

## Abbreviation

HL <sup>1</sup>	benzaldehyde 3-hexamethyleneiminylthiosemicarbazone
H <sub>2</sub> L <sup>2</sup>	2-hydroxybenzaldehyde 3-hexamethyleneiminylthiosemicarbazone
HL <sup>3</sup>	4-methoxybenzaldehyde 3-hexamethyleneiminylthiosemicarbazone
H <sub>2</sub> L <sup>4</sup>	2-hydroxybenzaldehyde 3-tetramethyleneiminylthiosemicarbazone
DMF	N, N-dimethyl formamide
DMSO	dimethyl sulfoxide
CHCl <sub>3</sub>	chloroform
h	hours
L	ligand
B	base
ph	phenyl
TMS	tetramethyl silane
δ	isomer shift
py	pyridine
bipy	bipyridine
pic	picoline
phen	phenanthroline
TSC	thiosemicarbazone
SC	semicarbazone
BM	bohr magneton
α <sup>2</sup>	in-plane σ bonding parameter
β <sup>2</sup>	in-plane π bonding parameter
CT	charge transfer