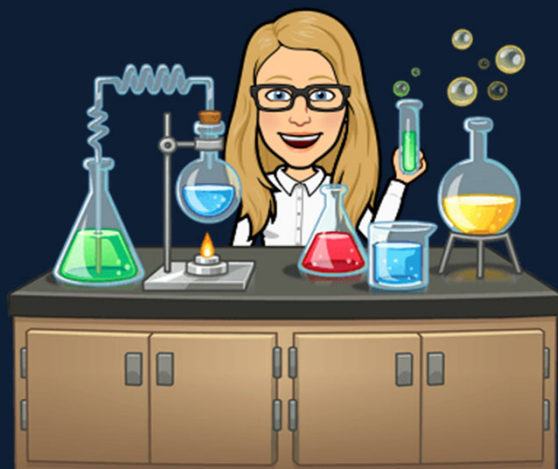


For voting, go to: <https://pollev.com/lauriestarke263>
or text LAURIESTARKE263 to 37607 to join poll



Dr. Laurie S. Starkey

Cal Poly Pomona

CHM 3140 Organic Chemistry I
Announcements 4/30/24

Today's Topic: Reactions of Alkynes (Ch. 9)

▼ Week 14 - Chapter 9 Reactions of Alkynes

📄 Chapter 9 Alkyne Reactions - Things to do

📄 Assignments due at the end of this unit (Ch. 9)

Canvas Module
Week 14, Ch. 9

✓ Watch

✓ Read

✓ Practice

Step 1: For an overview of the chapter, here is a [Chapter 9 Summary](#)

- **Watch** [Alkynes - Part 1](#) ➞ (36 minutes, pages 9-1 to 9-3)
- **Read** Klein Chapter 9 (sections 1, 2, 4-9)
- **Practice** by working through **SkillBuilders 9.3, 9.4**




Educator Lecture

Alkynes ▾	≡+ ▾	1:13
Intro		0:00
Structure of Alkynes		0:04
Structure of Alkynes		0:05
3D Sketch		2:30
Internal and Terminal		4:03
Reductions of Alkynes		4:36
Catalytic Hydrogenation	Reduction,	4:37
Lindlar Catalyst	Oxidation &	5:25
Reductions of Alkynes	Addition of HX/X ₂	7:24
Dissolving Metal Reduction		7:25
Oxidation of Alkynes		9:24
Ozonolysis		
Reactions of Alkynes		
Addition Reactions: Bromination		
Addition of HX		
Addition of HX		
Addition of HX		
Addition of HX: Mechanism		
Example		
Example: Transform		17:39

Hydration of Alkynes	23:35
Hydration of Alkynes	23:36
Hydration of Alkynes	26:47
Hydration of Alkynes: Mechanism	26:49
'Hydration' via Hydroboration-Oxidation	32:57
'Hydration' via Hydroboration-Oxidation	32:58
Disiamylborane	33:28
Hydroboration-Oxidation Cont.	34:25
Alkyne Synthesis	36:17

Hydration,
Tautomerization

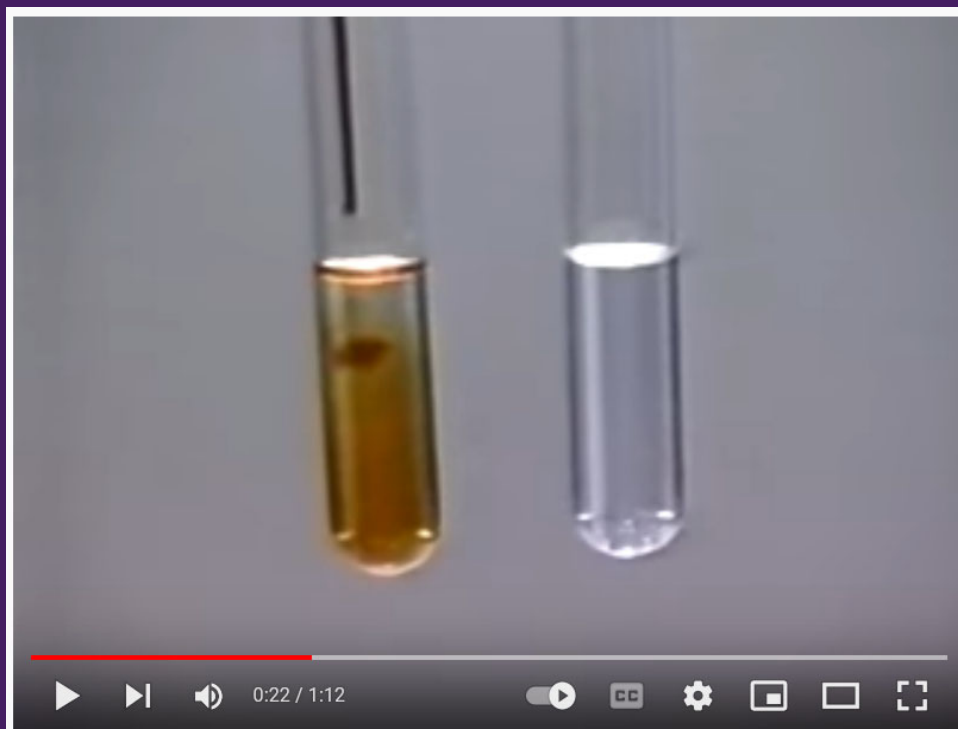
Please complete all CPP course evaluations by **Sunday 5/5**
Thank you to those who have responded!

	Spring 2024 Course Evaluations Course: CHM_3140-02_2243	Open	Due May 05 2024 11:59:00 PM
	Spring 2024 Course Evaluations Course: CHM_3140-03_2243	Open	Due May 05 2024 11:59:00 PM
	Spring 2024 Course Evaluations Course: CHM_3150-05_2243	Open	Due May 05 2024 11:59:00 PM

The image is a dense collage of various chemistry-related items. It features numerous handwritten notes on lined paper, many of which contain chemical structures, reaction schemes, and text. Some notes are clearly legible, such as 'Chapter 8', 'Preparation of Aldehydes', 'Mechanism', 'ACID CATALYZED EPOXIDE', 'Hydrohalogenation', and 'What reagents...'. There are also several stacks of papers and a dog's head (possibly a Weimaraner) peeking out from behind a stack of papers in the lower right quadrant. The entire scene is overlaid with a semi-transparent blue filter.

**Where are your
Flash Cards?!**

The brown solution in the pipette is Br_2/CCl_4 .
One test tube contains **cyclohexane** and the other
contains **cyclohexene**. Which is which?



https://youtu.be/2C_6ax2TsV8

How does bleach remove color? What functional groups do colored compounds contain?



Original Billy Mays OxiClean Ad from October 2000

<https://youtu.be/ZTpXh33Mbeg?t=15>



Bleach vs. Food Coloring Rainbow

https://youtu.be/ljUgV3gg_Ng?t=33