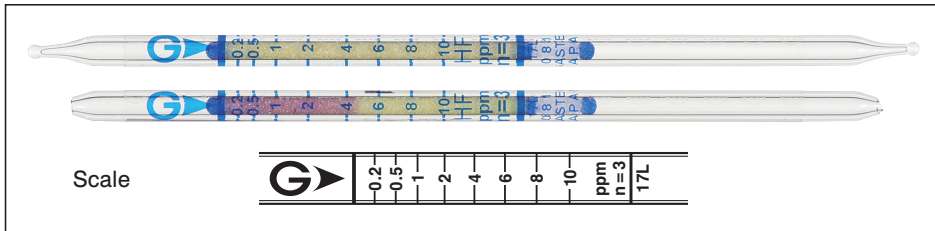


Hydrogen Fluoride HF

No.17L



Performance

Measuring range	0.09 to 0.2 ppm	0.2 to 10 ppm	10 to 72 ppm
Number of pump strokes	5 (500 mL)	3 (300 mL)	1 (100 mL)
Correction factor	0.45	1	7.2
Sampling time	5 min	3 min	1 min

Detecting limit :	0.05 ppm (5 pump strokes)
Colour change :	Yellow → Brown
Operating conditions :	Temperature 0 to 40 °C (32 to 104 °F) correction not used Relative humidity 30 to 80 % correction used
Relative standard deviation :	10 % (for 0.2 to 2 ppm), 5 % (for 2 to 10 ppm)
Tube quantity and number of tests per box :	10 tubes for 10 tests
Shelf life :	30 months

Reaction principle

HF + Indicator → Reaction product

Possible coexisting substances and their interferences

Substance	Concentration:	Interference	Changes colour by itself to
Nitric acid	≧ 1/5	+	Reddish purple
Hydrogen chloride	≧ 1/2	+	Reddish purple
Nitrogen dioxide		No	No

Calibration gas generation

Permeation tube method