

**Performance**

Measuring range 1 to 100 ppm

Sampling time 1 to 10 hours

Colour change : Yellow → Purple

Corrections for temperature & humidity : Temperature correction is necessary.
Humidity correction is necessary.

Relative standard deviation : 10 % (for 10 to 100 ppm · hr)

Shelf life : 3 years

Reaction principle

$\text{HCl} + \text{Base} \rightarrow \text{Chloride}$

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Chlorine	$\geq 1/5$	+	Bleaches zero zone
Nitric acid	$\geq 1/5$	+	} Purple
Hydrogen fluoride	$\geq 1/1$	+	

Other substances measurable with this Dosi-tube

Substance	Correction	Sampling time	Measuring range
Hydrogen fluoride	Factor : 2.5	} 1 to 10 hours	2.5 to 250 ppm
Nitric acid	Factor : 0.8		0.8 to 80 ppm

Calibration gas generation

Diffusion tube method