

CHEMISTRY 222

Suggested Readings and Problems in *Organic Chemistry: Structure and Function* (Sixth Edition by K.P.C. Vollhardt and N.E. Schore)

I. Aromatic Compounds

Read: pp. 673-722; 731-760; 764-765; 1019-1047; Section 25-1 (pp. 1167-1168); Section 25-3 (pp. 1172-1175).

Problems: p. 677: #15-2; 15-3; pp. 686-687: #15-7; 15-8; p.691: #15-10; p. 698: #15-16; p. 700: # 15-19; p. 705 #15-23; p. 712: #15-30; pp. 722-730: #36a,b,c,g,h; 37c; 42; 43; 48c,f,h; 55b; 56b; 66; 70; 72; p. 738: #16-4; p. 740: #16-7; pp. 747-748: #16-11; 16-12; pp. 766-774: #30; 32; 40a,c,d; 43; 45a,b,e; 46; 51c; 55b,d; 60; 61; 63; p. 1021: #22-1; p. 1024: #22-4b,c; p. 1029: #22-7; p. 1033: #22-8; p. 1037: #22-11; p. 1039: #22-14; pp. 1071-1079: #35; 42; 43a; 44; 45a,b; 53a,c; 57a,b,d; 73; p. 1201: #36.

II. Aldehydes and Ketones

Read: pp. 775-815; 827-854; Section 23-3 (pp. 1095-1096).

Problems: p. 777: #17-1; p. 782: #17-4; p. 791: #17-7; p. 797: #17-12; p. 802: # 17-16a,c; p. 807: #17-21; p. 815: #26b,d,h; p. 820: #27; 31b,d,f; pp. 821-826: #33b,c; 37d; 46b,d; 48b,c,d; 52c,d,e,h; 58a; 61; 65; 66; p. 831: #18-3; 18-4d; p. 838: #18-13d; p. 845: #18-19b,d; pp. 861-870: #32e,f; 33; 35; 38a; 45b,c; 47a,b; 56c; 58a; 60; 68; 70; 71; p. 1096: #23-18.

III. Amines

Read: pp. 971-993; 948-952; 956-957; Section 21-10 (pp. 996-997); Sections 22-10 and 22-11 (pp. 1058-1061).

Problems: p. 949: #20-18; p. 952: #20-22; p. 957: #20-27d; p. 973: # 21-1; 21-2; p. 989: #21-10b; p. 991: # 21-12; 21-13; p. 993: # 21-15; p. 994: #21-17; pp. 1011-1018: #28b,c; 32; 36b,d; 43a,b; 45c; 53; 58; 64; 65; p. 1060: #22-30c; p. 1062: #22-32c; p. 1072: #43d; p. 1077: #66a,b,e,g; 67a,b,c; p. 1080: #75; 76.

IV. Carboxylic Acids and Their Derivatives: Lipids Such as Fatty Acids and Triglycerides

Read: pp. 871-912; 925-949; Section 20-8 (pp. 953-955); pp. 1081-1095.

Problems: p. 877: # 19-2; 19-3; p. 880: #19-5; p. 885: #19-10; p. 892: #19-14a; p. 898: #19-22; pp. 913-924: #27b,c,e,g; 30; 32a,b; 37c,f,g; 38a; 39; 40c,e,f,g,h; 44; 47a; 50; 52; 59; 60; 61; p. 934: #20-9b,d,e; p. 935: #20-10; pp. 964-970: #30a,c,d,f,i,k; 34; 36c,d; 39c,d,e; 41b,f; 45b,c; 52a,b; 60; 66; 68; 69; 70; p. 1083: #23-1b; p. 1084: #23-2; p. 1087: #23-6; pp. 1093-1095: #23-12; 23-14b,d; 23-15; pp. 1110-1116: #29; 32b,c; 33a; 53; 54; 55.

V. Carbohydrates

Read: pp. 1117-1158.

Problems: p. 1118: # 24-1; p. 1124: #24-4; p. 1130: #24-14; p. 1131: #24-15; p. 1134: # 24-21; p. 1138: #24-25; p. 1144: #24-30; pp. 1159-1164: #34; 36c,e; 37c; 44; 46; 49; 52; 56; 66; 68; 69.