

## Assigned Problems

Text: Wade, *Organic Chemistry*, 9th edition

<u>Chapter</u>	<u>Topics</u>	<u>Problems</u>
1	Structure and Bonding	1, 3a-f, 4, 5, 6a-f, 7a, b, c, f, 11a, d, e, f, 12f, h, 13a, d, e, f, 19a, b, e, f, 29, 45, 52a-c, d, e.
2	Acids and Bases; Functional Groups	3c-e, f, g, h, 4, 5, 7a, b, c, d, 11, 13c-e, 25a-d, 27, 29a, c, d, 33, 47, 50, 55, 57.
3	Structure and Stereochemistry of Alkanes	3, 4a-d, e, f, 5, 8a, b, 12, 13, 18, 19, 20, 21, 23, 24, 29a, b, c, d, 39a-c, 40, 44, 49, 51.
4	The Study of Chemical Reactions	3, 7, 8, 9, 16, 21, 23, 25, 35, 36, 37, 51, 55.
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	3, 11, 14, 16, 17, 19a-d, 20b, c-f, 22, 23a-c, e, 26a, b, c, d, 29, 42, 45, 49, 52.
7	Structure and Synthesis of Alkenes: Elimination	1, 2, 5a, b-d, 8b, d, e, 13, 17-19, 22, 24, 26, 30a, b, 33, 34, 37, 39a, b, c, d, 53, 60, 61, 62a, b, 63, 64, 69, 75.
8	Reactions of Alkenes	1, 5, 7, 13, 15, 18, 19, 23a, b, c, d, 26-28, 29a, b, 30, 35, 36, 46a-c, d, e-l, m, n, 51a-c, g-i, 56a-f, g, 64, 67, 70, 71.
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, 25, 28, 30.
13	Nuclear Magnetic Resonance Spectroscopy	1-3, 6, 7, 9, 11, 12, 13, 16, 18-20, 24a-c, 26-29, 30, 31, 34, 40, 49, 51, 54, 56.

Entries highlighted in red are problems in the Discussion Problem Sets.