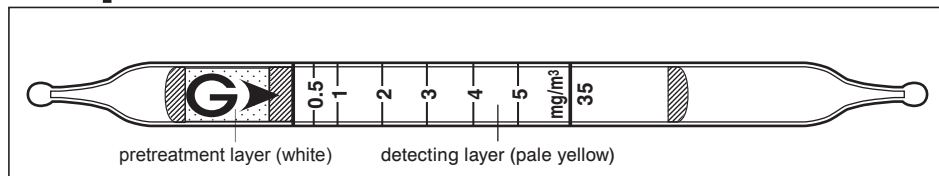


Sulphuric Acid H_2SO_4

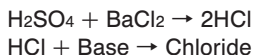
No.35



Performance

Measuring range	0.5 to 5 mg/m^3
Number of pump strokes	5 (500 ml)
Correction factor	1
Sampling time	5 min
Detecting limit :	0.2 mg/m^3 (5 pump strokes)
Colour change :	Pale yellow \rightarrow Reddish purple
Corrections for temperature & humidity :	Temperature correction is necessary.
Relative standard deviation :	10 % (for 0.5 to 2 mg/m^3), 5 % (for 2 to 5 mg/m^3)
Shelf life :	2 years

Reaction principle



Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Hydrogen chloride	$\geq 0.05\text{ppm}$	+	} Reddish purple
Chlorine	$\geq 1.5\text{ppm}$	+	
Sulphur dioxide		No	No
Nitrogen dioxide	$\geq 4 \text{ ppm}$	+	} Reddish purple
Hydrogen fluoride	$\geq 0.5 \text{ ppm}$	+	

Calibration gas generation

Bubbling method