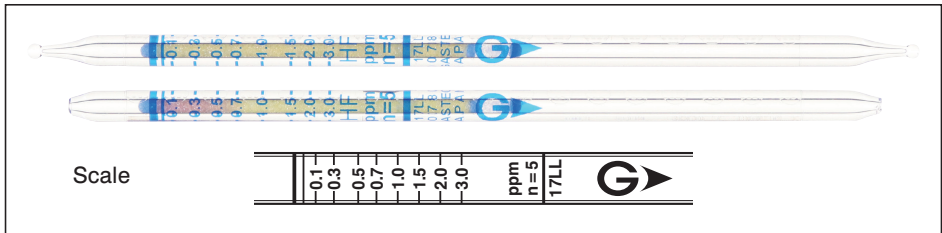


Hydrogen Fluoride HF

No.17LL



Performance The minimum scale value (0.05ppm) is not printed on the tube, but only the scale line is printed.

| | | | |
|------------------------|-------------------|----------------|---------------|
| Measuring range | (0.05) to 3.0 ppm | 3.0 to 6.9 ppm | 6.9 to 24 ppm |
| Number of pump strokes | 5 (500 mL) | 3 (300 mL) | 1 (100 mL) |
| Correction factor | 1 | 2.3 | 8.0 |
| Sampling time | 5 min | 3 min | 1 min |

Detecting limit : 0.025 ppm (5 pump strokes)

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 : 24 months

Reaction principle

HF + Indicator → Reaction product

Possible coexisting substances and their interferences

| Substance | Concentration | Interference | Changes colour by itself to |
|-------------------|---------------|--------------|-----------------------------|
| Nitric acid | ≧ 1.0 ppm | + | Pale reddish purple |
| Hydrogen chloride | ≧ 0.1 ppm | + | Reddish purple |
| Hydrogen peroxide | 10 ppm | No | No |

Calibration gas generation

Permeation tube method