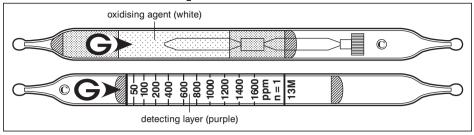
Carbon Disulphide CS2

No.13M



Performance

When used, these tubes are to be connected.

Measuring range	20 to 50 ppm	50 to 1600 ppm	1600 to 4000 ppm
Number of pump strokes	2 (200 ml)	1(100 ml)	1/2(50 ml)
Correction factor	0.4	1	2.5
Sampling time	3 min	1.5 min	45 sec

Detecting limit: 10 ppm (2 pump strokes)

Colour change : Purple → Yellow

Corrections for temperature & humidity: Temperature correction is necessary.

Relative standard deviation: 10 % (for 50 to 400 ppm), 5 % (for 400 to 1600 ppm)

Shelf life: 3 years

Reaction principle

Pretreatment tube : $CS_2 + I_2O_5 + H_2S_2O_7 \rightarrow SO_2 + CO_2$ Detector tube : $SO_2 + BaCl_2 + H_2O \rightarrow BaSO_3 + 2HCl$

HCl + Base → Chloride

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Hydrocarbons (lower class)	≥ 1000 ppm	+	
Hydrogen sulphide		+	Yellow
Carbonyl sulphide		+	
Sulphur dioxide		+	J

Up to 1000 ppm of lower class hydrocarbons are trapped in the white layer in the pretreatment tube.

Calibration gas generation

Diffusion tube method