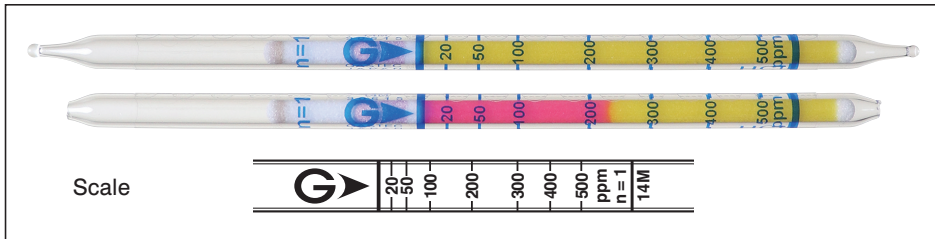


Hydrogen Chloride HCl

No.14M

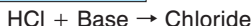


Performance

Measuring range	10 to 20 ppm	20 to 500 ppm	500 to 1000 ppm
Number of pump strokes	2 (200 mL)	1 (100 mL)	1/2 (50 mL)
Correction factor	1/2	1	2
Sampling time	1.5 min	45 sec	30 sec

Detecting limit :	2.5 ppm (2 pump strokes)
Colour change :	Yellow → Red
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 20 to 100 ppm) , 5 % (for 100 to 500 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
Hydrogen fluoride	≧ 600 ppm	No	Red (≧ 600 ppm)
Nitric acid	≧ 1/10	+	Red
Nitrogen dioxide	≧ 1/2	No	Red (≧ 500 ppm)

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