CHEM 110 SPECTROSCOPY DATA SHEET

Bond Present		ν (cm ⁻¹)
O-H	(alcohol, phenol)	3700 - 3200
	(carb oxylic acid)	3600 - 2500 (broad)
N-H	53117-1-312	3500 - 3100
C-H		3100 - 2800
C=0		1850 - 1600
CHC	(aliphatic)	1680 1600
0.0000000000000000000000000000000000000	(aromatic)	1620 - 1550
C-O		1250 - 1050 (less definitive

¹H NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY (¹H NMR) Approximate Chemical Shifts (δ) of Hydrogens in Organic Compounds

	Hydrogens (H) in various chemical environments	å (ppm downfield from TMS
	(C <u>H</u> ₃) ₄ Si (TMS)	0
	R₂C H CR	1.0 (approx.)
	R2℃ H CZ*	1.0 - 2.0
Hydrogens bonded to sp ² carbon	R ₂ C H C=C- R ₂ C H C=C	1.6 - 1.9
	R2C H C=0	2.0 - 2.5
	R ₂ CHAr	2.5 - 3.5
	R ₂ C <u>H</u> X**	2.0 - 3.7
	R ₂ C <u>H</u> O-	3.3 - 4.5
	≅ ċ=ċ=	4.5 - 7.0
Hydrogensbonded to sp ² carbon	<u>H</u> -Ar	6.5 - 8.0
waye was trues	H CR	9.5 - 10.0
	<u>H</u> OR	3.0 - 6.0 (variable)
Hydrogen bonded to oxygen	Hocr U	10.5 - 12.0

Notes:

 $^{**}X = Cl$, Br, I or the N of an amine $^{*}Z = O$, C=O, or X (as defined above)

R = H or alkyl group

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CH Cherryholmes

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Table of Contents Pkg Acp Chem 110

- 1. Understanding the eBook Pkg Acp Chem 110
 - The Rise of Digital Reading Pkg Acp Chem 110
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Pkg Acp Chem 110
 - Exploring Different Genres
 - o Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - ∘ Features to Look for in an Pkg Acp Chem 110
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Pkg Acp Chem 110
 - Personalized Recommendations
 - Pkg Acp Chem 110 User Reviews and Ratings
 - Pkg Acp Chem 110 and Bestseller Lists
- 5. Accessing Pkg Acp Chem 110 Free and Paid eBooks
 - Pkg Acp Chem 110 Public Domain eBooks
 - Pkg Acp Chem 110 eBook Subscription Services
 - Pkg Acp Chem 110 Budget-Friendly Options

- 6. Navigating Pkg Acp Chem 110 eBook Formats
 - o ePub, PDF, MOBI, and More
 - Pkg Acp Chem 110 Compatibility with Devices
 - Pkg Acp Chem 110 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pkg Acp Chem 110
 - Highlighting and Note-Taking Pkg Acp Chem 110
 - Interactive Elements Pkg Acp Chem 110
- 8. Staying Engaged with Pkg Acp Chem 110
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pkg Acp Chem 110
- 9. Balancing eBooks and Physical Books Pkg Acp Chem 110
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pkg Acp Chem 110
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pkg Acp Chem 110
 - Setting Reading Goals Pkg Acp Chem 110
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pkg Acp Chem 110
 - Fact-Checking eBook Content of Pkg Acp Chem 110
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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