



TÁMOP-4.1.1.F-14/1/KONV-2015-0006

SZTE TTIK, KTCS, 1a) Duális és moduláris
képzésfejlesztés a mesterképzéshez

Szomszédcsoport részvétel

Átrendeződési reakciók

Pálinkó István, egyetemi tanár

SZÉCHENYI 2020



MAGYARORSZÁG
KORMÁNYA

Európai Unió
Európai Szociális
Alap

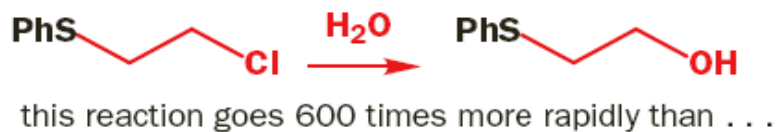
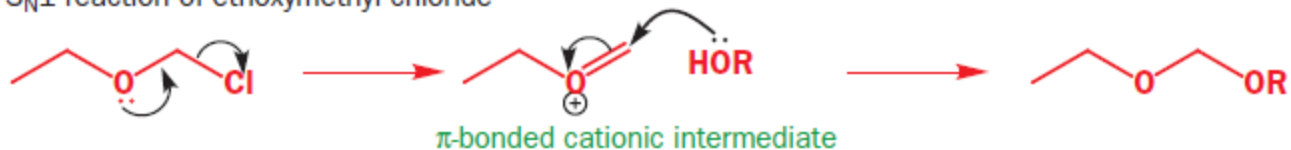


BEFEKTETÉS A JÖVŐBE

Szomszédcsoport részvétel 1. – reakciósebesség



S_N1 reaction of ethoxymethyl chloride

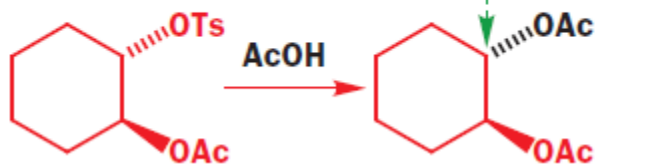


neighbouring group participation of a sulfide

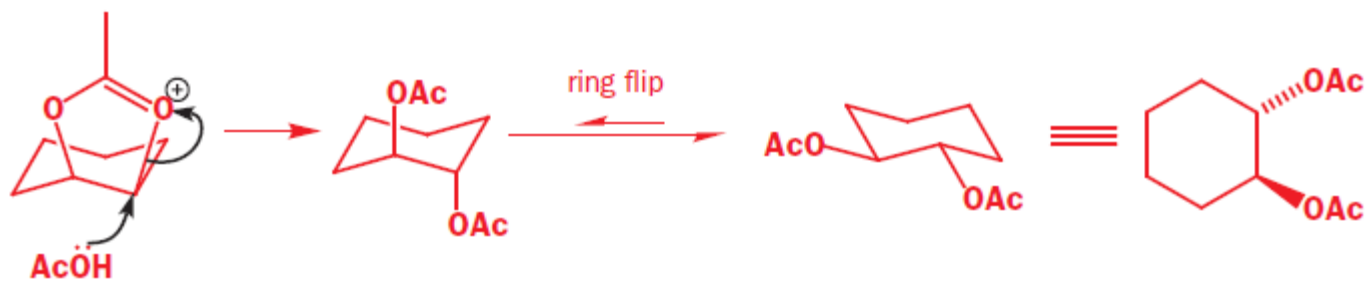
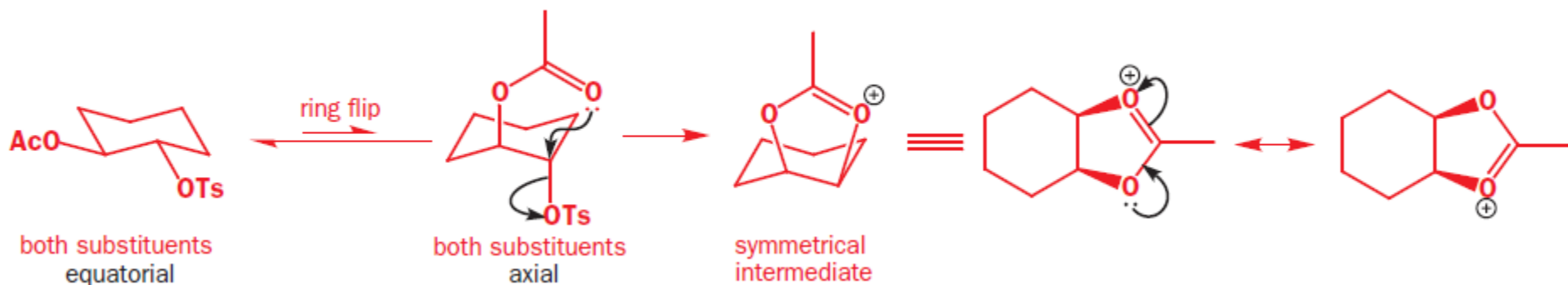
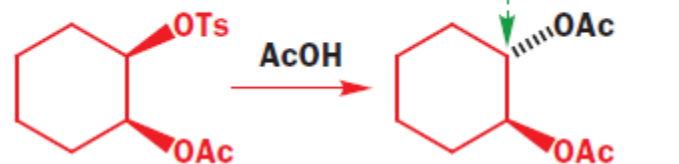


Szomszédcsoport részvétel 2. – sztereokémia

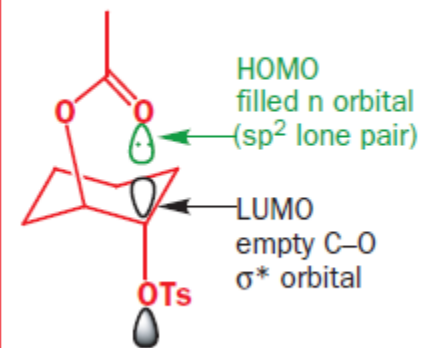
anti
diastereoisomer

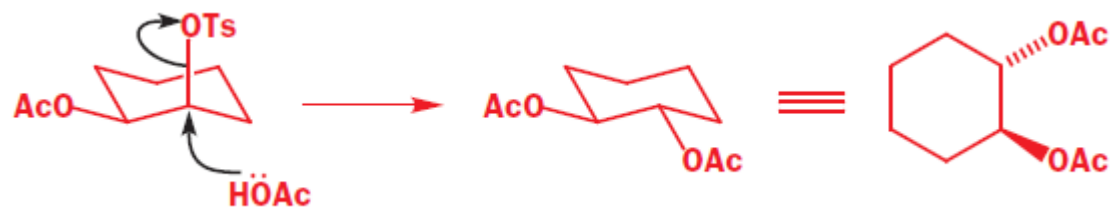


syn
diastereoisomer

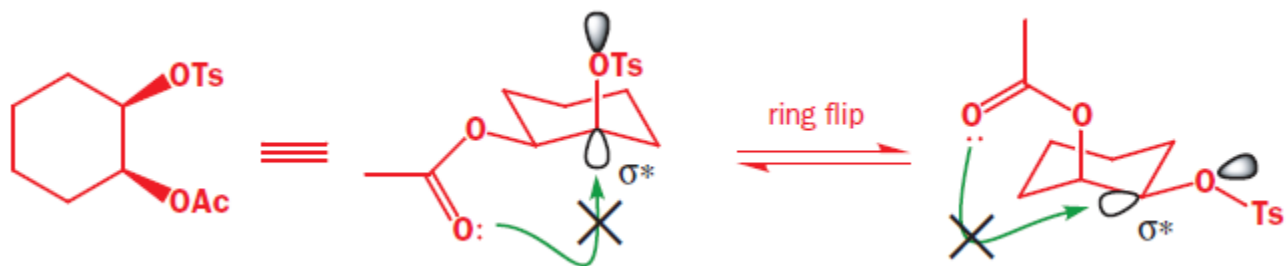


orbitals involved in participation

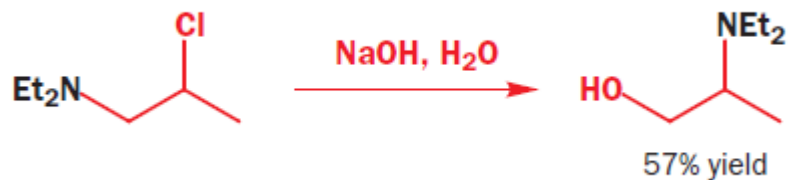




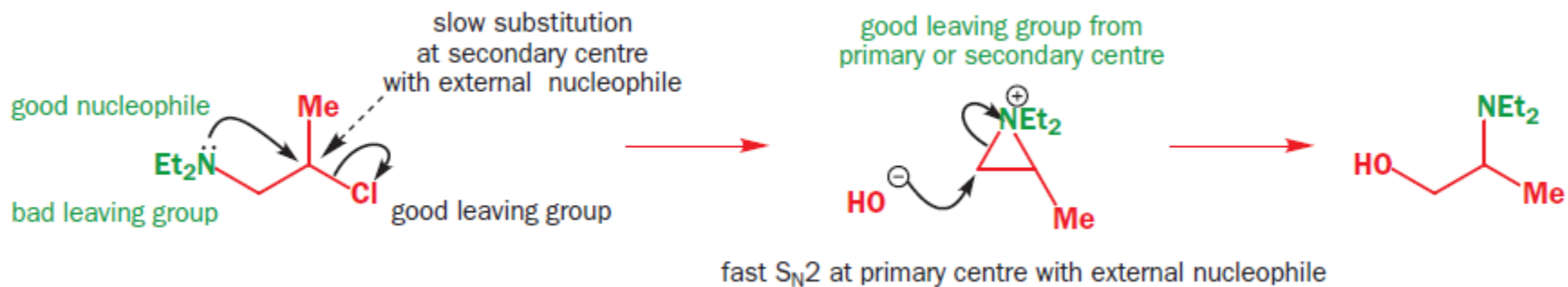
nincs lehetőség szomszédcsoport részvételre



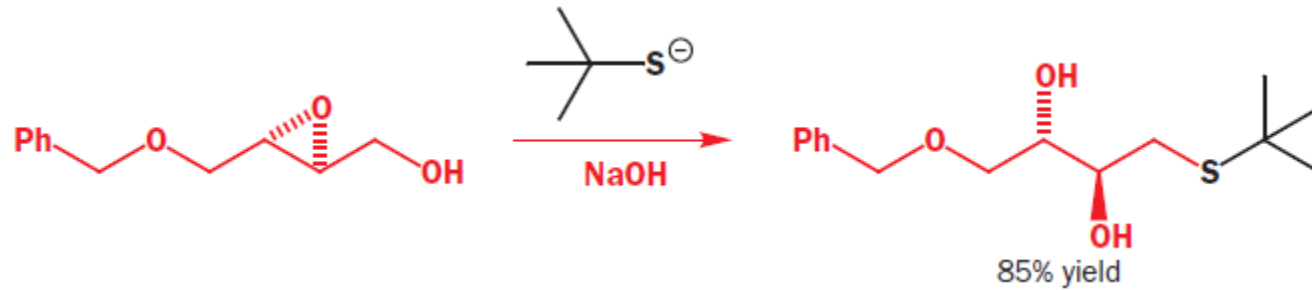
Átrendeződés szomszédcsoport részvételével



mechanizmus

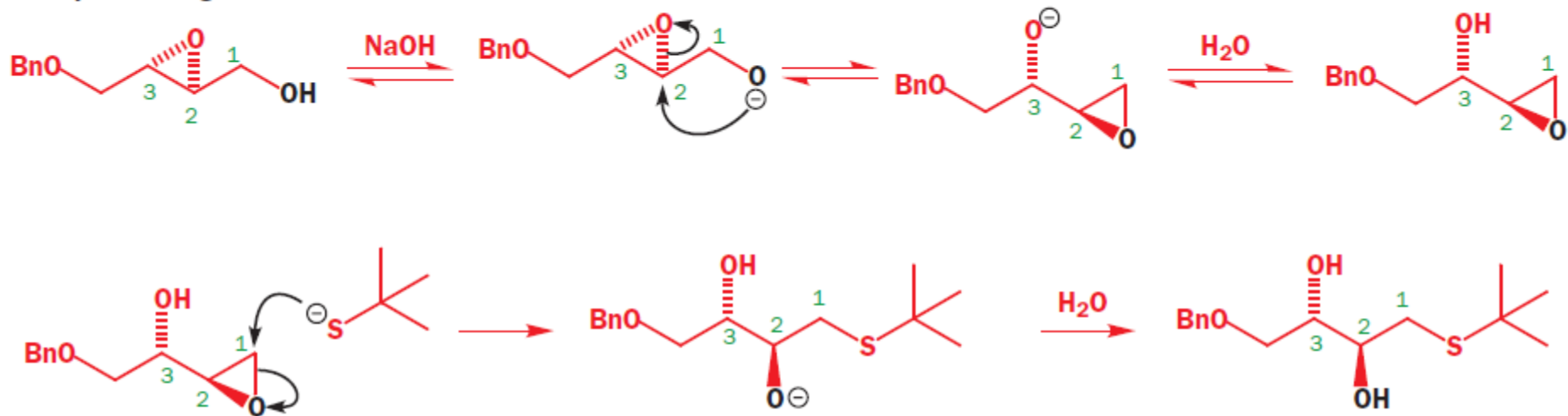


Payne átrendeződés

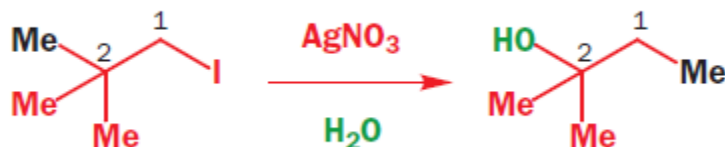


mechanizmus

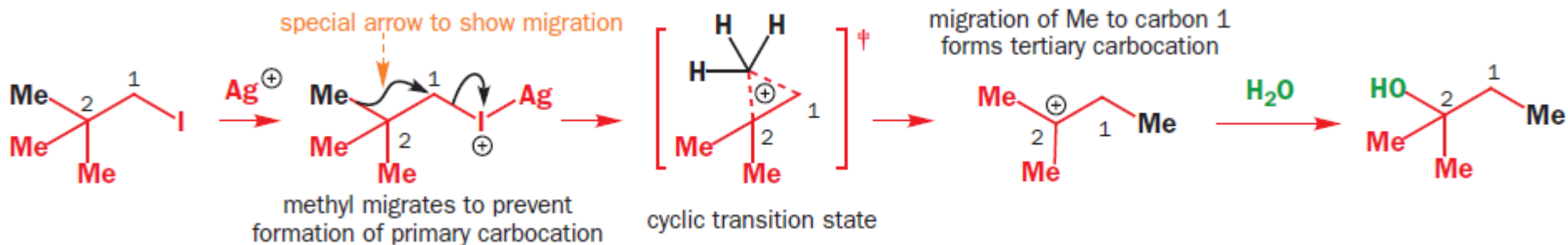
the Payne rearrangement



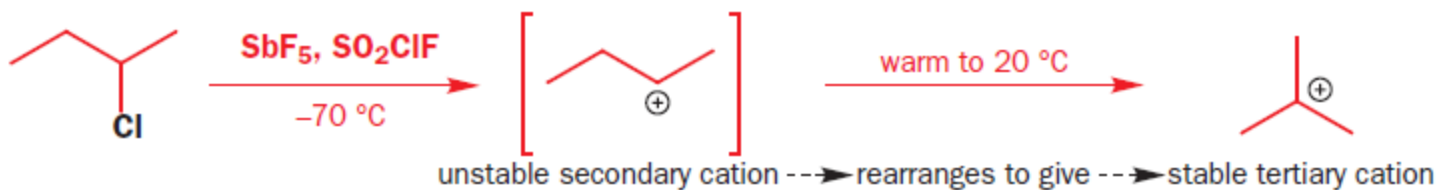
Átrendeződés alkilcsoport vándorlásával



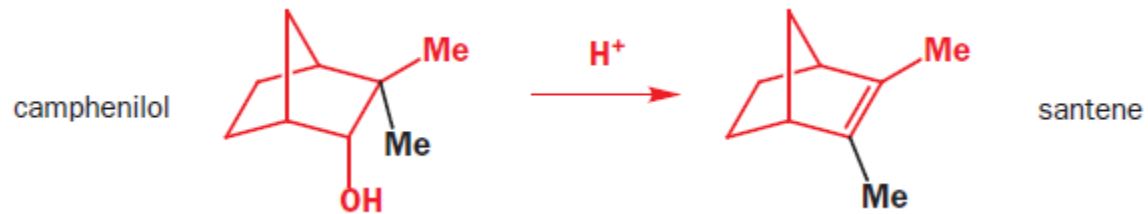
mechanizmus



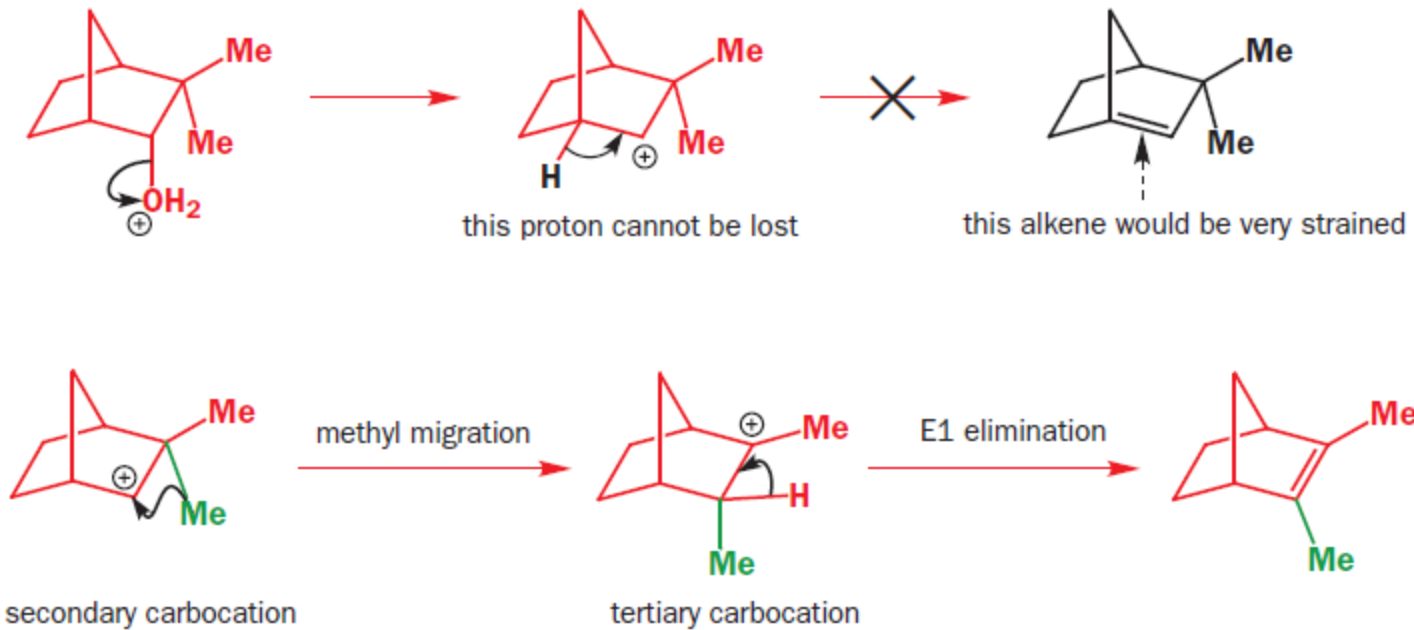
a karbéniumionok szívesen átrendeződnek, ha a pozitív töltés magasabb rendű szénatomra kerül



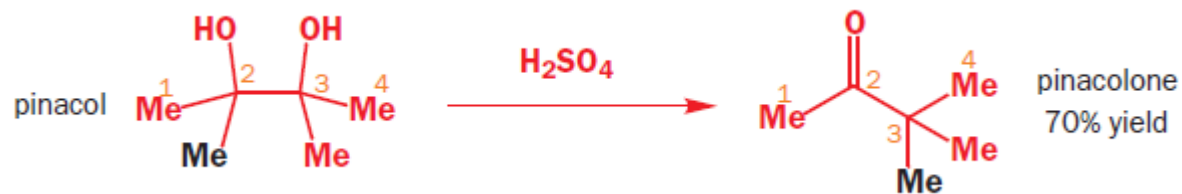
Merwein átrendeződés



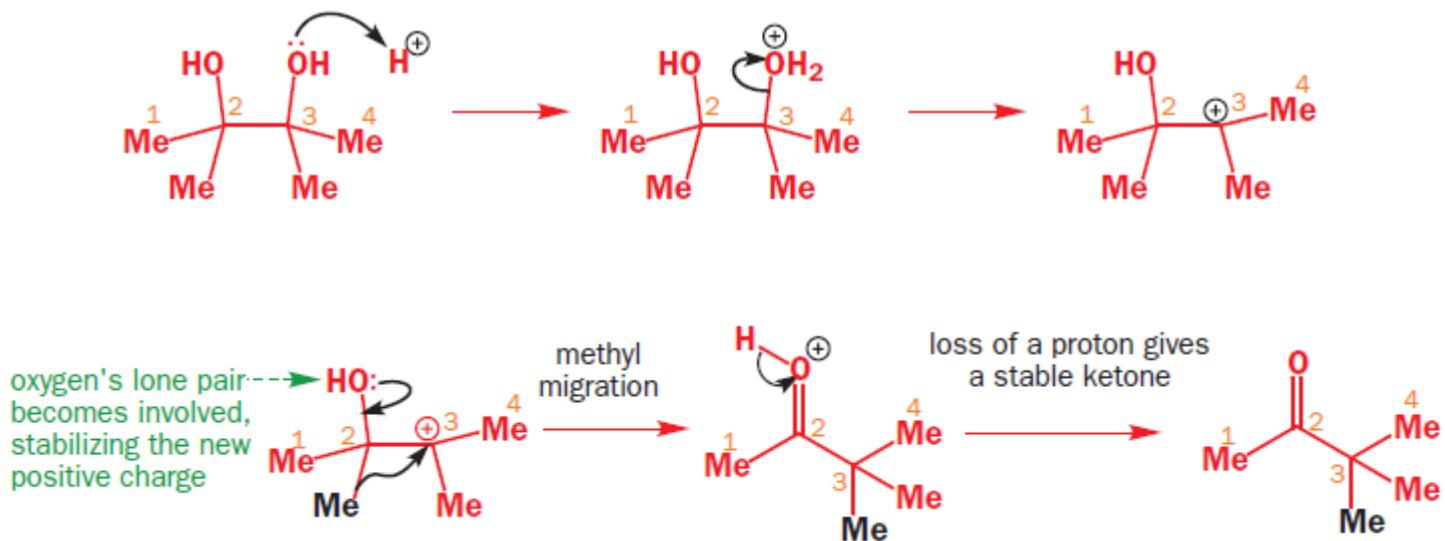
mechanizmus



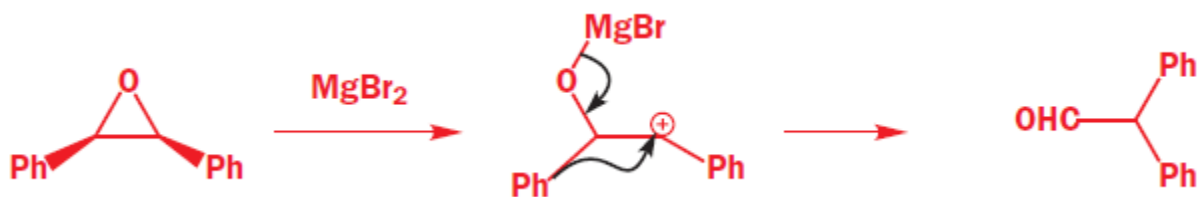
Pinacol átrendeződés



mechanizmus

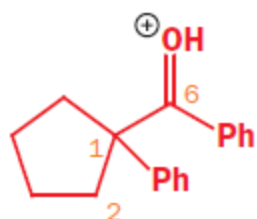
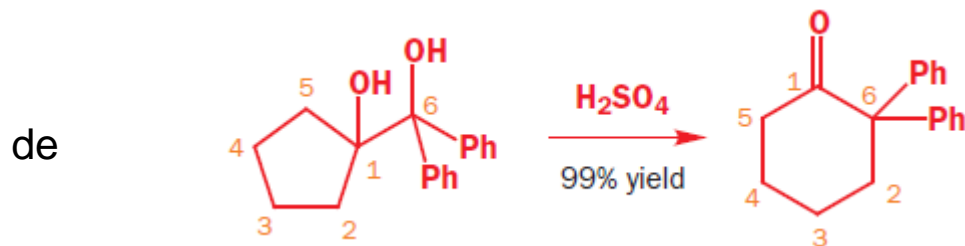


epoxid átrendeződése pinacolmechanizmus szerint

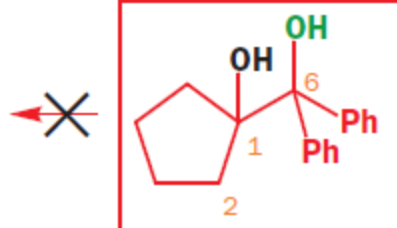
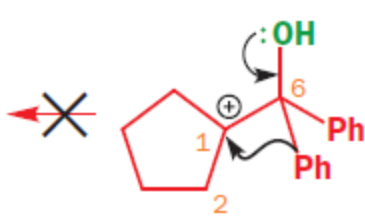


melyik csoport vándorol?

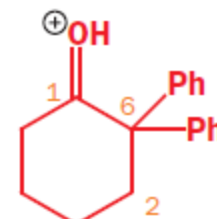
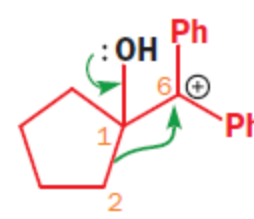
nem szimmetrikus diolok esetén többféle termék képződik



this product is not formed

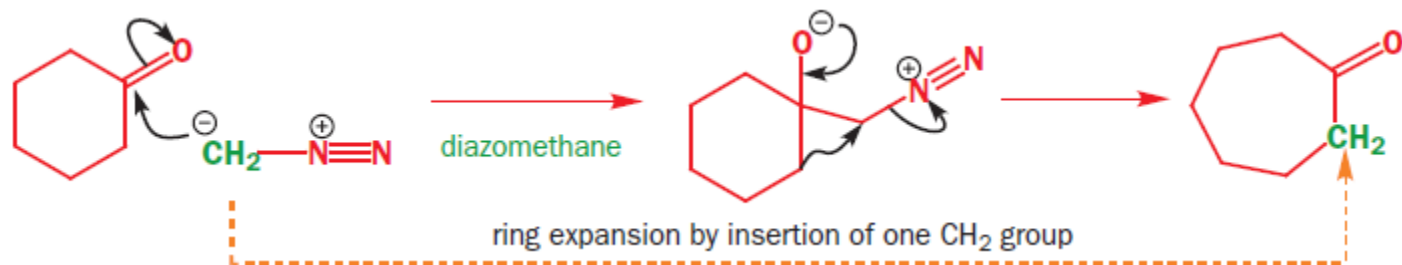
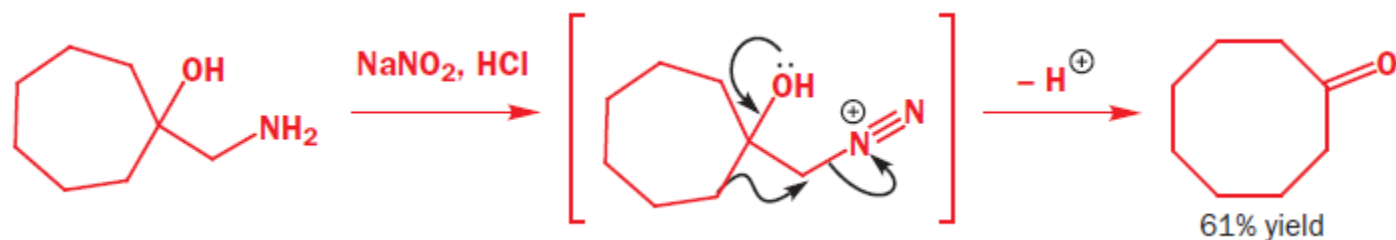
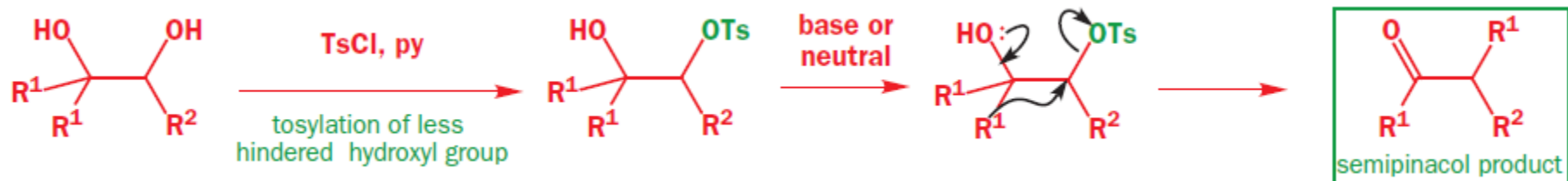


this benzylic cation is more stable and is formed faster

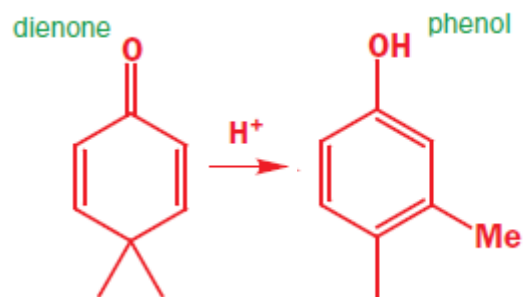


this product is formed

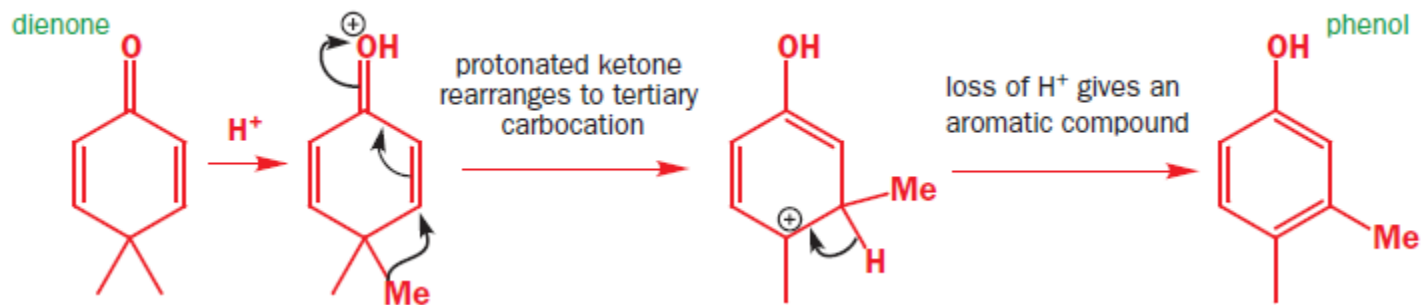
Szemipinacol átrendeződések



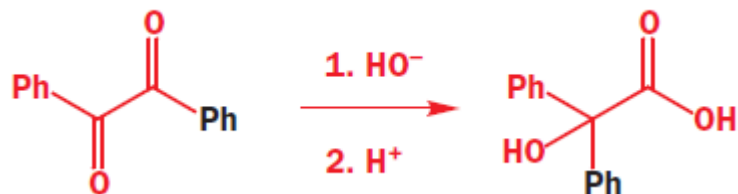
Dienon-fenol átrendeződés



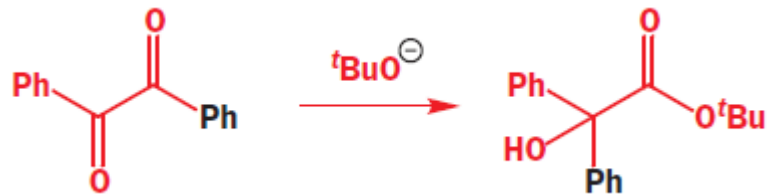
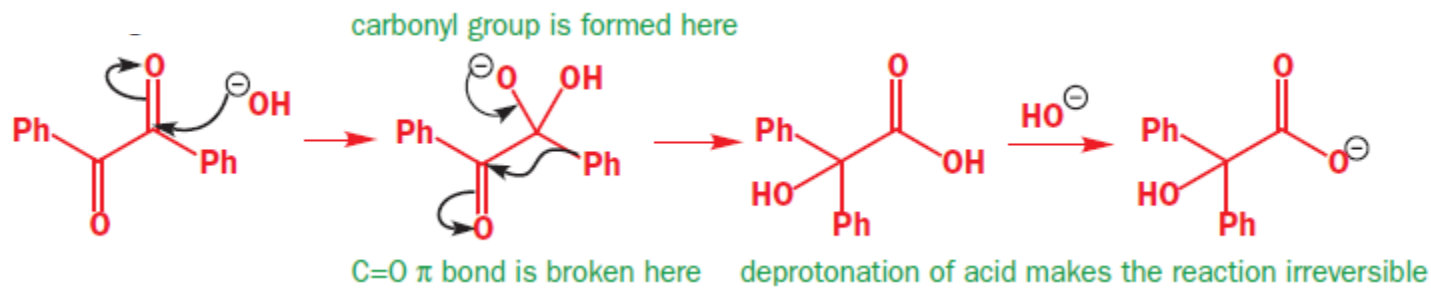
mechanizmus



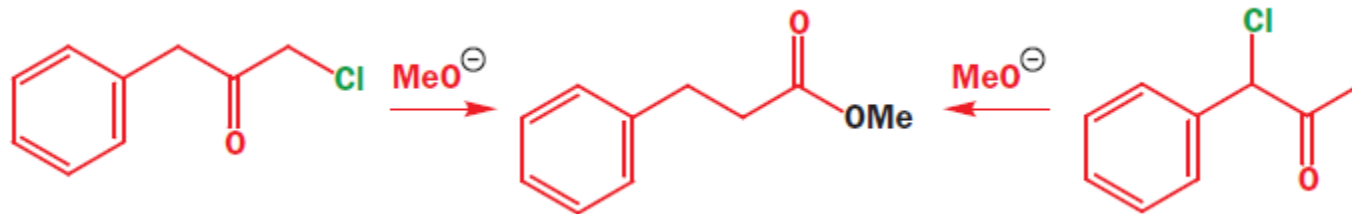
Benzil-benzilsav átredeződés



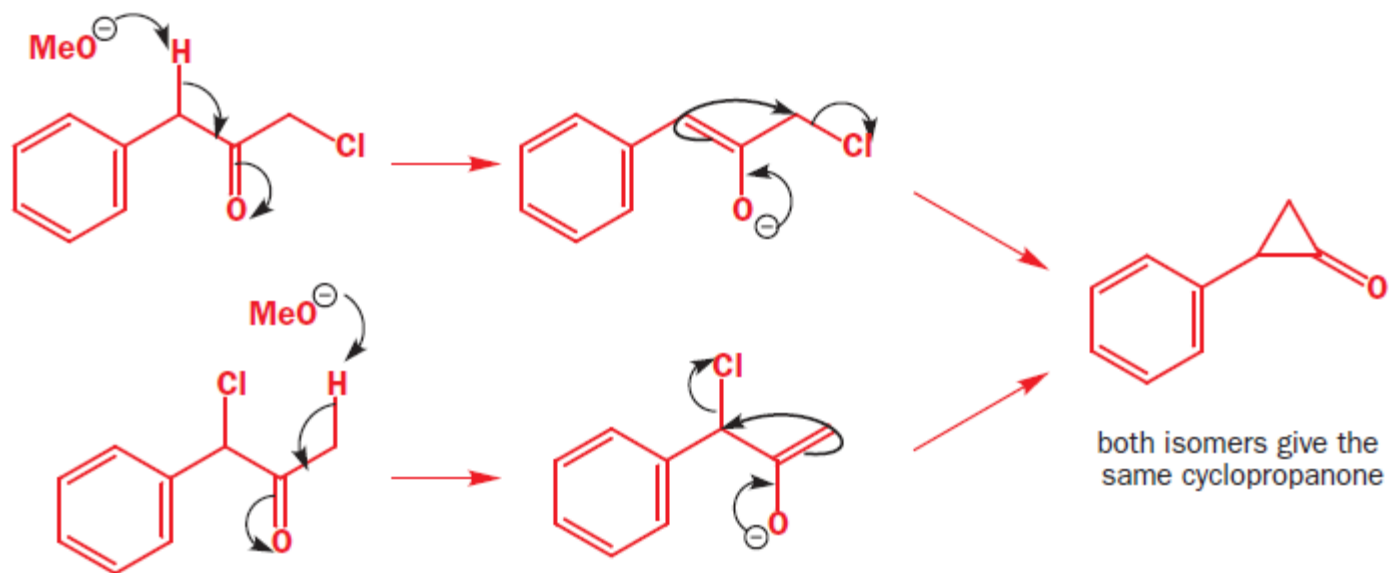
mechanizmus

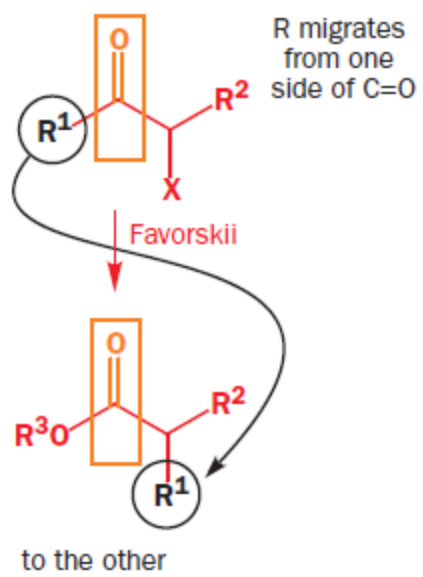
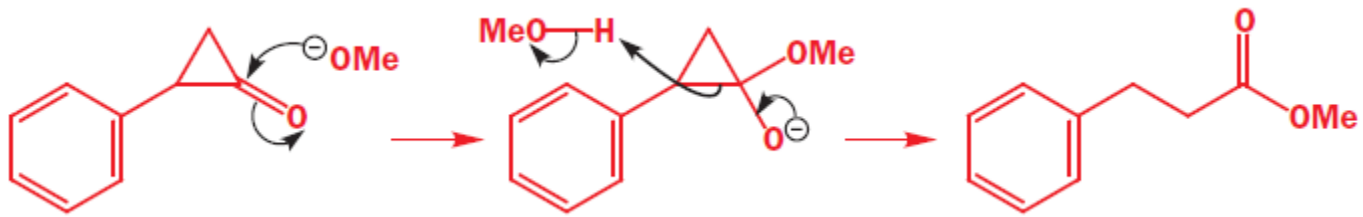


Favorskij átrendeződés

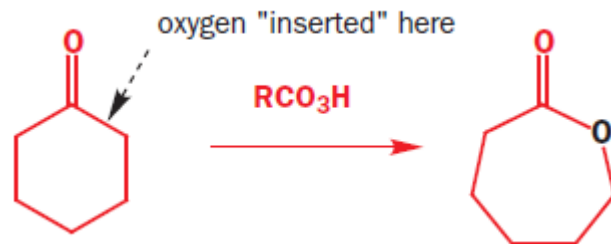


mechanizmus

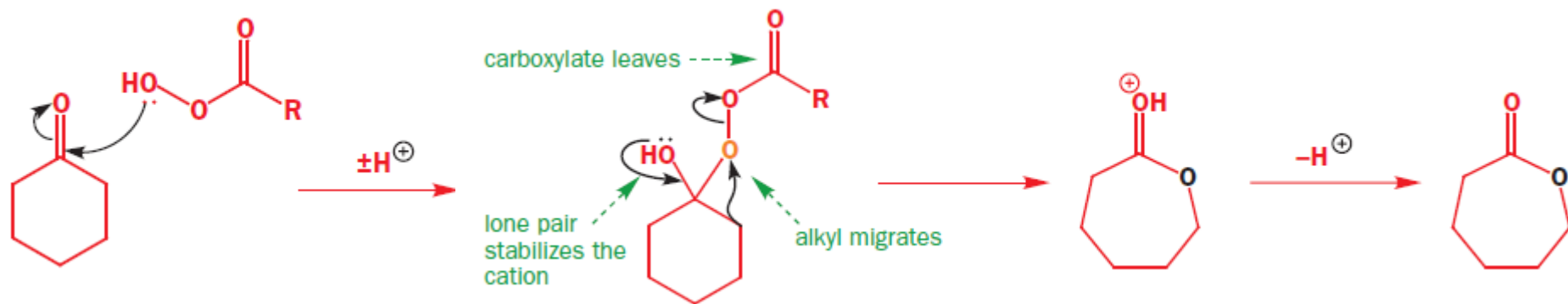




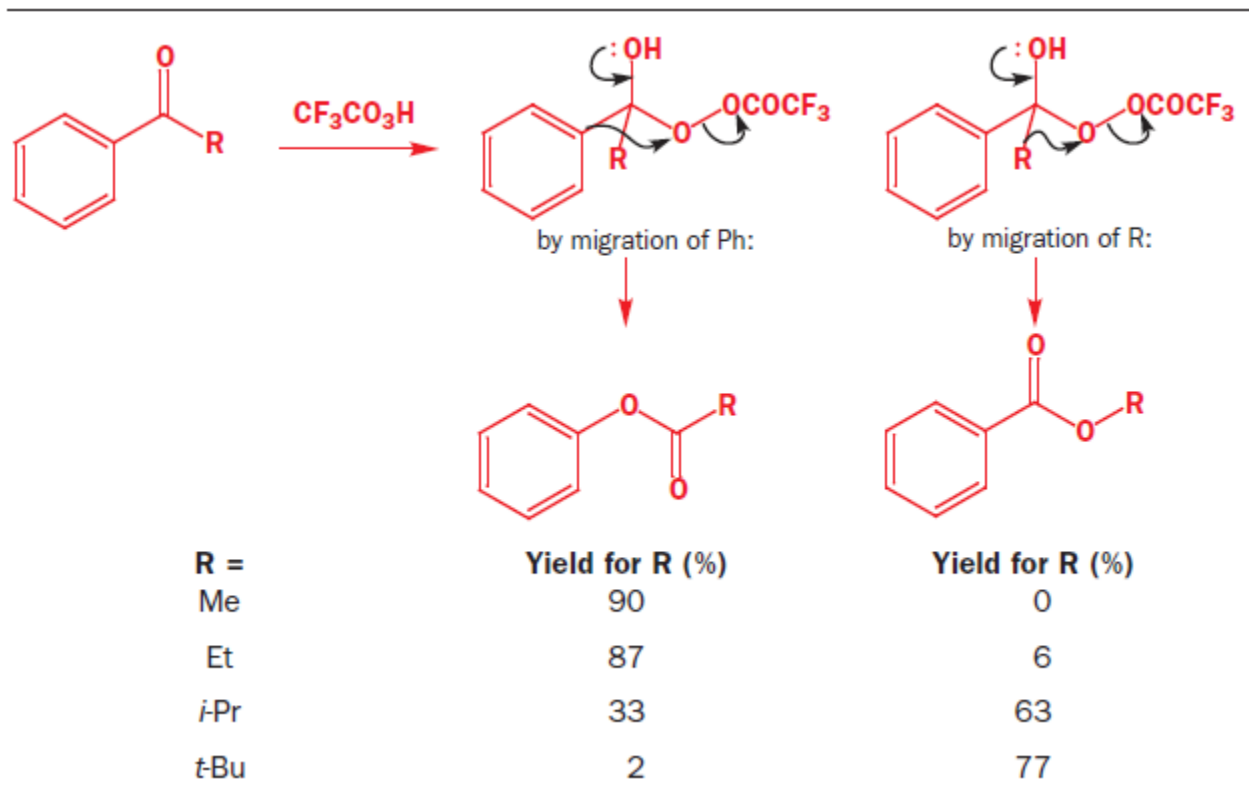
Baeyer-Villiger átrendeződés



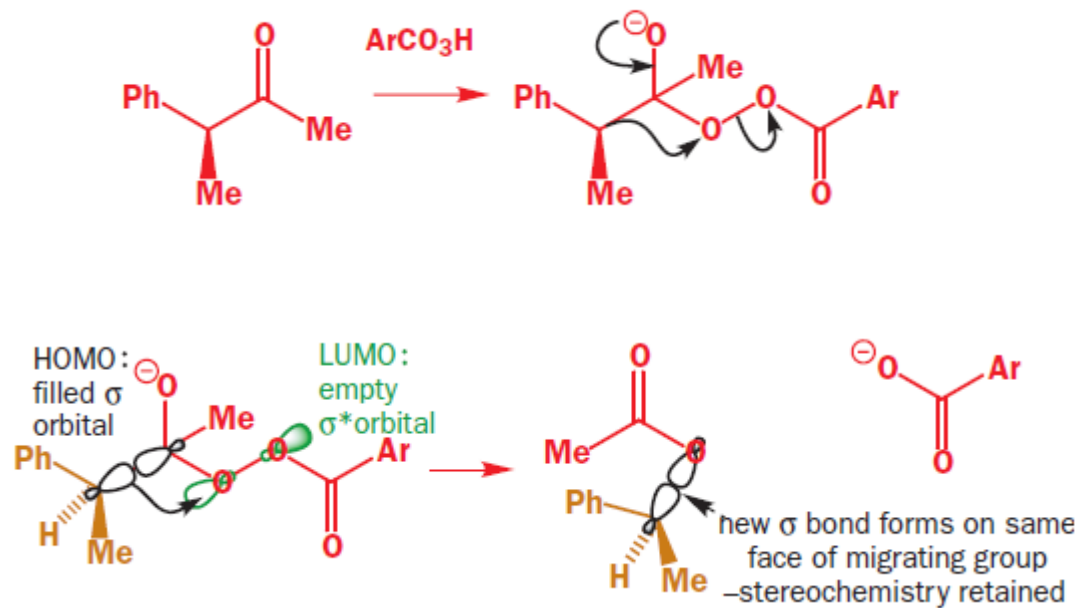
mechanizmus



melyik csoport vándorol?

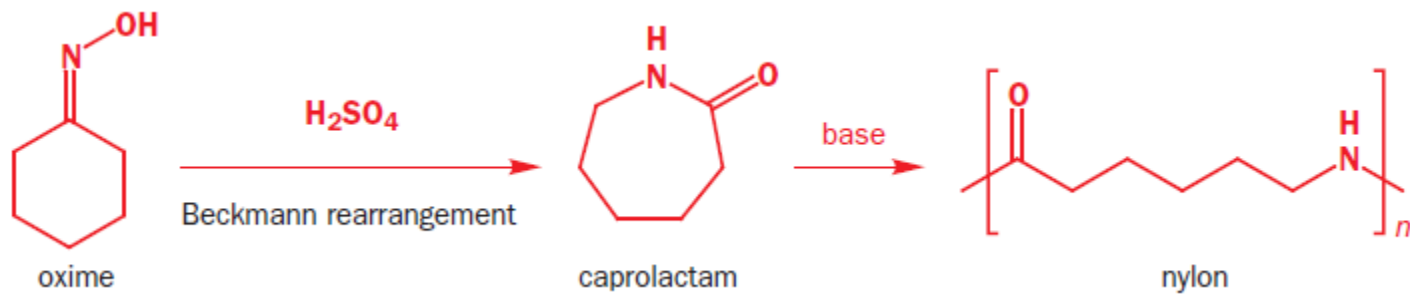


az átrendeződés sztereokémiája



In 1,2-migrations, the migrating group retains its stereochemistry.

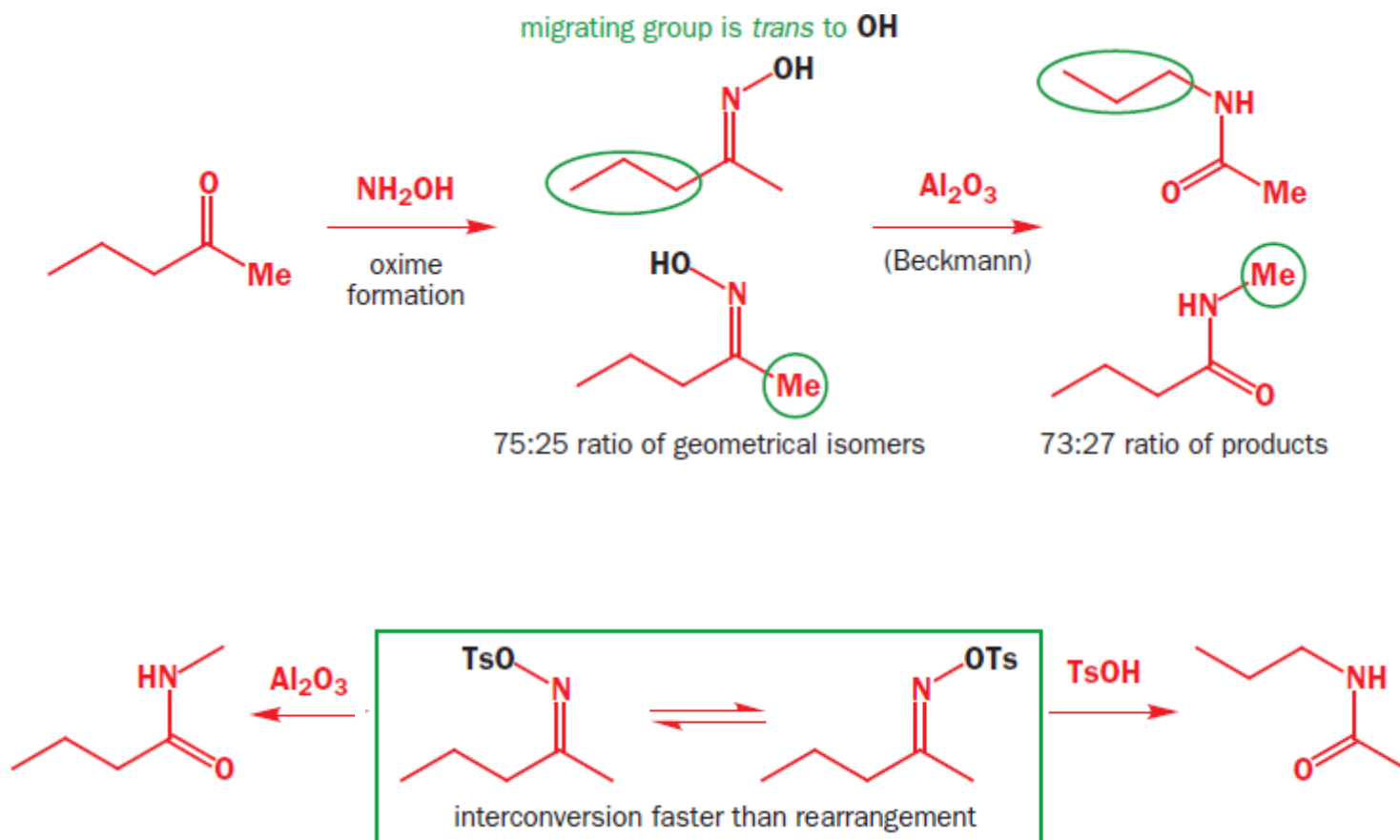
Beckmann átrendeződés



mechanizmus



melyik csoport vándorol?



KÖSZÖNÖM A FIGYELMET!

SZÉCHENYI  2020



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