



Performance

Measuring range :	1 – 20 mg/l
Sampling time :	5 minutes
Detecting limit :	0.5 mg/l
Colour change :	Pale orange → Bluish purple
Corrections for water temperature :	Unnecessary (0 – 35°C)
pH value :	pH 4.5 – pH 8.0
Relative standard deviation :	15 % (for 1 to 5 mg/l) 10 % (for 5 to 20 mg/l)
Shelf life :	3 years

Reaction principle

Hg + PAN (indicator) → Complex compound

Possible coexisting substances and their interferences (NOTE : Page 2-5)

Substance	Concentration	Interference	Changes colour by itself to
Fe ²⁺	≧ 0.5 mg/l	–	Reddish purple (≧ 0.5 mg/l)
Fe ³⁺	≧ 1 mg/l	–	No (≧ 100 mg/l)
Cu	≧ 0.5 mg/l	+	Reddish purple (≧ 0.5 mg/l)
Zn	≧ 0.5 mg/l	+	Purple (≧ 0.2 mg/l)
Mn	≧ 1 mg/l	+	Bluish purple (≧ 1 mg/l)
Al	≧ 0.5 mg/l	+	No (≧ 100 mg/l)
Ni	≧ 0.3 mg/l	+	Purple (≧ 0.3 mg/l)
Co	≧ 0.2 mg/l	+	Purple (≧ 0.2 mg/l)

Calibration method

Mercury standard solution