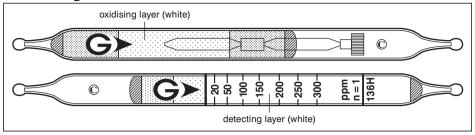
# Methyl Bromide CH3Br

No. 136H



## Performance

When used, these tubes are to be connected.

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  $\rightarrow$  Yellow product

### Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Bromine		+	)
Chlorine		+	
Nitrogen oxides		+	Yellow
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