Electronic Supplementary Information for Dalton Transactions

SUPPLEMENTARY DATA

Synthetic, Structural and Kinetic Studies on the Binding of Cyclohexane-1,2-bis(4-methyl-3-thiosemicarbazone) to Divalent Metal Ions (Co, Ni, Cu, Zn or Cd)

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Supplementary Data: Table 1

Kinetic Data for the Reactions between M^{2+} (M = Zn, Cd, Co, Ni or Cu) and CHMTSC in MeCN at 25.0 ^{o}C

metal	$[M^{2+}]$ / mmol dm^{-3}	[CHMTSC] / mmol dm^{-3}	k_{obs} / s^{-1}
Cd	0.2	2.0	1.0
		4.0	2.1
		6.0	3.37
		8.0	5.3
		10.0	6.2
	0.5	10.0	6.5
	1.0	10.0	6.2
Zn	0.2	2.0	1.1
		4.0	1.5
		6.0	3.9
		8.0	5.7
		10.0	6.4
	0.5	10.0	6.5
	1.0	10.0	6.5
Co	0.2	2.0	1.9
		4.0	5.8
		6.0	7.7
		8.0	11.0
		10.0	12.7
	0.5	10.0	12.0
	1.0	10.0	12.2
Ni	0.2	2.0	1.0
		4.0	2.1
		6.0	3.37
		8.0	5.3
		10.0	6.2
	0.5	10.0	6.5
	1.0	10.0	6.0
Cu	0.2	2.0	5.2
		4.0	13.5
		6.0	14.4
		8.0	15.5
		10.0	19.9
	0.5	10.0	20.5
	1.0	10.0	19.2