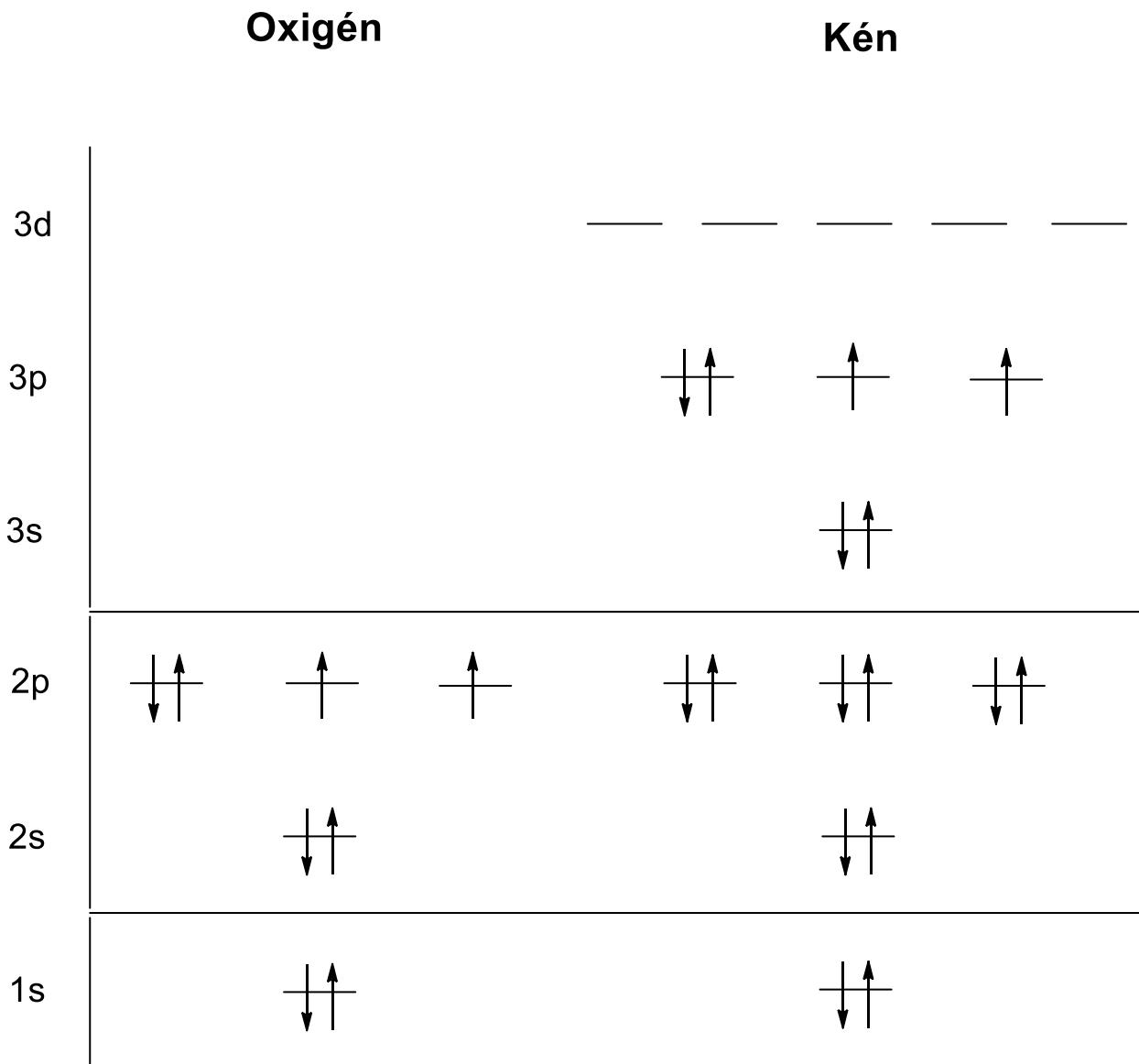


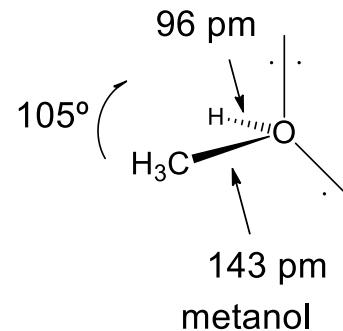
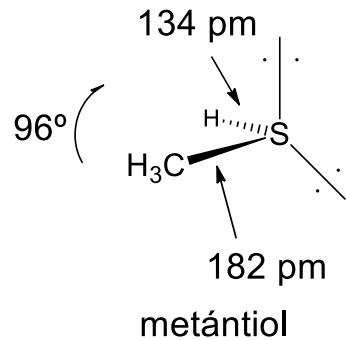
Kénorganikus vegyületek

Elektronszerkezet



TIOLOK

Szerkezet



Elektronegativitás

C 2.5

H 2.2

O 3.5

S 2.5

Kötési energia

S-H 330 kJ/mol O-H 440 kJ/mol

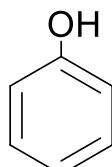
Savasság (pK)

CH_3OH

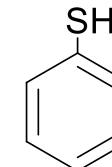
17

CH_3SH

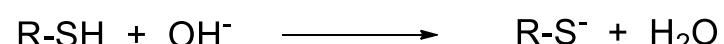
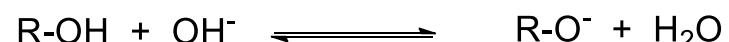
11



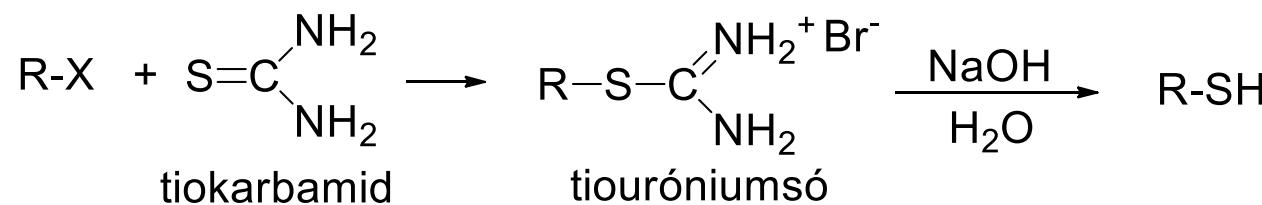
10



6,6



Előállítás

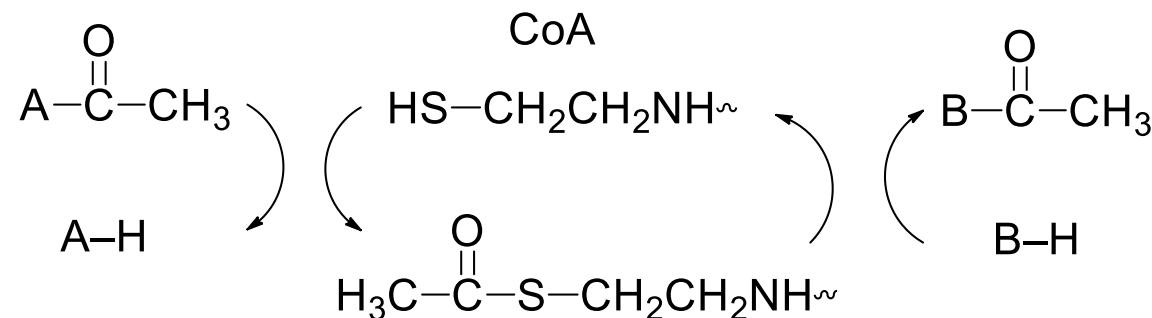


Reaktivitás

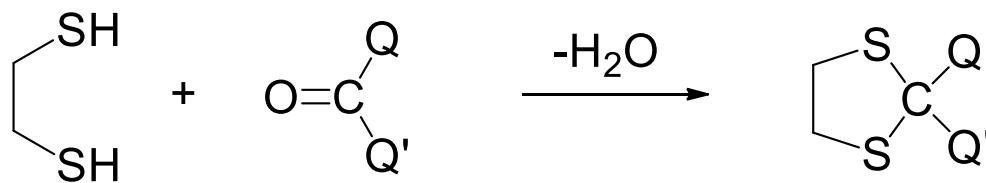
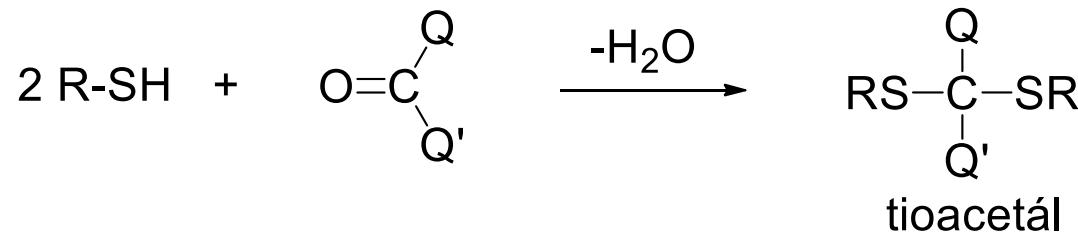
alkilezés (S_N)



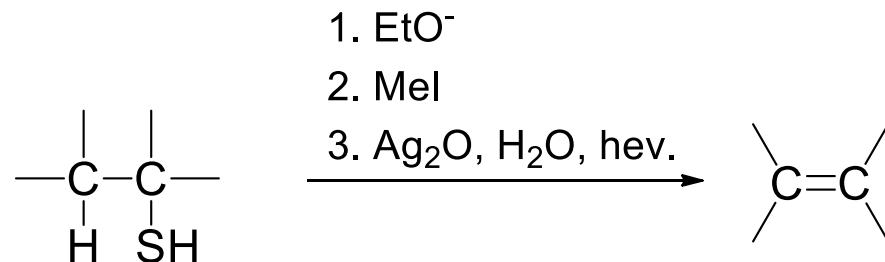
acilezés



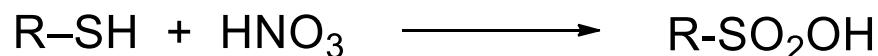
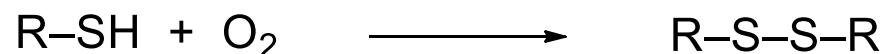
Addíció oxovegyületekkel



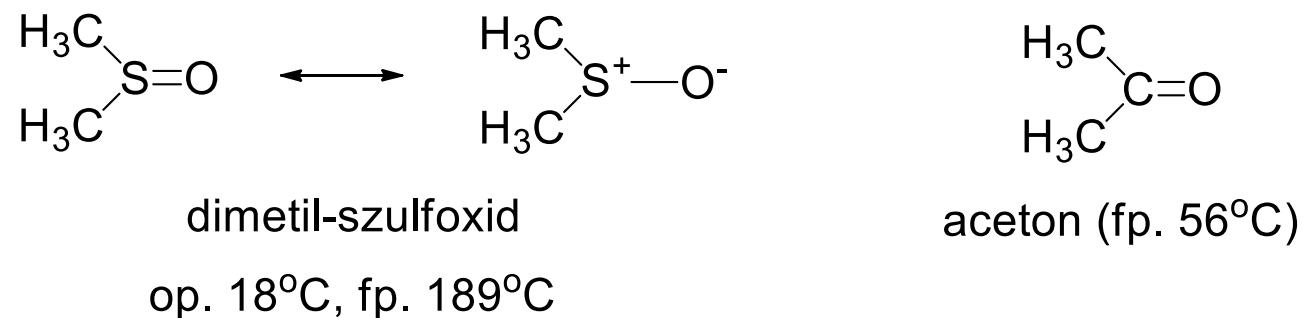
Elimináció (Hofmann analóg)



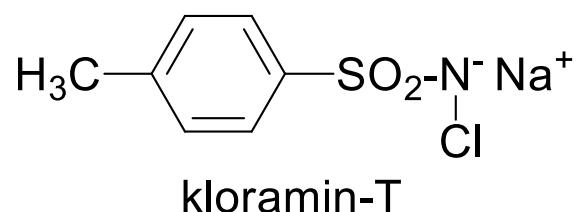
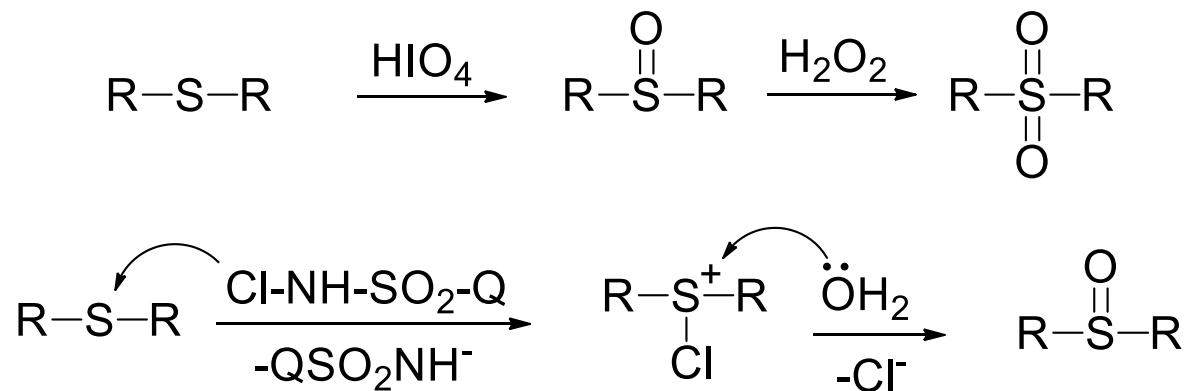
Oxidáció



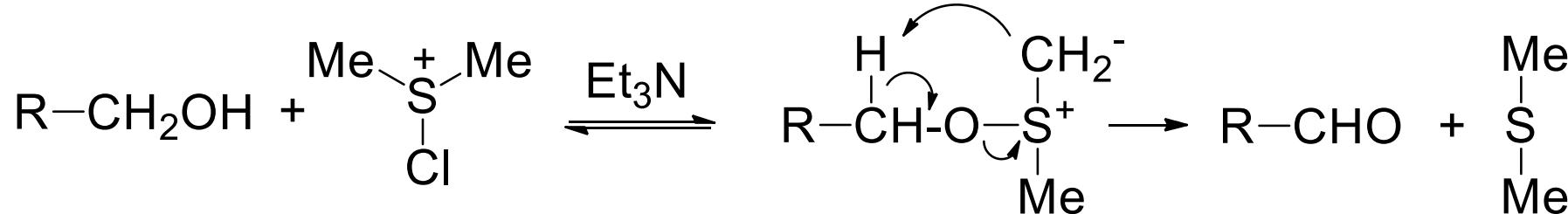
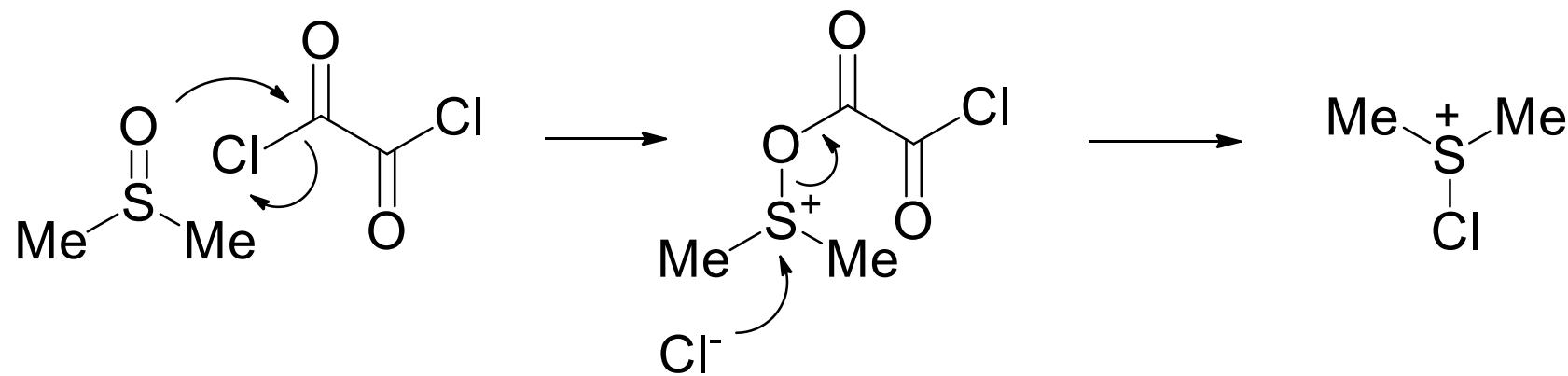
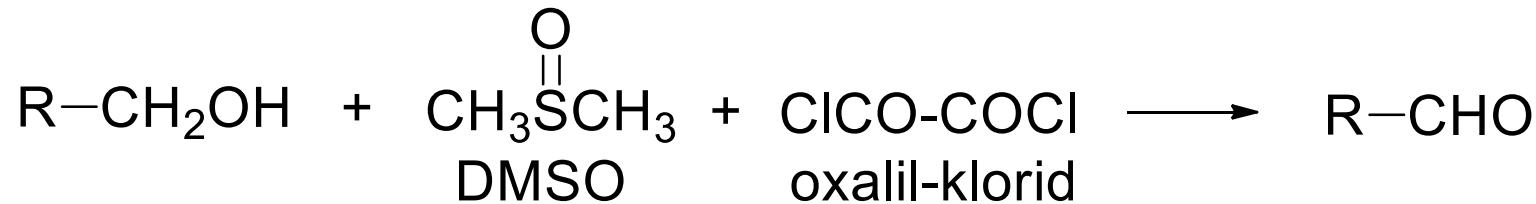
Szulfoxidok



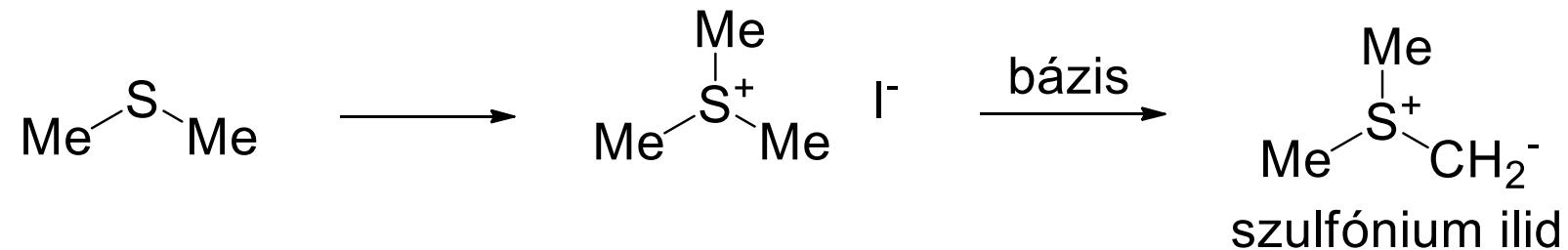
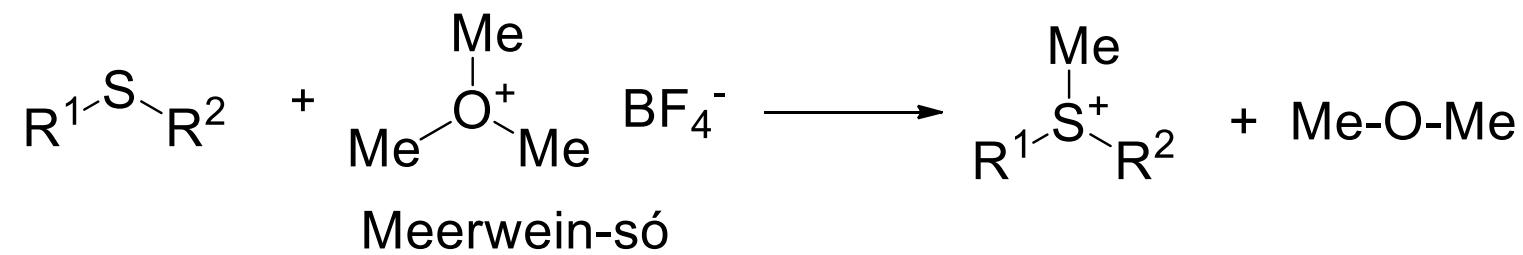
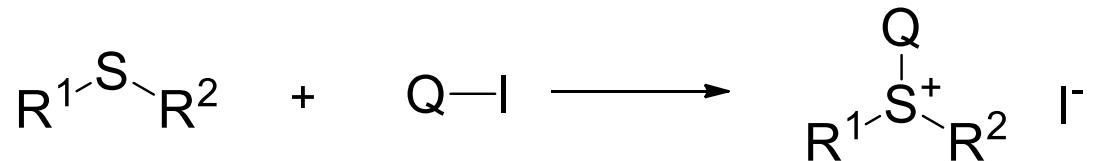
Előállítás, oxidáció

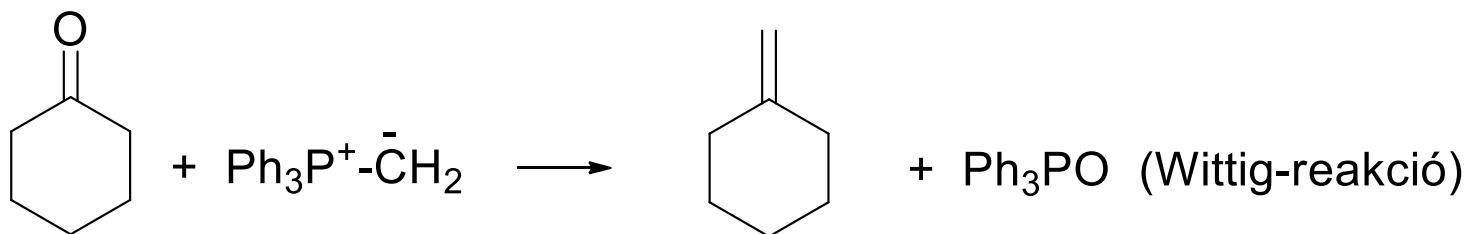
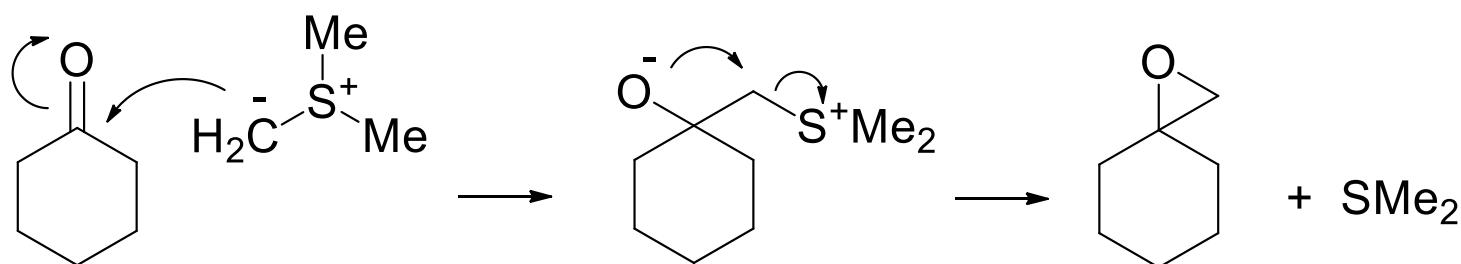
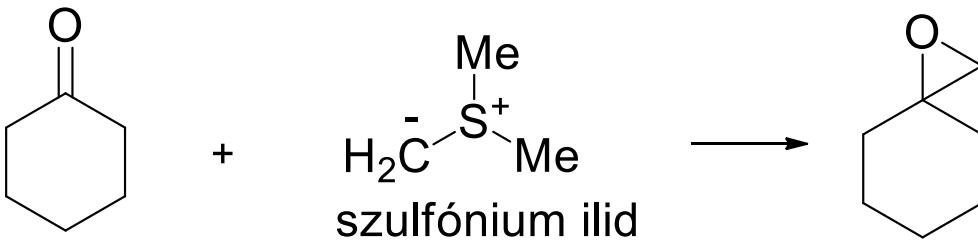


Swern-oxidáció



Szulfóniumsók





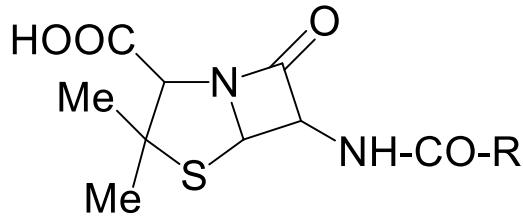
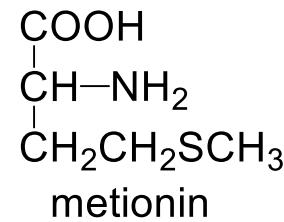
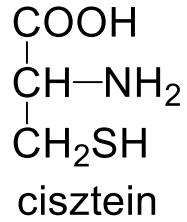
Ph₃P=O

529 kJ/mol

Ph₂S=O

367 kJ/mol

Kéntartalmú vegyületek

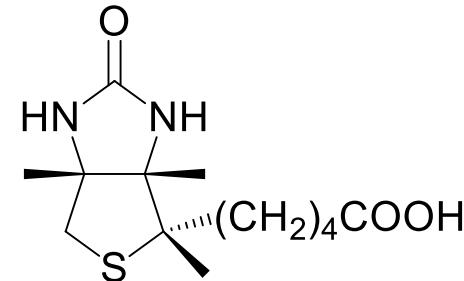


penicillin (Fleming, 1928)

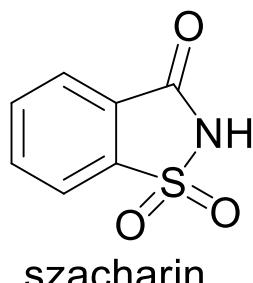
1941: izolálták a Na sóját

1945: szerkezetmeghatározás

1952: szintézis (Woodward)



biotin (H vitamin, Kögl, 1936)



szacharin

