

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, 25, 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.

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

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.