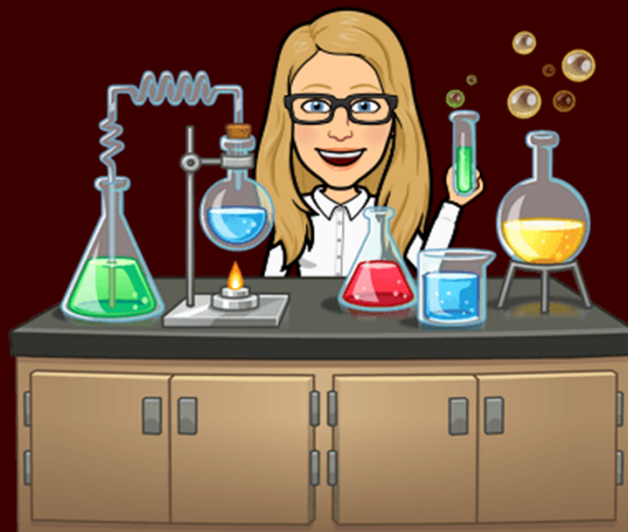


For clicker question voting, go to:
<https://pollev.com/lauriestarke263>



Dr. Laurie S. Starkey
Cal Poly Pomona

CHM 3150 Organic Chemistry II

Announcements 11/6/25

Today's Topic: Introduction to Aromatic Reactions (Ch. 18)

Ch. 17/18 (Step 2)

- ✓ Watch
- ✓ Read
- ✓ Practice

Daily To-Do

Flipped Lectures

Step 2

- Read Klein 18.1 Electrophilic Aromatic Substitution (EAS) [Aromatic Reactions - Part 1](#)
38 minutes ← *skeleton notes* pages 18-1 through 18-4
- Read Klein 18.7 - 18.11 EAS on Substituted Benzenes
- Work through SkillBuilders
 - 18.1 ID Effects of a Substituent
 - 18.2 Directing Effects (Multiple Subs.)←
- & Textbook problems 18.12-18.14
- Free Red Ink Homework: [EAS Homework I](#) ←

Aromatic Compounds: Reactions, Part 1		1:2
Intro		0:00
Reactions of Benzene		0:07
N/R as Alkenes		0:08
Substitution Reactions		0:50
Electrophilic Aromatic Substitution		1:24
Electrophilic Aromatic Substitution		1:25
Mechanism Step 1: Addition of Electrophile		2:08
Mechanism Step 2: Loss of H ⁺		4:14
Electrophilic Aromatic Substitution on Substituted Benzenes	Electrophilic Aromatic Sub.	5:21
Electron Donating Group		5:22
Electron Withdrawing Group		8:02
Halogen		9:23
Effects of Electron-Donating Groups (EDG)		10:23
Effects of Electron-Donating Groups (EDG)	Effects of EWG & EDG	10:24
What Effect Does EDG (OH) Have?		11:40
Reactivity		13:03
Regioselectivity		14:07
Regioselectivity: EDG is o/p Director		14:57
Prove It! Add E ⁺ and Look at Possible Intermediates		14:58
Is OH Good or Bad?		17:38
Effects of Electron-Withdrawing Groups (EWG)		20:20
What Effect Does EWG Have?		20:21
Reactivity		21:28
Regioselectivity		22:24
Regioselectivity: EWG is a Meta Director		23:23
Prove It! Add E ⁺ and Look at Competing Intermediates		23:24
Carbocation: Good or Bad?		26:01
Effects of Halogens on EAS		28:33
Inductive Withdrawal of e ⁻ Density vs. Resonance Donation		28:34
Summary of Substituent Effects on EAS		32:33
Electron Donating Group		32:34
Electron Withdrawing Group		33:37
Directing Power of Substituents		34:35
Directing Power of Substituents		34:36
Example		36:41

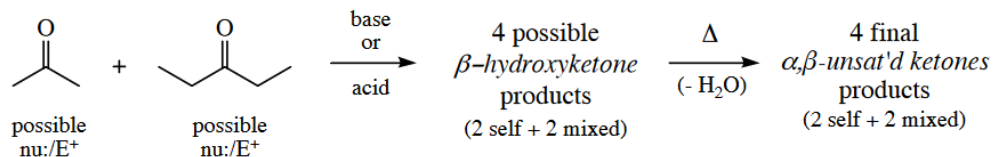
Flipped lecture: Ch. 18 Aromatic Rxns (Part 1 of 3)

Messy Aldol (Ch.21) due ASAP...and first Ch. 18 homework now available!

California State Polytechnic University, Pomona
Organic Chemistry II CHM 3150, Dr. Laurie S. Starkey
"Messy Aldol" Homework

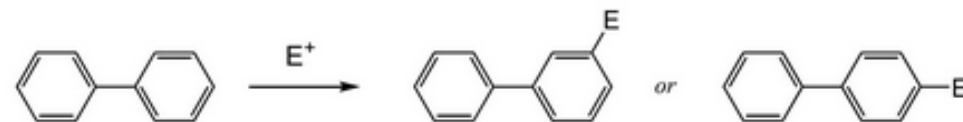
Name: _____ Section (Day/Time): _____

Predict the possible aldol products for the following reaction (**provide 8 structures**). Choose **one final product** (α,β -unsaturated ketone) and show **both** the acid- and base-catalyzed mechanisms.



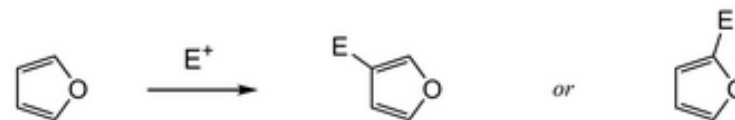
California State Polytechnic University, Pomona
Organic Chemistry II CHM 3150, Dr. Laurie S. Starkey
Electrophilic Aromatic Substitution (EAS) Homework I

Name: _____ Section: _____ (day/time)



A) Which would you expect to be the major product? Explain, using drawings to support your answer.
hint: compare the stabilities of the competing intermediates

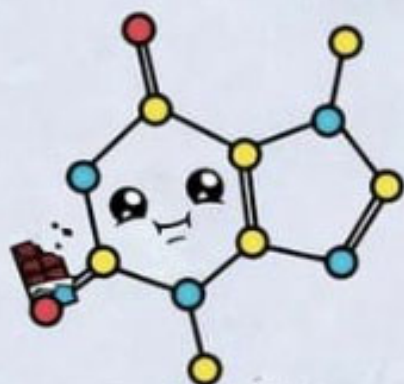
EAS Homework #1



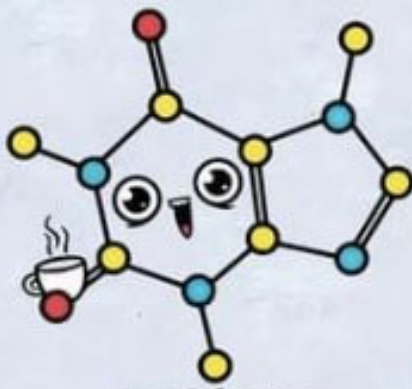
B) Furan is known to give the 2-substituted compound as the major product. Explain why, using drawings to support your answer. *hint: compare the stabilities of the competing intermediates*

Chemistry is awesome

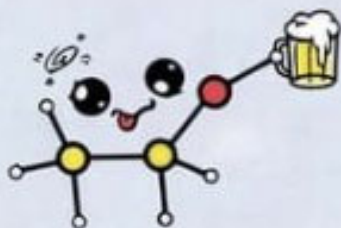
(Some interesting aromatic compounds!)



chocolate
(Theobromine)



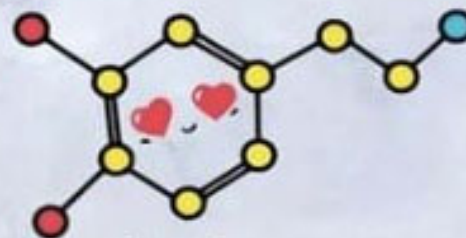
caffeihe



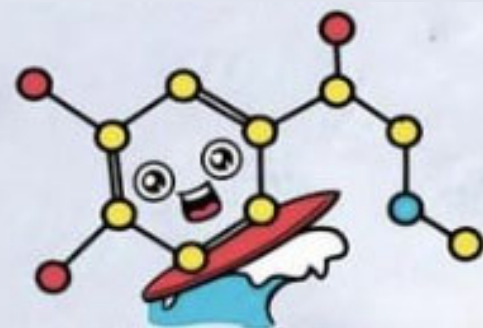
Alcohol
(Ethanol)



Happiness
(Serotonin)



LoVe
(Dopamine)



Adrenaline