

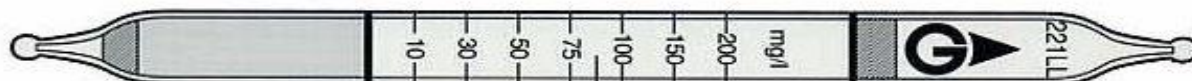


The people with the solutions that protect you and your environment everyday

Gastec Tube Datasheet

Chloride Ion Cl⁻

NO.GAS221LL



Performance

Measuring Range	10 to 200 mg/l
Sampling Time	3 minutes
Detecting Limit	3 mg/l
Colour Change	Brown → White
Reaction Principle	$2\text{Cl}^- + \text{Ag}_2\text{CrO}_4 \text{ (Brown)} \longrightarrow 2\text{AgCl} \text{ (White)} + \text{CrO}_4^{2-}$
Coefficient of Variation	15% (for 10 to 50 mg/l), 10% (for 50 to 200 mg/l)
Shelf Life	Up to 3 Years
Corrections for temperature & humidity	Unnecessary
Store the tubes at cool and dark place.	

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
CN ⁻	≥10 mg/l	Plus error	White discoloration (≥1 mg/l)
Br ⁻	≥10 mg/l	Plus error	White discoloration (≥10 mg/l)
SCN ⁻	≥1 mg/l	Plus error	White discoloration (≥100 mg/l)
Fe ²⁺	≥20 mg/l	Minus error	No discoloration (≤1000 mg/l)
Fe ³⁺	≥20 mg/l	Plus error	White discoloration (≥20 mg/l)
F ⁻	≥1000 mg/l	No error	No discoloration (≤1000 mg/l)
I ⁻	≥20 mg/l	Plus error	Pale yellow discoloration (≥20 mg/l)
S ²⁻	≥3 mg/l	Plus error	Blackish grey discoloration (≥3 mg/l)
SO ₄ ²⁻	≥1000mg/l	No error	No discoloration (≤1000 mg/l)

Calibration gas generation Sodium Chloride standard solution

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