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Klein-Starkey
5th Edition
debut at ACS
meeting!



Dr. Laurie S. Starkey
Cal Poly Pomona

CHM 3140 Organic Chemistry I Announcements 3/25/25

Today's Topic: S_N2 Mechanism (Chapter 7, Part 1 - Step 1) *First of FOUR parts in Ch. 7*

Chapter 7

- Watch
- Read
- **Practice**

Daily To-Do

Flipped Lectures

Step 1

- Read Klein Chapter 7, sections 7.1-7.3
- Watch flipped lecture
- Work through SkillBuilders 7.1 & 7.2

Substitution Reactions Part 1 (Sn2)

42 minutes, skeleton notes pages

3-1 to 3-4

bstitution Reactions 🕶		≘* · 1:48:
Intro		0:00
Substitution Reactions		0:06
Substitution Reactions Example		0:07
Nucleophile		0:39
Electrophile		1:20
Leaving Group		2:56
General Reaction		4:13
Substitution Reactions		4:43
General Reaction		4:46
Substitution Reaction Mechanisms; Simultaneous		5:08
Substitution Reaction Mechanisms: Stepwise		5:34
SN2 Substitution		5:21
Example of SN2 Mechanism		5:22
SN2 Kinetics	Sn2	7:58
Rate of SN2	SIIZ	9:10
Sterics Affect Rate of SN2	Mechanism	9:12
Rate of SN2 (By Type of RX)	moonamom	14:13
SN2: Evs. POR Diagram		17:26
Evs. POR Diagram		17:27
Transition State (TS)		18:24
SN2 Transition State, Kinetics		20:58
SN2 Transition State, Kinetics		20:59
Hybridization of TS Carbon		21:57
Example: Allylic LG		23:34
Stereochemistry of SN2		25:46
Backside Attack and Inversion of Stereochemistry		25:48
SN2 Summary		29:56
Summary of SN2		29:58
Predict Products (SN2)		31:42
Example 1: Predict Products		31:50
Example 2: Predict Products		33:38
Example 3: Predict Products		35:11
Example 4: Predict Products		36:11
Example 5: Predict Products		37:32

Flipped Lecture

Due ASAP: NMR, Exam Wrapper, Exam Corrections

CHM 3140 Organic Chemistry I – D	r. Laurie S. Starkey – NMR Problem Set				
Name:	Section (day/time):				
Each of the following ¹ H NMR spectra comes from a comp for each spectrum and label each proton on the structure of unsaturation is helpful and careful examination of chem to estimate the chemical shifts (using the provided tables)	(a/b/c) to match the corresponding signal. Ca ical shifts, integration and splitting patterns is	alculation of sites			
ь 3Н	CHM 3140 Exam Wrapper - Po	ost-Test Survey (Due 3/28/21) Na	nme:		
а 2H	The following survey will guide performance on the next exam. corrections (*include written reformance) 1. How did you prepare for 2. What kinds of mistakes of the second secon	Metacognition By taking a step back and thinking about the way you learn, you can improve your learning. The following survey will guide you through an exercise in self-reflection, with the goal of improving your performance on the next exam. You will earn 3 points credit if you complete this survey, and 3 points for corrections (*include written reflection, if score <55). It analyzes the following three areas 1. How did you prepare for this exam? 2. What kinds of mistakes did you make? 3. How will you prepare differently next time? * If exam score is below 55, you must submit a written reflection with your exam corrections (we will not be a submit a correction).			
5 4 3 PPM 2	What was your score* on the ex	Witten	reflection with your exam correction: do differently for the rest of the seme		
	What was your grade in CHM 12	23/1220? Are you re	epeating CHM 3140? Y / N		
		oximately how many hours per we d you spend studying Organic Chen			
	2. Given the approximate # of te	extbook problems in each chapter (#), about how many did you work o	on?	
	Ch. 4 (# problems) (Alkanes, Conformers)	Ch. 5 (# problems) (Stereochemistry)	Ch. 15 (# problems) (NMR)		
	12 SkillBuilders (33)	6 SkillBuilders (28)	8 SkillBuilders (28)		
	End of Chanton (EOC) (84)	FOC (106)	FOC (47)		





Where are you on the Mental Health Spectrum? #studentlife

IN CRISIS

STRUGGLING

SURVIVING

THRIVING

EXCELLING

https://delphis.org.uk/me ntal-health/continuummental-health/ Very anxious
Very low mood
Absenteeism
Exhausted
Very poor sleep
Weight loss

Anxious
Depressed
Tired
Poor
performance
Poor sleep
Poor appetite

Nervous
Irritable
Sad
Trouble sleeping
Distracted
Withdrawn

Worried

Calm
Performing
Sleeping well
Eating normally
Normal social
activity

Positive

Cheerful
Joyful
Energetic
High performance
Flow
Fully realising
potential