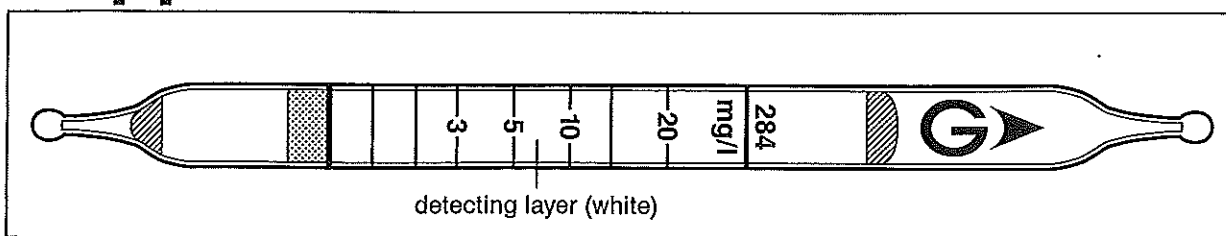


Copper Ion Cu^{2+}

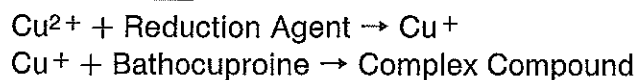
No.284



Performance

Measuring range :	(1) – 20 mg/l
Sampling time :	5 minutes
Detecting limit :	0.5 mg/l
Colour change :	White → Orange
Corrections for water temperature :	Unnecessary (0 – 35°C)
pH value :	pH 4.0 – pH 6.0
Relative standard deviation :	15 % (for 1 to 5 mg/l) 10 % (for 5 to 20 mg/l)
Shelf life :	2 years (in the refrigerator)

Reaction principle



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

Substance	Concentration	Interference	Changes colour by itself to
Zn	≥ 5 mg/l	+	No (≤ 100 mg/l)
Al	≥ 50 mg/l	+	No (≤ 100 mg/l)
Cr^{6+}	≤ 100 mg/l	No	Pale yellow (≥ 100 mg/l)
Co	≤ 100 mg/l	No	No (≤ 100 mg/l)
CN^-	≥ 0.2 mg/l	-	No (≤ 100 mg/l)
Fe	≤ 100 mg/l	No	No (≤ 100 mg/l)
Ni	≥ 70 mg/l	+	No (≤ 100 mg/l)
Mn	≥ 30 mg/l	+	No (≤ 100 mg/l)

Calibration method

Copper Ion standard solution