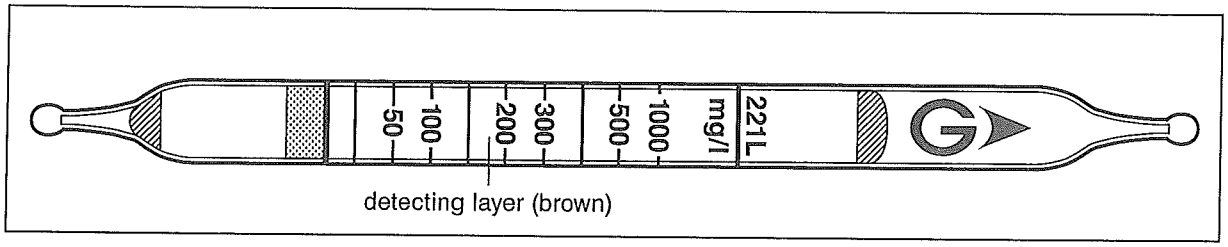
Chloride Ion Cl^- No.221L



Performance

Measuring range :	25 to 1000 mg/l
Sampling time :	3 minutes
Detecting limit :	1 mg/l
Colour change :	Brown → White
Corrections for water temperature :	Unnecessary (0 – 50°C)
pH value :	pH 3.0 – pH 11.0
Relative standard deviation :	15 % (for 25 to 300 mg/l) 10 % (for 300 to 1000 mg/l)
Shelf life :	3 years

Reaction principle

$2Cl^- + Ag_2CrO_4$ (Brown) → 2AgCl (White)

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

Substance	Concentration	Interference	Changes colour by itself to
CN^-	≧ 1 mg/l	+	White
Br^-	≧ 10 mg/l	+	White
SCN^-	≧ 30 mg/l	+	White
Fe^{2+}	≧ 200 mg/l	–	No (≦ 1000 mg/l)
Fe^{3+}	≧ 200 mg/l	–	White
F^-	≧ 500 mg/l	–	No (≦ 1000 mg/l)
I^-	≧ 50 mg/l	+	White
S^{2-}	≧ 5 mg/l	+	Blackish gray
SO_4^{2-}	≧ 2000 mg/l	–	White

Other substance measurable with this detector tube

Substance	Correction	Measuring range
Br^-	Factor : 2.2	55 to 2200 mg/l

Calibration method

Sodium chloride standard solution