

**CHEMISTRY 341 PROBLEMS
SUMMER 2009**

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Chapter Recommended Book Problems

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|----|---|
| 1 | 2, 5, 9-11, 13, 14a,b, 15-17, 18, 22, 24, 28, 31, 33, 34, 35, 49, 50, 52, 54 |
| 2 | 2, 5, 8-11, 13, 17, 19, 32-34, 36, 37, 40, 41, 45, 47, 53-56 |
| 3 | 1 (not responsible for sulfide in 1a), 2, 4, 6, 8-12, 15, 16a-c, 17, 21-24, 26-29, 34, 38, 40, 42a,b, 44 |
| 4 | 1, 2, 4-6, 9, 12-14, 18 (draw, don't need to calculate), 22, 23, 25, 27-33, 35, 42, 53, 56 |
| 5 | 2, 8, 9, 17, 18, 19, 29, 30, 31, 33, 35, 37 |
| 6 | 1, 2, 4-6, 7, 9-11, 13, 14-15, 16, 23, 24, 26, 29-30, 38-42, 45 |
| 7 | 1-3, 5 (NBS = Br ₂), 6-10, 13-17, 24(skip e), 25c-e, 26, 27(omit c), 28, 29, 30, 31, 32, 33, 41, 42, 43a-d |
| 9 | 2, 3, 7-10, 13, 15, 16, 20, 35, 37, 42-48, 50-53 |
| 10 | 1, 3, 4 (major), 5, 17a-d, 30 |
| 11 | 1, 2, 4, 5, 6, (OTs is best leaving group of all), 8, 11, 13, 15, 16, 20, 25a,c,d, 26, 25-27, 28a-c, 30a-e, 31a-e, 36, 37, 38, 41 |
| 13 | 3, 6 (assume decoupled C-13 spectra for all C-13 problems), 7, 14, 16a-e, 17, 19, 21, 33, 38, 40-44, 50-52, 54, 56-58 |
| 12 | 7a,c, 7a,c |