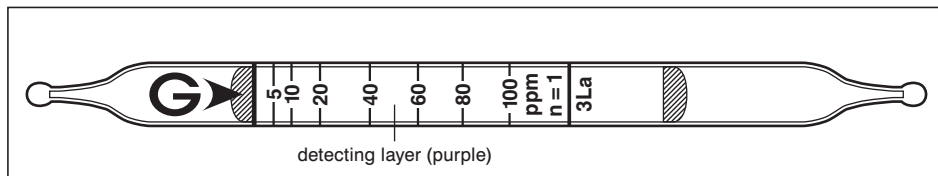


Ammonia NH₃

No.3La



Performance

| | | | |
|------------------------|--------------|--------------|----------------|
| Measuring range | 2.5 to 5 ppm | 5 to 100 ppm | 100 to 200 ppm |
| Number of pump strokes | 2 (200 ml) | 1 (100 ml) | 1/2 (50 ml) |
| Correction factor | 1/2 | 1 | 2 |
| Sampling time | 1 min | 30 sec | 30 sec |

Detecting limit : 0.5 ppm (2 pump strokes)

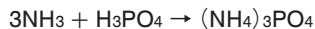
Colour change : Purple → Yellow

Corrections for temperature & humidity : Temperature correction is necessary.

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

| Substance | Concentration | Interference | Changes colour by itself to |
|----------------|---------------|--------------|-----------------------------|
| Amines | $\geq 1/15$ | + | Yellow (≥ 5 ppm) |
| Hydrazine | | + | Yellow |
| Carbon dioxide | ≥ 1 % | - (20%) | No |

Calibration gas generation

Permeation tube method