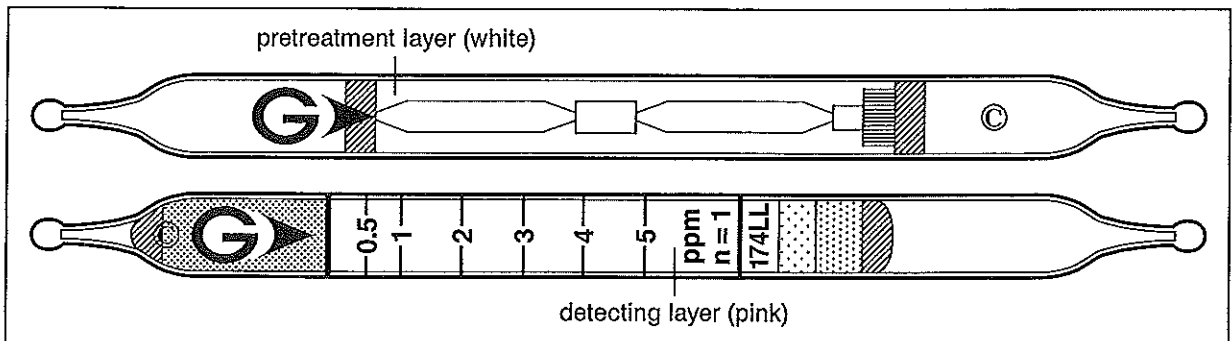


# 1,3-Butadiene $\text{CH}_2:\text{CHCH}:\text{CH}_2$

No.174LL



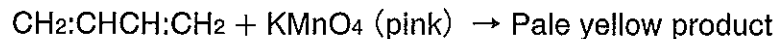
## Performance

When used, these tubes are to be connected. See page 2-3.

|                        |              |
|------------------------|--------------|
| Measuring range        | 0.5 to 5 ppm |
| Number of pump strokes | 1 (100 ml)   |
| Correction factor      | 1            |
| Sampling time          | 3 min        |

Detecting limit : 0.1 ppm (1 pump stroke)  
 Colour change : Pink → Pale yellow  
 Corrections for temperature & humidity : Unnecessary  
 Relative standard deviation : 10 % (for 0.5 to 1 ppm), 5 % (for 1 to 5 ppm)  
 Shelf life : 3 years (in the refrigerator)

## Reaction principle



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

| Substance         | Concentration | Interference | Changes colour by itself to |
|-------------------|---------------|--------------|-----------------------------|
| Ammonia           |               | No           | No                          |
| Carbon monoxide   |               | No           |                             |
| Carbon dioxide    |               | No           |                             |
| Hydrogen sulphide |               | No           |                             |
| Hydrogen cyanide  |               | No           |                             |
| Acetylene         | $\geq 50$ ppm | +            | White                       |
| Olefins           |               | +            | Pale yellow                 |

## Calibration gas generation

Permeation tube method