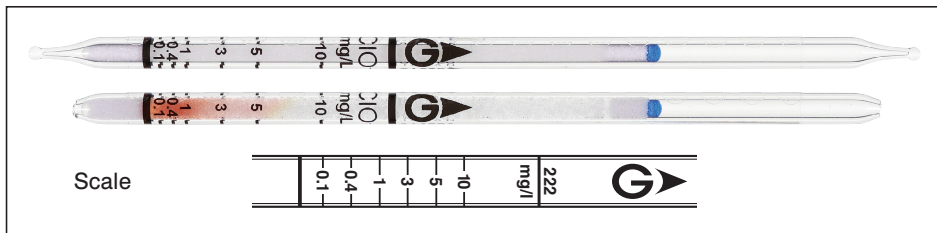


Free Residual Chlorine ClO^- No.222



Performance

Measuring range	0.1 to 10 mg/L
Sampling time	4 min
Detecting limit :	0.05 mg/L
Colour change :	White → Reddish orange
Operating conditions :	Water temperature 5 to 40 °C (41 to 104 °F) correction not used
pH value :	pH 4.0 to pH 10.0
Relative standard deviation :	15 % (for 0.1 to 1 mg/L), 10 % (for 1 to 10 mg/L)
Tube quantity and number of tests per box :	10 tubes for 10 tests
Shelf life :	30 months

Reaction principle

Free Chlorine + 3,3',5,5'-Tetramethylbenzidine → Reddish orange product

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Nitrite ion NO_2^-	≧ 0.3 mg/L	—	No
Ammonium ion NH_4^+	≧ 0.1 mg/L	—	No
Chloride ion Cl^-	≧ 30 mg/L	—	No
Nitrate ion NO_3^-	≧ 50 mg/L	—	No
Sulphate ion SO_4^{2-}	≧ 30 mg/L	—	No
Phosphate ion PO_4^{3-}	≧ 20 mg/L	—	No

Calibration method

Free Residual Chlorine solution