Inorganic Chemistry
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Table S-I. Observed rate constants for disproportionation of [(Guo)py$(NH_3)_4Ru^{III}$] .

Ligand	Guo	dGuo	1MeGuo	9MeGua
pH	$k_{obs}(s^{-1})$	$k_{obs}(s^{-1})$	$k_{obs}(s^{-1})$	$k_{obs}(s^{-1})$
9.00	1.78×10^{-4}	2.16×10^{-4}	4.51×10^{-4}	5.73×10^{-5}
9.50	4.37×10^{-4}	4.74×10^{-4}	1.14×10^{-3}	1.91×10^{-4}
10.00	1.05×10^{-3}	1.17×10^{-3}	2.68×10^{-3}	8.20×10^{-4}
10.50	2.50×10^{-3}	2.39×10^{-3}	8.53×10^{-3}	2.07×10^{-3}
11.00	6.63×10^{-3}	6.49×10^{-3}	2.49×10^{-2}	9.78×10^{-3}

Table S-II. Observed rate constants for the appearance of *trans*-[(Gua)py$(NH_3)_4Ru^{III}$] in base from *trans*-[(L)py$(NH_3)_4Ru^{III}$].

Ligand	Guo	dGuo
pH	k_{obs} $(s^{-1}/10^{-5})$	k_{obs} $(s^{-1}/10^{-4})$
9.20	4.75	
10.20	16.5	7.05
11.30	27.2	8.77
11.9	53.2	18.5

Figure S-1. Plot of k_{obs} versus $[OH^-]^{1/2}$ for the appearance of *trans*-$[(Gua)py(NH_3)_4Ru^{III}]$ in base from *trans*-$[(Guo)py(NH_3)_4Ru^{III}]$.. Inset: plot of $\log(k_{obs})$ vs pH.

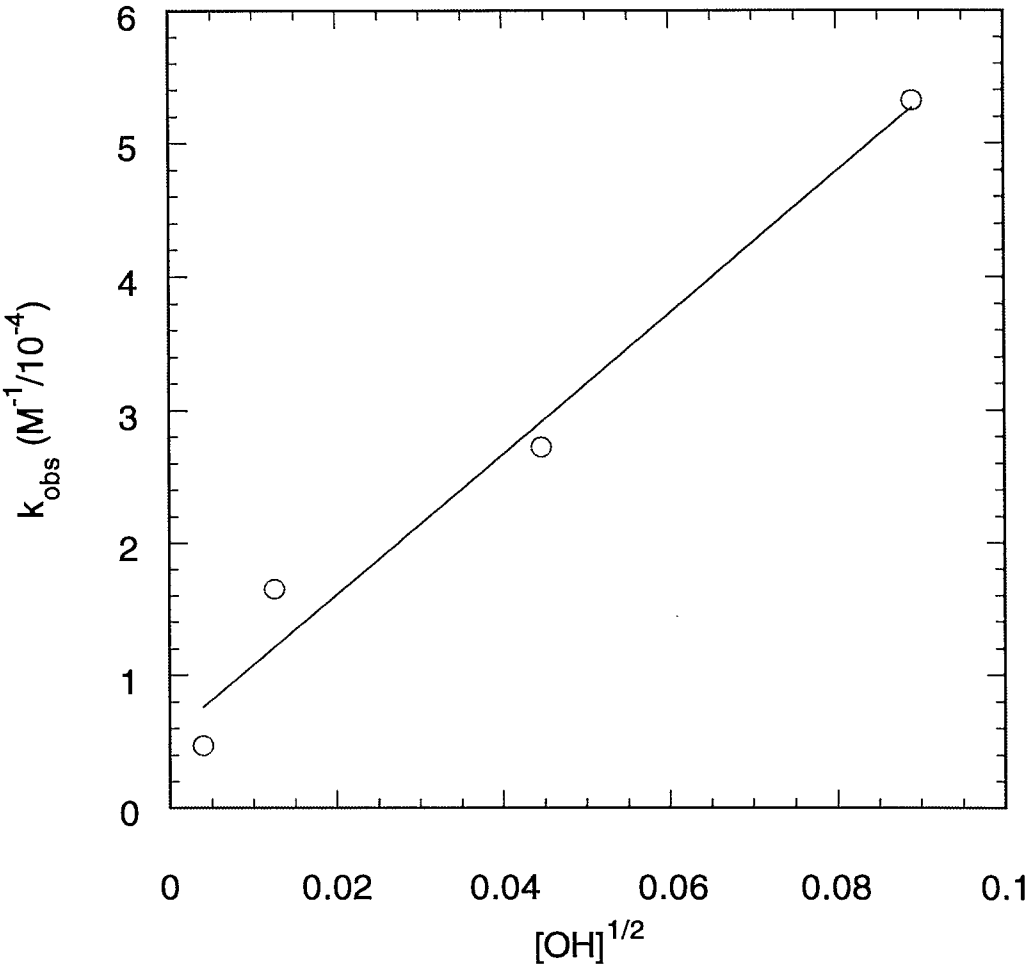

Figure S-2. Eyring Plot for the disproportionation of *trans*-[(Guo)(py)$(NH_3)_4Ru^{III}$] .

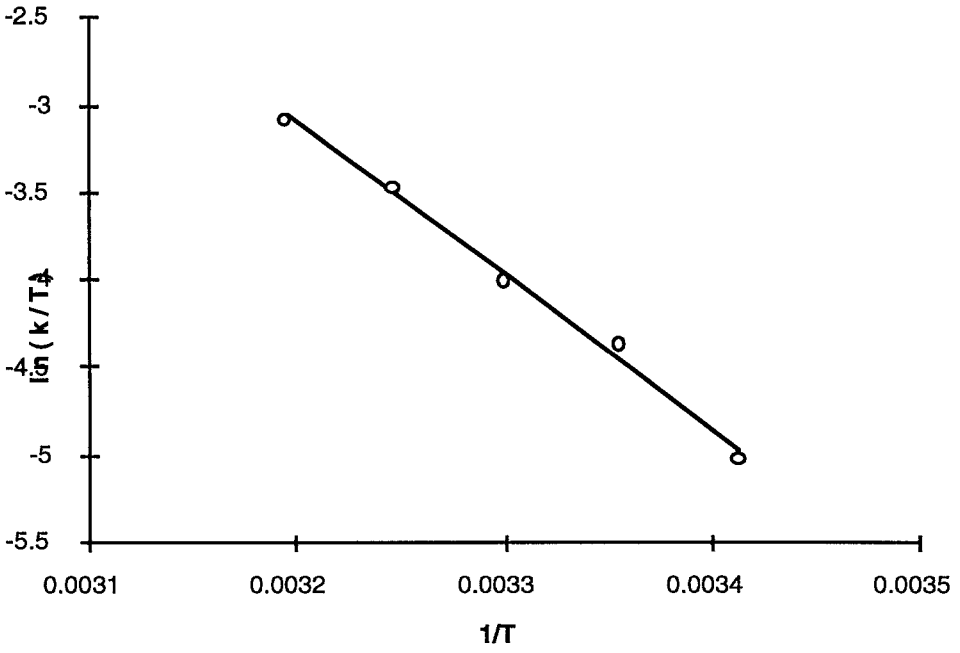

Figure S-3. Eyring Plot for the appearance of *trans*-[(Gua)py$(NH_3)_4Ru^{III}$] in base from *trans*-[(Guo)py$(NH_3)_4Ru^{III}$].