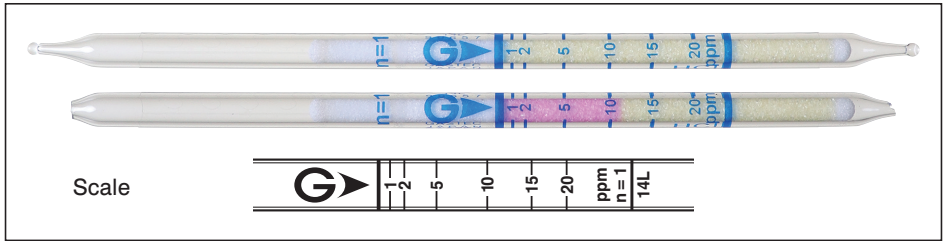


Hydrogen Chloride HCl

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
Operating conditions :	Temperature 0 to 40 °C (32 to 104 °F) correction not used Relative humidity 0 to 90 % correction not used
Relative standard deviation :	10 % (for 1 to 5 ppm), 5 % (for 5 to 20 ppm)
Tube quantity and number of tests per box :	10 tubes for 10 tests
Shelf life :	36 months

Reaction principle



Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Chlorine	≧ 1/2	+	} Pink
Hydrogen fluoride	> 600 ppm	+	
Nitric acid	≧ 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