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LIST OF ABBREVIATIONS

α	Alpha
ϵ	Molar extinction coefficient
$\mu\text{g/ml}$	Microgram per milli liter
P_{ka}	Ionisation constant
λ_{max}	Maximum wavelength
ACINH	α -Amyl Cinnamaldehyde Isonicotinoyl Hydrazone
Hg (II)	Mercury (II) ion
Cd (II)	Cadmium (II) ion
HCl	Hydrochloric acid
IR	Infra red
NMR	Nuclear magnetic resonance
RSD	Relative standard deviation
[Hg (II)-ACINH]	Complex of Mercury (II) and the reagent ACINH
[Cd (II)-ACINH]	Complex of Cadmium (II) and the reagent ACINH
pH	Negative logarithmic value of hydrogen ion concentration.