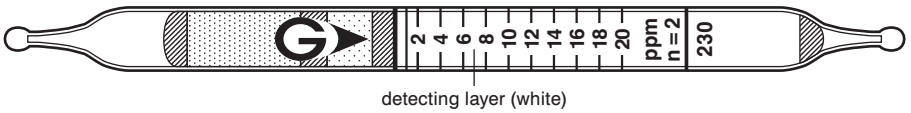
Methyl Iodide CH_3I No.230



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

Measuring range	0.5 to 1 ppm	(1) to 20 ppm	20 to 46 ppm	46 to 108 ppm
Number of pump strokes	4 (400 ml)	2 (200 ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	0.5	1	2.3	5.4
Sampling time	6 min	3 min	1.5 min	45 sec

Detecting limit : 0.2 ppm (4 pump strokes)
Colour change : White → Gray
Corrections for temperature & humidity : Temperature correction is necessary.
Relative standard deviation : 5 %(for 1 to 20 ppm)
Shelf life : 2 year (in the refrigerator)

Reaction principle

$CH_3I + I_2O_5 + V_2O_5 + H_2SO_4 \rightarrow I_2$
I_2 + 3,3,5,5-Tetramethylbenzidine → Reaction Products

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Chlorine	≧ 1/1	+ (Two layers)	Brown(turns pale blue after a few minutes)
Nitrogen dioxide	≧ 1/1	− (Two layers)	Pink
Methyl bromide	≦ 30 ppm	No	No
Dichloromethane	≦ 50 ppm	No	
Carbon dioxide	≦ 1 %	No	

Calibration gas generation

Diffusion tube method