

有機物質化学

2: 有機立体化学

(立体配置異性体と立体配座異性体)

立体異性体

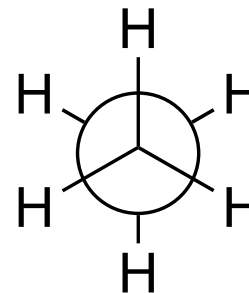
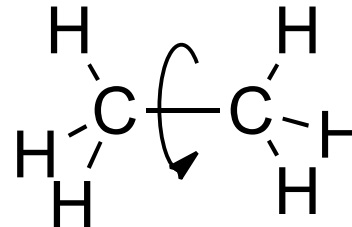
(立体配置異性体と立体配座異性体)

立体配置: 立体異性体を生じさせる構造属性のうち
立体配座以外のもの

立体配座: 結合の内部回転によって相互変換しうる
原子の空間配列

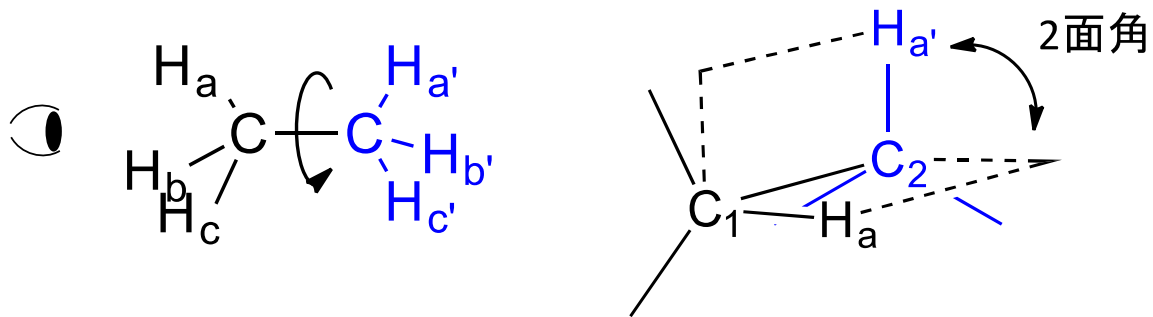


ethane

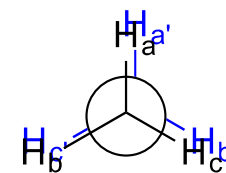
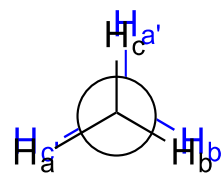
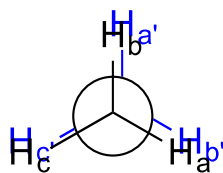
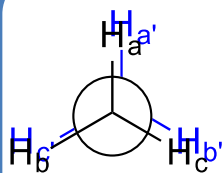


Newman投影図

Ethaneの立体配座異性体



重なり型配座 (eclipsed form)



2面角

0

60

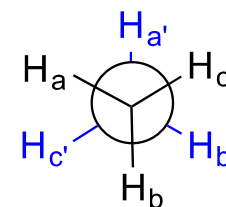
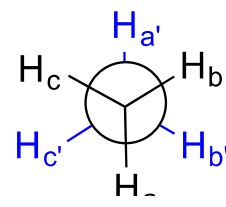
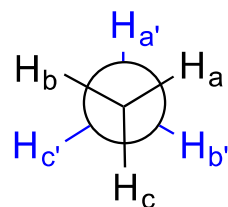
120

180

240

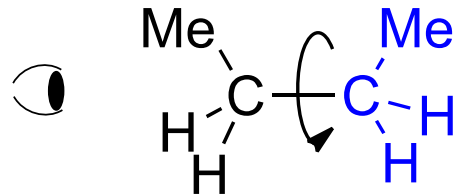
300

360



ねじれ型配座 (staggered form)

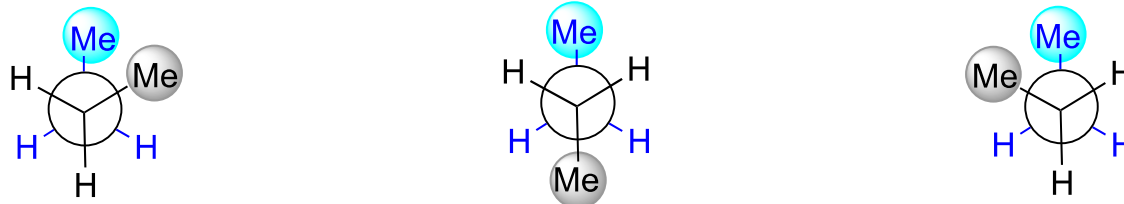
Butaneの立体配座異性体



重なり型配座 (eclipsed form)

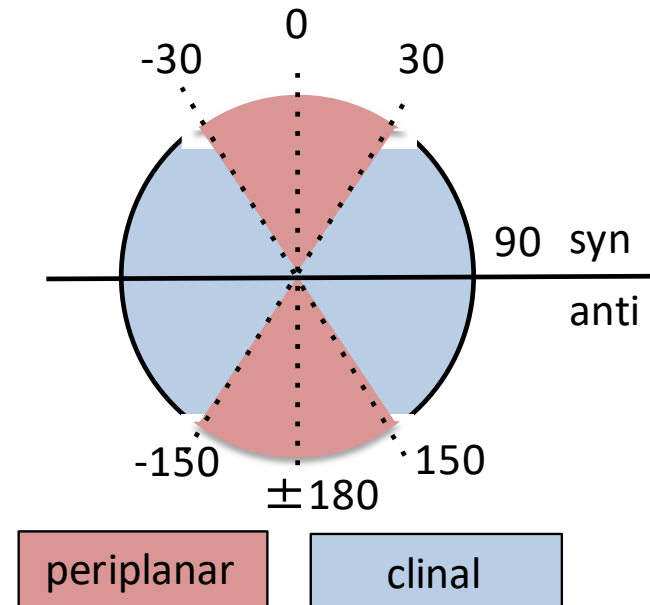
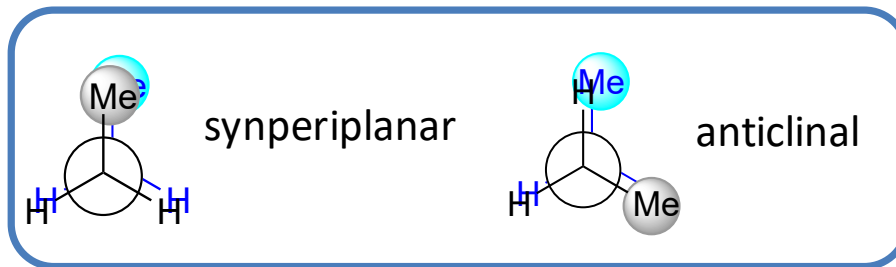
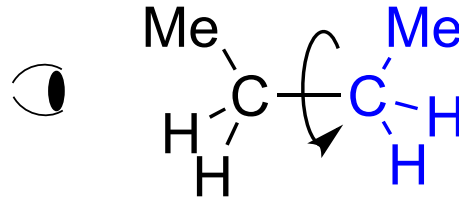


2面角 0 60 120 180 240 300 360

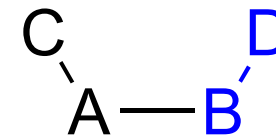
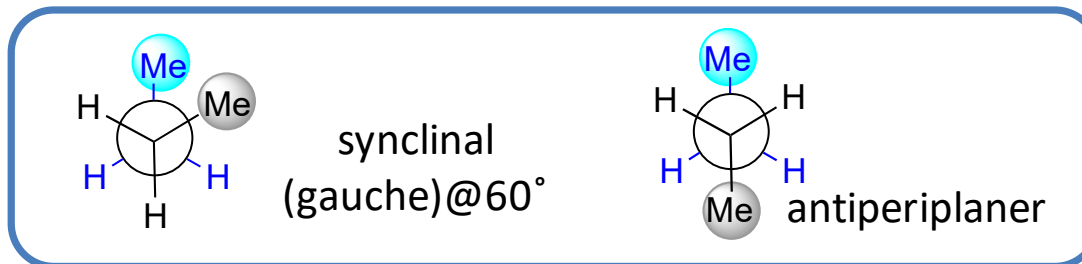


ねじれ型配座 (staggered form)

Butaneの立体配座異性体



2面角 0 60 120 180



Cyclohexaneの立体配座異性体

