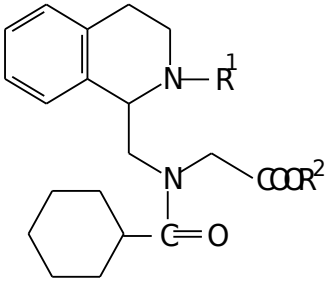
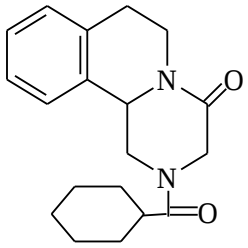
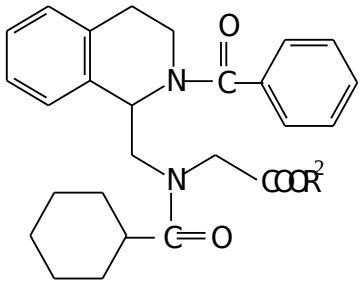
Table 2.3a: The I. R. data of PZQ and the alkyl derivatives





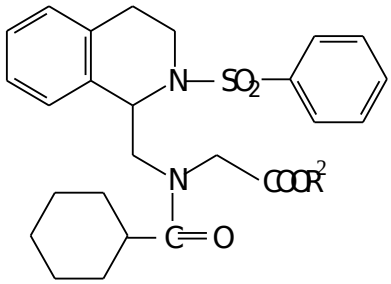
	Comp. No.			
	I-PZQ	II	III*	IV
R^1		-H	$-CH_2$-Ph	$-CH_2$-Ph
R^2		-H	$-CH_2$-Ph	-H
O-H st. vib.		3600-2400	-	3500-2400
C-H Ar st. vib.	3030	3010	3058, 3035	3058
C-H Aliph. st. vib.	2941, 2859	2941, 2859	2930, 2847	2930, 2847
C=O st. vib. cyclohexyl	1653	1647	1647	1647
C=O st. vib. R^1	1630	-	-	-
C=O st. vib. R^2 acid		-	-	-
C=O st. vib. R^2 ester		-	1747	-
 sym, asym, st. vib.	-	1570, 1450	-	1600, 1459
$-SO_2-$ st. vib., sym, asym.	-	-	-	-
disub. *o*- (C-H bend)	760	770	770	775
disub. *P*- (C-H bend)	-	-	-	-
monosub. (C-H bend)	-	-	740, 700	740, 695
-C=C Ar st. vib.	1580, 1500	1600, 1500	1600, 1500	1580, 1500, 1475
	-	3200-2800	-	3200-2800
-CH bend	1425	1430	1460	1430
C-O st. vib.	-	1210	1175	1210

Table 2.3b: The I. R. data of carboxamide derivatives



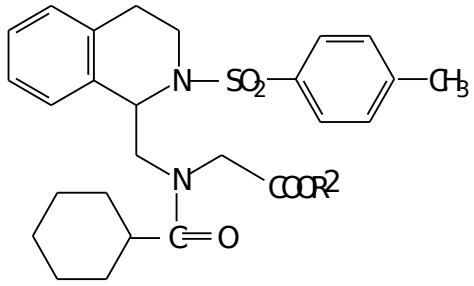
	Comp. No.			
	V	VI	VII	VIII
R^2	-H	$-CH_3$	$-CH_2-CH_3$	$-CH_2$-Ph
O-H st. vib.	3400-2400	-	-	-
C-H Ar st. vib.	-	3058, 3010	3050	3058, 3010
C-H Aliph. st. vib.	2941, 2859	2958, 2927	2930, 2847	2927, 2847
C=O st. vib. cyclohexyl	1647	1659	1659	1653
C=O st. vib. amide	1635	1630	1630	1630
C=O st. vib. R^2 acid	1718	-	-	-
C=O st. vib. R^2 ester	-	1741	1745	1747
disub. *o*- (C-H bend)	765	770	770	775
monosub. (C-H bend)	750, 700	750, 700	740, 700	750, 700
-C=C Ar st. vib.	1590, 1500	1600, 1500	1590, 1500	1590, 1500
-CH bend	1450	1430	1430	1430
C-O st. vib.	1200	1200	1200	1190

Table 2.3c: The I. R. data of sulphonamide derivatives



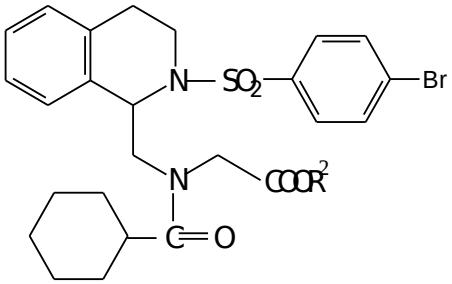
	Comp. No.		
	IX	X	XI
R^2	-H	$-CH_3$	$-CH_2-CH_3$
O-H st. vib.	3400-2500	-	-
C-H Ar st. vib.	3070, 3035	3040, 3010	3045,
C-H Aliph. st. vib.	2941, 2847	2941, 2847	2950, 2860
C=O st. vib. cyclohexyl	1647	1647	1647
C=O st. vib. R^2 acid	1740	-	-
C=O st. vib. R^2 ester	-	1753	1753
$-SO_2-$ st. vib., sym, asym.	1340, 1150	1340, 1160	1350, 1170
disub. *o*- (C-H bend)	750	770	770
monosub. (C-H bend)	740, 690	750, 690	750, 690
-C=C Ar st. vib.	1605, 1500	1590, 1500	1590, 1500
-CH bend	1450	1430	1450
C-O st. vib.	1200	1200	1200

Table 2.3d: The I. R. data of *p*-methyl-sulphonamide derivatives



	Comp. No.		
	XIII	XIV	XV
R^2	-H	$-CH_3$	$-CH_2-CH_3$
O-H st. vib.	3400-2600	-	-
C-H Ar st. vib.	-	3040, 3010	3040
C-H Aliph. st. vib.	2950, 2850	2950, 2850	2950, 2850
C=O st. vib. cyclohexyl	1647	1642	1650
C=O st. vib. R^2 acid	1735	-	-
C=O st. vib. R^2 ester	-	1753	1750
$-SO_2-$ st. vib., sym, asym.	1350, 1170	1350, 1170	1350, 1160
disub. *o*- (C-H bend)	770	770	770
disub. *P*- (C-H bend)	830	830	830
-C=C Ar st. vib.	1600, 1590	1600, 1500	1500
-CH bend	1420	1450	1440
C-O st. vib.	1230	1200	1200

Table 2.3e: The I. R. data of *p*-bromo-sulphonamide derivatives



	Comp. No.		
	XVII	XVIII	XIX
R^2	-H	$-CH_3$	$-CH_2-CH_3$
O-H st. vib.	3400-2600	-	-
C-H Ar st. vib.	3040	3040	3040
C-H Aliph. st. vib.	2950, 2850	2960, 2850	2940, 2850
C=O st. vib. cyclohexyl	1650	1650	1640
C=O st. vib. R^2 acid	1740	-	-
C=O st. vib. R^2 ester	-	1750	1750
$-SO_2-$ st. vib., sym, asym.	1340, 1170	1340, 1170	1340, 1170
disub. *o*- (C-H bend)	750	750	750
disub. *P*- (C-H bend)	830	830	830
-C=C Ar st. vib.	1590, 1500	1590, 1500	1590, 1500
-CH bend	1450	1450	1450
C-O st. vib.	1200	1200	1200