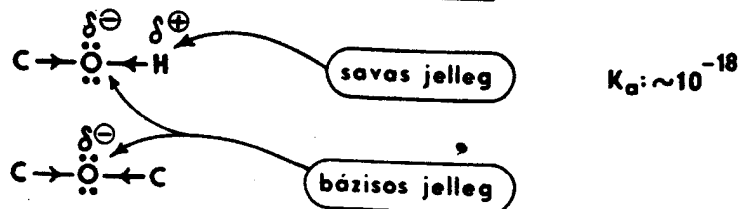
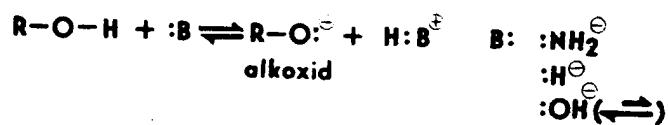


## SAVAS ÉS BÁZISOS TULAJDONSÁGOK



## ACIDITÁS

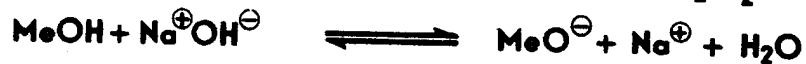
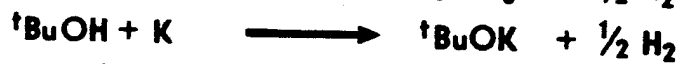
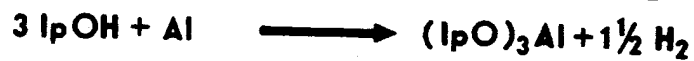


jó nukleofilek is

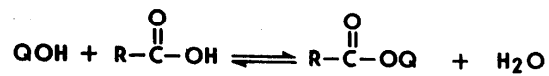
### PÉLDÁK:



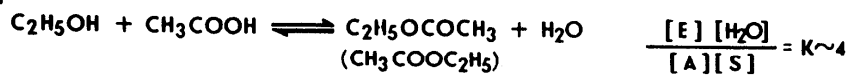
### ALKOXID-KÉSZÍTÉS:



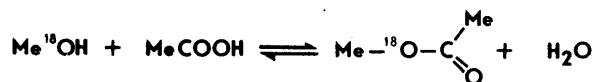
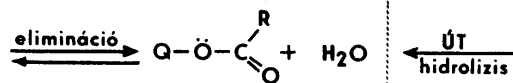
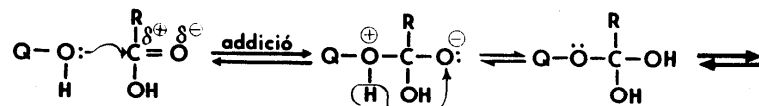
## ÉSZTERESÍTÉS



Példa:



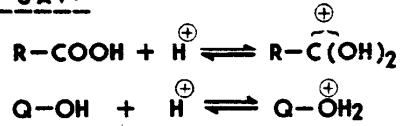
A-E mechanizmus:



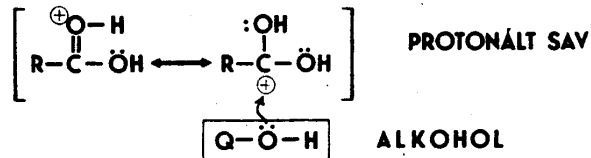
$\left. \begin{array}{l} \text{R} \\ \text{Q} \end{array} \right\} \text{ prim.} > \text{ szek.} > \text{ terc.}$

## SÁVKATALIZÁLT ÉSZTERESITÉS

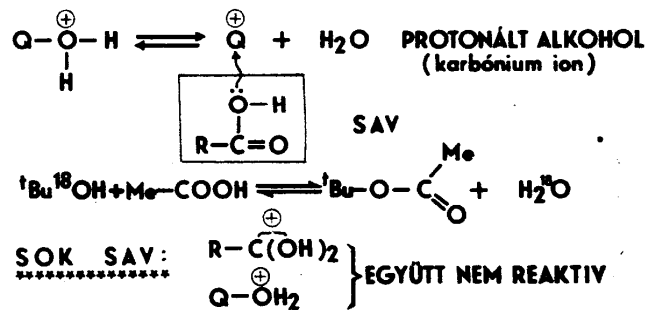
### KEVÉS SAV:



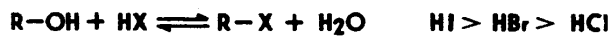
### PRIMER ALKOHOL (pl.: Q = Me, Et)



### TERCIER ALKOHOL (pl.: Q = <sup>t</sup>Bu)



## REAKCIÓ HALOIDSÁVVAL



Megfordítható reakció  
Preparatív alkalmazás

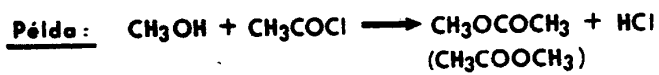
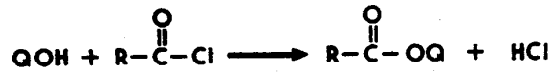
$\left\{ \begin{array}{l} HX \text{ felesleg} \\ \text{Vízlevonás} \\ RX \text{ kidesztillálás} \\ HCl \text{ csak katalizátorral (ZnCl}_2\text{)} \end{array} \right.$

### PÉLDA:

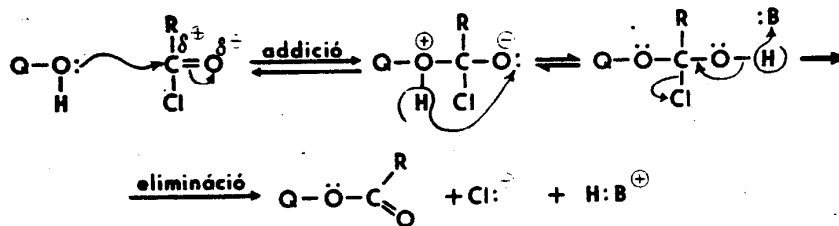




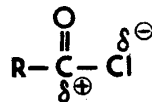
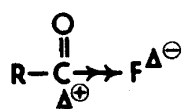
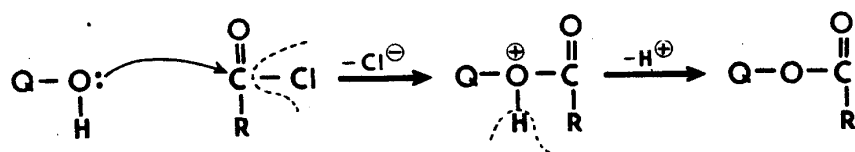
**ACILEZÉS SAVKLORIDDAL**



A-E mechanizmus:



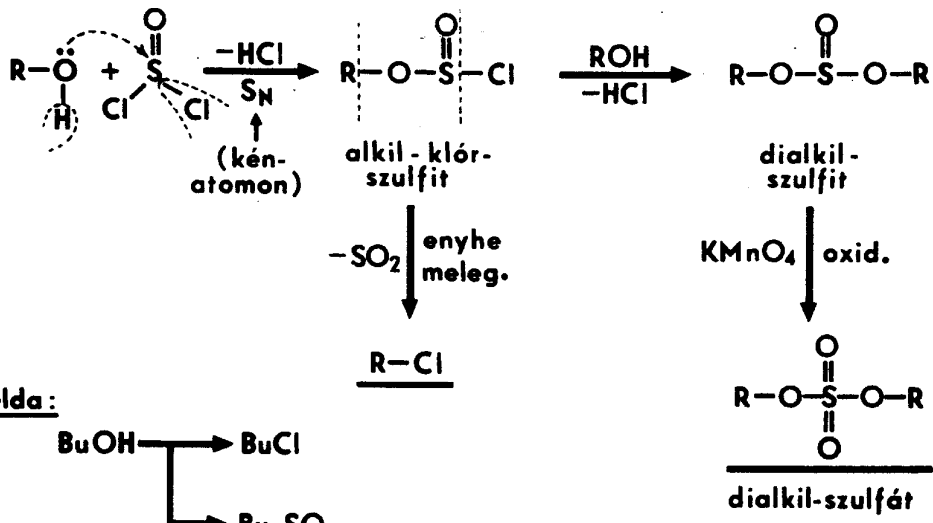
S<sub>N</sub> mechanizmus:



A-E esetén reaktívabb  $C\overset{\delta^+}{\Delta}$  miatt

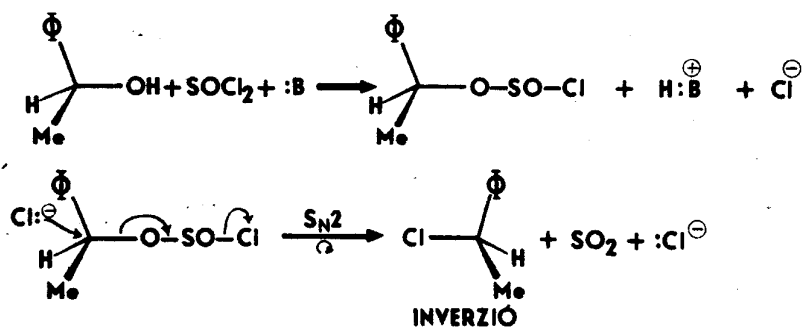
S<sub>N</sub> esetén reaktívabb  $Cl\overset{\delta^-}{\Delta}$  jobb távozó csoport

# REAKCIÓ TIONIL-KLORIDDAL

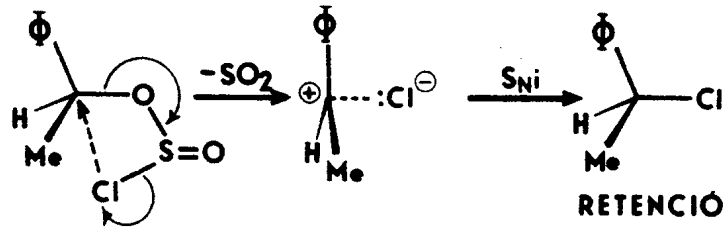
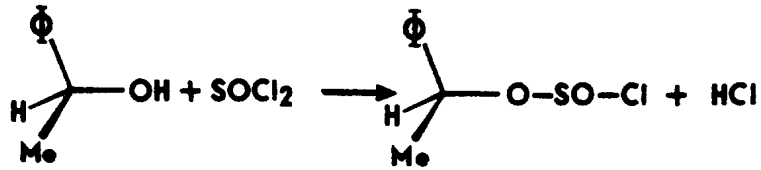


## A REAKCIÓ SZTEREOKÉMIAJA

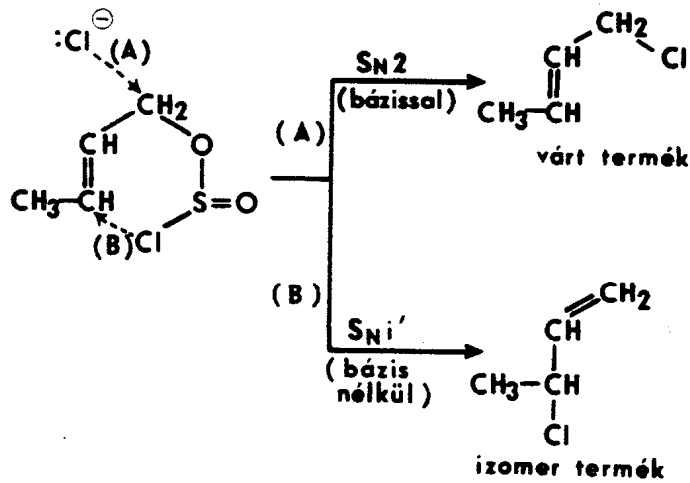
(a) bázis jelenlétében



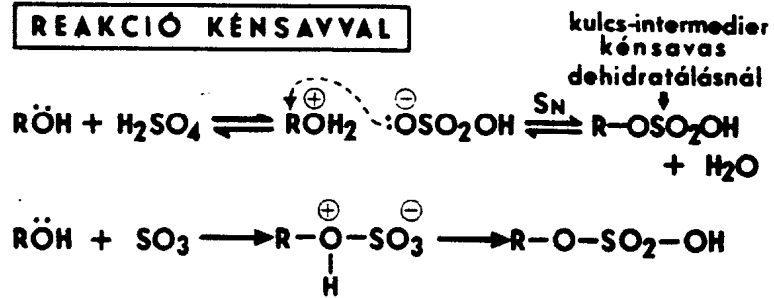
(b) bázis nélkül



REAKCIÓ ÁTRENDEZŐDÉSSEL ( $\text{S}_{\text{Ni}}$ ' reakció)



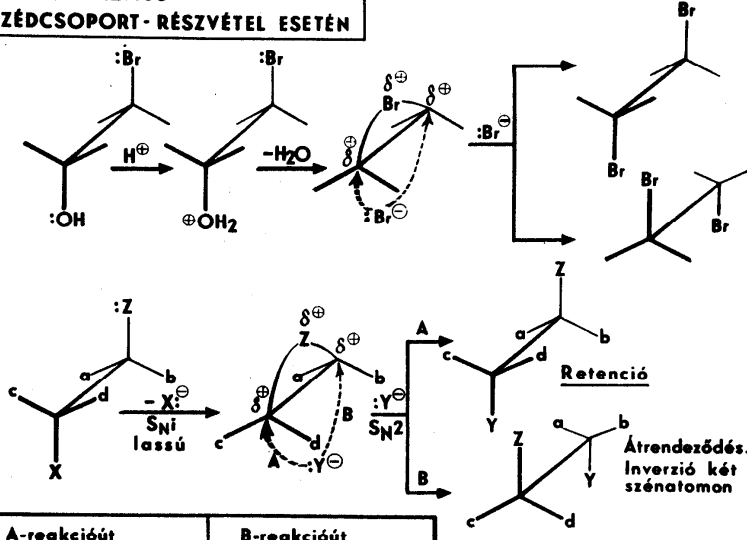
**REAKCIÓ KÉNSAVVAL**



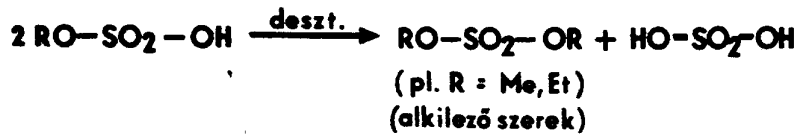




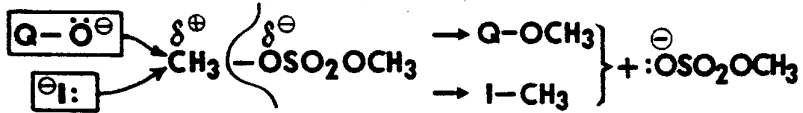
**SZTEREOMECHANIZMUS  
SZOMSZÉDCSOPORT - RÉSZVÉTEL ESETÉN**



	A-reakciót	B-reakciót
$C_x$ -atom	$S_N1$ inverzió } retenció $S_N2$ inverzió }	$S_N1$ inverzió }
$C_z$ -atom	———— (retenció)	$S_N2$ inverzió }
		átrendeződés

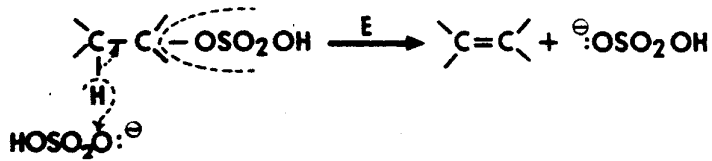
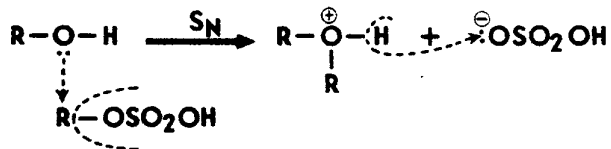
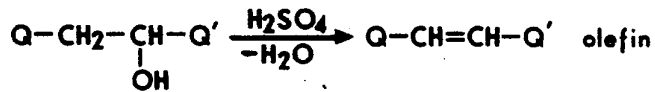
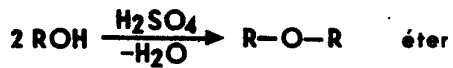


### METILEZÉS

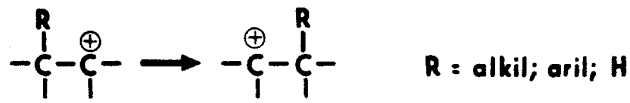


Q	Előállítás
R (pl. Me, Et)	metil-alkil-éter
Ar (pl. C <sub>6</sub> H <sub>5</sub> )	metil-aril-éter
Acil	metil-észter

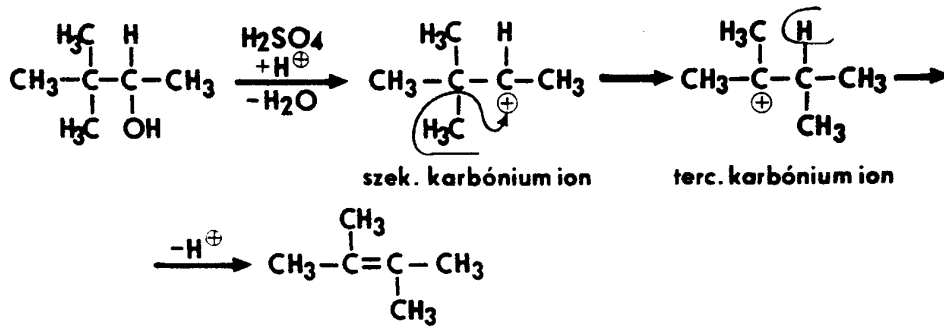
### DEHIDRATÁLÁS



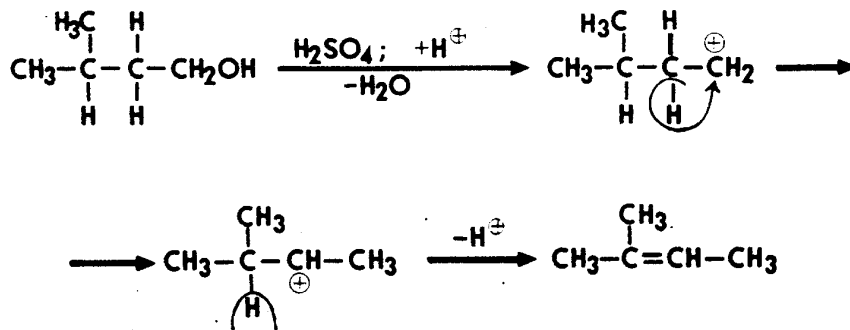
## DEHIDRATÁLÁS ÁTRENDEZŐDÉSSEL



### (A) METIL-ANIONOTRÓPIA

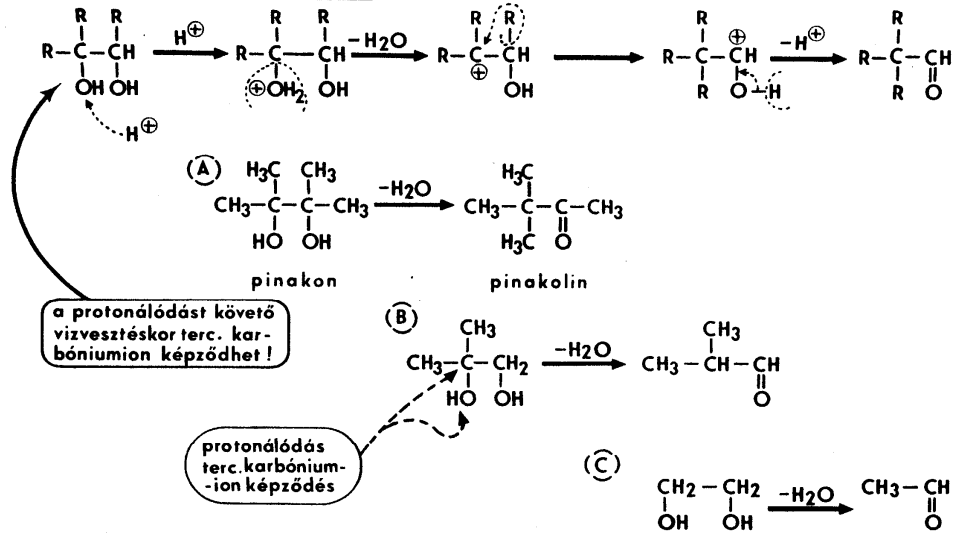


### (B) HIDROGÉN-ANIONOTRÓPIA

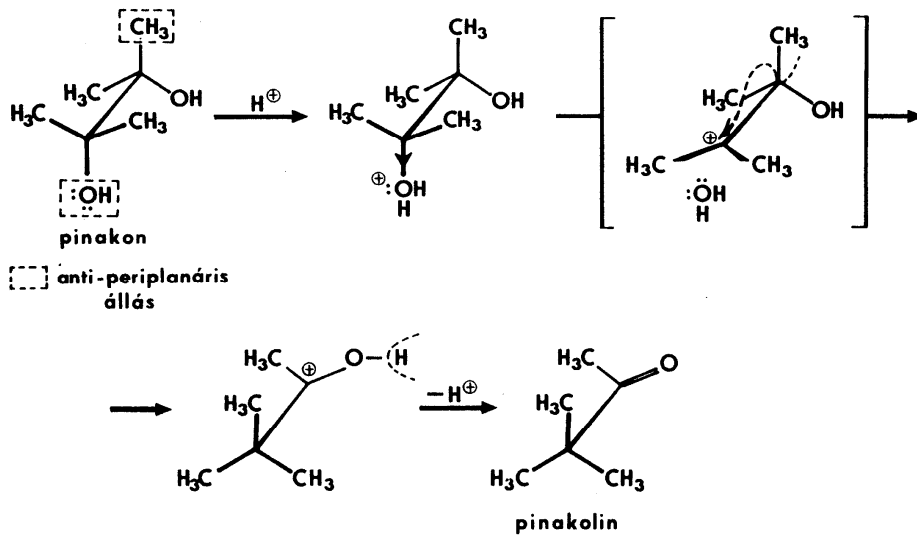


**GLIKOLOK DEHIDRATÁLÁSA PINAKOLIN-ÁTRENDEZŐDÉS**

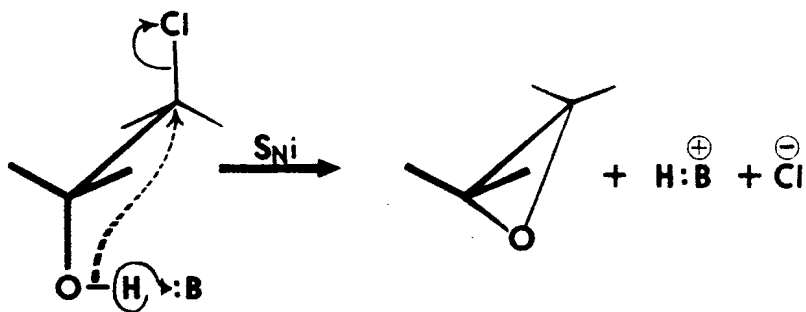
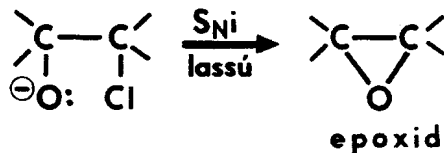
**KARBONILKÉPZŐ ELIMINÁCIÓ**



**SZTEREOMECHANIZMUS**

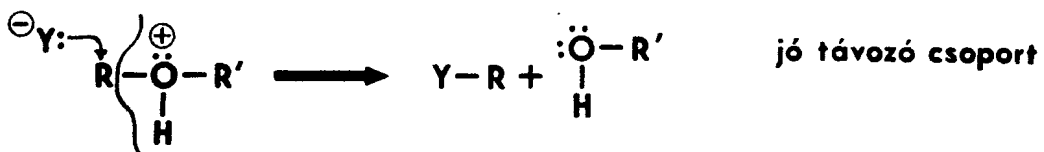
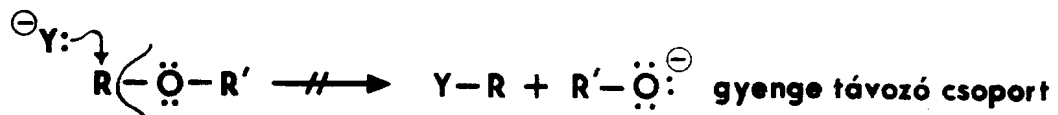


**HALOHIDRINEK ÁTALAKÍTÁSA EPOXIDOKKÁ**

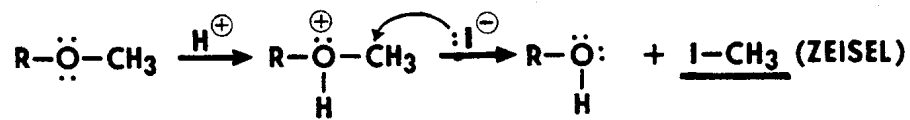


**ÉTERKÖTÉS HASITÁSA**

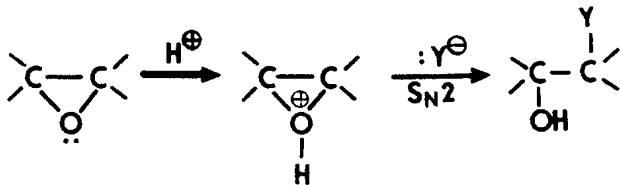
**HASITÁS TÖMÉNY HALOIDSÁVVAL**



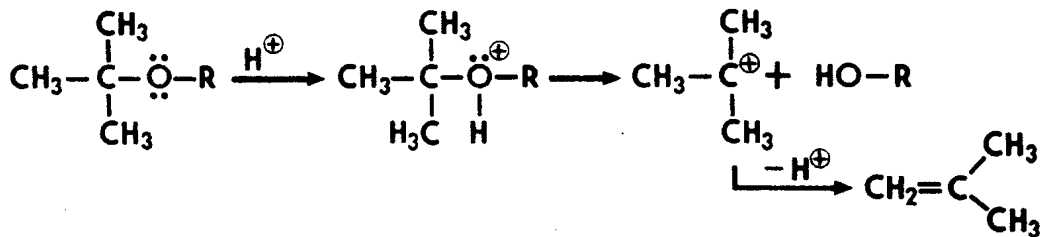
### METIL-ÉTEREK HASITÁSA ("METOXI-MEGHATÁROZÁS")



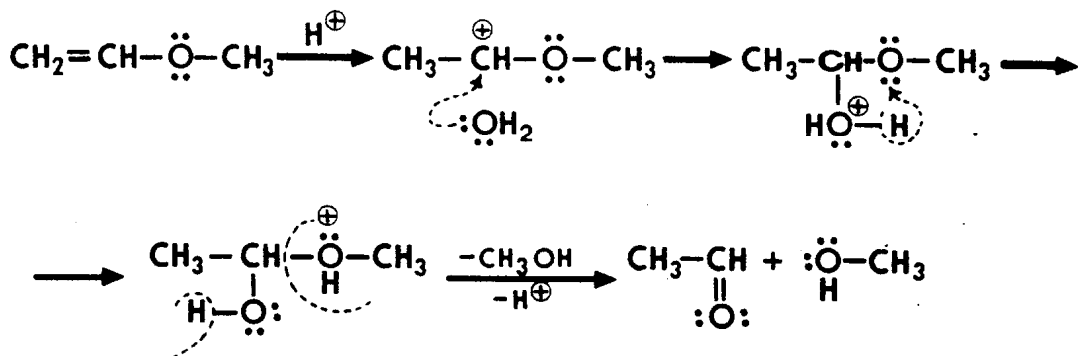
### EPOXIDOK HASITÁSA



### terc. ALKIL-ÉTEREK HASITÁSA

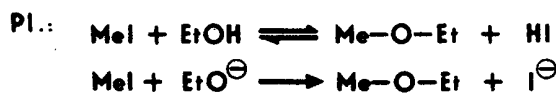
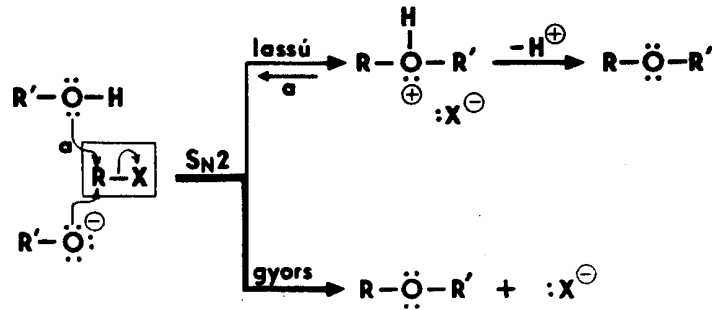


### VINIL-ÉTEREK HASITÁSA (Könnyű)

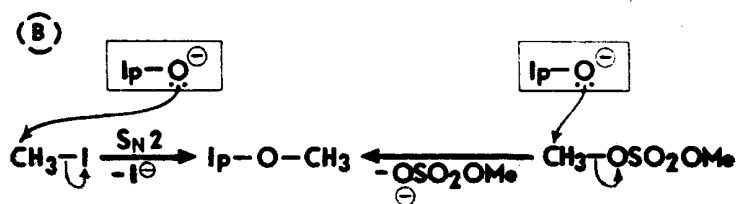
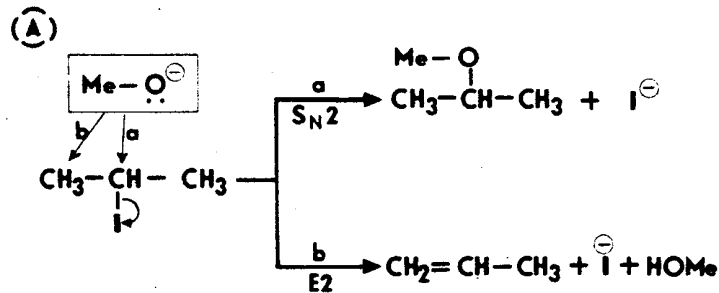
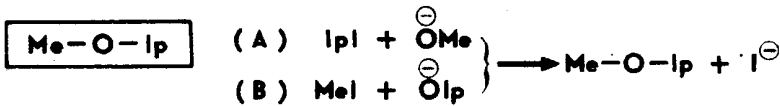


**ALKOXIDOK ALKILÉZÉSE ALKIL-HALOGENIDEKKEL**

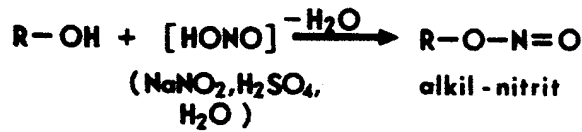
**ÉTREK WILLIAMSON-SZINTÉZISE**



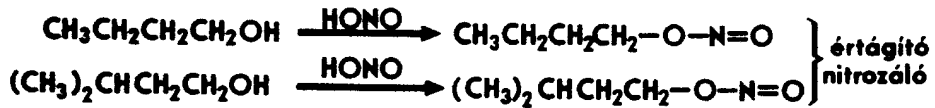
Lehetséges mellékreakció: E2 ( $\text{RO}^-$  erős bázis)



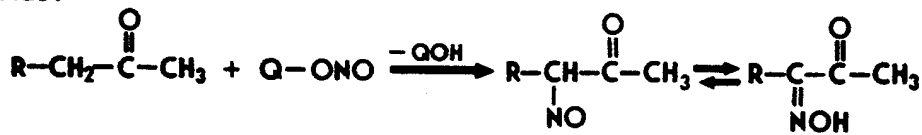
**REAKCIÓ SALÉTR OSSAVVAL**



Példa:



Nitrozálás:



**REAKCIÓ SALÉTR OSSAVVAL**



Pl:

