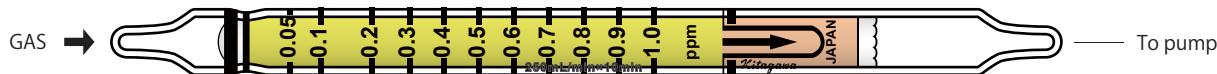


Tube No.  
770

# HYDROGEN FULORIDE



## 1. PERFORMANCE

- |                             |   |
|-----------------------------|---|
| 1) Measuring range          | : 0.05-1.0 ppm  |
| 2) Sampling time            | : 250mL/min × 10 min  |
| 3) Detectable limit         | : 0.02 ppm  |
| 4) Shelf life               | : 2 years   |
| 5) Operating temperature    | : 10 ~ 35 °C  |
| 6) Temperature compensation | : Necessary (See "TEMPERATURE CORRECTION TABLE")                                |
| 7) Operating humidity       | : 20 ~ 80%R.H. (Humidity correction is necessary.)                              |
| 8) Reading                  | : Direct reading from the scale calibrated at the sampling of 250mL/min x 10min |
| 9) Colour change            | : Yellow → Pink   |

## 2. RELATIVE STANDARD DEVIATION

RSD-low : 10% RSD-mid. : 10% RSD-high : 10%

## 3. CHEMICAL REACTION

PH indicator is discoloured by Hydrogen fluoride.

## 4. CALIBRATION OF THE TUBE

ABSORPTIOMETRIC METHOD

## 5. INTERFERENCE AND CROSS SENSITIVITY

Substance	ppm	Interference
Hydrogen chloride	0.1	Higher readings are given.
Nitric acid	0.1	//
Sulphuric acid	0.5mg/m³	//

(NOTE)

Air sampler is required for this tube.

TEMPERATURE/HUMIDITY CORRECTION TABLE

Relative Humidity (%)	Temperature					
	10°C (50°F)	15°C (59°F)	20°C (68°F)	25°C (77°F)	30°C (86°F)	35°C (95°F)
20	0.79	0.74	0.70	0.66	0.62	0.59
30	0.90	0.85	0.80	0.75	0.69	0.64
40	1.02	0.96	0.90	0.84	0.78	0.72
50	1.17	1.09	1.00	0.94	0.87	0.81
60	1.40	1.31	1.21	1.10	0.99	0.88
70	1.66	1.53	1.40	1.26	1.12	0.98
75	2.00	1.85	1.69	1.50	1.30	1.07
80	-	2.86	2.52	2.13	1.71	1.25

Actual concentration = Reading value × Correction factor for temperature and humidity