Epoxides

MCPBA - m-chloroperoxybenzoic acid

-1 0.5
(more generally,

R

R +

R

H

H

R

Br

+ chnt,

R

D +

chnt

Cationic, acid-catalyzed ring opening

This bond is longer and weaker than the bond to the 10 carbon because if the bond broke on its own, a more stable carbocation would form.

Anionic, base-promoted ring opening

less steric hindrance