

CHEMISTRY 360 PROBLEMS, USING WADE 7

Chapter Topic	Wade Ch	Wade 7 Problems in the Chapter	Wade 7 Problems at end of Chapter	Carey Chap	Carey 8 Problems
Alcohols and Their Synthesis, Including Grignard Reactions/Organo-metallics	10	1, 5d, 6, 8, 10, 12a,b,d, 13-16, 17 (esters only), 18-20, 22-26	31, 33a-d, 34b,c, 35a,c, 36b,c, 37 (review from chapter 8), 38a-l, 39, 40, 42, 43	4, 14, 15, 19	Ch 4: 5, 7, 10, 23,a,c-h, 24b,f,i, 39a,d, 40a,c Ch 14: 3, 4, 5a, 6, 8, 16a, 18b,d,h,km, 19, 20a,b,d,e Ch 19: 15, 17
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Chemistry 342, Jasperse, Readings for Wade Version 7	Wade 6 Readings	Carey 8 Reading
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Structure, Nomenclature, Properties, Weak Acidity of Alcohols	10.1-10.6	4.1-6
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Side Reactions; Reduction of Carbonyl Compounds	10.10-10.11	15.1-3, 19.13
Catchup; Practice Problems	Catchup	
Oxidation of Alcohols	11.1-11.3	15.10,
Conversion of Alcohols to Tosylates or Halides; Uses of Tosylates and Halides	11.5-11.9	4.7-14, 8.12, 15.6, 15.7, 14.9
Miscellaneous; Multistep Synthesis	11.10, 11.14	
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Test 2 Spectroscopy and NMR		
¹ H NMR Overview: Chemical Shift, Integration, and Splitting; ¹ H NMR Problem Solving	13.5-8	13.1-12, 13.25
¹ H NMR Problem Solving	13.5-8	13.1-12, 13.25
More Problem Solving; Complex Splitting; Stereochemical Nonequivalence of Protons	13.9-10	13.1-12, 13.25
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¹³ C NMR; Infrared Spectroscopy	12.11-12	
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Test 3 Aldehydes, Ketones, and Enolate Reactions		
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Synthesis of Ketones/Aldehydes.	18.7-11	17.4-6
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Reactions of Ketones/Aldehydes	18-19	
Reactions of Ketones/Aldehydes	18.20-21	17.6-10
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Enols and Enolates Intro. Acid/Base Considerations; Proton as Electrophile	22.1-2, 22.15	20.1,2,13
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The Aldol Reaction (Aldehyde/Ketone as Electrophile)	22.7-11	20.3-4
Claisen Reaction (Ester as Electrophile)	22.12-17	20.5-8
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Test 4 Amines, Acids, and Acid Derivatives like Esters and Amides		
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Diazonium Chemistry; Amine Synthesis by Reductive Amination of Carbonyls	19.17-19	21.16-17,
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Carboxylic Acids: Nomenclature; Properties; *ACIDITY*; Salts; Soap; SYNTHESIS	20.1-5	18.1-7, 18.10-12
Acid Synthesis; Reactions	20.8-11	18.13-15
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Interconversions Among Acids and Derivatives; Synthesis and Mechanism; Catchup	21.5-7	19.1-11, 19.15-16
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