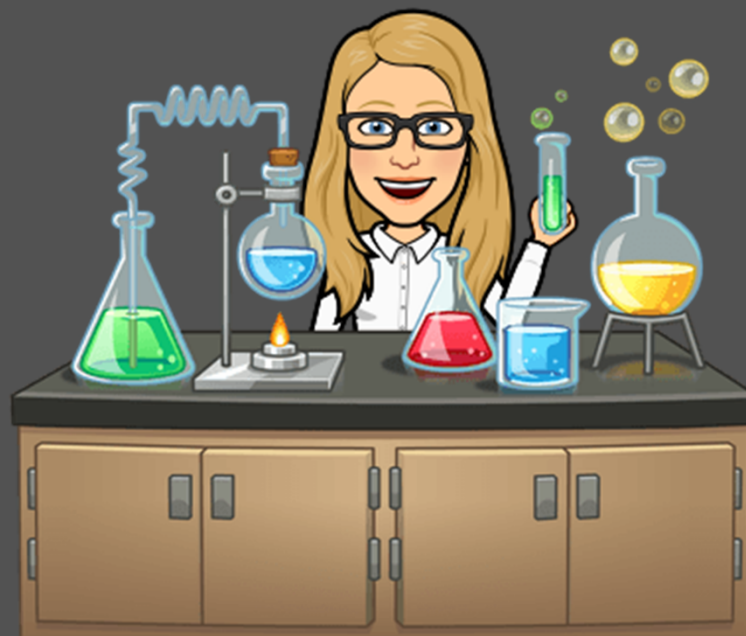


For clicker question voting, go to:  
<https://pollev.com/lauriestarke263>



Dr. Laurie S. Starkey  
Cal Poly Pomona

# CHM 3150 Organic Chemistry II

8/28/25

# Today's Topic:

## Introduction to Alcohols (Ch. 12)

### Daily To-Do

### Flipped Lectures

#### Step 1 **Read**

- Read Klein Sections 12.1, 12.2, 13.1 – 13.3  
**Nomenclature, Physical Properties, Acidity of ROH**
- Watch flipped lecture
- Work through **SkillBuilders 12.1, 12.2, 13.1**
- Practice Alcohol/Ether Nomenclature:  
[practice worksheet](#) and [answer key](#)

[Nomenclature of Alcohols and Ethers, and Part 1 of Alcohols](#)

**35 minutes,** *skeleton notes pages 12-1 to 12-3*

**Practice**

**Watch**

# Flipped Lectures

## Alcohols, Part I ▾

Intro	0:00
Alcohols	0:11
Attributes of Alcohols	0:12
Boiling Points	2:00
Water Solubility	5:00
Water Solubility (Like Dissolves Like)	5:01
Acidity of Alcohols	9:39
Comparison of Alcohols Acidity	9:41
Preparation of Alkoxides	13:03
Using Strong Base Like Sodium Hydride	13:04
Using Redox Reaction	15:36
Preparation of Alkoxides	17:41
Using K <sup>+</sup>	17:42
Phenols Are More Acidic Than Other Alcohols	19:51

## Physical Properties, Acidity & Prep of Alkoxides

Alcohol Nomenclature	29:24
Alcohol Nomenclature and Examples	29:25
Alcohol FG Has Priority Over Alkene/yne	33:41
Ether Nomenclature	36:32
Ether Nomenclature and Examples	36:33

## Alcohol & Ether Nomenclature

# Assignments due\* this week (Gradescope)

## Friday Five

### Q1 Reflection & Padlet photo

4 Points

Describe how you spent your time working on Organic Chemistry this past week.

Describe your plans for studying Organic Chemistry this weekend and the coming week. Do you have any specific times blocked out for these activities?

Visit the CHM 3150 Padlet at <https://padlet.com/lstarkey>. Please upload your photo, a screenshot or attach the Padlet introduction here.

No files uploaded

## 20-Question Review "Due" Monday 9/1

CHM 3150 Organic Chemistry II, Cal Poly Pomona, Dr. Laurie S. Starkey

Homework #1 – 20-Question Review, Chapters 7-10

### Free Red Ink Homework #1

Name: \_\_\_\_\_

Section (day/time): \_\_\_\_\_

- On blank pieces of paper, draw out the following twenty textbook problems (Klein, 4<sup>th</sup> edition) and solve them. Do not just write down the answers. **7.76acef, 8.42ac, 8.43a-f, 9.41bcd, 9.52bc, 10.19abc**
- Check your answers in the Student Solutions Manual (SSM), and make corrections to your work. You are encouraged to work with a study group, but your review of the material is worthwhile only if you attempt the problems before checking the SSM!
- Use Genius Scan to create a PDF of your homework – the app automatically crops pages to 8.5x11, but be sure to apply the black & white filter
- Submit to Gradescope – you must select the page(s) of your submission that correspond to each problem in Gradescope (on which page(s) can I find problems 7.76acef, and on which page(s) can I find Ch. 8 problems?)

===== *Simply copying answers from solutions manual will not earn full credit!* =====

no penalty if  
this is late

## OLC Report

### Q1 OLC report and photo

1 Point

Who did you get together with? When was the study session, and how did you meet up?

What did your OLC work on during the study session?

What did you contribute to the session? What did you learn?

Please upload evidence of your study session (screenshot/photos). Thank you, and have a great week!

No files uploaded



# WileyPLUS for Videos, Interactive Graphics, Textbook Problems

## 12.2: Acidity of Alcohols and Phenols (SkillBuilder 12.2)

### Reading & Interactive:



[12.2: Acidity of Alcohols and Phenols](#)



[Why are Phenols Acidic?](#)

### SkillBuilder Videos:



[Learn the Skill - SkillBuilder 12.2 - Comparing the Acidity of Alcohols](#)



Solved problem: [SkillBuilder 12.2, Problem 12.7](#)

### Legend:



Reading



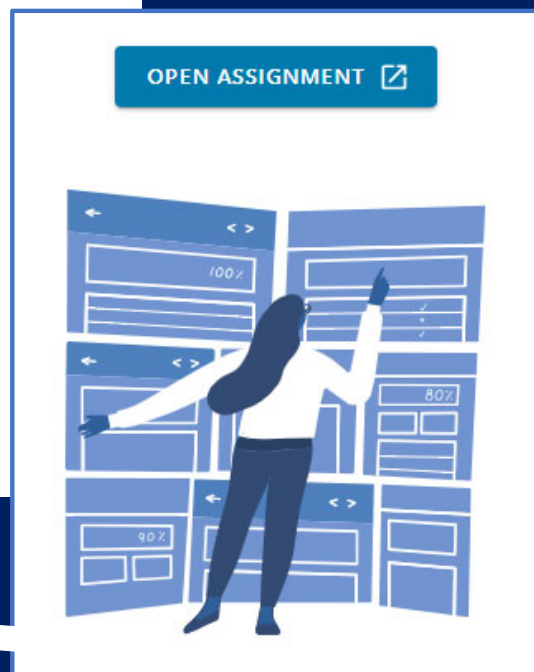
Video



Interactive



Lightboard



### Browser error!

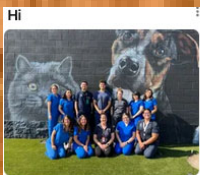
- Clear cache
- Try Chrome, etc.
- Restart laptop



There was an error loading the page

[TRY AGAIN](#)

**Hi**



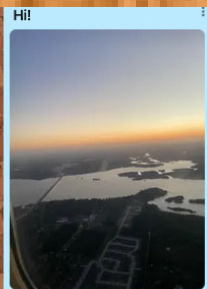
My amazing medical staff I had the opportunity to intern with this past summer.

Hey y'all,  
My name is Kaleb and I am a third year Animal Science Pre-vet major! I hope to become a veterinarian in the near future and look forward to this class! Good luck to all of us!

0

Add comment


**Hi!**



Hi everyone! My name is Kristin and I'm a senior biotechnology major with a minor in chemistry. I look forward to learning more about organic chemistry since last semester was such an interesting introduction to the subject. See you guys in class!

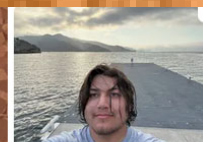
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Add comment



Hello everyone. My name is Jackaline. I'm a senior majoring in Animal Sciences Pre-Vet. This is my small family. My daughter is five and she just started Kindergarten yesterday. My partner and my daughter have been very supportive in my education journey, it's been hard but I know it will be worth every sacrifice. I look forward to continue learning organic chemistry.

Post snorkel @ Catalina this summer



Hey everybody, I'm Brandon! I'm an Envi Bio major entering my senior year. I'm excited to learn more about organic compounds as I'm keen on studying how PFAs and other anthropogenic compounds alter our environment. See y'all in class!


0

Add comment

**Hii**



Hello my name is Sofia and I am an animal science pre vet major to be veterinarian! I am nervous but also excited to start learning about organic chemistry!



Hello! My name is Lauren and I'm a third year Animal Science Pre-Vet student. I'm working towards becoming a veterinarian. I'm excited to meet you all and start learning!

0


Add comment



Hi, my name is Zoey. I'm a student in pre-vet major. This should be my senior year of school. I hope we will learn a lot of great things about ochem this semester. And I also hope that we will all do great in the class.

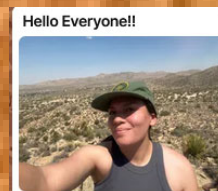
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Add comment



Hi everyone! My name is Giselle and I am a fourth year animal science pre-vet major. I enjoy hiking, shopping, and hanging out with my friends. I am looking forward to learning more things about Ochem this semester.

**Hello Everyone!!**

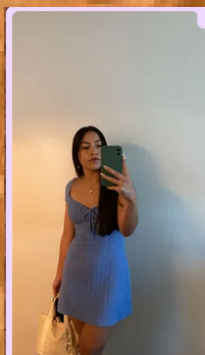


In Joshua Tree National Park (very hot)

My name is Maddie Navarro, I am in my third year at CPP and I am an Animal Science Pre-vet major. I hope to attend any vet school that will take me and work as a Large Animal Veterinarian. I am so excited to start to year, for this year in Ochem 2 I hope to proficiently memorize all the synthesis I need too before exams so I won't need to cram! (Yayyyy). I also cannot wait to continue my work at the Livestock Units as a student live-in and with my new job working at the Agriculture Senator of ASI! It will definitely be a jam-packed semester but I am determined to hit the ground running and get an A in Ochem 2!! (Plzplzplzplzplzplz)

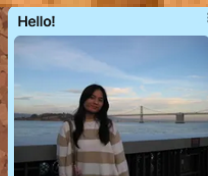
**CHM  
3150**

**You.  
Belong.**



Hello my name is Maria but everyone calls me Alenai I am a third year biology major minoring in animal veterinary science. I am looking forward to learning more about organic chemistry, as I enjoyed last semester. I hope we all do well in the class!

**Hello!**




Hi! My name is Ashley and I'm a fourth year majoring in Animal Science Pre-Vet. I'm very excited to continue learning about OChem and hope everyone has a great semester!

0

Add comment

**hi i'm naveen!**



hello everyone!! i'm a 3rd year environmental biology major and i'm minoring in business. i really enjoy chemistry and im super excited to continue ochem. my favorite food is probably samosas and i love tea. i love reading, making jewelry, and watching soccer in my free time. my favorite teams are fc barcelona and liverpool!!


**Hello Everyone!**



with Luis Miguel, the iguana


My name is Walker, and I am a 3rd year animal science major. I am very excited for my second semester of organic chemistry with Dr. Starkey. I had a lot of fun last semester and am excited to continue learning and pick up where we left off.

0



I love this pic so much as it was taken when I had a journey in Vietnam which is also my home country in the summer of 2024 <3

Hello everyone and Dr. Starkey!! My name is Tra and I'm a senior in Biology. Even though my major is biology, I realize the knowledge that I have had in general chemistry and organic chemistry brings to me so many interesting things and experience. It used be a tough subject for me, however I never regret spending time to study Ochem since it helps me a lot on the way to become a biologist. I hope we will have a wonderful semester in this class!



Hi! My name is Keira. I am a third year animal science pre-vet major. I am hoping to become an equine vet. I am excited to start the semester and learn more about organic chemistry!

0


Add comment



My name is Courtney and I am an animal science pre vet major! I'm looking forward to passing this class. I enjoy drawing, reading, and running!

0

Add comment



Hello, my name is Leslie Vasquez and I am a fourth year student majoring in animal science pre-vet. I look forward to continuing learning more about organic chemistry throughout the semester.

0

Add comment





Hello everyone, my name is Sadaf. I am a senior here at CPP and am majoring in Biology my goal is to become an optometrist. This is my cat his name is skinny he says meow to you all.

♡ 0

💬 0

+ Add comment



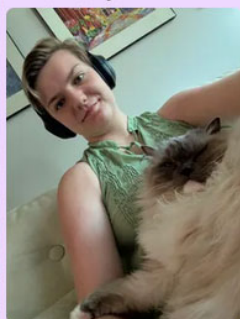
Hello Everyone! My name is Amanda Terrazas, I am a 3rd-year Biochemistry major and minoring in Physiology (& potentially Microbiology?). During the summer, I got to go to Panama for ~9 days with a club on campus (Global Medical Brigades) and host a medical clinic in 3 indigenous rural communities in the Chame region. Although I am excited to start the new semester taking this course.

♡ 0

💬 0

+ Add comment

Hi from Sawyer!



Hi! I'm Sawyer, a Junior Biotech major. I took Dr. Starkey's o chem 1 class last semester, which helped me decide to add a minor in chem, so thank you! I do research with Dr. Steele, and hope to get a PhD and become a lab manager some day. In the picture is me (the human) and Periwinkle (the cat). Nice to meet you all!

♡ 0

💬 0

+ Add comment

# CHM 3150



Hello everyone, my name is Krystin and this is my last year at CPP! I'm an animal science major with plans on becoming a veterinarian. In my free time I enjoy going to the beach and volunteering at my local animal shelter. I'm also a big sports fan, go Angels! 💖🏀🥳. Hope everyone has a smooth semester :)

♡ 0

💬 0

+ Add comment



Hi! My name is Jennifer and I am majoring in Pre-Veterinary Science. Above is my beautiful husky, Jax. I love to go hiking or being active in general. When I am inside I tend to be reading a book, watching a tv show with my roommate, or napping. I hope this semester goes well for everyone!

♡ 0

💬 0

+ Add comment



Hey, hey  
My name is Logan and I am a second year psychology student. I one day hope to go into medicine and I am taking this course because I want to supplement my social science with some real science. I enjoy spending time with friends and trying new/active things.

♡ 0

💬 0

+ Add comment

Hiii, im Jasleen!!



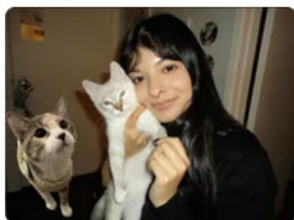
I am a senior majoring in biology. I am currently a student at a cancer center as well. I enjoy working on cars, traveling, and playing games. I am excited to continue ochem. My favorite food is probably a marg pizza. I love reading in my free time.

♡ 0

💬 0

+ Add comment

Hi, Im Valeria!



Hi! My name is Valeria and I am currently majoring in Biology. I am looking forward to taking this course and learn more about organic chemistry.



Hi everyone! My name is Farrah Wooldridge and this is my last year at Cal Poly. I am currently majoring in Animal Science pre-vet and hope to become a Veterinarian. Some of my hobbies include camping, watching scary movies, and spending time with my pets. I am excited for this semester and wish you all good luck!



Hi everyone my name is Ivette but everyone calls me Ivy. I am a 4th year agricultural science student doing pre-requisites for vet school. I enjoy spending time with my boyfriend and going out discovering new adventures. I also enjoy trying out coffee shops and on my free time I binge shows.



Hi everyone! I'm Chloe and I'm a junior majoring in Animal Science, pre-vet with a minor in chemistry. Besides being a student, I enjoy working at the Arabian Horse Center and competing as a part of the women's cross country and track and field teams at CPP!

♡ 0

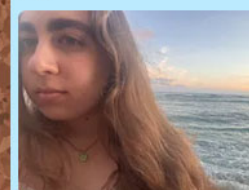
💬 0

+ Add comment



Hi! My name is Arlene, I am a third year and my major is Animal Science pre-vet. I'm nervous but excited to begin this next chapter of Ochem. Outside of school, I enjoy spending time with my friends and family going out shopping or to eat. I also enjoy listening to music and spending time with my pets!

Hi!!

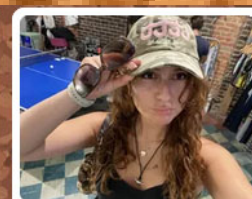


I'm Maya and am going onto my third year at CPP majoring in Biotechnology. I love the campus and the people I've met. I also have enjoyed ochem and am excited to learn even more from Dr. Starkey! In my free time, I mainly hangout with my boyfriend or friends. Personally, I love to take photos or thrift. :)

♡ 0

💬 0

+ Add comment



hii my name is Sophie, i am entering my fourth year as a general biology major! i want to go into pharmaceuticals post graduation so ochem2 is something i'm very excited for. i enjoy art, outdoor activities, collecting trinkets, gaming, and shopping ^.^

♡ 0

💬 0

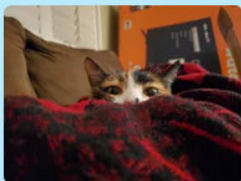
+ Add comment

# You. Belong.



# CHM 3150

Hello:)



Hi! My name is Marina and I'm an animal science major. I am interested not only in learning about animals and the veterinary field but I'm an avid motorcycle rider. Some of the best moments I've experienced were on a motorcycle.



Hi, I'm Chase. I'm a senior majoring in BIO. I'm pursuing the medical field, and outside of class I'm gathering patient-care hours on the weekends. I really enjoyed Dr. Starkey's class last spring, and I'm looking forward to this semester with y'all.

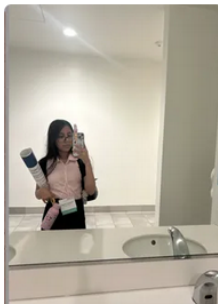
Hello



I don't have many pictures of myself, but I think this picture isn't too bad.

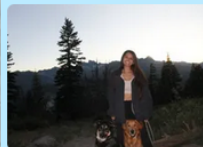
Hello, my name is Edward Tui. I am currently an American Chemical Society (ACS) student who is also minoring in mathematics. I've heard stories about how people struggle in ochem. I didn't see it until I got to the end of 3140, where reactions and synthesis came to be. Though I find it difficult, I also find it interesting, and I hope that my interest in it leads me to do good in 3150. Also, I really enjoy listening to music and slacking off.

hi!



Hi, my name is Stephanie and I am a 3rd year chemistry major. I plan to get a PhD in inorganic chemistry and I'm currently doing electrochemical research. I really enjoy spending time with my friends and making jewelry.

My boys and I in Mammoth!



Hi everyone, my name is Shanel and I am a pre-veterinary animal science major. I have two pups, Chancey and Loki and a wonderful fiancé, Nic. I love to travel, hike and go to the beach! My career aspirations include becoming a small animal ER Veterinarian. Looking forward to this semester.



Hi everyone I'm Kimberly but I go by Kimmy. I am a senior majoring in animal science pre-vet. I'm excited to learn from Dr. Starkeys new textbook this semester and be able to do organic chemistry with ease. This is my dog, Riley, he has been my purpose for pursuing a life in vet med and he stays up late with me supporting but also judging me when I take so long when studying chemistry and he wants to sleep.

Hi, I'm Trinity! 💙



My foster kittens and I from last summer.

I'm so excited/nervous to begin this new semester and can't wait to learn some more organic chemistry. A little bit about me: I am a Biology major, I've played softball most of my life, and I love animals. The picture above is of my foster cats and I from last summer, I actually ended up keeping the white kitty and my boyfriend's family adopted the calico.



My dog, Ajax!

Hi! My name is Christine Phung and I am currently a third-year ACS Chemistry major. In my free time, I enjoy playing games, crocheting, or visiting cafes (I love coffee and milk tea). I've struggled with OChem in the past, so hopefully I perform better this semester. Nice to meet everyone!

Hi :)



My name is Princesa and I'm currently a pre-med. I am a phlebotomist and I hope to become a gynecologist in the future. I don't have a lot of free time, but when I do I enjoy hanging out with my boyfriend, my friends, shopping, traveling, Disneyland, swimming, and karaoke.

# You. Belong.

Hello!



This is Pachy, my son in his Pomponpurin hat!

My name is Luna! I am a junior majoring in Pre-Vet, and I hope to become a veterinarian in the future. I like to hang out with my family, friends, or my boyfriend during my free time. I also like to nap or hang out with my dogs during my free time. I am excited to do more AVS classes, and I hope to improve with Ochem. I hope everyone has a great semester and school year!

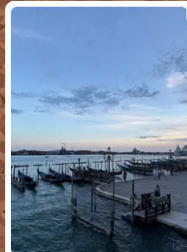


I love dinosaurs! I like going to the Natural History Museum in LA.

Hi, I'm Micael! I'm a fourth year biotechnology major minoring in chemistry and philosophy. I love playing video games, and my current favorite game is Ark, because I love dinosaurs. I'm a little nervous to take CHM 3150 as my schedule is packed this semester, but I hope to improve my study methods from CHM 3140 and find even more joy in organic chemistry.



Hello my name is Edgar. I am a Psychology major. This is my last semester at CalPoly Pomona and plan to continue my studies further to become a physician assistant. I am currently a licensed phlebotomist and work full time. My hobbies include working out, playing video games, and spending time with my dog and new kitten.



hello! my name is Allison and I'm a fourth year biology major. I plan on going into pharmacy after grad. here's one of my favorite pics from when I went to Venice over the summer!!!

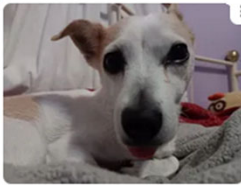
Hello!



Hi! My name is Chance, and I am a 3rd-year majoring in animal science pre-vet with a minor in entrepreneurship. I am very excited for this class and to learn new things!




# CHM 3150



Hi everyone! My name is Lili, and I'm a fourth-year animal science pre-vet major. This is my dog, Dory. In my free time, I enjoy taking her hiking. I also have a red-eared slider named Turtle. :)

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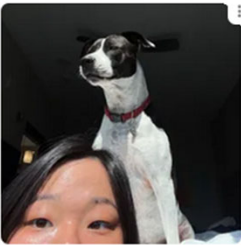
+ Add comment



Hi! My name is Irene Jurinario and I am a fifth year majoring in biotechnology. My hobbies are reading books, watching Youtube videos, and listening to music.

0

+ Add comment




Hi everyone!  
My name is Shannon, and I'm a fourth-year majoring in animal science pre-vet opt. I transferred into CPP in Fall 2024, and I look forward to connecting and working with everyone this semester.

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+ Add comment

Hello there!



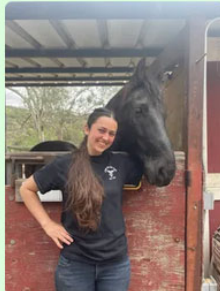
A shoddy photo I took of myself playing Pokemon Ultra Sun at the beach.

Hi! Call me Thien. I'm a biotechnology major and I'm back for another semester of OChem it seems. Doing art, playing games, and overthinking is how I tend to spend any semblance of free time. Best of luck to everyone this semester!

0

+ Add comment

Hello!




My name is Ashley, and this is my 4th year at CPP. I am a double major in Biology and Animal Science (pre-vet). I plan on going to vet school once I graduate to become a veterinarian and specialize in exotic/zoo/aquarium medicine. I have many pets, including dogs, a snake, guinea pigs, fish, and isopods!

0

+ Add comment

Hello!



This is my baby, Esmeralda

Hello everyone, my name is Luis Martinez and I am a 4th year animal science major. I like to go camping, hiking, fishing, and horseback riding. I enjoy learning new things so I am most excited to see what I can pick up.

0

+ Add comment

Hello!




Hi everyone! My name is Jade Sanders and I am a third year Animal Science major with a Pre-Veterinary emphasis. My goal is to become a veterinarian and I am excited to continue my journey with you all.

0

+ Add comment


Hello!



Hi! My name is Bryce, and I am a 5th year environment biology major with a minor in multimedia journalism. My hobbies include rock climbing and whitewater rafting. Fun fact, you can find me working at the school climbing wall, or if you ever go on a trip through the adventures department, I might be one of your trip leads. I also work as a raft guide near Lake Tahoe during my summers. I really enjoyed organic chemistry 1 last fall and I'm looking forward to this class then biochemistry in the spring!



Hi! My name is Lynne and I'm a biotechnology major. This is my last year at CPP and I like going to concerts and the gym.




Hi! My name is Stephanie I'm a 4th year biology major. I plan on going to vet school after my time here at CPP. I'm very interested in exotic and aquatic animals. Somethings I like to do on my free time is hanging out with my sisters/friends, as well as going to the beach, and watching my favorite shows.



Koda


Hello! My name is Katelyn and I am a 4th year Animal Science major. My hobbies include swimming, traveling, playing video games and walking/playing with my dogs. I am excited to get into the new school year and to learn more about organic chemistry. I am a bit nervous because I have a packed schedule this semester. I am ready for the challenge and am hoping to pass!

Heyo!



My name is Amaranta Torres but I also go by Ami. I am a fourth year Animal Science Pre-Vet major, with a minor in psychology. I enjoy being outdoors and hope to work with livestock. I love dancing, rollerblading and being out in nature. Looking forward to finishing o-chem and graduating soon!

Hi



Hi! My name is Jacqueline. I'm a senior in the Animal Science/ Pre-Vet Program. I am a transfer student from Pierce College. I am looking forward to furthering my education and hopefully mastering Organic Chemistry.

0

+ Add comment



this is my puppy Suki and my cat (Cleopatra peeking from the window lol)

Hi, I'm Janelle, I am a transfer student in my senior year, majoring in Animal Science. I enjoy spending my time with family and friends, having movie nights with my cousins, and being outdoors. I look forward to a great semester!

0

+ Add comment

You.  
Belong.

## Interesting Alcohols: Can you Match Structure & Description?

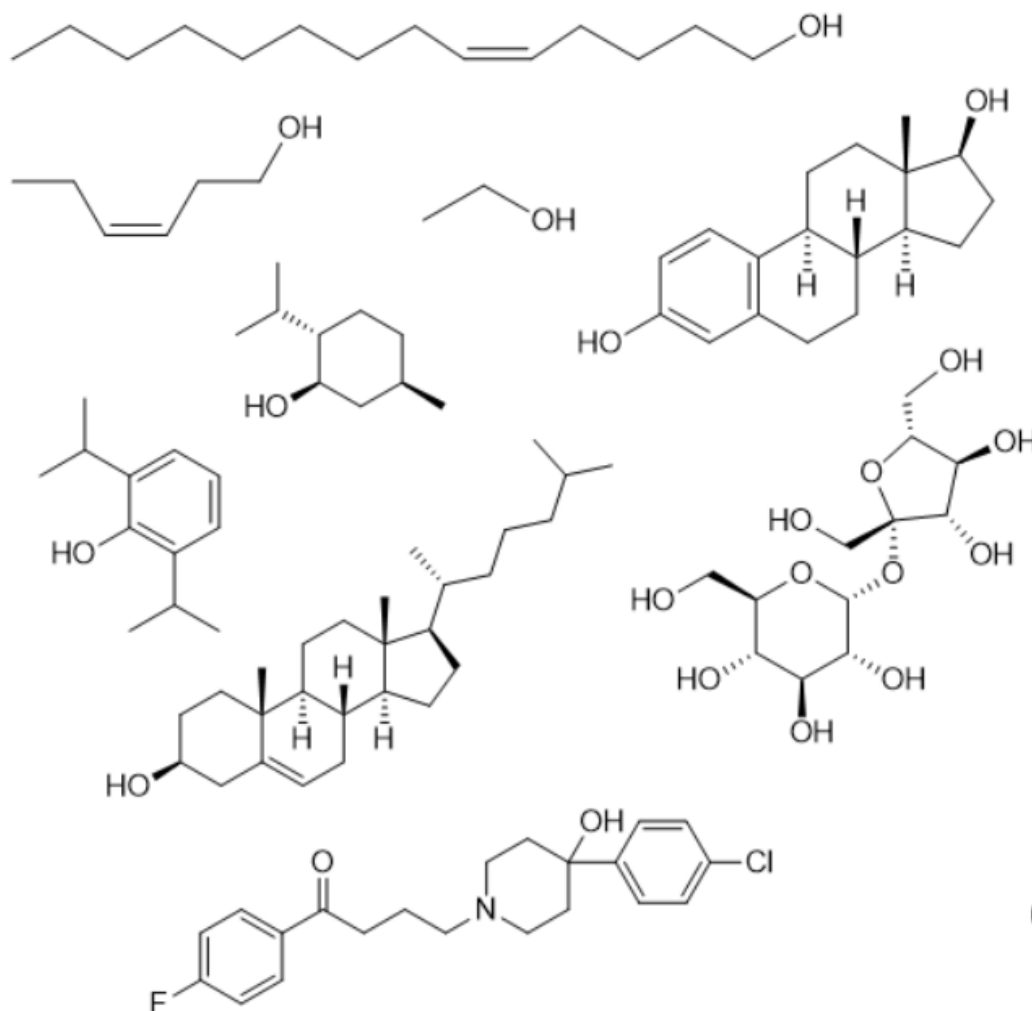
**grain alcohol**  
(beer, wine, margaritas)

**cholesterol**  
(strengthens cell walls)

**Haldol** (a drug to treat  
schizophrenia)

**(-)-menthol**  
(mint flavor/odor)

**sucrose**  
(table sugar)



**Happy Halloween!**  
(Jack-o-Lantern odor)

**a pheromone**  
(attracts female mice  
to male urine)

**estradiol**  
(an estrogen,  
or female hormone)

**propofol**  
(killed Michael Jackson)



Chemistry of  
Pumpkins

<https://www.acs.org/content/acs/en/molecule-of-the-week/archive.html>