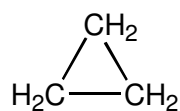


CIKLOALKÁNOK

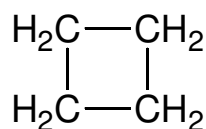
Homológ sor C_nH_{2n}

Enevezés cikloalkán

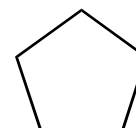
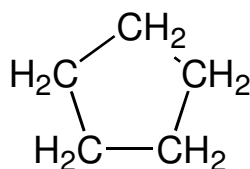
ciklopropán



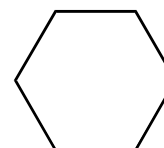
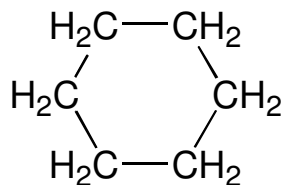
ciklobután



ciklopentán



ciklohexán

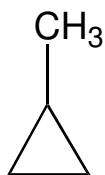


Konstitúciós izoméria

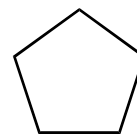
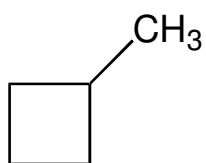
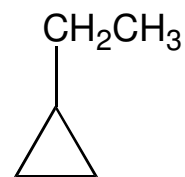
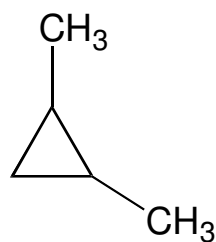
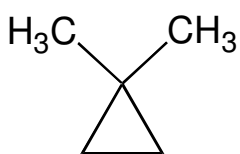
C_3H_6



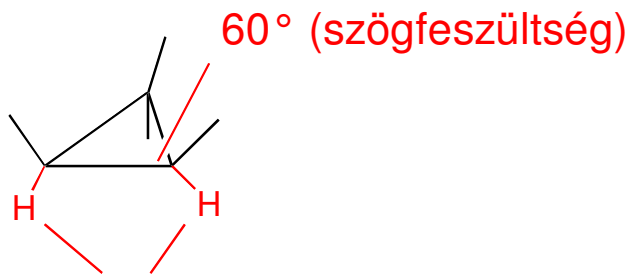
C_4H_8



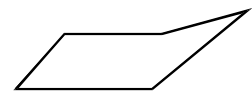
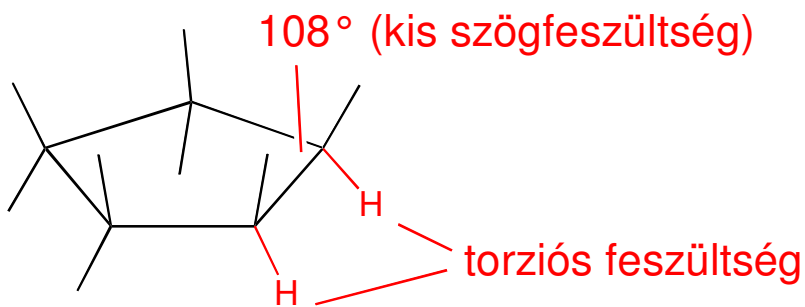
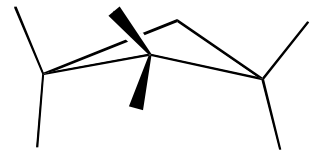
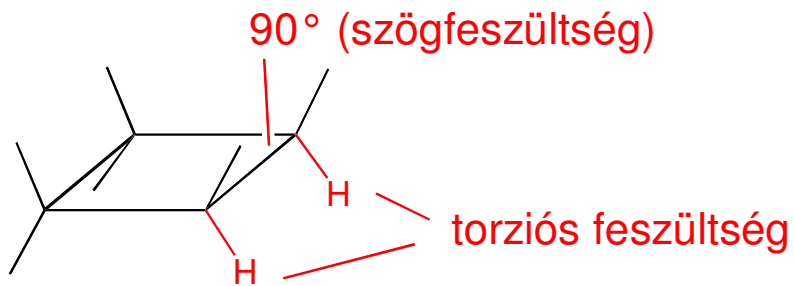
C_5H_{10}



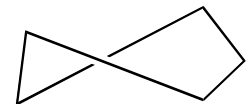
A CIKLOALKÁNOK SZERKEZETE



fedő állás (torziós feszültség)

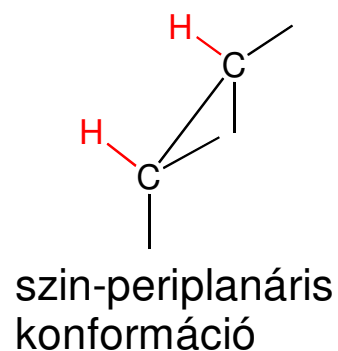
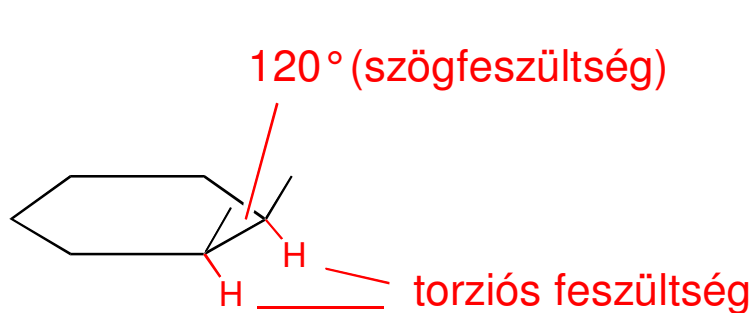


"boríték"

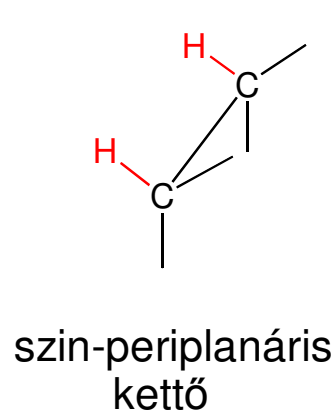
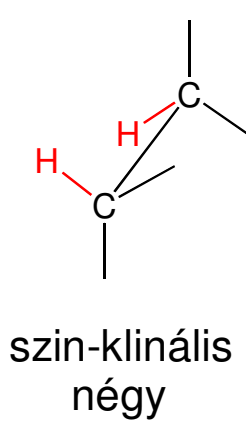
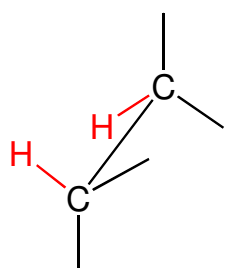
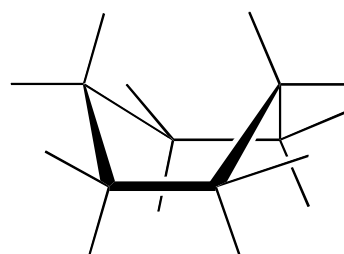
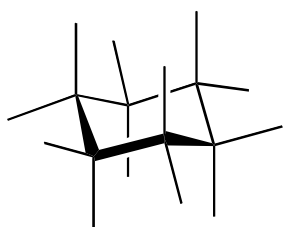


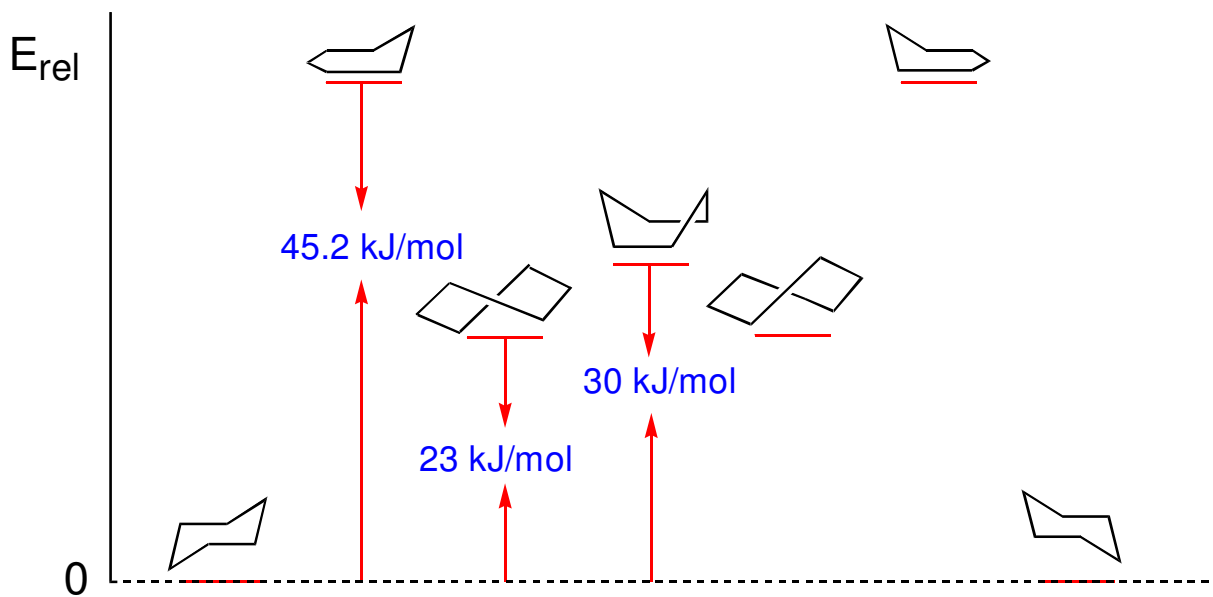
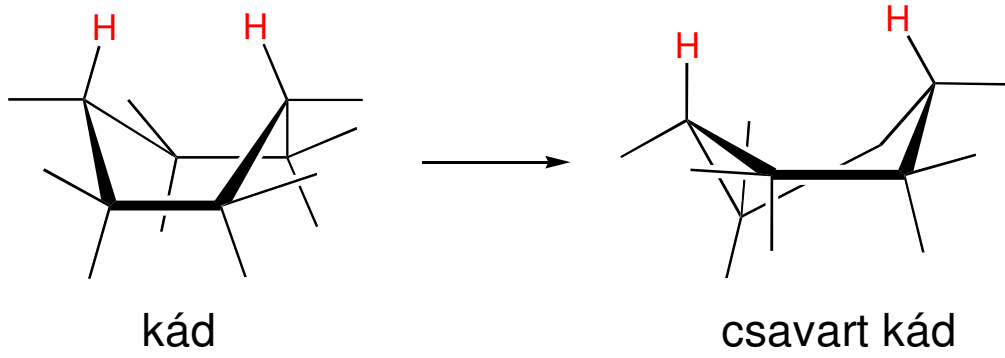
"csavart"

Ciklohexán, Baeyer modell



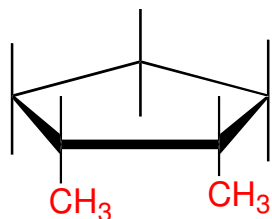
Sachse-Mohr modell



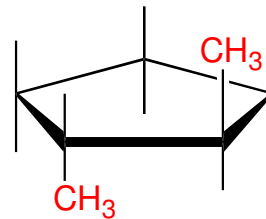


A CIKLOALKÁNOK SZTEREOIZOMÉRIÁJA

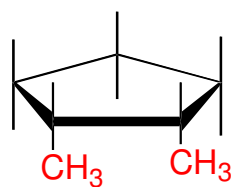
GEOMETRIAI IZOMÉRIA (cisz-transz izoméria)



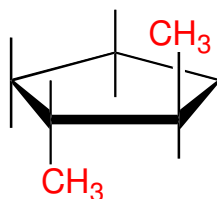
cisz-1,2-dimetilciklopentán
fp. 99 °C



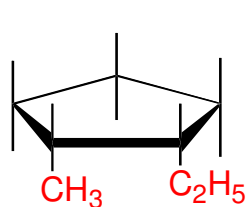
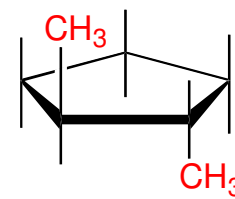
transz-1,2-dimetilciklopentán
fp. 92 °C



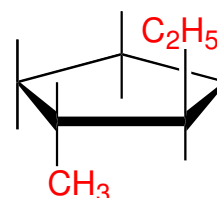
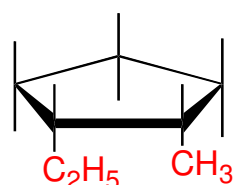
cisz
akirális



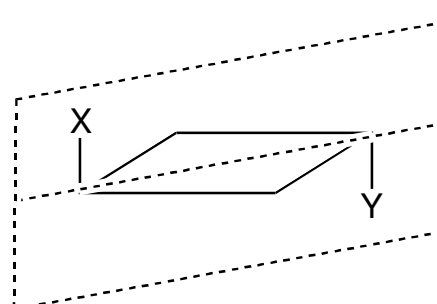
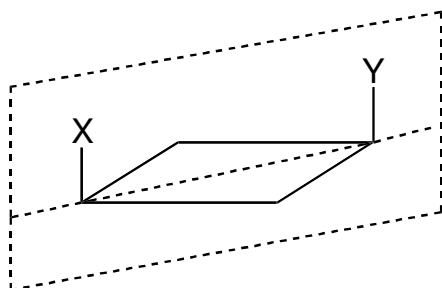
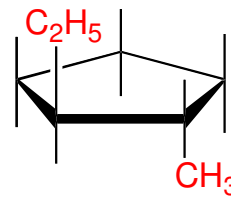
transz
királis



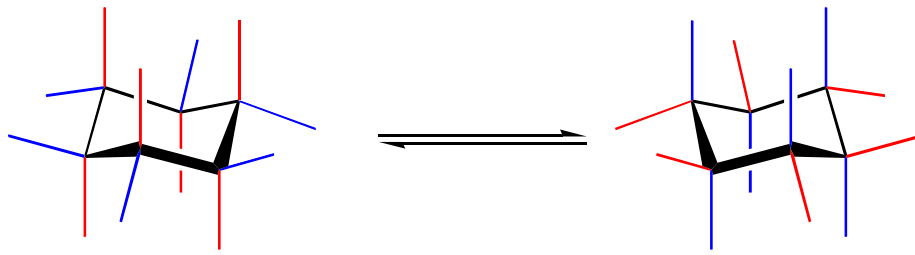
cisz
királis



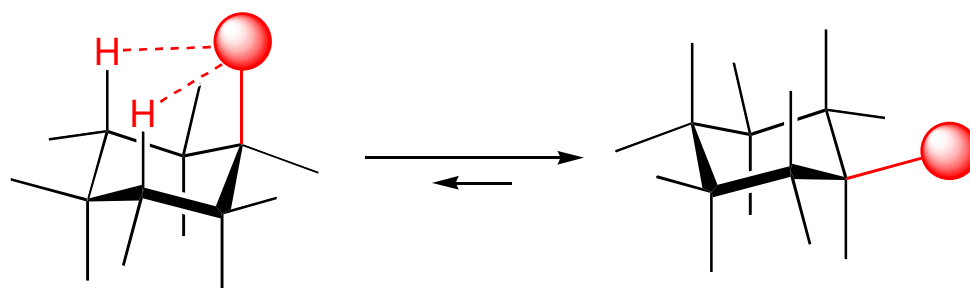
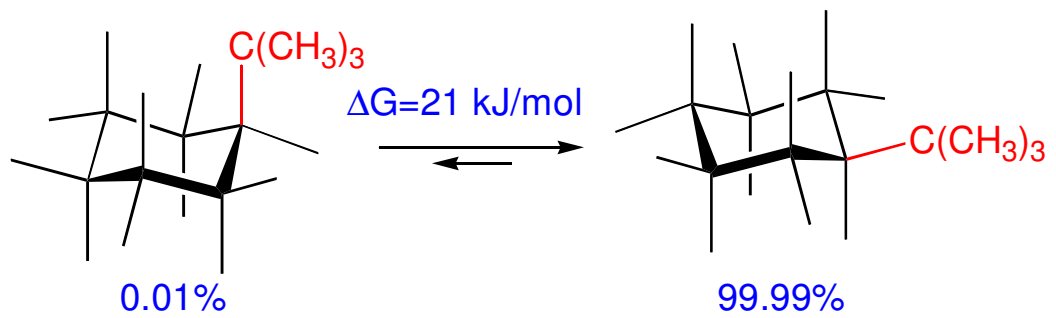
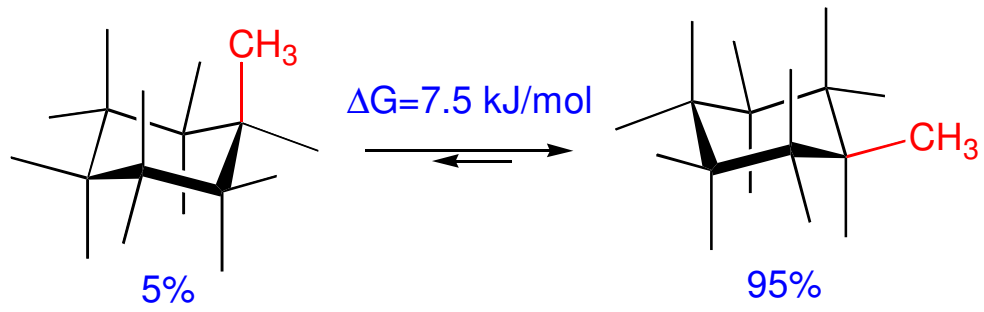
transz
királis



2 sztereoizomer

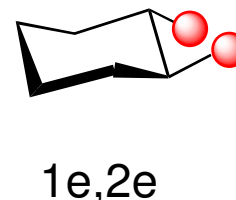
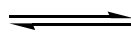
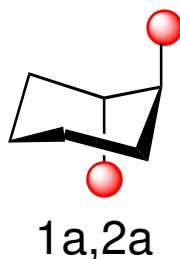
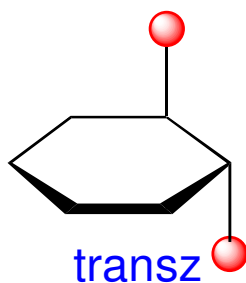
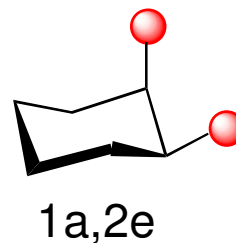
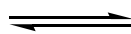
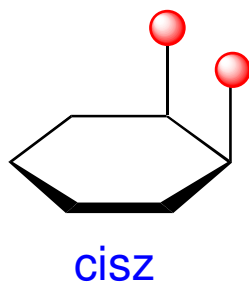


Szubsztituált cikloalkánok

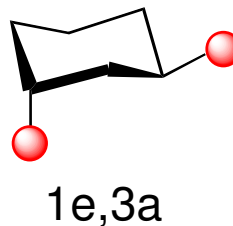
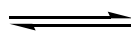
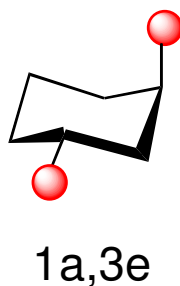
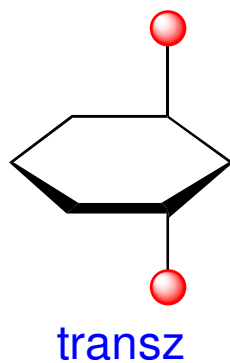
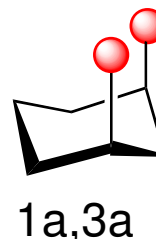
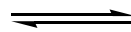
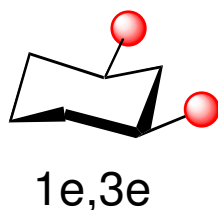
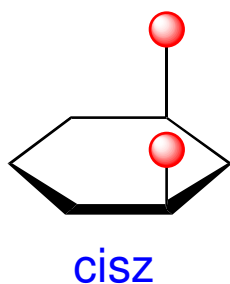


Diszubsztituált ciklohexán származékok

1,2-diszubsztitúció

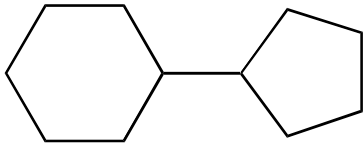


1,3-diszubsztitúció

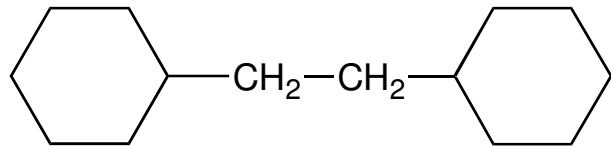


TÖBBGYŰRŰS RENDSZEREK

Izolált gyűrűs policikloalkánok

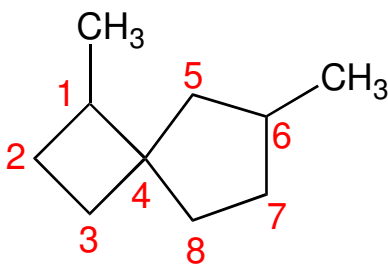


ciklopentilciklohexán



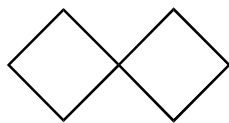
1,2-diciklohexiletán

Spirovegyületek

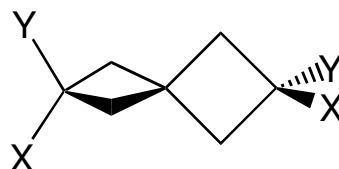
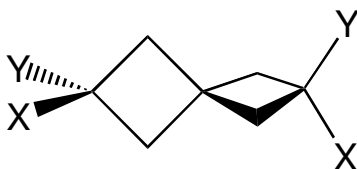


1,6-dimetilspiro[3.4]oktán

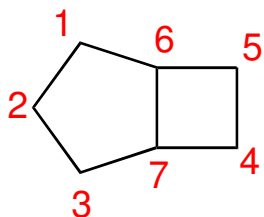
Térszerkezet



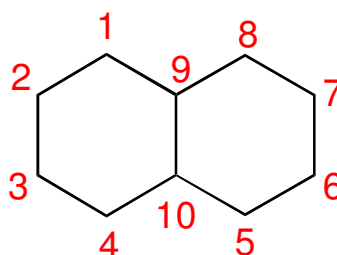
spiro[3.3]heptán



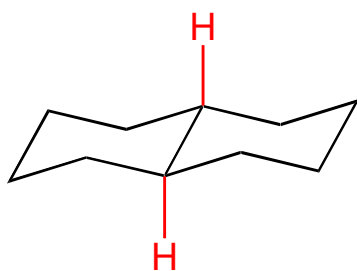
Kondenzált gyűrűs policikloalkánok



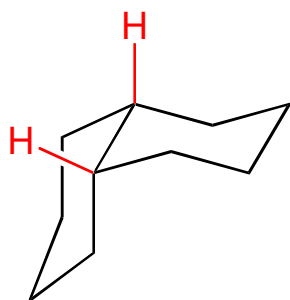
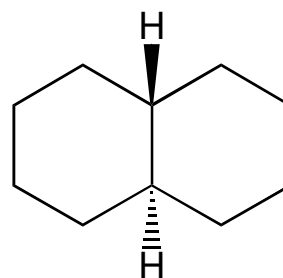
biciklo[3.2.0]heptán



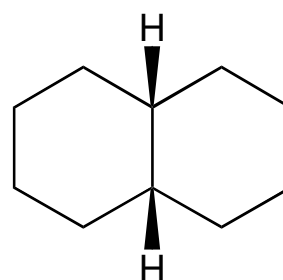
biciklo[4.4.0]dekán
dekalin



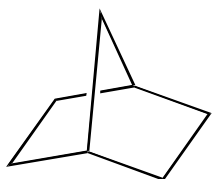
transz-dekalin, fp. 185 °C



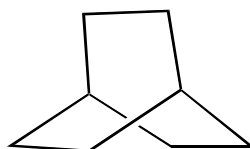
cisz-dekalin, fp. 195 °C



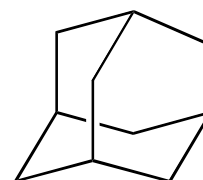
Áthidalt gyűrűs policikloalkánok



biciklo[2.2.1]heptán
op. 87 °C



biciklo[2.2.2]oktán
op. 170 °C



adamantán
op. 268 °C