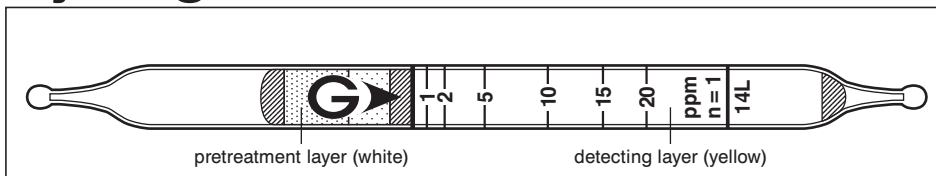


Hydrogen Chloride HCl

No.14L



Performance

Measuring range	0.2 to 1 ppm	1 to 20 ppm	20 to 76 ppm
Number of pump strokes	2 to 5 (200 to 500ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	1/2 to 1/5	1	3.8
Sampling time	1.5 to 3.75 min	45 sec	30 sec

Detecting limit : 0.05 ppm (5 pump strokes)

Colour change : Yellow → Pink

Corrections for temperature & humidity : Unnecessary

Relative standard deviation : 10 % (for 1 to 5 ppm), 5 % (for 5 to 20 ppm)

Shelf life : 3 years

Reaction principle

HCl + Base → Chloride

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Chlorine	$\geq 1/2$	+	} Pink
Hydrogen fluoride	> 600 ppm	+	
Nitric acid	$\geq 1/10$	+	
Nitrogen dioxide	≥ 5 times	+	
Sulphur dioxide	≥ 10 times	+	

Water vapour and up to 600 ppm of hydrogen fluoride are trapped in the pretreatment (white) layer.

Calibration gas generation

High pressure gas cylinder method