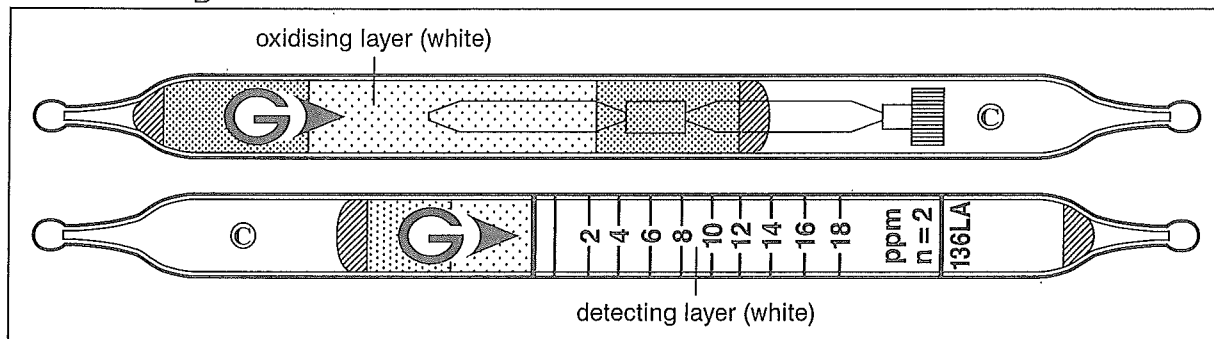


Methyl Bromide CH₃Br

No. 136LA



Performance

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

Measuring range	(1) to 18 ppm	18 to 36 ppm
Number of pump strokes	2 (200 ml)	1 (100 ml)
Correction factor	1	2
Sampling time	3 min	1.5 min

Detecting limit : 0.2 ppm (2 pump strokes)
 Colour change : White → Yellow
 Corrections for temperature & humidity : Unnecessary
 Relative standard deviation : 10 % (for 1 to 6 ppm), 5 % (for 6 to 18 ppm)
 Shelf life : 2 years

Reaction principle

Pretreatment tube : $2\text{CH}_3\text{Br} + \text{I}_2\text{O}_5 + \text{H}_2\text{S}_2\text{O}_7 \rightarrow \text{Br}_2$
 Detector tube : $\text{Br}_2 + \text{o-Tolidine} \rightarrow \text{Yellow product}$

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

Substance	Concentration	Interference	Changes colour by itself to
Halogens		+	Yellow
Halogenated hydrocarbons		+	
Nitrogen oxides		+	

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 : 1.0	2	1 to 18 ppm
n-Butyl bromide	Factor : 2.4	1	2.4 to 43.2 ppm
n-Propyl bromide	Factor : 1.0	2	1 to 18 ppm
Chloro bromomethane	Factor : 0.7	2	0.7 to 12.6 ppm

Calibration gas generation

Permeation tube method