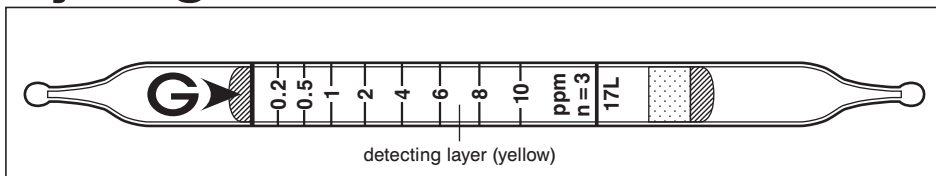


Hydrogen Fluoride HF

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

Corrections for temperature & humidity : humidity correction is necessary.

Relative standard deviation : 10 % (for 0.2 to 2 ppm), 5 % (for 2 to 10 ppm)

Shelf life : 2 years

Reaction principle

Hydrogen fluoride reacts with indicator to produce reddish brown stain.

Possible coexisting substances and their interferences

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

Calibration gas generation

Permeation tube method