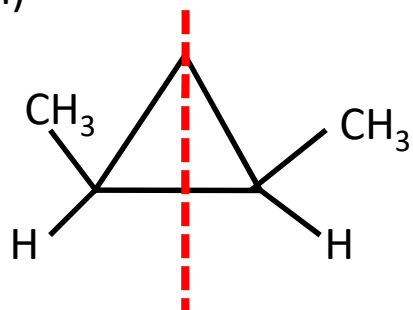
After rotation of
120°
Around the axis



Mirror plane

1. One C_3 axis
2. Three C_2 axis.
3. One σ_h
4. Three σ_v
5. One S_3 .

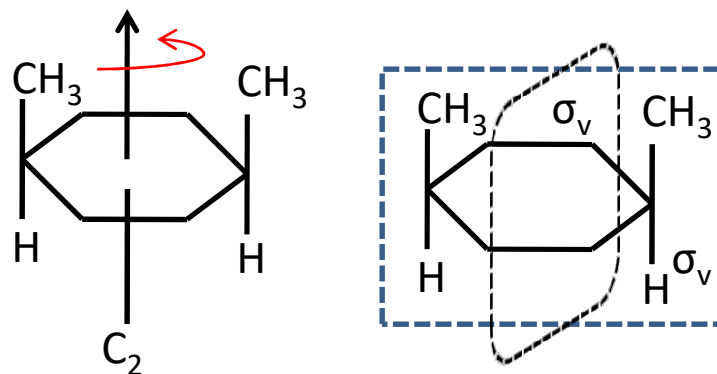
(iii)



Mirror plane

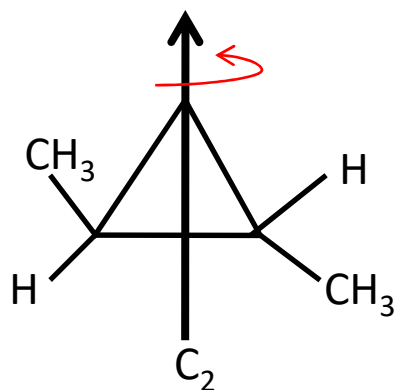
One plane of symmetry.

(iv)



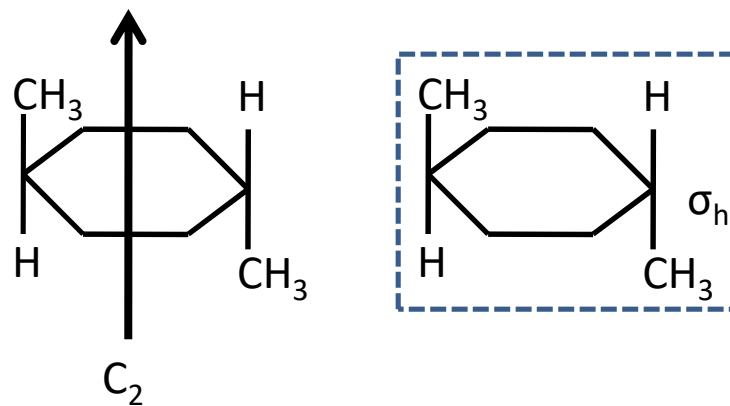
1. One C₂ axis of symmetry.
2. Two sigma_v

(iv)



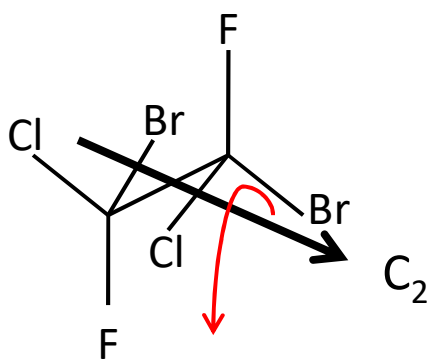
One C₂ axis of symmetry.

(iv)



1. One C₂ axis of symmetry.
2. One sigma_h
3. Centre of inversion is present.
4. One S₂ is present.

(vii)



One C_2 axis of symmetry.

(iv) and (vii) are disymmetric compounds.