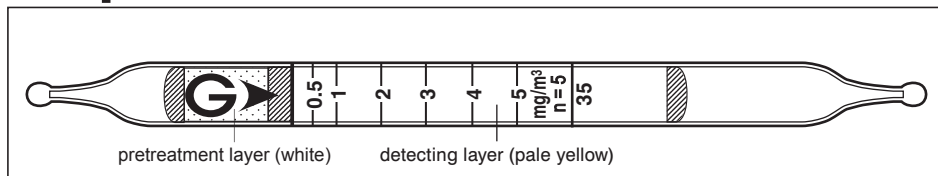


Sulphuric Acid H_2SO_4

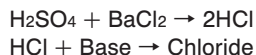
No.35



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 → 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	≥ 0.05 ppm	+	} Reddish purple
Chlorine	≥ 1.5 ppm	+	
Sulphur dioxide		No	} No
Nitrogen dioxide	≥ 4 ppm	+	} Reddish purple
Hydrogen fluoride	≥ 0.5 ppm	+	

Calibration gas generation

Bubbling method