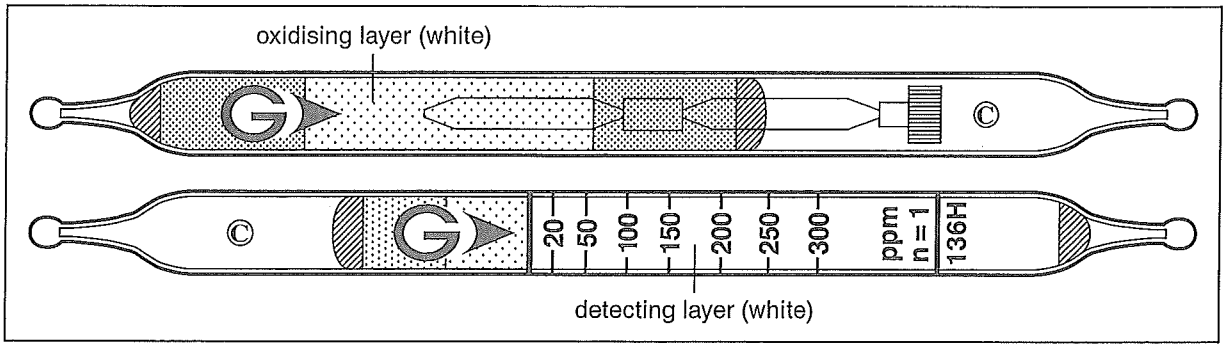
Methyl Bromide CH_3Br No.136H



Performance When used, these tubes are to be connected. See page 2-3.

Measuring range	10 to 20 ppm	20 to 300 ppm	300 to 600 ppm
Number of pump strokes	2 (200 ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	1/2	1	2
Sampling time	3 min	1.5 min	45 seconds

Detecting limit : 4 ppm (2 pump strokes)
Colour change : White → Yellow
Corrections for temperature & humidity : Unnecessary
Relative standard deviation : 10 %(for 20 to 100 ppm), 5 %(for 100 to 300 ppm)
Shelf life : 3 years

Reaction principle

Pretreatment tube : $2CH_3Br + I_2O_5 + H_2S_2O_7 \rightarrow Br_2$
Detector tube : Br_2 + o-Tolidine → Yellow product

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

Substance	Concentration	Interference	Changes colour by itself to
Bromine		+	Yellow
Chlorine		+	
Nitrogen oxides		+	
Saturated halogenated hydrocarbons		+	

Carbon tetrachloride and unsaturated halogenated hydrocarbons are trapped in the pretreatment tube.

Other substances measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
n-Butyl bromide	Factor : 1.2	1	24 to 360 ppm
1,2-Dibromoethane	Factor : 0.7	1	14 to 210 ppm
Chlorobromomethane	Factor : 0.9	1	18 to 270 ppm

Calibration gas generation

High pressure gas cylinder method

TLV-TWA : 1 ppm Explosive range : 10 to 15 %