

Inorganic Chemistry

including bioinorganic chemistry

Inorg. Chem., 1996, 35(21), 6021-6026, DOI:[10.1021/ic960798g](https://doi.org/10.1021/ic960798g)

Terms & Conditions

Electronic Supporting Information files are available without a subscription to ACS Web Editions. The American Chemical Society holds a copyright ownership interest in any copyrightable Supporting Information. Files available from the ACS website may be downloaded for personal use only. Users are not otherwise permitted to reproduce, republish, redistribute, or sell any Supporting Information from the ACS website, either in whole or in part, in either machine-readable form or any other form without permission from the American Chemical Society. For permission to reproduce, republish and redistribute this material, requesters must process their own requests via the RightsLink permission system. Information about how to use the RightsLink permission system can be found at <http://pubs.acs.org/page/copyright/permissions.html>



ACS Publications

MOST TRUSTED. MOST CITED. MOST READ.

Copyright © 1996 American Chemical Society

Table S-I. Observed rate constants for disproportionation of [(Guo)py(NH₃)₄Ru^{III}] .

Ligand	Guo	dGuo	1MeGuo	9MeGua
pH	$k_{\text{obs}}(\text{s}^{-1})$	$k_{\text{obs}}(\text{s}^{-1})$	$k_{\text{obs}}(\text{s}^{-1})$	$k_{\text{obs}}(\text{s}^{-1})$
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(NH₃)₄Ru^{III}] in base from *trans*-[(L)py(NH₃)₄Ru^{III}].

Ligand	Guo	dGuo
pH	k_{obs} ($\text{s}^{-1}/10^{-5}$)	k_{obs} ($\text{s}^{-1}/10^{-4}$)
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 $[\text{OH}^-]^{1/2}$ for the appearance of *trans*-[(Gua)py(NH₃)₄Ru^{III}] in base from *trans*-[(Guo)py(NH₃)₄Ru^{III}]. Inset: plot of $\log(k_{\text{obs}})$ vs pH.

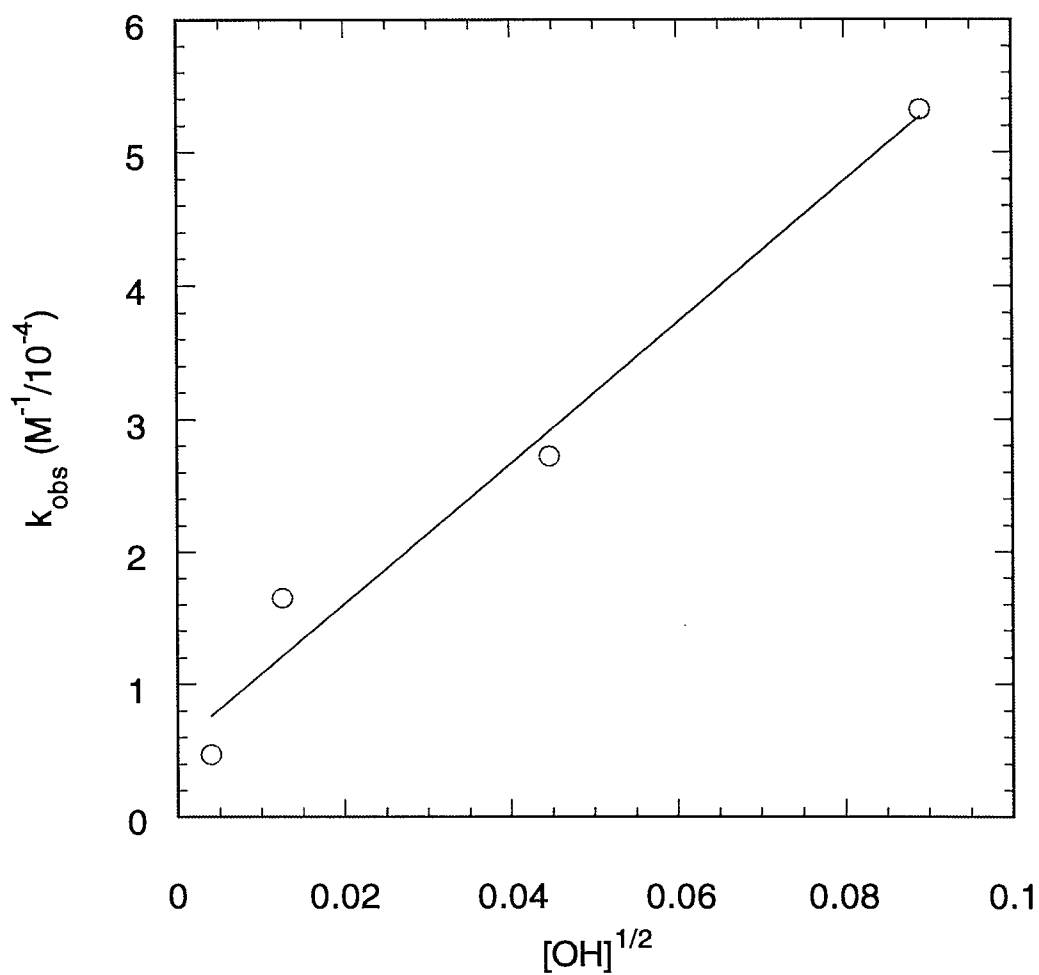


Figure S-2. Eyring Plot for the disproportionation of *trans*-[(Guo)(py)(NH₃)₄Ru^{III}].

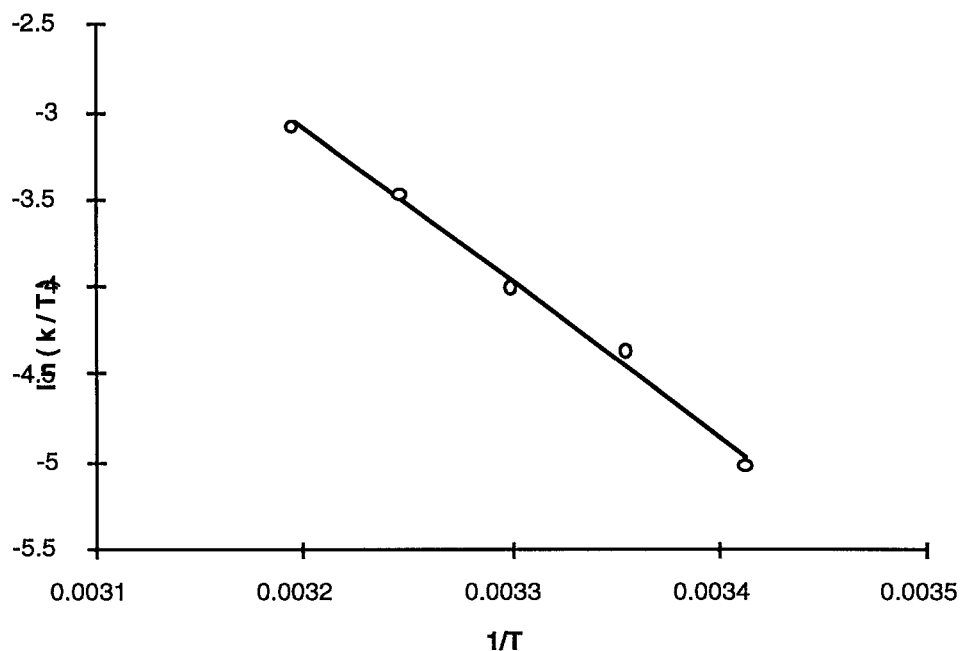


Figure S-3. Eyring Plot for the appearance of *trans*-[(Gua)py(NH₃)₄Ru^{III}] in base from *trans*-[(Guo)py(NH₃)₄Ru^{III}].

