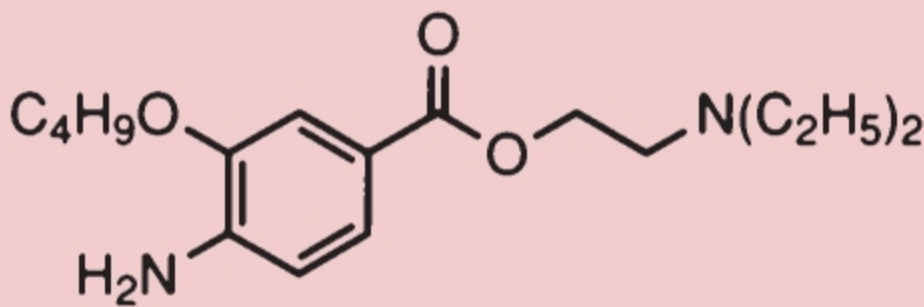
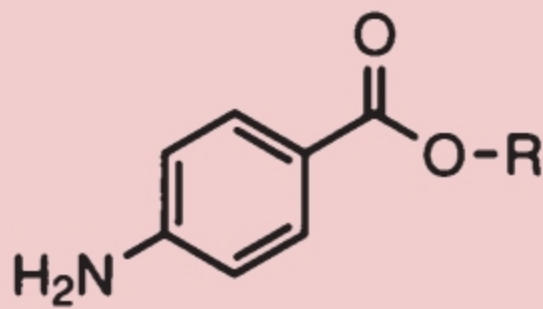


TABLE 16.9 Structures of Local Anesthetics

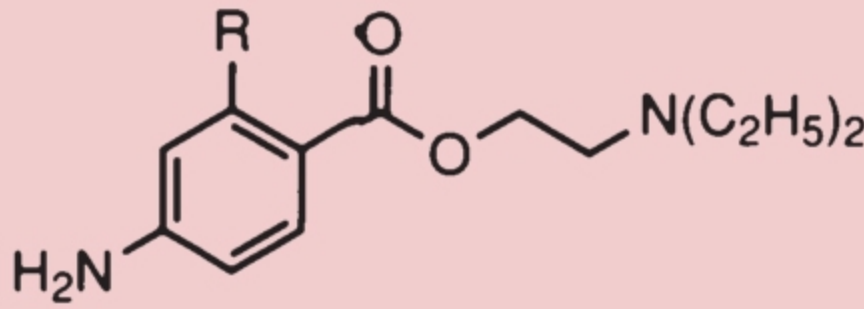
Amino Esters



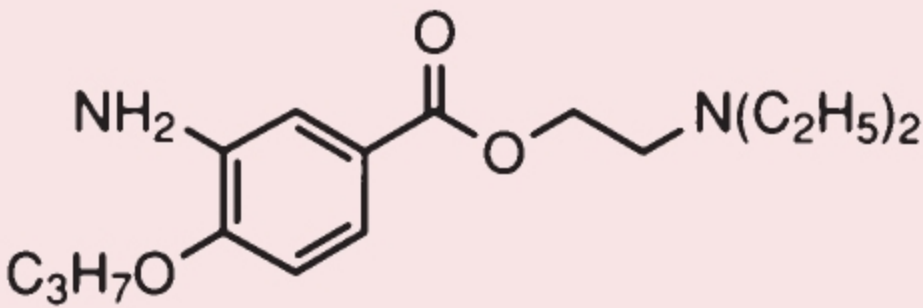
Benoxinate (pKa = 9.0)



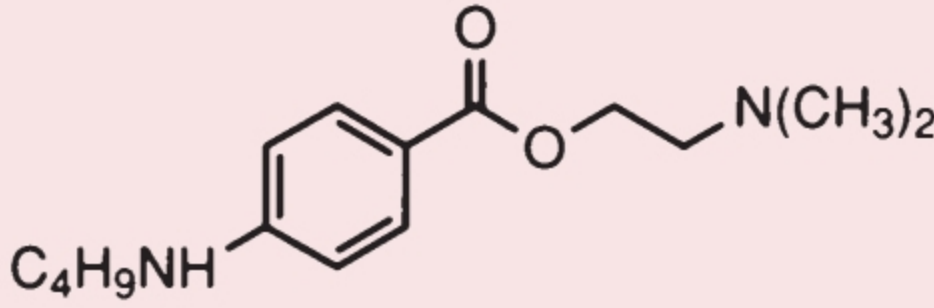
Benzocaine, R= C₂H₅ (pKa = 2.8)
Butamben, R= n-C₄H₉ (pKa = 2.5)



Procaine, R= H (pKa = 8.8)
Chloroprocaine, R=Cl (pKa = 9.0)
Propoxycaine, R=OC₃H₇ (pKa = 9.1)

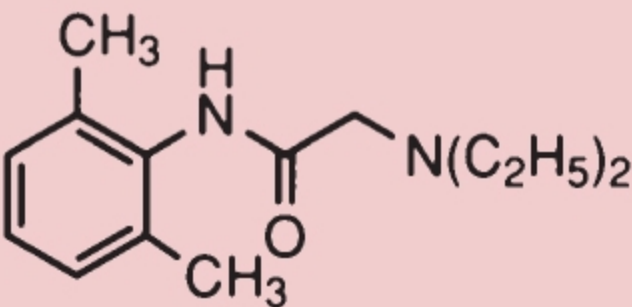


Proparacaine (pKa = 9.1)

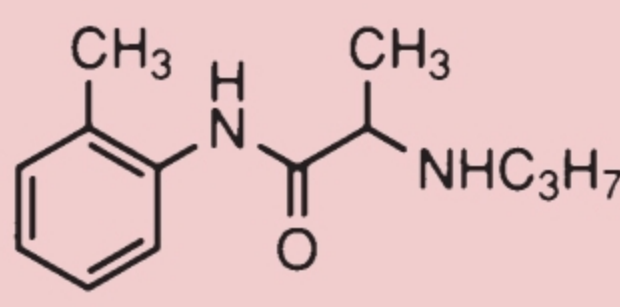


Tetracaine (pKa = 8.4)

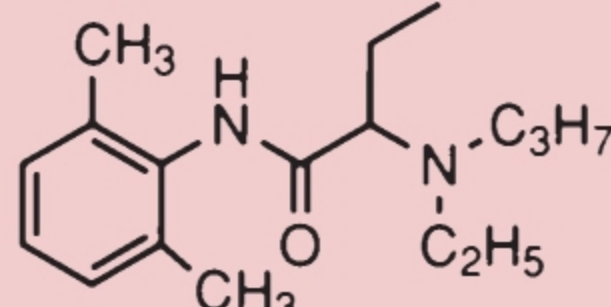
Amino amides



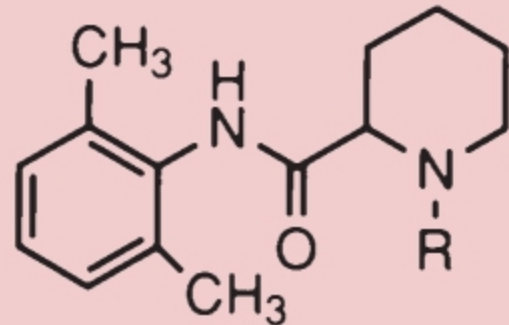
Lidocaine (pKa = 7.8)



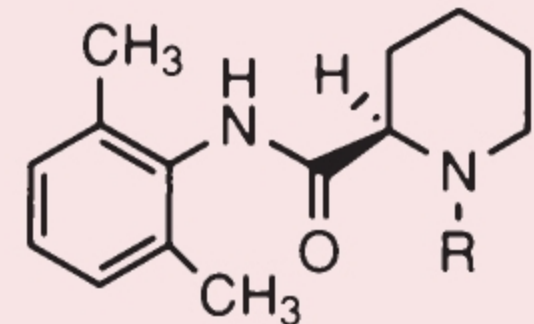
Prilocaine (pKa = 7.9)



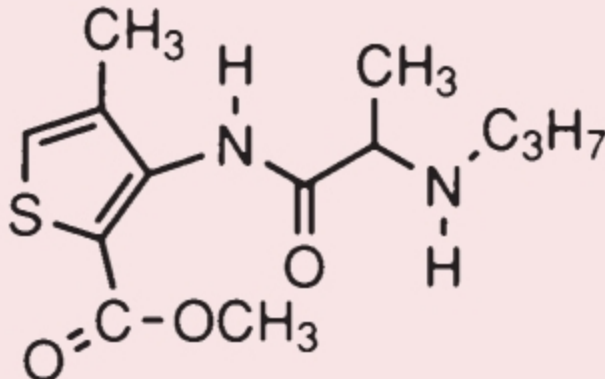
Etidocaine (pKa = 7.7)



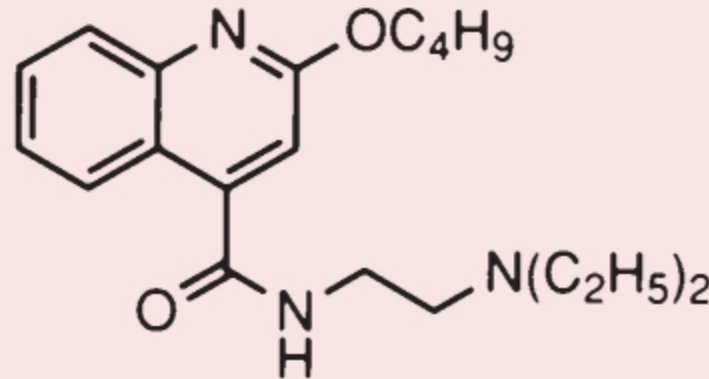
Mepivacaine, R= CH₃ (pKa = 7.6)
Bupivacaine, R= n-C₄H₉ (pKa = 8.1)



Ropivacaine, R= n-C₃H₇ (pKa = 8.2)
Levobupivacaine, R= n-C₄H₉ (pKa = 8.1)

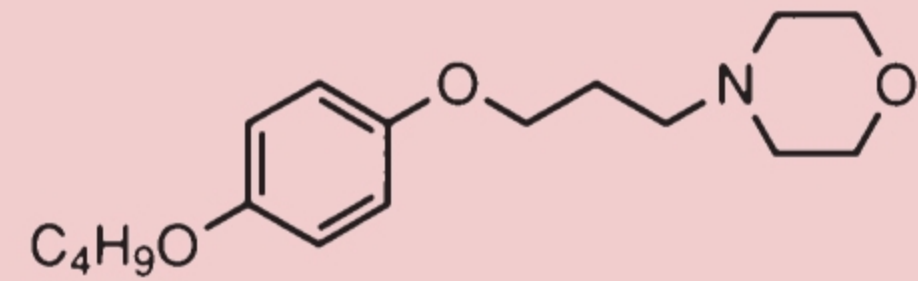


Articaine (pKa = 7.8)



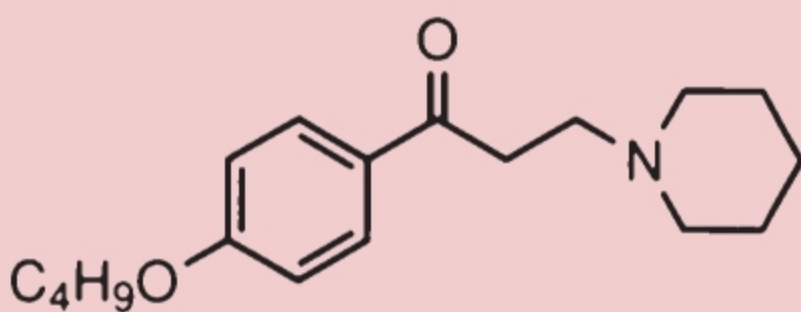
Dibucaine (pKa = 8.8)

Amino ethers



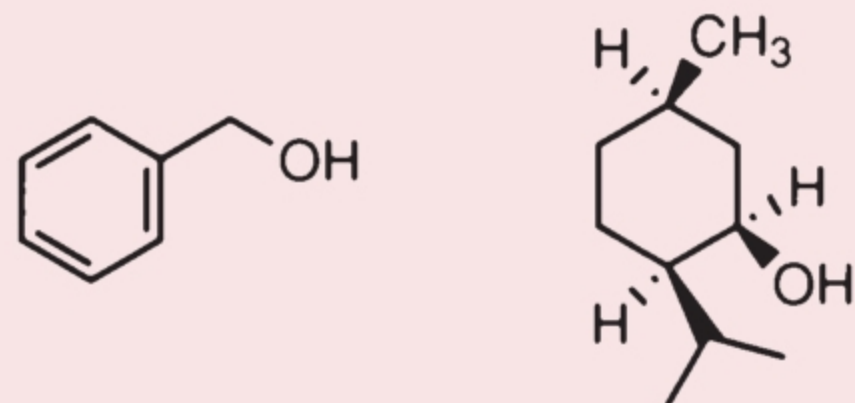
Pramoxine (pKa = 7.1)

Amino ketone



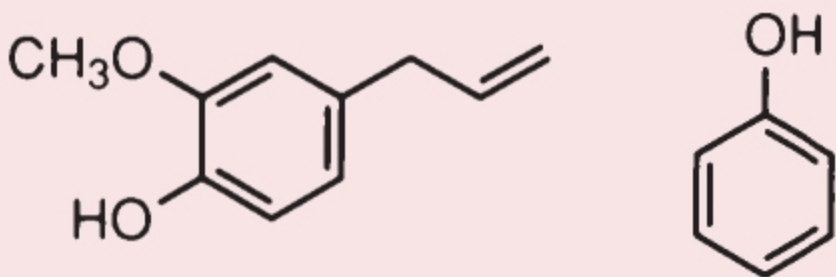
Dyclonine (pKa = 8.2)

Alcohols



Benzyl alcohol Menthol

Phenols



Eugenol Phenol