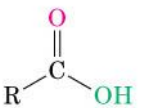
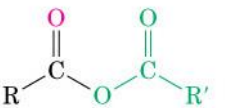
DERIVATI DEGLI ACIDI CARBOSSILICI

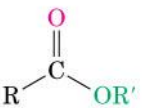


Acido carbossilico

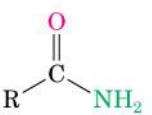
Alogenuro acilico
(X = Cl, Br)



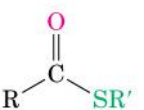
Anidride



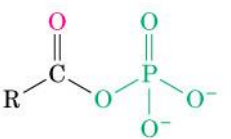
Estere



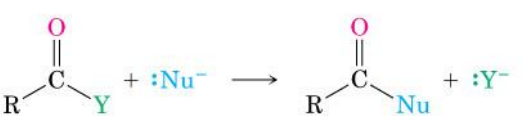
Ammide



Tioestere



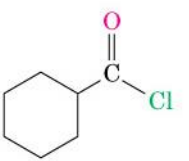
Fosfato acilico



ALOGENURI ACILICI

Acetile cloruro
(dall'acido acetico)

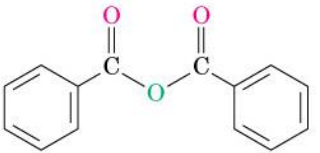
Benzoile bromuro
(dall'acido benzoico)



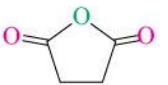
Cicloesanocarbonile cloruro
(dall'acido cicloesancarbossilico)

ANIDRIDI

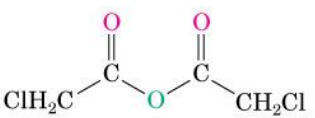
Anidride acetica



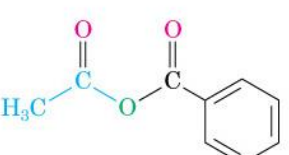
Anidride benzoica



Anidride succinica



Anidride bis(cloroacetica)

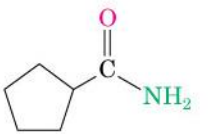


Anidride acetico benzoica

AMMIDI

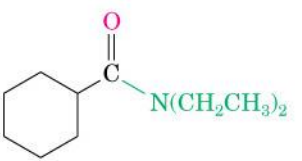
Acetammide
(dall'acido acetico)

Esanammide
(dall'acido esanoico)



Ciclopentancarbossammide
(dall'acido ciclopentancarbossilico)

***N*-Metil**propanammide

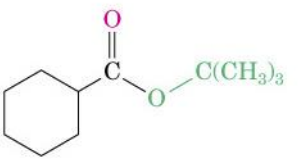


***N,N*-Dietil**cicloesancarbossammide

ESTERI

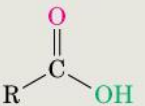
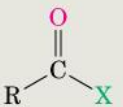
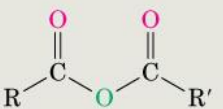
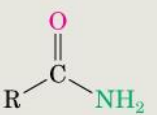
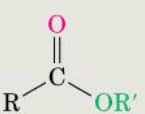
Etile acetato (estere etilico dell'acido acetico)

Dimetil malonato (estere metilico dell'acido malonico)



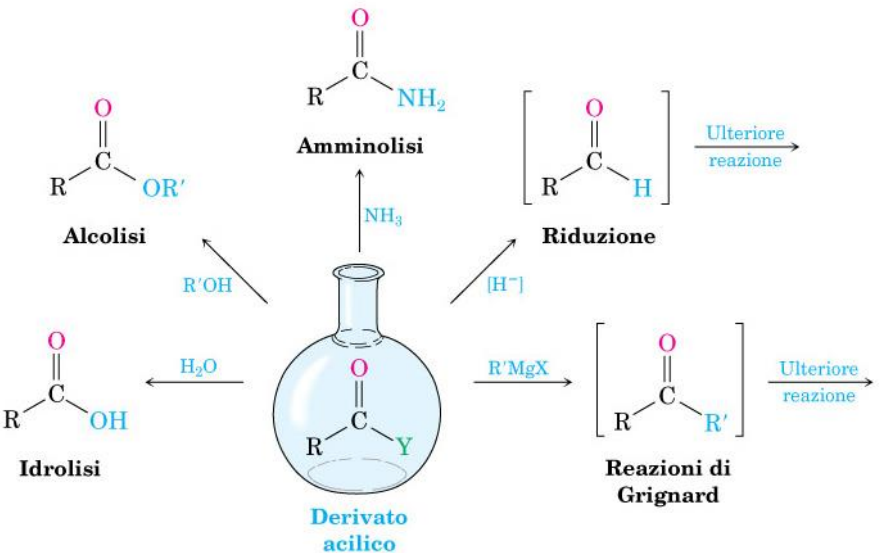
***tert*-Butile cicloesancarbossilato (estere *tert*-butilico dell'acido cicloesancarbossilico)**

NOMENCLATURA

Acido carbossilico		*acido -ico (acido carbossilico)*
Alogenuro acilico		*-ile alogenuro (-carbonile alogenuro)*
Anidride		*anidride*
Ammide		*-amide (-carbossammide)*
Estere		*-ato (-carbossilato)*

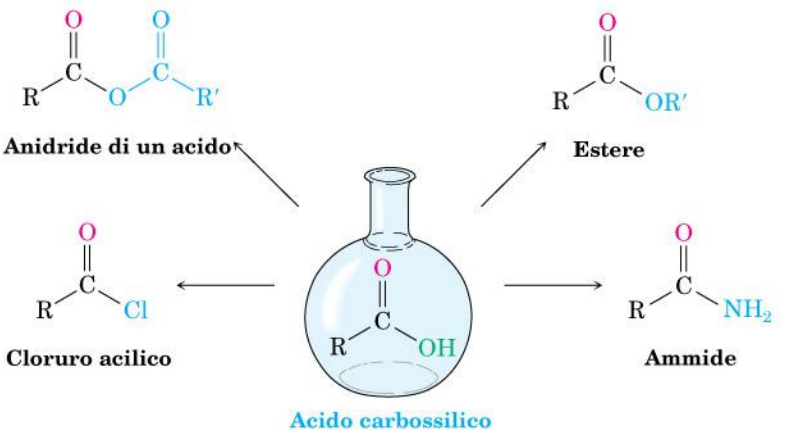
REAZIONI DEI GRUPPI ACILICI

FIGURA 21.3 Alcune reazioni generali dei derivati degli acidi carbossilici.



REAZIONI DEGLI ACIDI CARBOSSILICI

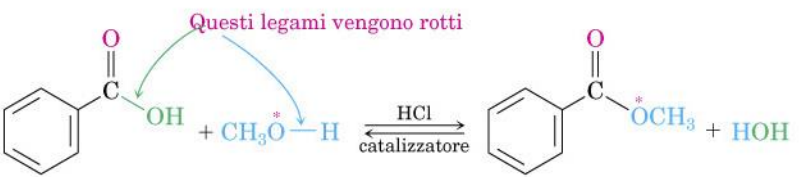
FIGURA 21.4 Alcune reazioni di sostituzione acilica degli acidi carbossilici.



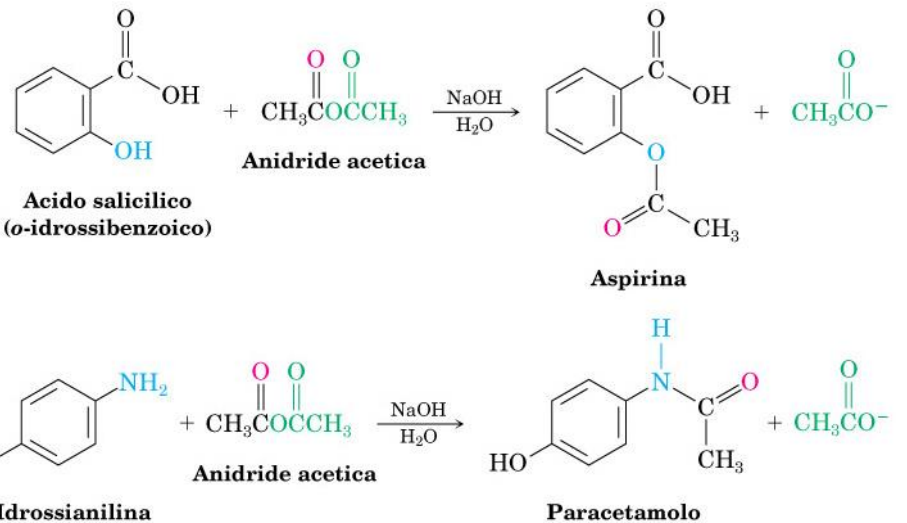
Dal volume: McMurry “Chimica organica”

Piccin Nuova Libraria S.p.A.

Acido carbossilico + alcol + cat. Acido = estere



Reazioni di acilazione: acetilazione

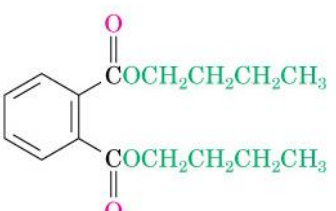


esteri

Metil butanoato
(essenza di ananas)

Isopentile acetato
(banana)

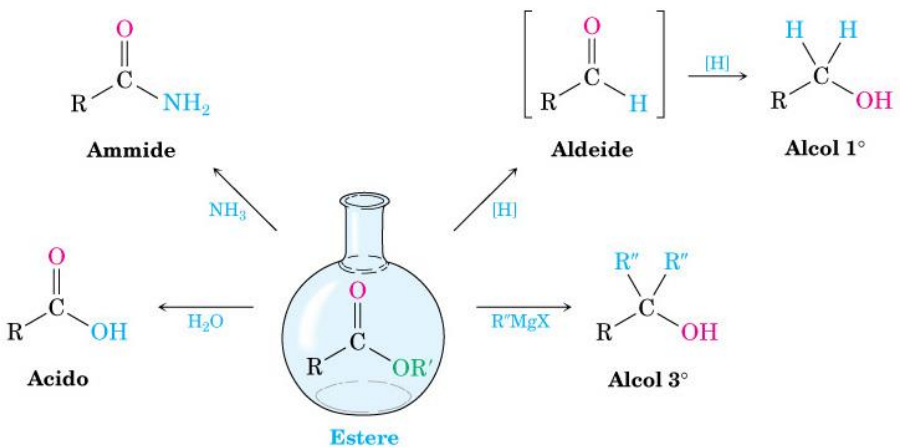
Un grasso
(R = catene C_{11-17})

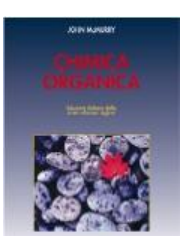


Butile ftalato (plastificante)

Reazioni degli esteri

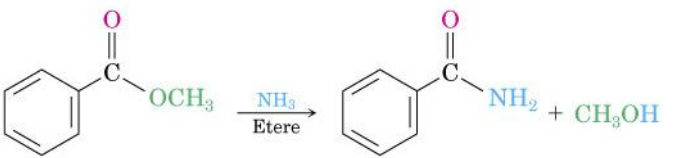
FIGURA 21.8 Alcune reazioni degli esteri.





Dal volume: McMurry “Chimica organica”

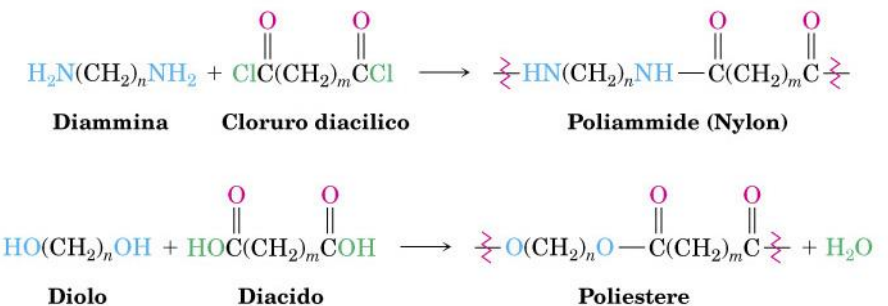
Estere + ammina = ammide



Metile benzoato **Benzammide**


JOHN MCMURRY
CHIMICA ORGANICA
PICCIN

polimeri


Diammina
Cloruro diacilico
Poliammide (Nylon)
Diolo
Diacido
Poliestere