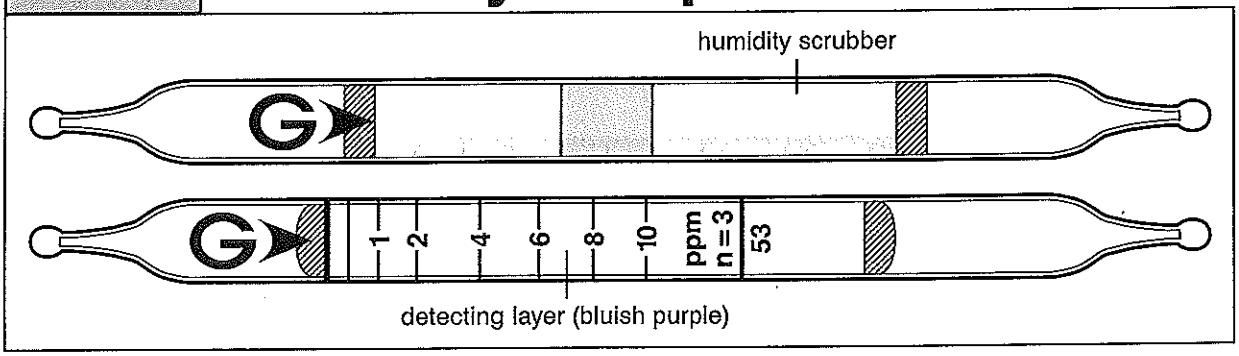
Pyrotube

Dimethyl Sulphide $(CH_3)_2S$ No.53



Performance

Measuring range	0.25 to 0.5 ppm	(0.5) to 10 ppm
Number of pump strokes	5 (500 ml)	3 (300 ml)
Correction factor	0.5	1
Sampling time	10 min	6 min

Detecting limit : 0.2 ppm (5 pump strokes)
Colour change : Bluish purple → White
Corrections for temperature & humidity : Temperature correction is necessary
Shelf life : 2 years

Reaction principle

Pyrotec : $(CH_3)_2S \xrightarrow{\text{(Pyrolyzing)}} SO_2$
Pyrotube : $SO_2 + I_2 + 2H_2O \rightarrow 2HI + H_2SO_4$

Possible coexisting substances and their interferences (NOTE : Page 2-5)

Substance	Concentration	Interference	Changes colour by itself to
Hydrogen sulphide	≧ 70 ppm	+	White
Methyl mercaptan	≧ 40 ppm	+	
Sulphur dioxide		+	

Substance measurable with this Pyrotube

Substance	n	Correction factor	Measuring range
Dimethyl disulphide	3	0.6	0.3 to 6 ppm

Calibration gas generation

Permeation tube method