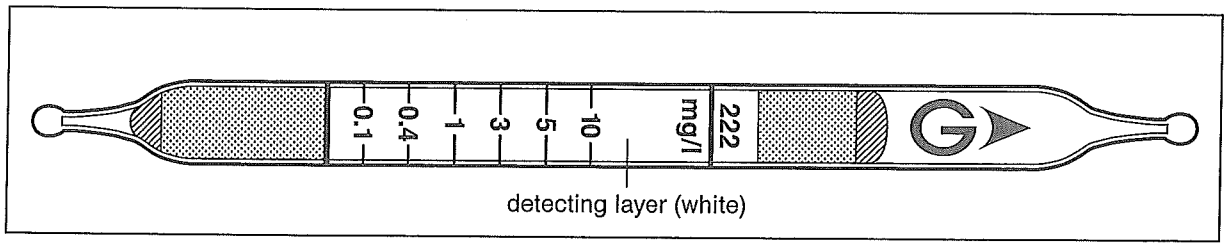
Free Residual Chlorine ClO^- No.222



Performance

Measuring range :	0.1 — 10 mg/l
Sampling time :	4 minutes
Detecting limit :	0.05 mg/l
Colour change :	White → Reddish Orange
Corrections for water temperature :	Unnecessary (5 — 40°C)
pH value :	pH 4.0 — pH 10.0
Relative standard deviation :	15 % (for 0.1 to 1 mg/l) 10 % (for 1 to 10 mg/l)
Shelf life :	2 years

Reaction principle

Free Chlorine + 3,3',5,5'-Tetramethylbezizine → Reddish Orange reaction product

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

Substance	Concentration	Interference	Changes colour by itself to
NO_2^-	≧ 0.3 mg/l	—	No
NH^{4+}	≧ 0.1 mg/l	—	No
Cl^-	≧ 30 mg/l	—	No
NO^{3-}	≧ 50 mg/l	—	No
SO_4^{2-}	≧ 30 mg/l	—	No
PO_4^{3-}	≧ 20 mg/l	—	No

Calibration method

Free Residual Chlorine solution