Acid - Base Continued

Base

Which of these amme bases is the most basic?

Heutral => Look at NH3 Charged ammonia pridine Trigonal Planar 5,2 W/ Resonance

Consult List	More	important than Resonance
Electronegation	ity/Hybridization	15-20 Pta
Resonance		10-15 7ta
Size		5 pta
Induction		1-3 pta
	aumonium ion Stable than the due to \$3 hybrid All Holds How All Holds 10.3 H H More stable Sheeps reactive Weaker acid The Conjugate is	Less likely to donate The more EN 1 = 5.2

what is the nature of a benzene ring
(Theny) Substituent)?
main Chain group = Substituent Thenyl group
Thenyl group
Asking is it EDG or EWG ?
How does it function Resonance or Induction? Is it Stabilizing or destabilizing?
Is it Stabilizing or destabilizing. La depends on what it is attached to
depends on what it
90
A C
A C
15
7 ~ Q (G)
1 Alo Resonance to ring
Spr hybridized Carbon v Nitrogen EN
C-H N-H O-H F Roghly
-C-H =C = C-H & Equivalent
Sp ³ Sp ² Sp 24e
1.6 1 (14) 1



mode of Action: Induction

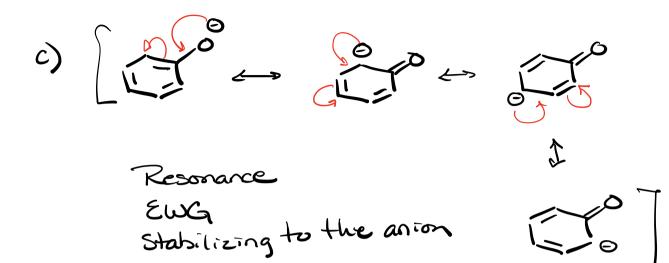
acting as: EWG

effect: Stabilizing to the anion

B) Tonated et to the + change

Acting as: EDG

Effect: Stabilizing to the



CE CA

Inductively withdrawing Induction

Induction EWG Resonance Withdrawing

> Resonance EUG

Resonance Donating

> Resonance EDG

what is the nature of the ester group in the following molecules. Tell me ENG or EDG, Resonance or induction and finally if it is stabilizing or destabilizing to the molecule ? TO NO DE TOUR No Resonance to ester Induction? oxygen is Inductively withdrawing Swa Induction Destabilizing

Resonance & Induction



Eux- Destabilizing

EDG-S+

EDG-S+

EDG-S+

Relocalizing

Stabilizing

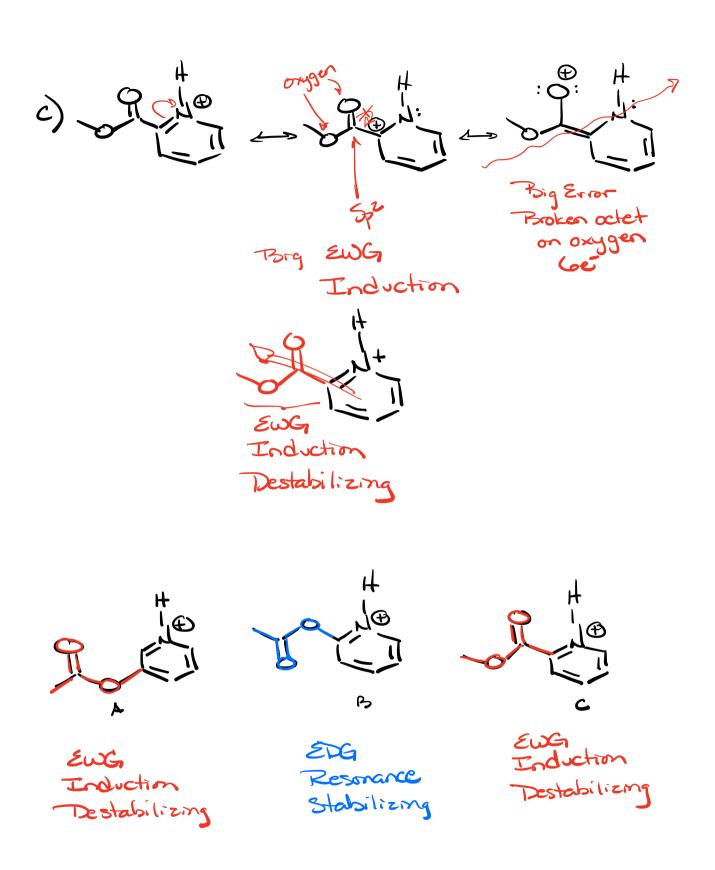
St C)

St C)

Localizing

Destabilizing

2 more 2 more Stabilizing



End Chapter 3

Start of Chapter 4

Continue Saturated
only Cartom & hydrogen
Hydrocartons W/ Rings
Continue 1 Ring
Continue 2 Ring

H H H H

Con H20

oss of 2 His to make ring

Isomers

#of Isomers 1 1 2 3 5

C3H16 C3H28 C3H28 C3H28 9 18 75 4,347

There is no formula to calculate the number of isomes.

Isomers of CoHing

Conformations Same connectivity => just rotation