

CHEMISTRY 360 PROBLEMS

SPRING 2010 (The problems listed assume Wade 6th edition. Contact me if you have a different edition of Wade or have a version of McMurry as used at NDSU.)

Dr. Craig P. Jasperse
jasperse@mnstate.edu
Phone: 477-2230

Ch	In Chapter Problems	End of Chapter Problems
15	1, 2, 4, 5, 6, 7(skip c), 9, 10-11(NBS=Br ₂ /hv), 12, 13, 14, 15 (skip d), 16 (ignore stereochem), 18	24, 25a-d,g-i, 26, 27, 30, 31, 33a-f
16	3(skip cyclooctatetraene), 5, 7b-d, 8, 9a, 10, 11, 12, 15, 16 (purine picture on top of page), 18, 22a, c,e,g, 24	27a-f, 28a-c,e,f, 29, 32, 34 (hint: N lone pairs are strongly basic when sp ³ or sp ² but weakly basic when p), 35, 36, 37 ("xylene" means dimethyl benzene), 43
17	2, 4(p-xylene is 1,4-dimethylbenzene), 6, 7, 8, 9, 12a, 14, 15, 16b(i-iv), 17a,c, 20a-c, 21, 22(skip c,d), 33, 34 (1), 36, 37	44a,b,d,f,h,j,l, 45, 46a,b,e,f,g, 47b-f,h,i,j,l, 48, 49, 51, 57, 60, 61
13	2, 3, 4, 5, 6, 7, 9, 11, 13a, 15, 16, 18, 22, 24a-e, 25, 27, 29, 30, 32	33, 34, 35 (skip d), 36, 38, 39, 40, 41, 43, 44, 49
12	4, 5	16
18	1a,b, 6, 7, 8, 9, 10, 11a,b, 12, 16, 17, 18a, 19, 21, 22, 24, 25, 26, 27a,b,d, 28, 29, 30, 31, 32, 33, 34a-d, 35a-c, 37a-c	39a-c, e-g, l, 40, 43, 44, 49, 50, 51a-f,h, 52, 56a-g, i-l, 57, 58,59 61a-e, 64a-d, 65, 66
22	(Enols, Halogenation) 1, 2, 3, 4, 5, 6, 8a,c,d, 9b,d,e, (LDA alkylation) 13, (Aldol) 18, 19, 22, 23, 24, 25, 26, 27, 28, 29, 30,32, (Claisen) 34a, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, (alkylation-decarboxylation) 46, 47, 49, 50, (Michael) 55, 56, 57, 59	61, 62, 63, 64, 65, 66, 67, 68 (skip e), 69a, d, e, 70, 71, 73a-c
19	1,2(skip b,d), 3a-c, 5b,c, 6a-c, 15, 16, 17, 25b,d,f,g, 26, 27, 28, 30a-c, e-g, 31	36a-e, 37, 39a,c,d 41a,b,h,i, j,l,m, 42 (skip e), 44a,d,g, 47, 48, 50a-c, 51a,c
20	1b-d,g, 2a-c, 3, 4, 5, 6, 11 b,c,d,f, 12, 13, 15b,c, 16a,b, 18, 19, 20, 21, 23, 24	26 (not d,g, i), 28a,e,f,h,i 29 (skip b), 30a,d,e, 31, 32a,c,d 33, 35a-e,i,j,k, 36a-c,e,f, 37, 38, 39, 41, 42, 43, 47, 48, 49, 50
21	1a-c, 6-14,16, 18, 31, 32a,b	44a,c,d,e,f, 45, 46, 47a,e,f, 48a,b, 49a,b,d, e 50a,b,c,e,f,g,h, j, l, 51, 54a,c,d,f,j, 55, 57a-c