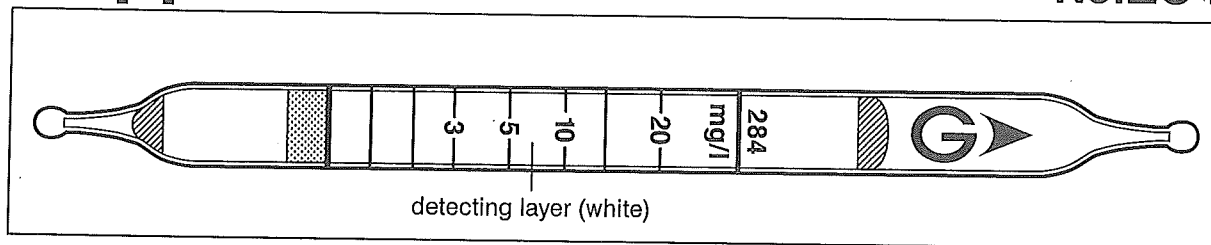


# Copper Ion $\text{Cu}^{2+}$

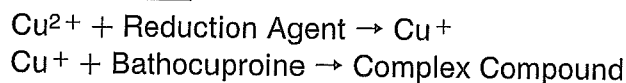
No.284



## 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	$\geq 5$ mg/l	+	No ( $\leq 100$ mg/l)
Al	$\geq 50$ mg/l	+	No ( $\leq 100$ mg/l)
$\text{Cr}^{6+}$	$\geq 100$ mg/l	No	Pale yellow ( $\geq 100$ mg/l)
Co	$\geq 100$ mg/l	No	No ( $\leq 100$ mg/l)
$\text{CN}^-$	$\geq 0.2$ mg/l	-	No ( $\leq 100$ mg/l)
Fe	$\geq 100$ mg/l	No	No ( $\leq 100$ mg/l)
Ni	$\geq 70$ mg/l	+	No ( $\leq 100$ mg/l)
Mn	$\geq 30$ mg/l	+	No ( $\leq 100$ mg/l)

## Calibration method

Copper Ion standard solution