

**Performance**

Measuring Range	0.5 to 50 mg/l
Sampling Time	2 minutes
Detecting Limit	0.4 mg/l
Colour Change	White \longrightarrow Yellow
Reaction Principle	$\text{Cr}^{6+} + \text{Pb}(\text{CH}_3\text{COO})_2 \longrightarrow \text{PbCrO}_4$
Coefficient of Variation	15% (for 0.5 to 10 mg/l), 10% (for 10 to 50 mg/l)
Shelf Life	3 Years
Corrections for temperature & humidity	Temperature correction is necessary
Store the tubes at cool and dark place.	

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Cl^-	≥ 20 mg/l	Plus error	No discoloration
CH_3COO^-	≥ 20 mg/l	Plus error	No discoloration
NO_3^-	≥ 30 mg/l	Plus error	No discoloration
S_2^-	≥ 0.5 mg/l	Unclear error	Brown (≥ 0.5 mg/l)
SO_4^{2-}	≥ 10 mg/l	Plus error	No discoloration
PO_4^{3-}	≥ 5 mg/l	Plus error	No discoloration

Calibration gas generation Chromium (VI) Ion standard solution

TLV-TWA	TLV-STEL	Explosive range
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