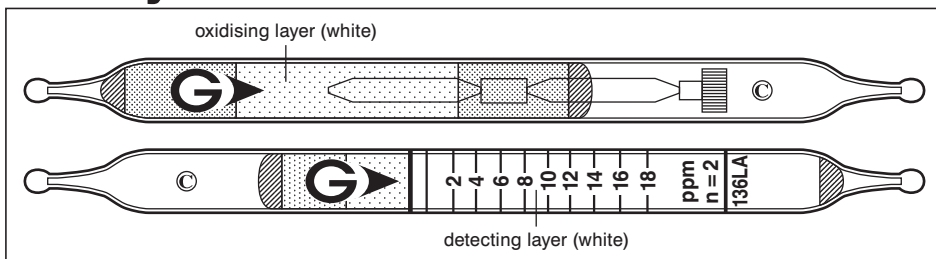


Methyl Bromide CH_3Br

No. 136LA



When used, these tubes are to be connected.

Performance The minimum scale value (1ppm) is not printed on the tube, but only the scale line is printed.

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 : $\text{Br}_2 + o\text{-Tolidine} \rightarrow \text{Yellow product}$

Possible coexisting substances and their interferences

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