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S2
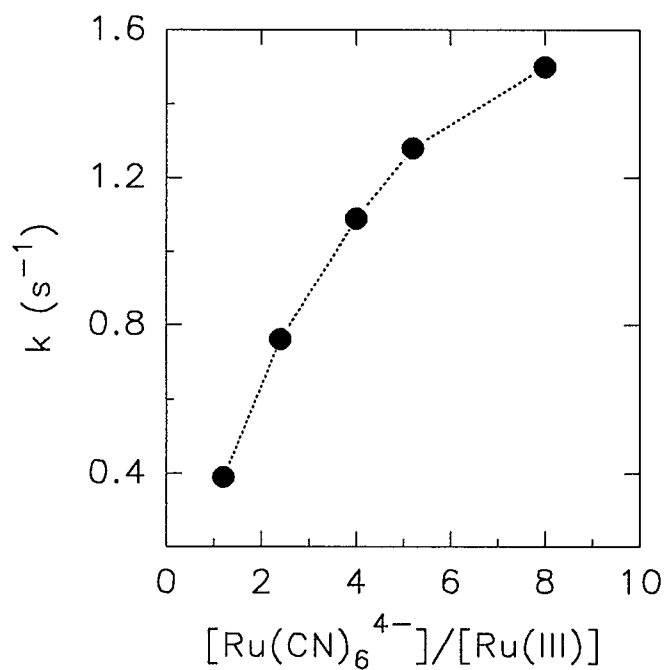
Supporting Information Fig. 1. Substitution rate constants (obtained by dividing the

slope (in M s^{-1}) of the zero order phase by the concentration of the catalyst) for the

catalyzed reaction as a function of R. [[Ru(NH$_3$)$_5$H$_2$O]$^{3+}$] = 2.5 x 10^{-4} M,

[[Ru(NH$_3$)$_5$H$_2$O]$^{2+}$] = 2.5 x 10^{-5} M, temperature 22.0 ± 0.5 ° C, pH 4.7 (acetate buffer 3.0 x

10^{-3} M).