LeAP: Alkanes

- Due Sep 5, 2024 at 11:59pm
- Points 5
- Questions 8
- Available until Sep 9, 2024 at 11:59pm
- Time Limit None
- Allowed Attempts 2

Instructions

Lecture Application Practices (LeAPs) serve as initial opportunities for students to apply the information they've gathered from the pre-lecture videos and in-person lectures/lecture videos.

Students are strongly encouraged to complete LeAPs on the same day that the corresponding topic is completed in class. However, to provide consistent due dates, sets of LeAPs will be due on Thursdays at 11:59 PM - Chicago time. See the Weekly Schedules or Course Calendar for specific due dates for each activity.

Each LeAP is worth 5 points. Credit will be awarded based on accuracy. There is no time limit. Students will receive two attempts for each assignment and the highest score will be recorded in the gradebook. LeAPs may consist of multiple-choice, calculation, ranking, choose all that apply, and fill in the blank type questions.

This quiz was locked Sep 9, 2024 at 11:59pm.

Attempt History

	Attempt	Time	Score
LATEST	Attempt 1	356 minutes	5 out of 5

(!) Correct answers are hidden.

Score for this attempt: 5 out of 5 Submitted Sep 4, 2024 at 7:35pm This attempt took 356 minutes.

Question 1 0.5 / 0.5 pts

Rank the following noncovalent intermolecular interactions from strongest (1) to weakest (3).

1



Dipole-dipole inter	ractions ~	
3		
Van derWaals inter	ractions v	
iii Question 2 0.5 / 0.5 pts		
Match each mole	cule with its boiling	point.
H ₃ C _O CH ₃	~ 0 ~	^
Dimethyl ether	Diethyl ether	n-butanol
Dimethyl ether		
-24 °C	~	
Diethyl ether		
34.6 °C	~	
n-butanol		
117.7 °C	~	
•		

Use the alkane shown below to answer questions 3-4.

Question 3 0.5 / 0.5 pts

The alkane chain contains a branched substituent. Type the name of this branched substituent in the box.

1,1-dichloropropyl

Question 4

1 / 1 pts

Now that you have identified and named the branched substituent, write the full name of the molecule in the box. (Hint: Don't forget to put parentheses around the name of the branched substituent.)

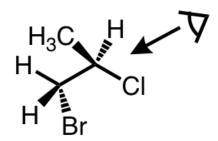
2,2,6-tribromo-5-(1,1-dichloropropyl)nonane

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Question 5

0.5 / 0.5 pts

Which Newman projection represents the same conformation as the wedge-dash structure shown below, as seen from the perspective of the eyeball?



B)

C) Me H D) Me H E) Me Br F)

Me

H

CI

O A

O B

C

O D

O E

O F

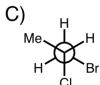
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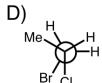
Question 6

0.5 / 0.5 pts

Use the Newman Projections shown below to answer questions 6-8.

B) Me H B





Which of the Newman projection	ons are in an eclipsed conformation? Choose all that apply.
□ A	
✓ B	
□ C	
☑ D	
□ E	
▽ F	
Question 7	
0.5 / 0.5 pts	
Rank the relative sizes of a Br,	methyl, Cl, and H group. (1 is the smallest, 4 is the largest)
1	
Н	
_	
2	
CI	
3	
Br v	
4	
Methyl ~	
Meuryi	
:	
Question 8	
1 / 1 pts	counts the highest energy conformation?
	esents the <u>highest</u> energy conformation?
O A	
O B	
O C	
O D O E	
● F	
▼ Γ	Quiz Score: 5 out of 5