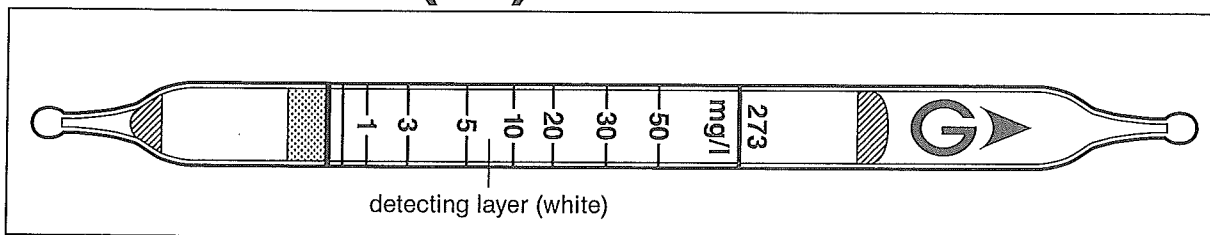


# Chromium (VI) Ion Cr<sup>6+</sup>

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 <sup>-</sup>	≧ 20 mg/l	+	No
CH <sub>3</sub> COO <sup>-</sup>	≧ 20 mg/l	+	No
NO <sub>3</sub> <sup>-</sup>	≧ 30 mg/l	+	No
S <sup>2-</sup>	≧ 0.5 mg/l	Unclear	Brown (≧ 0.5 mg/l)
SO <sub>4</sub> <sup>2-</sup>	≧ 10 mg/l	+	No
PO <sub>4</sub> <sup>3-</sup>	≧ 5 mg/l	+	No

## Calibration method

Chromium(VI) Ion standard solution