

LIST OF SYMBOLS

AAS	:	Atomic Absorption Spectrophotometer
PTPMCHA	:	N-p-Tolyl- α -phenyl-p-methoxy cinnamohydroxamic acid
PBHA	:	N-Phenylbenzohydroxamic acid
XO	:	Xylenol orange
λ_{max}	:	Wavelength of maximum absorbance
ϵ	:	Molar absorptivity in $\text{l mol}^{-1}\text{cm}^{-1}$
ν	:	Wave number
HA	:	Unionized form of ligand
A^-	:	Ionized form of ligand
[]	:	Symbol for molar concentration
n_2	:	Mole fraction of dioxan
γ	:	Activity coefficient of a species in solution
$\gamma_{\pm}$	:	Mean stoichiometric coefficients of a species in solution
K_a	:	Thermodynamic ionization constant
$\text{p}K_a$	:	$-\log K_a$
$\text{p}K_w$	:	$-\log K_w$
U_H	:	$\text{Antilog } (-B)/[H^+]$
$\log U_H^\circ$	:	Correction factor for glass electrode at zero ionic strength

B	:	pH meter reading in mixed aqueous media
T	:	Absolute temperature on Kelvin scale ice point 273.15°K
R	:	Gas constant, $1.9872\text{ Cal}^{\circ}\text{C}^{-1}\text{mol}^{-1}$
ΔG°	:	Standard free energy in Joules
ΔH°	:	Standard enthalpy
ΔS°	:	Standard entropy
δ	:	Parts per million
r	:	Radius of a spherical ion
N	:	Avogadro number
nm	:	Nanometer
TGA	:	Thermogravimetric analysis
DTA	:	Differential thermal analysis
M^+	:	Molecular ion