

## *Abbreviations*

H <sub>2</sub> L <sup>1</sup>	5-bromo-3-methoxysalicylaldehyde-N(4)-phenylthiosemicarbazone
H <sub>2</sub> L <sup>2</sup>	5-bromo-3-methoxysalicylaldehyde-N(4)-cyclohexylthiosemicarbazone
phen	1,10-phenanthroline
bipy	2,2'-bipyridine
4,4'-dmbipy	4,4'-dimethyl-2,2'-bipyridine
5,5'-dmbipy	5,5'-dimethyl-2,2'-bipyridine
Complex 1	[VOL <sup>1</sup> phen]
Complex 2	[VOL <sup>1</sup> bipy]
Complex 3	[(NiL <sup>1</sup> ) <sub>2</sub> ]
Complex 4	[NiL <sup>1</sup> phen]
Complex 5	[NiL <sup>1</sup> (5,5'-dmbipy)]
Complex 6	[(NiL <sup>2</sup> ) <sub>2</sub> ]
Complex 7	[NiL <sup>2</sup> bipy]
Complex 8	[(CuL <sup>1</sup> ) <sub>2</sub> ]
Complex 9	[CuL <sup>1</sup> phen]
Complex 10	[CuL <sup>1</sup> bipy]
Complex 11	[CuL <sup>1</sup> (4,4'-dmbipy)]
Complex 12	[CuL <sup>1</sup> (5,5'-dmbipy)]·DMF
Complex 13	[(CuL <sup>2</sup> ) <sub>2</sub> ]
Complex 14	[CuL <sup>2</sup> phen]
Complex 15	[CuL <sup>2</sup> bipy]
Complex 16	[CuL <sup>2</sup> (4,4'-dmbipy)]
Complex 17	[CuL <sup>2</sup> (5,5'-dmbipy)]
Complex 18	[(ZnL <sup>1</sup> ) <sub>2</sub> ]
Complex 19	[ZnL <sup>1</sup> phen]
Complex 20	[ZnL <sup>1</sup> bipy]
Complex 21	[ZnL <sup>1</sup> (4,4'-dmbipy)]·DMF
Complex 22	[ZnL <sup>1</sup> (5,5'-dmbipy)]
Complex 23	[(ZnL <sup>2</sup> ) <sub>2</sub> ]
Complex 24	[ZnL <sup>2</sup> phen]
Complex 25	[ZnL <sup>2</sup> bipy]
Complex 26	[(CdL <sup>1</sup> ) <sub>2</sub> ]

Complex 27	[CdL <sup>1</sup> phen]
Complex 28	[CdL <sup>1</sup> bipy]
Complex 29	[CdL <sup>1</sup> (4,4'-dmbipy)]
Complex 30	[CdL <sup>1</sup> (5,5'-dmbipy)]
Complex 31	[(CdL <sup>2</sup> ) <sub>2</sub> ]
Complex 32	[CdL <sup>2</sup> phen]
Complex 33	[CdL <sup>2</sup> bipy]
Complex 34	[MoO <sub>2</sub> L <sup>1</sup> DMF]·DMF