ORGANIC CHEMISTRY 1 LECTURE GUIDE 2019

BY RHETT C. SMITH

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By Rhett C. Smith, Ph.D.

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Companion Books from the Proton Guru:

Organic Chemistry 1 Reactions and Practice Problems 2019
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Organic Chemistry 1 Primer 2019,

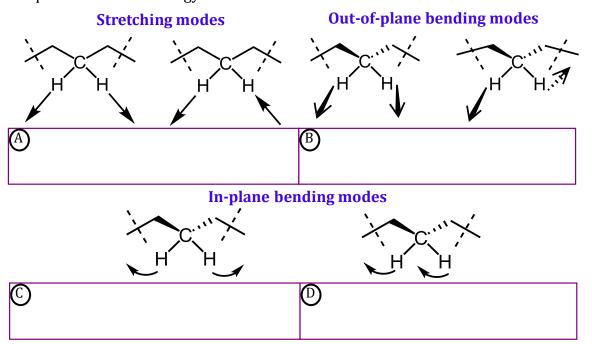
by Rhett C. Smith, Andrew G. Tennyson, and Tania Houjeiry

Lecture Topic VII.3. Interaction of Infrared Light with Molecules Wavenumbers

Molecules absorb	energy:			
A				
Leading to:				
(R)				
	Evaroccing onorgy	E 1	hc	
	Expressing energy:	E = nv =	λ	
wavenumber (v) :				
©				
T 1				
Larger wavenumbe	rs =			
9				
<u>lotes</u>				

Lecture Topic VII.3. Interaction of Infrared Light with Molecules Vibrational modes; stretching modes and bending modes

Bonds can vibrate in different ways, and each of these **vibrational modes** requires a different energy:



<u>Notes</u>			