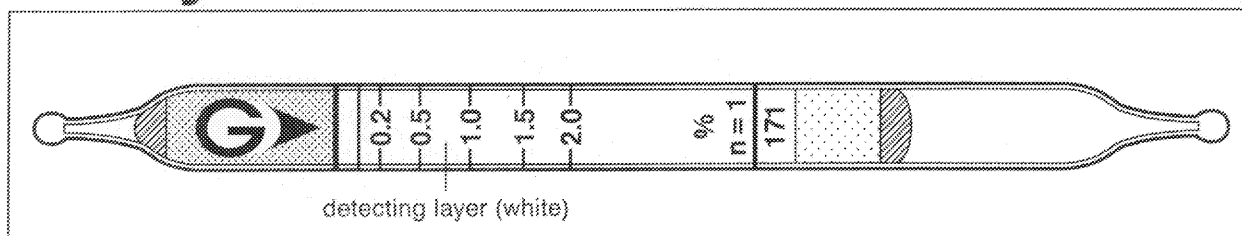


Acetylene $\text{HC}\equiv\text{CH}$

No. 171



Performance

Measuring range	0.05 to 0.1 %	(0.1) to 2 %	2 to 4 %
Number of pump strokes	2 (200 ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	1/2	1	2
Sampling time	2 min	1 min	30 sec

Detecting limit : 0.02 % (2 pump strokes)

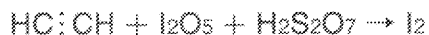
Colour change : White → Brown

Corrections for temperature & humidity : Temperature correction is necessary.

Relative standard deviation : 15 % (for 0.1 to 0.5 %), 10 % (for 0.5 to 2 %)

Shelf life : 3 years

Reaction principle



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

Substance	Concentration	Interference	Changes colour by itself to
Carbon monoxide	≥ 0.1 %	+	} Dark brown
Ethylene	≥ 0.5 %	+	
Hydrocarbons ($\geq \text{C}_3$)		+	

Other substances measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Benzene	Factor : 0.3	4	0.03 to 0.6 %
Ethylene	Factor : 1.0	1	0.1 to 2 %
1,1,1-Trichloroethane	Factor : 0.6	1	0.06 to 1.2 %

Calibration gas generation

High pressure gas cylinder method

Explosive range : 2.5 to 81 %