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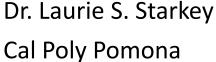








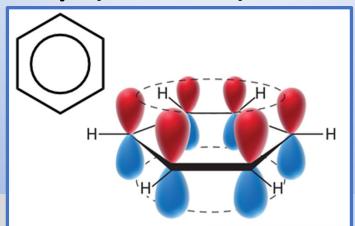




CHM 3150 Organic Chemistry II Announcements 11/4/25



Today's Topic: Introduction to Aromaticity (Ch. 17)



Ch. 17 (Part 1 of 1!)

- ✓ Watch
- ✓ Read
- **✓** Practice

Daily To-Do Flipped Lectures

Step 1

 Read Klein-Starkey Chapter 17, sections 17.1-17.5



Work through SkillBuilders 17.1, 17.2, 17.3

Ch. 17 - Aromaticity
61 minutes

IUPAC - Aromatic Compounds



---All pages of skeleton notes---

Section 9: Aromatic Compounds ▶ Aromatic Compounds: Structure ▼ **=+** + 1:00:59 0:00 Intro Aromatic Compounds 0:05 Benzene 0:06 3D Sketch 1:33 Features of Benzene 4:41 Features of Benzene 4:42 Aromatic Stability 6:41 Resonance Stabilization of Benzene 6:42 Cyclohexatriene 7:24 Identifying and Benzene (Actual, Experimental) 8:11 **Naming Aromatic** Aromatic Stability 9:03 9:04 **Energy Graph** Compounds Aromaticity Requirements 9:55 9:56 1) Cyclic and Planar 2) Contiguous p Orbitals 10:49 3) Satisfy Huckel's Rule 11:20 Example: Benzene 12:32 Common Aromatic Compounds 13:28

Naphthalene

Determining Aromaticity

Molecular Orbital (MO) Theory

Example: Which of the Following are Aromatic?

What's So Special About '4n + 2' Electrons?

π bond & Overlapping p Orbitals

Flipped Lecture: Ch. 17 Aromaticity

Example: Pyridine	Aromatic Nomenclature		65:02	
Common Aromatic Compounds				
Example: Furan	Aromatic Nomenclature and Examples	Aromatic	65:03	
Common Aromatic Compounds	Aromatic Nomenclature, cont.	Nomenclature	69:09	
Example: Thiophene	Ortho, Meta, and Para	Nomenciature	69:10	
Example: Pyrrole				
Common Aromatic Compounds	Aromatic Nomenclature, cont.	Aromatic Nomenclature, cont.		
Cyclopentadienyl Anion	Common Names for Simple Substituted Aromatic Compounds			
Cycloheptatrienyl Cation	23:48			

26:04

27:28

27:29

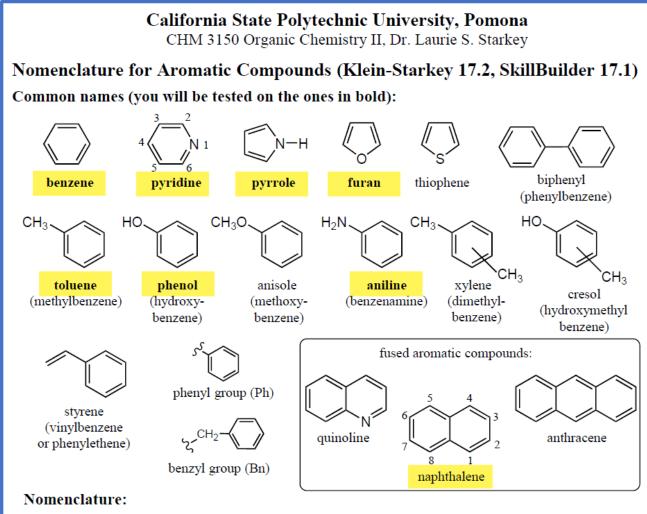
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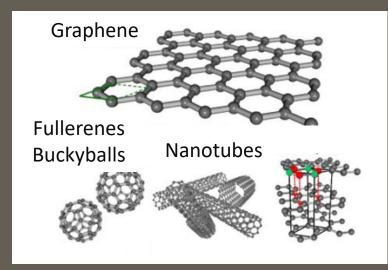
Aromatic Nomenclature

See Ch. 17 lecture notes for names you need to know (in bold)



Disubstituted benzenes are usually named as ortho, meta, or para. Otherwise, number the benzene carbons.

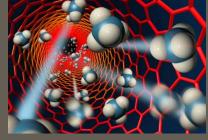
Nanotechnology





GrapheneDiscovered in 2004 2010 Nobel Prize Strong, Durable

Medicine







Cosmetics



Military



CHM 3150 Organic Chemistry II, Dr. Laurie S. Starkey, Fall 2025

Tentative Schedule (Chapter and Worksheet #)

Finishing Strong
Exam III Ch. 21 &
Aromatic (17/18)

H		Teniative Schedule (Chapter and Worksheet #)						
I	Week		Mon	Tues	Wed	Thurs	Fri	
	_		10/20	10/21	10/22	10/23	10/24	
5	Strong			Ch. 21 #1		Ch. 21 #2		
			10/27	10/28	10/29	10/30	10/31	
ı. 21 & 🛄			Ch. 21 #3		Ch. 21 #4			
			11/3	11/4	11/5	11/6	11/7	
1	17/18)			Ch. 17 # <i>1</i>		Ch. 17/18 #2		
	•		11/10	11/11	11/12	11/13	11/14	
	12			Holiday		Ch. 17/18 #3		
			11/17	11/8	You are	11/20	11/21	
	13			17/18 #4 Ch.22.10, 22.11		Ch. 16 # <i>1</i>		
			11/24	11/25	— here —	11/27	11/28	
	14			Exam III		Holiday	Holiday	
			12/1	12/2	12/3	12/4	12/5	
	15			Ch. 16 #2		Ch. 22 # <i>1</i>		
	Finals	1	12/8 Tu	e. 1:00–2:50pm (02/1pr	n) 12/10	Thurs. 12/11	12/12	
	(section)		12/	9 5:00–6:50 pm (03/5:30))	3:00–4:50 pm (01/4pm)		
I,								

