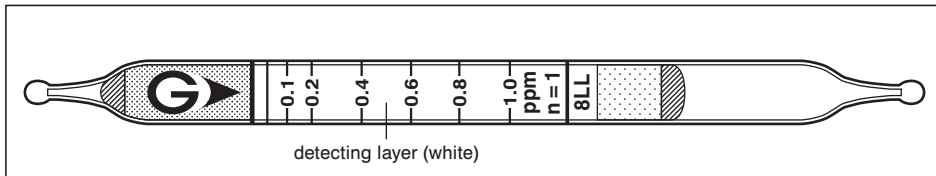


# Chlorine $\text{Cl}_2$

No.8LL



**Performance** The minimum scale value (0.05ppm) is not printed on the tube, but only the scale line is printed.

Measuring range	0.025 to 0.05 ppm	(0.05) to 1.0 ppm	1.0 to 2.0ppm
Number of pump strokes	2 (200ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	0.5	1	2
Sampling time	4 min	2 min	1 min

Detecting limit : 0.005 ppm (2 pump strokes)

Colour change : White → Pale green

Corrections for temperature & humidity : Unnecessary

Relative standard deviation : 10 % (for 0.05 to 0.2 ppm), 5 % (for 0.2 to 1.0 ppm)

Shelf life : 1 year (in the refrigerator)

## Reaction principle

$\text{Cl}_2 + \text{ABTS (White)} \rightarrow \text{Pale green product}$

## Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Ammonia		No	No
Carbon monoxide		No	
Carbon dioxide		No	
Hydrogen chlorine		No	
Nitrogen dioxide		+	Pale green
Chlorine dioxide		+	
Halogen gas(ex. Chlorine)		+	
Sulphur dioxide		No	No

## Calibration gas generation

Permeation tube method