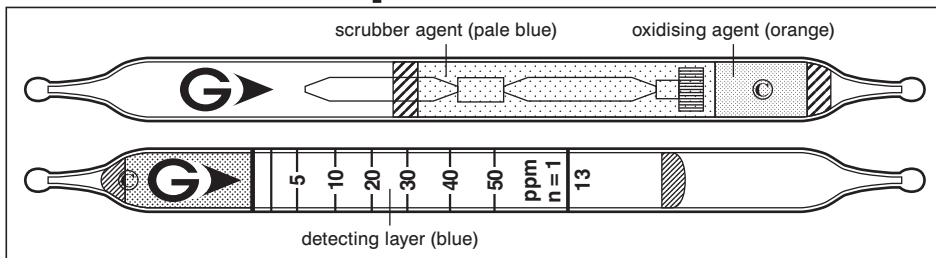


Carbon Disulphide CS₂

No.13



When used, these tubes are to be connected.

Performance The minimum scale value (2.5ppm) is not printed on the tube, but only the scale line is printed.

Measuring range	0.63 to 1.25ppm	1.25 to 2.5ppm	(2.5) to 50 ppm	50 to 100 ppm
Number of pump strokes	4 (400 ml)	2 (200 ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	1/4	1/2	1	2
Sampling time	12 min	6 min	3 min	1.5 min

Detecting limit : 0.3 ppm (4 pump strokes)

Colour change : Blue → Yellow

Corrections for temperature & humidity : Temperature correction is necessary.

Relative standard deviation : 10 % (for 2.5 to 10 ppm), 5 % (for 10 to 50 ppm)

Shelf life : 3 years

Reaction principle

Pretreatment tube : $CS_2 + CrO_3 + H_2S_2O_7 \rightarrow SO_2 + CO_2$

Detector tube : $SO_2 + BaCl_2 + H_2O \rightarrow BaSO_3 + 2HCl$

$HCl + Base \rightarrow Chloride$

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Sulphur dioxide	$\geq 1/5$	+	Yellow
Ammonia		No	No
Hydrogen cyanide	≤ 200 ppm	No	No

Hydrogen Sulphide is trapped in the pretreatment layer.

Calibration gas generation

Diffusion tube method