



Performance

Measuring range :	(5) – 50 mg/l
Sampling time :	3 minutes
Detecting limit :	5 mg/l
Colour change :	White → Red
Corrections for water temperature :	Unnecessary (5 – 30°C)
pH value :	pH 3.5 – pH 8.0
Relative standard deviation :	15 % (for 5 to 10 mg/l) 10 % (for 10 to 50 mg/l)
Shelf life :	3 years

Reaction principle

Ni + Dimethyl glyoxime (White) → Complex compound (Red)

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

Substance	Concentration	Interference	Changes colour by itself to
Zn	≥ 20 mg/l	–	No (≤ 1000 mg/l)
Al	≥ 30 mg/l	–	No (≤ 1000 mg/l)
Co	≥ 3 mg/l	+	Greenish brown (≥ 20 mg/l)
CN ⁻	≥ 10 mg/l	–	No (≤ 100 mg/l)
Fe ²⁺	≥ 5 mg/l	+	Brown (≥ 60 mg/l)
Fe ³⁺	≥ 100 mg/l	–	No (≤ 1000 mg/l)
Cu	≥ 5 mg/l	+	Reddish brown / yellowish Green (≥ 50 mg/l)

Calibration method

Nickel standard solution