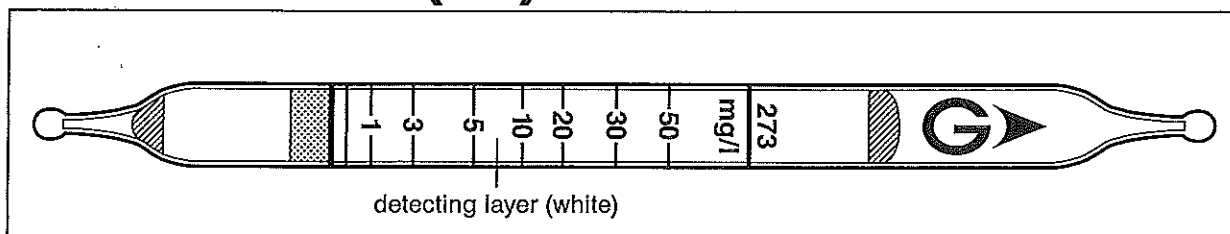


Chromium (VI) Ion Cr^{6+}

No.273



Performance

Measuring range :	(0.5) – 50 mg/l
Sampling time :	2 minutes
Detecting limit :	0.4 mg/l
Colour change :	White → Yellow
Corrections for water temperature :	Necessary
pH value :	pH 4.0 – pH 11.0
Relative standard deviation :	15 % (for 0.5 to 10 mg/l) 10 % (for 10 to 50 mg/l)
Shelf life :	3 years

Reaction principle



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

Substance	Concentration	Interference	Changes colour by itself to
Cl^-	≥ 20 mg/l	+	No
CH_3COO^-	≥ 20 mg/l	+	No
NO_3^-	≥ 30 mg/l	+	No
S^{2-}	≥ 0.5 mg/l	Unclear	Brown (≥ 0.5 mg/l)
SO_4^{2-}	≥ 10 mg/l	+	No
PO_4^{3-}	≥ 5 mg/l	+	No

Calibration method

Chromium(VI) Ion standard solution