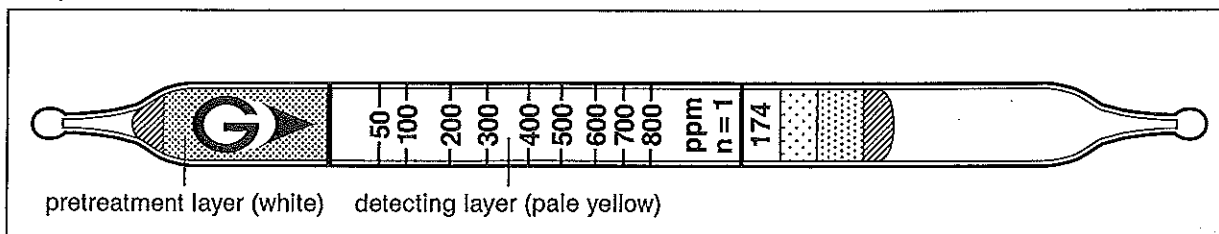


1,3-Butadiene $\text{CH}_2:\text{CHCH}:\text{CH}_2$

No. 174



Performance

Measuring range	50 to 800 ppm
Number of pump strokes	1 (100 ml)
Correction factor	1
Sampling time	1.5 min

Detecting limit : 10 ppm (1 pump stroke)
 Colour change : Pale yellow → White
 Corrections for temperature & humidity : Temperature correction is necessary.
 Relative standard deviation : 10 % (for 50 to 200 ppm),
 5 % (for 200 to 800 ppm)
 Shelf life : 3 years

Reaction principle



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

Substance	Concentration	Interference	Changes colour by itself to
Hydrogen	$\geq 20 \%$	+	Blue (whole layer)
Acetylene	$\geq 10 \text{ ppm}$	+	} Blue
Carbon monoxide	$\geq 10 \text{ ppm}$	+	
Ethylene	$\geq 1 \text{ ppm}$	+	
Hydrogen sulphide	$\geq 10 \text{ ppm}$	+	Black
Styrene		+	Pale blue
Ammonia		+	} White
Hydrogen cyanide		+	

Other substance measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
1,3-Pentadiene	Factor : 5.0	1	250 to 4000 ppm

Calibration gas generation

Static gas dilution method