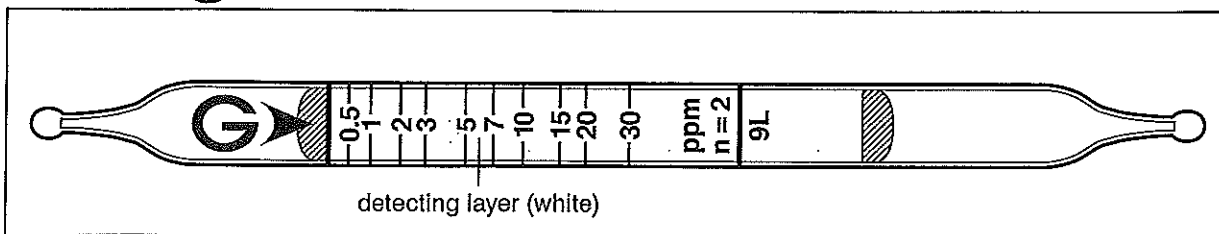


Nitrogen Dioxide NO₂

No.9L



Performance

| | | |
|------------------------|---------------|---------------|
| Measuring range | 0.5 to 30 ppm | 30 to 125 ppm |
| Number of pump strokes | 2 (200 ml) | 1 (100 ml) |
| Correction factor | 1 | by scale |
| Sampling time | 1 min | 30 sec |

Detecting limit : 0.1 ppm (2 pump strokes)

Colour change : White → Yellowish orange

Corrections for temperature & humidity : Unnecessary

Relative standard deviation : 10 % (for 0.5 to 3 ppm), 5 % (for 3 to 30 ppm)

Shelf life : 3 years

Reaction principle

NO₂ + o-Tolidine → Yellowish orange product

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

| Substance | Concentration | Interference | Changes colour by itself to |
|--------------------------|---------------|---------------------|-----------------------------|
| Bromine, Chlorine | ≥ 1/5 | + | Yellowish orange |
| Nitric oxide | ≥ 50 ppm | Unclear demarcation | Pale red |
| Ammonia | | No | } No |
| Carbon dioxide | | No | |
| Carbon monoxide | | No | |
| Organic gases and vapour | | No | |
| Sulphur dioxide | ≥ 10 ppm | – (Bleaching) | |

Other substance measurable with this detector tube

| Substance | Correction | No. of pump strokes | Measuring range |
|-----------|--------------|---------------------|-----------------|
| Iodine | Factor : 0.4 | 2 | 0.2 to 12 ppm |

Calibration gas generation

Permeation tube method