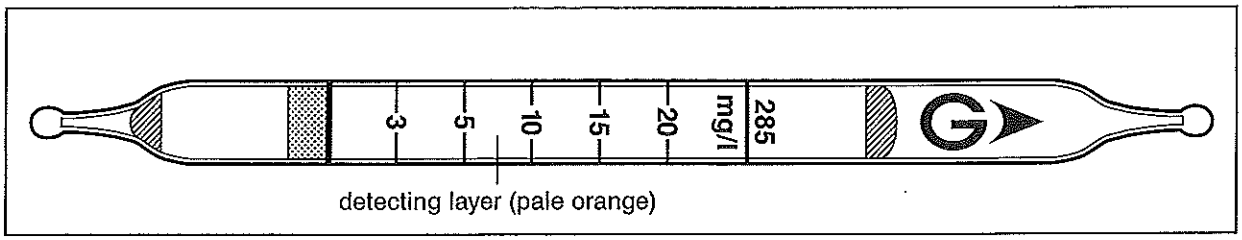
Zinc Zn

No.285



Performance

Measuring range :	3 – 20 mg/l
Sampling time :	3 minutes
Detecting limit :	0.5 mg/l
Colour change :	Pale orange → Reddish purple
Corrections for water temperature :	Necessary
pH value :	pH 3.0 – 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

Zn + Indicator → Complex compound (Reddish purple)

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

Substance	Concentration	Interference	Changes colour by itself to
CN^-	≧ 10 mg/l	+	No (≦ 100 mg/l)
Fe^{2+}	≧ 1 mg/l	+	Reddish purple (≧ 3 mg/l)
Fe^{3+}	≧ 2 mg/l	+	No (≦ 100 mg/l)
Ni	≧ 2 mg/l	+	Purple(whole layer) (≧ 2 mg/l)
Cu	≧ 0.1 mg/l	+	Reddish purple (≧ 0.1 mg/l)
Mn	≧ 0.5 mg/l	+	Purple (≧ 3 mg/l)
Pb	≧ 0.5 mg/l	+	No (≦ 100 mg/l)

Calibration method

Zinc standard solution