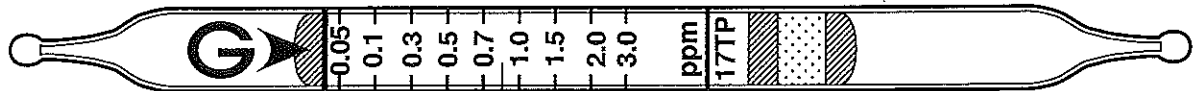


Detector tube

Hydrogen Fluoride HF No.17TP



detecting layer (yellow)

Performance

Measuring range	0.05 to 3.0 ppm	3.0 to 9.0 ppm
Sampling Rate	100 ml/min (1000ml)	50 ml/min (500ml)
Correction factor	1	3.0
Sampling time	10 min	10 min

Detecting limit : 0.025 ppm (1000 ml)

Colour change : Yellow → Brown

Corrections for temperature : Necessary for 10 to 35 °C

Corrections for humidity : Necessary for R.H.20 to 80 %

Relative standard deviation : 10% (for 0.05 to 1.0 ppm), 5% (for 1.0 to 3.0 ppm)

Shelf life : 2 years

Reaction principle

HF + Indicator → Reaction Product

Possible coexisting substances and their interferences (NOTE : Page 2-5)

Substance	Concentration	Interference	Changes colour by itself to
Nitric acid	≧ 0.5 ppm	+	Pale reddish violet
Hydrogen chloride	≧ 0.1 ppm	+	Reddish violet
Hydrogen peroxide	10 ppm	No	No

Calibration gas generation

Permeation tube method

TLV-TWA : 0.5 ppm

TLV-STEL : C 2 ppm