LIST OF SYMBOLS

λ_{max}	: Wavelength of maximum absorbance
nm	: Nanometer
ϵ	: Molar absorptivity (l $mol^{-1} cm^{-1}$)
ν	: Frequency (cm^{-1})
[]	: Symbol for molar concentration
B	: pH meter reading
HA	: Unionized form of hydroxamic acid
A^-	: Ionized form of hydroxamic acid
K_a	: Thermodynamic ionization constant
pK_a	: - log K_a
y	: Activity coefficient of a species in solution
$y_{\pm}$	: Mean stoichiometric coefficient of a species in solution
ρ	: Hammett's reaction constant
σ	: Hammett's substituent constant
M	: Central metal atom in compound MA_n
n	: Number of ligands in the compound MA_n
$\bar{n}$	: Formation function i.e., the average number of ligands bound to the central metal atom in an equilibrium mixture
n_2	: Mole fraction of dioxan
MA, MA_2,... MA_n	: n successive mononuclear complexes between M and A

q_1, q_2, q_3 : Molar quotients for the formation of MA, MA_2, MA_3.

$\log K_1$, $\log K_2, \ldots$ $\log K_n$: Thermodynamic successive stability constants of the species MA, $MA_2, \ldots MA_n$

$\log \beta_3$: $\log K_1 + \log K_2 + \log K_3$

$\log \beta_n$: Thermodynamic overall stability constant

U_H : Antilog $(-B)/ [H^+]$

D : Dielectric constant of the medium

$\triangle$: $B + \log U_H^\circ + \log 1/y_\pm$