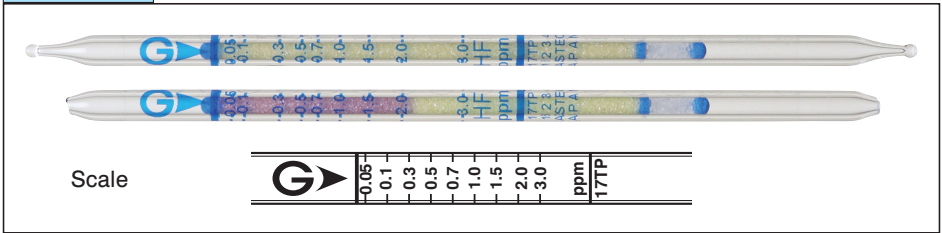


Detector tube

Hydrogen Fluoride HF No.17TP



Performance

Measuring range	0.05 to 3.0 ppm	3.0 to 9.0 ppm
Sampling rate	100 mL/min (1000 mL)	50 mL/min (500 mL)
Correction factor	1	3.0
Sampling time	10 min	10 min
Detecting limit :	0.025 ppm (1000 mL)	
Colour change :	Yellow → Brown	
Operating conditions :	Temperature 10 to 35 °C (50 to 95 °F) correction used Relative humidity 20 to 80 % correction used	
Relative standard deviation :	10 % (for 0.05 to 1.0 ppm), 5 % (for 1.0 to 3.0 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	≧ 0.5 ppm	+	Pale reddish purple
Hydrogen chloride	≧ 0.1 ppm	+	Reddish purple
Hydrogen peroxide	≧ 10 ppm	No	No

Calibration gas generation

Permeation tube method