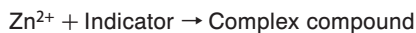


Performance

Measuring range	3 to 20 mg/l
Sampling time	3 min
Detecting limit :	0.5 mg/l
Colour change :	Pale orange → Reddish purple
Corrections for water temperature :	Necessary
pH value :	pH 3.0 to pH 6.0
Relative standard deviation :	15 % (for 3 to 5 mg/l), 10 % (for 5 to 20 mg/l)
Shelf life :	3 years

Reaction principle



Possible coexisting substances and their interferences

Substance		Concentration	Interference	Changes colour by itself to
Cyanide ion	CN^{-}	≥ 10 mg/l	+	No (≤ 100 mg/l)
Iron(II)	Fe^{2+}	≥ 1 mg/l	+	Reddish purple (≥ 3 mg/l)
Iron(III)	Fe^{3+}	≥ 2 mg/l	+	No (≤ 100 mg/l)
Nickel	Ni^{2+}	≥ 2 mg/l	+	Purple (whole layer) (≥ 2 mg/l)
Copper(II)	Cu^{2+}	≥ 0.1 mg/l	+	Reddish purple (≥ 0.1 mg/l)
Manganese	Mn^{2+}	≥ 0.5 mg/l	+	Purple (≥ 3 mg/l)
Lead	Pb^{2+}	≥ 0.5 mg/l	+	No (≤ 100 mg/l)

Calibration method

Zinc standard solution