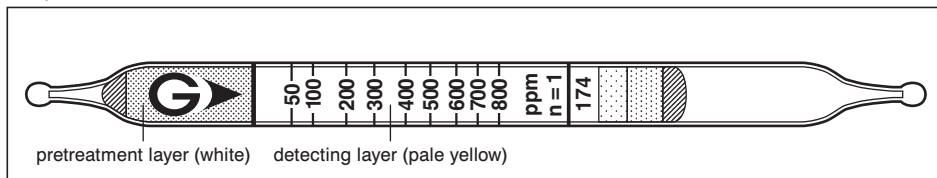


# 1,3-Butadiene $\text{CH}_2:\text{CHCH}:\text{CH}_2$

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

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