

Assigned Problems

Text: Wade, *Organic Chemistry*, 8th edition

<u>Chapter</u>	<u>Topics</u>	<u>Problems</u>
1	Introduction and Review	1, 3a-f, 4, 5, 6a-f, 7a, d, e, 9a, d, e, f, 10f, h, 11a, d, e, f, 17, 18c-e, 23, 41, 45, 52.
2	Structure and Properties of Organic Molecules	5a, b, e, f, 14a-c, d, f, g, 15, 16, 18a, b, c, d, 20a-d, 22, 24, 28a-c, d, e, 37a, c, d, 38, 44.
3	Structure and Stereochemistry of Alkanes	3, 4a-d, e, f, 8a, b, 11, 12, 17, 18, 19, 20, 22, 23, 27a, b, c, d, 37a-c, 38, 42, 47, 49.
4	The Study of Chemical Reactions	3, 7, 8, 9, 16, 21, 23, 25, 35, 36, 37, 50, 54.
5	Stereochemistry	1, 2a, b, c, d, 3-5, 6a-c, g, h, i, 11, 16, 18, 20, 21, 23, 25, 27, 28, 29a, b, d, 30a-c, e, g, h.
6	Alkyl Halides: Nucleophilic Substitution and Elimination	3, 11, 14, 16, 17, 19a-d, 20b, c-f, 22, 23a-c, e, 26a, b, c, d, 29, 30-32, 37, 40, 53, 56, 59, 61, 65, 74c, d, 75.
7	Structure and Synthesis of Alkenes	1, 2, 5a, b-d, 8b, d, e, 10, 14, 18a, b, 25, 27, 29a, b, c, d, 38, 45, 57.
8	Reactions of Alkenes	1, 5, 7, 13, 15, 18, 19, 23a, b, c, d, 26-28, 29a, b, 30, 35, 36, 47a-c, d, e-l, m, n, 49a-c, g-i, 48a-f, g, 64, 67, 70.
9	Alkynes	5, 7a-e, 8a, b, 12a, b, d, 13, 20, 25, 32, 37a-d, g-k.
10	Structure and Synthesis of Alcohols	1a-d, e, 11-14, 18, 19, 21a, 22-25, 36, 39.
11	Reactions of Alcohols	1a, b-e, f, g, h, i, j-l, 2, 5, 6, 9, 12, 15, 19, 20, 23, 26, 27, 30, 37, 38, 44, 45, 47a, b, 56.
12	Infrared Spectroscopy and Mass Spectrometry	2-6, 7, 8, 9, 11, 12, 15, 16, 20, 21, 28.
13	Nuclear Magnetic Resonance Spectroscopy	1-3, 6-8, 11, 12, 13, 16, 18-20, 24a-c, 26-29, 30, 31, 34, 40, 49, 51, 54.

New or modified problems from Wade, *Organic Chemistry*, 9th edition:

1: 7f, 45f 3: 5 7: 22, 63 8: 71 10: 36i 11: 2 12: 30 13: 54.