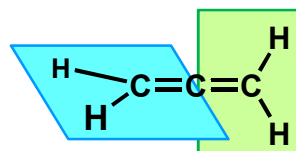
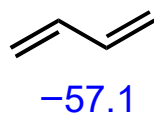
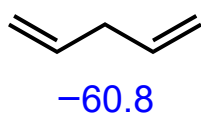
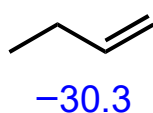
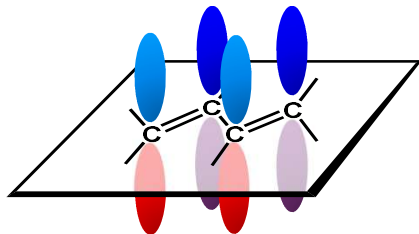


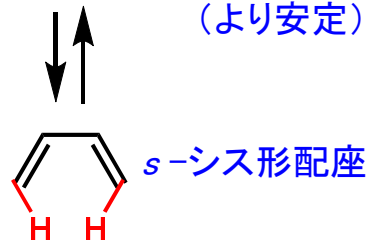
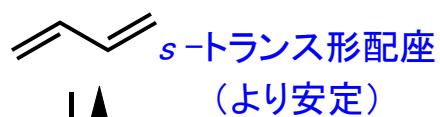
アレン

共役ジエンの水素化熱 $\Delta H^\circ$  (kcal/mol)共役による安定化  
 $\pi$ 電子の非局在化

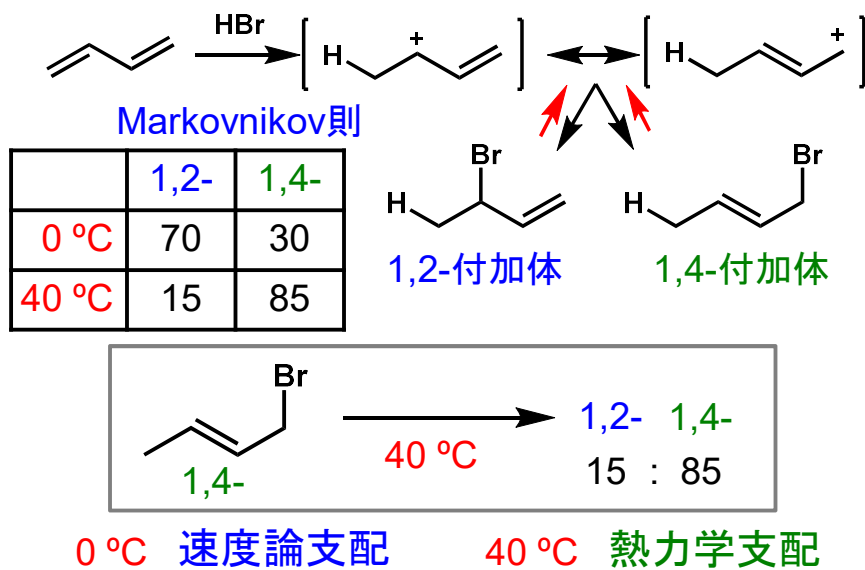
共役ジエンの立体配座



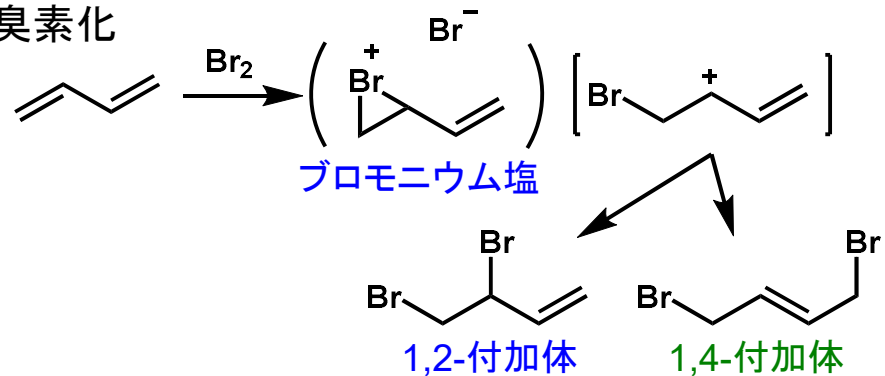
- 平面構造
- p軌道が平行



## HXの付加 【速度論支配 vs. 熱力学支配】



## 臭素化



## 共役トリエン

