

Table 5. A summary of the IR peak positions.

	H	B199	2	11	B71	3	12	R23	1	10	YD	4	9
-OH	3426	-	3460	3420	3426	3460	3440	3308	3460	3450	3438	3442	3450
$\overset{-}{\text{CO}}_3^{2-}$	1365	-	1370	1370	-	1370	1370	-	1370	1370	-	1370	1370
-N=N-	-	1500	-	1520	1500	-	1500	1480	-	1500	1496	-	1496
-SO ₃	-	1035	-	1035	1180	-	1100	1050	-	1050	1110	-	1110
-C=C-	-	1620	1610	1640	1620	1640	1630	1600	1610	-	1618	1600	1630