Table Elemental analyses, MS data

Complex	M.P. [°C]	Yield [%]	Molecular formula	Elemental analyses [%]						(m/z) Calc.	Mass spectra(m/z)
				Calculated			Found				(M+H$^+$), or (M+Na$^+$)
				C	H	N	C	H	N		
2	218-219	98	$C_{23}H_{18}N_2O_2Ni$	66.86	4.40	6.78	66.9	4.18	6.67	412.08	413.1[a]
3	227	45	$C_{23}H_{18}N_2O_3Ni$	64.37	4.24	6.53	64.28	4.37	6.37	428.08	429.1[a]
4	276-277	48	$C_{23}H_{18}N_2O_3Ni$	64.37	4.24	6.53	64.26	4.41	6.31	428.08	429.1[a]
5	105-107	90	$C_{37}H_{35}N_3O_6Ni$	65.70	5.22	6.21	65.79	5.37	6.03	675.19	676.2; 698.2[a]
6	198-201	90	$C_{28}H_{25}N_3O_5Ni$	62.03	4.65	7.75	62.21	4.81	7.49	541.12	542.1; 564.1[a]
7	129-132	60	$C_{34}H_{37}N_3O_6Ni$	63.47	5.95	6.53	63.62	5.92	6.53	641.20	642.3[a]
8	107-110	70	$C_{43}H_{37}N_3O_6Ni$	68.82	4.97	5.60	69.01	5.41	6.10	749.20	750.1[a]
9	99-103	80	$C_{44}H_{39}N_3O_6Ni$	69.13	5.14	5.50	69.29	5.55	6.07	763.22	786.3[b]
10	145-148	60	$C_{30}H_{27}N_3O_5Ni$	63.41	4.79	7.39	63.59	4.91	7.81	567.13	568.0; 590.0[b]
11	218-220	80	$C_{29}H_{26}N_4O_6Ni$	59.52	4.48	9.57	59.64	4.52	9.37	584.12	585.1; 606.9[b]
3D$_1$	234-235	88	$C_{44}H_{30}N_2O_8Ni$	68.33	3.91	3.62	67.92	3.78	3.51	772.14	795.22[b]
3D$_2$	89-91	89	$C_{72}H_{46}N_2O_{16}Ni$	68.97	3.70	2.23	68.53	3.62	2.18	1252.22	1253.98; 1275.94[b]
4D$_1$	245-246	20	$C_{44}H_{30}N_2O_8Ni$	68.33	3.91	3.62	67.84	3.69	3.43	772.14	795.24[b]
4D$_2$	85-86	15	$C_{72}H_{46}N_2O_{16}Ni$	68.97	3.70	2.23	68.39	3.55	2.19	1252.22	1275.18[b]
3D$_3$	234-236	53	$C_{44}H_{35}N_2O_5Ni$	72.25	4.96	3.83	73.02	5.25	3.22	730.20	731.2[a]
3D$_4$	65-66	38	$C_{72}H_{60}N_2O_9Ni$	74.81	5.23	2.42	73.82	4.90	2.24	1154.36	1155.5; 1177.4[a]
3D$_5$	-	46	$C_{128}H_{108}N_2O_{17}Ni$	76.68	5.43	1.40	76.05	5.23	1.25	2002.70	2025.54[a]
4D$_3$	137-136	92	$C_{44}H_{35}N_2O_5Ni$	72.25	4.96	3.83	73.73	5.18	3.38	730.20	731.2[a]
4D$_4$	-	86	$C_{72}H_{60}N_2O_9Ni$	74.81	5.23	2.42	73.78	5.26	2.24	1154.36	1155.33; 1177.33[b]
4D$_5$	-	81	$C_{128}H_{108}N_2O_{17}Ni$	76.68	5.43	1.40	76.12	5.06	1.34	2002.70	2025.78[b]

[a] ESI-MS; [b] MALDI-TOF

	^{1}H NMR, $CDCl_3$, δ (ppm)	
	Schiff-base framework	**O–substituents**
2	2.53 (s, 3H, -CH_3); 6.03 (s, 1H, -CH=); [6.64 (t, 1H, J = 7.3 Hz), 7.00 – 7.12 (m, 3H), 7.26 – 7.42 (m, 6H), 7.64 (dd, 1H, J_0 = 8.1 Hz, J_m = 1.2 Hz), 7.88 (dd, 2H, J_0 = 7.8 Hz, J_m = 1.7 Hz)] (13H, *o*-C_6H_4, C_6H_4, C_6H_5); 8.19 (s, 1H, HC=N)	-
3	2.45 (s, 3H, -CH_3); 5.98 (s, 1H, -CH=); [6.53 (t, 1H, J = 7.4 Hz), 6.85 (td, 2H, J_t = 8.5 Hz, J_d = 1.7 Hz), 7.00 (dtd, 2H, J_0 = 22.3 Hz, J_t = 7.7 Hz, J_d = 1.3 Hz), 7.25 (dd, 1H, J_0 = 8.25 Hz, J_m = 1.1 Hz), 7.33-7.45 (m, 3H), 7.52 (dd, 1H, J_0 = 8.3 Hz, J_m = 1.4 Hz), 7.79 (dt, 2H, J_d = 6.3 Hz, J_t = 1.7 Hz)] (12H, *o*-C_6H_4, C_6H_3, C_6H_5); 6.70 (s, 1H, OH); 8,09 (s, 1H, HC=N)	-
4[a]	2.53 (s, 3H, -CH_3); 6.22 (s, 1H, -CH=); [6.75 (m, 1H), 6.90 (m, 2H), 7.11(dt, 2H, J_d = 23.0 Hz, J_t = 7.3 Hz), 7.43 – 7.52 (m, 4H), 7.84 (d, 2H, J = 7.1 Hz), 8.05 (d, 1H, J = 7.8 Hz)] (12H, *o*-C_6H_4, C_6H_3, C_6H_5); 8.61 (s, 1H, N=CH); 8.77 (s, 1H, OH);	-
5	2.47 (s,3H, -CH_3); 5.90 (s, 1H, -CH=); 6.56(t, 1H, C_6H_3, J=8Hz); 6.95-7.67 (m, 17H, *o*-C_6H_4, C_6H_3, C_6H_5-Phe, C_6H_5-complex); 8.18 (s, 1H, HC=N)	1.40 (s, 9H, d); 3.15 (dd, 1H, b, J_{ba}=6Hz, $J_{bb'}$=13.5Hz); 3.42 (dd, 1H, b', $J_{b'a}$=4.5Hz, $J_{bb'}$=13.5Hz); 4.85 (m, 1H, a); 5.18 (d, 1H, c, J_{ca}=7Hz);
6	2.47 (s, 3H, -CH_3); 5.88 (s, 1H, -CH=); 6.56 (t, 1H, C_6H_3, J=8Hz); 6.97-7.68 (m, 12H, *o*-C_6H_4, C_6H_3, C_6H_5); 8.15 (s, 1H, HC=N);	1.52 (d, 3H, b, J_{ab}=7Hz); 1.75 (s, 3H, d); 4.91 (qn, 1H, a, J_{ab}=J_{ac}=7Hz); 6.48 (d, 1H, c, J_{ac}=7);
7	2.51 (s, 3H, -CH_3); 6.01 (s, 1H, -CH=); 6.99-7.86 (m, 12H, *o*-C_6H_4, C_6H_3, C_6H_5); 8.11 (s, 1H, HC=N);	1.02 (d, 6H, d, J_{dc}=6Hz); 1.47 (s, 9H, f); 1.63 (m, 1H, c); 1.81 (s, 2H, b); 4.51 (m, 1H, a); 4.95 (d, 1H, e,J_{ae}=8Hz);
8	2.51 (s, 3H, -CH_3); 6.02 (s, 1H, -CH=); 6.99-7.86 (m, 20H, *o*-C_6H_4, C_6H_3, C_6H_5, $C_{12}H_8$-Fmoc); 8.10 (s, 1H, HC=N);	1.05 (d, 3H, c, J_{bc}=6.5Hz); 1.09 (d, 3H, c',$J_{bc'}$=6.5Hz); 1.55 (m, 1H, b); 4.26 (m, 1H, f); 4.45 (m, 2H, e); 4.51 (m, 1H, a); 5.35 (d, 1H, d, J_{ad}=9Hz);
9	2.51 (s, 3H, -CH_3); 6.02 (s, 1H, -CH=); 6.99-7.86 (m, 20H, *o*-C_6H_4, C_6H_3, C_6H_5, $C_{12}H_8$-Fmoc); 8.10 (s, 1H, HC=N);	1.00-1.57 (m, 8H, b, c, d, e); 4.26 (t, 1H, h, J_{gh}=7Hz); 4.44 (m, 1H, g); 4.54 (m, 2H, a, g'); 5.36 (d, 1H, f, J_{af}=9Hz);
10	2.50 (s, 3H, -CH_3); 6.01 (s, 1H, -CH=); 6.99-7.86 (m, 12H, *o*-C_6H_4, C_6H_3, C_6H_5); 8.11 (s, 1H, HC=N);	2.10 (s, 0.1H, e-cis); 2.13 (s, 0.9, e-trans); 2.15-2.22 (m, 3H, b, c); 2.33 (m, 1H, b'); 3.57 (m, 1H, d); 3.69 (m, 1H, d'); 4.57 (dd, 0.1H, a-cis, $J_{a\text{-}cis,b}$=3Hz, $J_{a\text{-}cis,b'}$=8.5Hz); 4.64 (dd, 0.9H, a-trans,$J_{a\text{-}trans,b}$=4Hz, $J_{a\text{-}trans,b'}$=8.5Hz);
11	2.54 (s, 3H, -CH_3); 6.24 (s, 1H, -CH=); 6.87-7.85 (m,12H, *o*-C_6H_4, C_6H_3, C_6H_5); 8.84 (s, 1H, HC=N);	1.88 (s, 3H, e); 3.76 (d, 2H, c, J_{cd}=6Hz); 4.10 (d, 2H, a, J_{ab}=6Hz); 8.15 (t, 1H, d, J_{cd}=6Hz); 8.40 (t, 1H, b, J_{ab}=6Hz);
3D$_1$	2.4 (s, 3H, -CH_3); 5.9 (s, 1H, -CH=); 6.5 (t, J = 7.5 Hz, 1H, C_6H_3); 6.8 – 7.7 (m, 18H, *o*-C_6H_4, C_6H_3, C_6H_5), 8.17 (m, 5H, -CH=N-, *o*-C_6H_4, C_6H_3)	8.1 (d, J = 2 Hz, 2H, C_6H_3); [b]
3D$_2$	2.44 (s, 3H, -CH_3); 5.9 (m, 1H, -CH=); 6.6 (m, 1H, C_6H_3), 6.9 – 7.7 (m, 19H, *o*-C_6H_4, C_6H_3, C_6H_5, 7.8 - 8.4 (m, 22H, *o*-C_6H_4, C_6H_3, C_6H_5, -CH=N-)	[b]
4D$_1$	2.5 (s, 3H, -CH_3); 6.0 (s, 1H, -CH=); 6.5 (t, J = 7.5 Hz, 1H, C_6H_3), 7.0 – 7.85 (m, 19H, C_6H_5, C_6H_3, *o*-C_6H_4, 8.14 – 8.20 (m, 4H)	7.98 (d, J = 2.2 Hz, 1H, C_6H_3); [b]
4D$_2$	2.5 (s, 3H, -CH_3); 6.0 (s, 1H, -CH=); 6.5 (t, J = 7.5 Hz, 1H, C_6H_3); 7.0 – 7.85 (36H, C_6H_5, C_6H_3, *o*-C_6H_4, 8.15 – 8.20 (m, 4H)	7.9 (d, J = 2.2 Hz, 1H, C_6H_3); [b]
3D$_3$	2.5 (s, 3H, -CH_3); 6.02 (s, 1H, -CH=); 6.5 (t, J = 7.8 Hz, 1H, C_6H_3); 6.87 – 7.8 (m, 22H, *o*-C_6H_4 , C_6H_5, C_6H_3, 8.19 (s, 1H, HC=N);	5.02 (s, 4H, -CH_2-(*b*)); 5.23 (s, 2H, -CH_2-(*a*)); 6.57 (t, J = 2 Hz, 1H, C_6H_3); 6.82 (d, J = 2 Hz, 2H, C_6H_3); [b]
3D$_4$	2.47 (s, 3H, -CH_3); 6.0 (s, 1H, -CH=); 6.87, 6.98 (dd, J_1 = 1.4, J_2 = 7.4, 1H, td, J_1 = 1.4 Hz, J_2 = 8.2, 2H, *o*-C_6H_4, C_6H_3); 7.07 – 7.8 (m, 27H, C_6H_3, C_6H_5, *o*-C_6H_4, 8.15 (s, 1H, -HC=N-);	4.96 (s, 4H, -CH_2-(*b*)), 4.98 (s, 8H, -CH_2-(*c*)), 5.2 (s, 2H, -CH_2-(*a*)); 6.52 (m, 5H, C_6H_3, C_6H_3); 6.62 (d, 4H, J = 1.8 Hz, C_6H_3); 6.82 (d, 2H, J = 1.9 Hz, C_6H_3); [b]
3D$_5$	2.5 (s, 3H, -CH_3); 6.0 (s, 1H, -CH=); 6.8 – 7.8 (m, 60H, *o*-C_6H_4, C_6H_3, C_6H_5) 8.15 (s, 1H, -HC=N-)	4.96 (s, 4H, -CH_2-(*b*)); 4.98 (s, 8H, -CH_2-(*c*)); 5.0 (s, 16H, -CH_2-(*d*)); 5.2 (s, 2H, -CH_2-(*a*)); 6.5-6.6 (m, 13H, C_6H_3); [b]
4D$_3$	2.5 (s, 3H, CH_3); 6.0 (s, 1H, -CH=); 6.7 – 7.8 (m, 25H, *o*-C_6H_4, C_6H_3, C_6H_5) 8.05 (s, 1H, N=CH)	4.93 (s, 2H, -CH_2-(*a*)); 5.03 (s, 4H, -CH_2-(*b*)); [b]
4D$_4$	2.46 (s, 3H, CH_3); 5.97 (s, 1H, -CH=); 6.7 – 7.8 (m, 32H, *o*-C_6H_4, C_6H_3, C_6H_5, 8.0 (s, 1H, N=CH)	4.90 (s, 2H, -CH_2-(*a*)); 4.95 (s, 4H, -CH_2-(*b*)); 5.0 (s, 8H, -CH_2-(*c*)); 6.53 (t, J = 2.2 Hz, 1H, C_6H_3); 6.56 (t, J = 2.2 Hz, 2H, C_6H_3); 6.64 (d, J = 2.2 Hz, 2H, C_6H_3); 6.66 (d, J = 2.4 Hz, 4H, C_6H_3); [b]
4D$_5$	2.5 (s <broad>, 3H, -CH_3), 6.0 (s <broad>, 1H, -CH=), 6.5 – 7.8 (m, 73H, C_6H_3, *o*-C_6H_4, C_6H_3, C_6H_5, 8.0 (s <broad>, 1H, N=CH)	4.90 (s, 2H, -CH_2-(*a*)); 4.95 (s, 4H, -CH_2-(*b*)); 5.0 (m, 24H, -CH_2-(*c* and *d*)); [b]

[a] -in DMSO, [b] some signals obscured by that of Schiff base part (column 2)

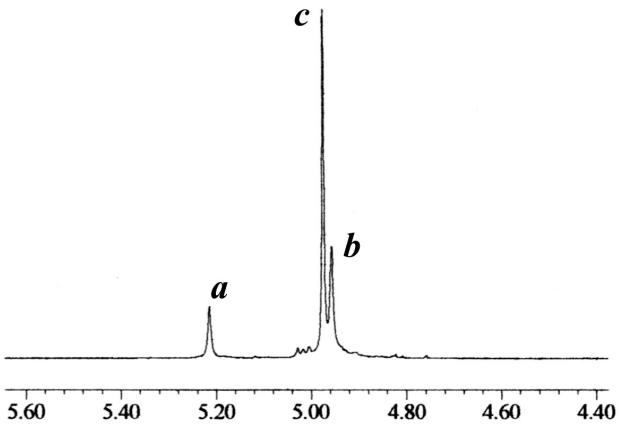
	^{13}C NMR. δ (ppm), $CDCl_3$	
	Schiff-base framework	**O–substituents**
2	25.44 (-CH_3); 103.03 (-CH=); 114.66, 115.89, 120.34, 122.22, 123.85, 126.45, 127.73, 128.35, 130.71, 133.29, 135.02, 136.67, 142.96, 145.11; 153.18; 165.27 (*o*-C_6H_4, C_6H_3, C_6H_5,=C-N); 165.94 (C=N); 175.03 (C=O);	
3	25.42 (-CH_3); 103. 08 (-CH=); 114.78, 115.05, 115.85, 118.92, 122.26, 123.18, 124.00, 126.59,127.49, 128.48, 130.83, 136.37, 142.84, 145.20, 147.80; 153.37; 153.42 154.26 (*o*-C_6H_4, C_6H_3, C_6H_5, =C-N); 165.37 (C=N); 174.43 (C=O)	
4[a]	24.79 (-CH_3); 101.90 (-CH=); 114.49, 115.55, 119.18, 120.66, 121.86, 123.76, 125.91, 126.34, 126.82, 128.22, 130.46, 135.88 ,142.48, 143.51, 146.15, 154.06; 159.34 (*o*-C_6H_4, C_6H_3, C_6H_5, =C-N); 165.77 (C=N); 172.70 (C=O)	
5	24.93(-CH_3); 103.19(-CH=); 114.33, 114.73, 121.97, 123.65, 126.42, 126.64, 127.05, 128.11, 128.25, 129.79, 130.23, 130.99, 136.67, 141.91, 142.49, 145.15, 152.94, 157.05, 164.74 (*o*-C_6H_4, C_6H_3, C_6H_5-Phe, C_6H_5, N-C=, C=N, C4); 175.37(C=O);	28.33(C6); 38.20(C3); 54.68(C2); 79.58(C5); 170.03(C1);
6	24.91(-CH_3); 103.63(-CH=); 114.50, 114.79, 121.77, 122.03, 123.90, 126.11, 126.69, 127.14, 128.14, 129.01, 130.48, 130.88, 136.94, 142.30, 142.52, 144.97, 153.04, 156.54, 165.02 (*o*-C_6H_4, C_6H_3, C_6H_5, N-C=, C=N); 169.48(C4); 175.47(C=O);	18.18(C3); 22.90(C5); 48.06(C2); 171.45(C1);
7	25.12(-CH_3); 102.88(-CH=); 114.46, 119.04, 122.00, 122.74, 122.92, 123.68, 126.50, 127.49, 128.12, 128.58, 130.52, 136.40, 139.64, 142.54, 145.01, 152.43, 163.91(*o*-C_6H_4, C_6H_3, C_6H_5, N-C=, C=N, C6); 174.98(C=O);	21.97(C5); 22.87(C5'); 24.94(C4); 28.35(C8); 41.76(C3); 52.33(C2); 80.01(C7); 165.09(C1);
8	25.11(-CH_3); 102.91(-CH=); 114.47, 119.98, 121.99, 122.83, 122.93, 123.68, 125.05, 126.54, 127.10, 127.49, 127.73, 125.14, 130.54, 136.39, 141.33, 142.50, 143.87, 145.03, 152.38, 163.98 (*o*-C_6H_4, C_6H_3, C_6H_5, N-C=, C=N, $C_{12}H_8$-Fmoc, C5); 175.03(C=O);	17.80(C4); 19.06(C4'); 31.41(C3); 47.25(C7); 59.23(C2); 67.16(C6); 165.09(C1);
9	25.12(-CH_3); 102.91(-CH=); 114.48, 119.99, 122.82, 122.94, 123.68, 125.05, 126.54, 127.10, 127.49, 127.72, 128.14, 130.54, 136.39, 139.43, 141.34, 142.51, 143.78, 143.88, 145.04, 152.39; 163.97 (*o*-C_6H_4, C_6H_3, C_6H_5, N-C=, C=N, $C_{12}H_8$-Fmoc, C7); 175.04(C=O);	11.65(C6); 15.62(C4); 25.28(C5); 38.15(C3); 47.22(C9); 58.50(C2); 67.13(C8); 165.10(C1);
10	24.99,25.12(-CH_3;C4); 102.84(-CH=); 114.46, 119.10, 121.96, 122.55, 123.20, 123.73, 125.27, 126.41, 127.47, 128.09, 128.20, 128.70, 129.00, 130.47, 136.42, 139.77, 142.58, 144.96, 152.55, 163.82, 165.06(*o*-C_6H_4, C_6H_3, C_6H_5, N-C=, C=N); 174.90(C=O);	22.21(C7); 29.47(C3); 47.80(C5); 58.84(C2); 169.50(C6); 171.49(C1);
11	24.93(-CH_3); 102.13(-CH=); 115.70, 119.23, 121.11, 122.02, 123.90, 126.57, 128.22, 128.87, 130.55, 135.86, 138.74, 142.03, 143.74, 154.79, 162.43, 166.02(*o*-C_6H_4, C_6H_3, C_6H_5, N-C=, C=N); 172.84(C=O);	22.35(C6); 40.80(C4); 41.68(C2); 168.98, 169.48, 169.74(C1,C3,C5);
3D$_1$	25.17 (-CH_3); 102.36 (-CH=C); 114.12, 114.72, 123.47, 125.84, 142.20, 142.35, 145.14 (*o*-C_6H_4, C_6H_3); 126.47, 127.06, 127.97, 128.62, 130.23, 133.82 (C_6H_3, C_6H_5); 120.77, 120.94, 121.97, 129.01, 131.15, 132.29, 135.84, 151.43, 152.71, 162.81 (C_6H_3, C_6H_5, 157.059 (C=N); 173.92 (C=O)	164.75, 164.38 (C=O);
3D$_2$	(-CH_3); 102.43 (-CH=); 114.30, 114.58, 123.46, 142.43, 145.26 (*o*-C_6H_4, C_6H_3); 152.69 (C=N); 174.43 (C=O); 120.40, 120.82, 120.98, 121.07, 121.13, 121.22, 121.32, 121.42, 121.50, 121.71, 121.94, 126.08, 126.56, 127.08, 127.13, 128.04, 128.69, 128.90, 129.06, 130.31, 130.44, 130.56, 130.70, 131.20, 133.94, 134.02, 151.16, 151.44, 151.48, 151.57, 151.64, 151.76 (C_6H_3, C_6H_5)	162.78, 164.40, 164.47 (C=O);
4D$_1$	25.13 (-CH_3); 102.89 (-CH=); 114.48, 114.58, 122.74, 122.81, 123.18, 123.22, 123.71, 142.56, 142.59, 145.02 (*o*-C_6H_4, C_6H_3); 152.53 (C=N); 174.98 (C=O); 119.18, 120.96,121.06, 121.99, 126.50, 127.50, 128.13, 128.55, 128.71, 128.92, 129.05, 130.10, 130.30, 130.50, 133.47, 133.98, 136.43, 139.79, 151.53 (C_6H_3, C_6H_5)	163.97, 164.62, 165.08 (C=O); [b]
4D$_2$	25.11 (-CH_3); 102.78 (-CH=); 114.39, 114.68, 122.89, 123.21, 123.75, 142.65, 142.71, 145.11 (*o*-C_6H_4, C_6H_3); 152.35 (C=N); 175.02 (C=O); 121.15, 122.03, 126.45, 127.53, 128.11, 128.34, 128.81, 128.95, 130.21, 130.47, 133.52, 134.01, 136.34, 140.05, 151.35 (C_6H_3, C_6H_5,)	163.98, 164.52, 165.15 (C=O); [b]
3D$_3$	25.16 (CH_3); 102.39 (-CH=); 114.357, 114.926, 120.866, 121.911, 123.474 (*o*-C_6H_4); 119.696, 126.08, 126.12, 127.42, 127.57, 127.80, 127.93, 128.15, 128.44, 130.52, 136.09, 137.04, 140.685, 142.695, 145.071, 150.160, 152.767, 164.88 (C_6H_3, C_6H_5,); 158.33 (C=N); 174.56 (C=O)	70.11(*b*), 71.83(*a*) (-CH_2-);101.72, 106.56, 160.04 (C_6H_3); [b]
3D$_4$	25.13 (-CH_3); 102.40 (-CH=); 114.358, 114.935, 119.00, 119.27, 119.34, 120.796, 121.91, 123.47 (C_6H_3, *o*-C_6H_4); 174.54 (C=O); 125.09, 125.99, 126.18, 127.42, 127.56, 127.91, 128.20, 128.52, 130.58, 136.90, 139.48, 140.68, 142.68, 145.04, 145.25, 150.19, 152.77, 159.94, 160.11, 164.90 (*o*-C_6H_4, C_6H_5, C_6H_3, C=N)	70.01(*b*), 70.09(*c*), 71.69(*a*) (-CH_2-); 101.73, 106.52, 106.41 (C_6H_3); [b]
3D$_5$	25.15 (-CH_3); 101.68, 106.53, 106.34, 127.49, 127.96, 128.11, 128.58, 136.79, 139.30, 160.05, 160.21 (*o*-C_6H_4, C_6H_5, C_6H_3, C=N)	70.01, 70.11, 71.70 (-CH_2-); [b]
4D$_3$	25.16 (-CH_3); 102.74 (-CH=); 113.11,114.38,118.71, 121.92, 123.00, 148.71 (C_6H_3, *o*-C_6H_4); 174.86 (C=O); 123.55, 125.29, 125.94, 126.93, 127.52, 127.97, 128.09, 128,21, 128.57, 129.02, 130.43, 136.55, 136.87, 139.81, 142.85, 144.76, 152.08, 160.19, 162.11, 164.93 (C_6H_3, C_6H_5, C=N,)	70.15(*b*), 70.82(*a*) (-CH_2-);101.60, 106.35 (C_6H_3); [b]
4D$_4$	25.13 (-CH_3); 102.69 (-CH=); 113.16, 114.41, 118.71 121.85, 122.90, 123.53, 148.623, (*o*-C_6H_4, C_6H_3); 174.738 (C=O); 125.874, 130.382, 136.525, 139.809, 142.775, 144.672, 152.055, 161.978, 126.77, 127.35, 127.50, 127.67, 127.93, 128.07, 128.33, 128.53, 136.81, 139.29, 160.04, 160.18, 164.874 (C_6H_5, C_6H_3, C=N,)	69.98(*b*), 70.12(*c*), 70.72(*a*) (-CH_2-); 101.614, 106.28, 106.41 (C_6H_3); [b]
4D$_5$	25.12 (-CH_3); 101.70, 106.32, 106.44, 127.50, 127.94, 128.09, 128.54, 136.84, 139.27, 160.09, 160.19 (C_6H_5, C_6H_3, *o*-C_6H_4, C=N)	70.04, 70.13, 70.81(*a*) (-CH_2-); [b]

[a] -in DMSO, [b] some signals obscured by that of Schiff base part (column 2)

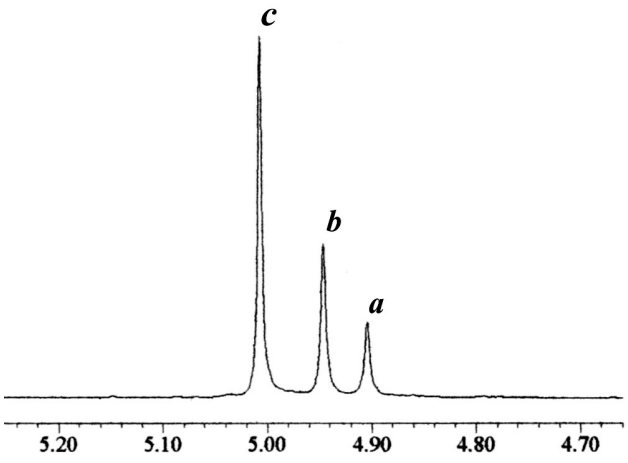
Table . IR data

Complex	ν (cm^{-1})
2	1608 (ν C=O);
3	3405 (ν O-H); 1610 (ν C=O);
4	3110b (ν O-H);1610 (ν C=O);
5	3395b (ν N-H); 1748 (ν C=O ester); 1668 (ν C=O amide); 1613 (ν C=O);
6	3404b (ν N-H); 1751 (ν C=O ester); 1662 (ν C=O amide); 1614 (ν C=O)
7	3430b (ν N-H); 1761 (ν C=O ester); 1712 (ν C=O amide);
8	3412b (ν N-H); 1756 (ν C=O ester); 1721 (ν C=O amide); 1620 (ν C=O);
9	3415b (ν N-H); 1755 (ν C=O ester); 1718 (ν C=O amide); 1620 (ν C=O);
10	3445b (ν N-H); 1759 (ν C=O ester); 1646b (ν C=O amide);
11	3408 (ν N-H); 1766 (ν C=O ester); 1654b (ν C=O amide);
$3D_1$[b]	1715 (ν C=O ester)
$3D_2$[b]	1713 (ν C=O ester)
$4D_1$[b]	1716 (ν C=O ester)
$4D_2$[b]	1720 (ν C=O ester)
$3D_3$[b]	3029, 3058 (ν C-H arom.).; 2925 (ν C-H aliph.); 1607 (ν C=O);
$3D_4$[b]	3032, 3063, 3089 (ν C-H arom.); 2926 (ν C-H aliph).; 1609 (ν C=O);
$3D_5$[b]	3035, 3060, 3090 (ν C-H arom.); 2920-2930 (ν C-H aliph.);
$4D_3$[b]	3035, 3058 (ν C-H arom.); 2920 (ν C-H aliph.);
$4D_4$[b]	3030, 3060, 3090 (ν C-H arom.); 2920-2930 (ν C-H aliph.);
$4D_5$[b]	3034, 3066, 3085 (ν C-H arom.); 2920-2930 (ν C-H aliph.);

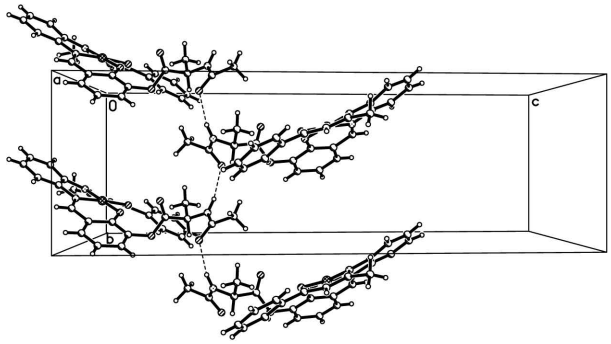
[a] in KBr , [b] in hexachlorobutadiene



^{1}H NMR spectrum of **3D$_4$** showing signals of methylene groups.



^{1}H NMR spectrum of **4D$_4$** showing signals of methylene groups.



Packing diagram of the **6** complex viewed along the *a* axis. Hydrogen bonds are shown by dashed lines. The intermolecular N-H···O hydrogen bonds link molecules into infinite homochiral chains extending along *b* axis.