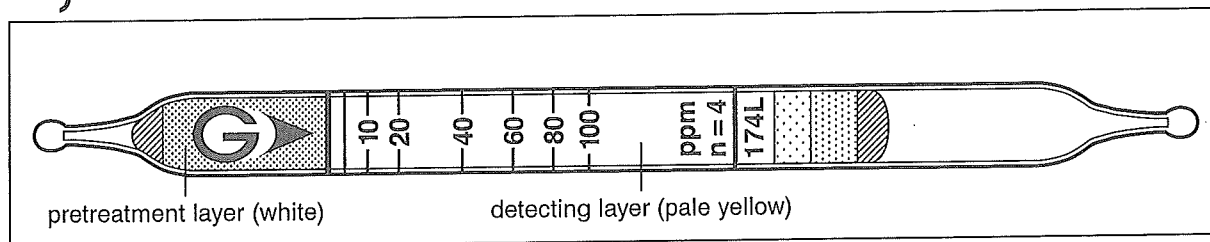


# 1,3-Butadiene $\text{CH}_2:\text{CHCH}:\text{CH}_2$

No.174L



## Performance

Measuring range	2.5 to 5 ppm	(5) to 100 ppm
Number of pump strokes	8 (800 ml)	4 (400 ml)
Correction factor	1/2	1
Sampling time	24 min	12 min

Detecting limit : 0.5 ppm (8 pump strokes)  
 Colour change : Pale yellow → White  
 Corrections for temperature & humidity : Unnecessary  
 Relative standard deviation : 10 % (for 5 to 20 ppm), 5 % (for 20 to 100 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
Butane, Carbon monoxide		+	} Blue (whole layer)
Hydrogen, Pentane		+	
Butylene, Ethylene		+	} Blue
Propylene		+	
Hydrogen sulphide		+	Black
Hydrogen chloride		+	Pink
Acetylene		+	} White
Hydrogen cyanide		+	

Water vapour is trapped in the pretreatment (white) layer.

## Other substance measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
1,3-Pentadiene	Factor : 8.5	4	42.5 to 850 ppm

## Calibration gas generation

Permeation tube method