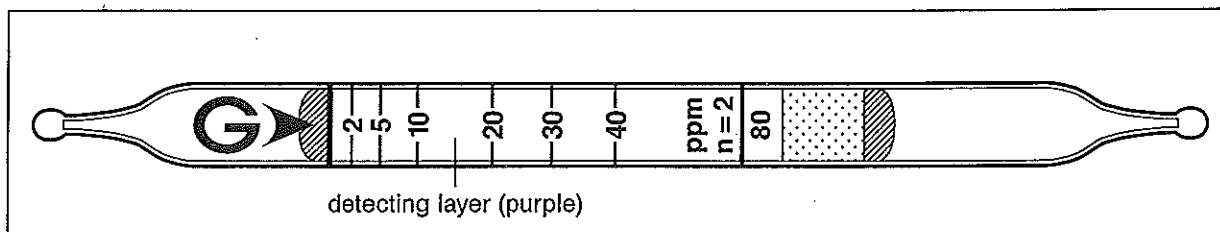


# Acid Gases

No.80



## Performance

|                        |            |             |              |
|------------------------|------------|-------------|--------------|
| Measuring range        | 1 to 2 ppm | 2 to 40 ppm | 40 to 80 ppm |
| Number of pump strokes | 4 (400 ml) | 2 (200 ml)  | 1 (100 ml)   |
| Correction factor      | 1/2        | 1           | 2            |
| Sampling time          | 2 min      | 1 min       | 30 sec       |

Detecting limit : 0.5 ppm (4 pump strokes)  
 Colour change : Pale bluish purple → Yellow  
 Corrections for temperature & humidity : Unnecessary  
 Relative standard deviation : 10 % (for 2 to 40 ppm)  
 Shelf life : 2 years

## Reaction principle

Acid + Base → Reaction product

## Substances measurable with this detector tube

| Substance         | Correction    | n | Measuring range | Changes colour to |
|-------------------|---------------|---|-----------------|-------------------|
| Sulphur dioxide   | Factor : 0.75 | 2 | 1.5 to 30 ppm   | Yellow            |
| Hydrogen chloride | Factor : 4    | 2 | 8 to 160 ppm    | } Pale red purple |
| Nitric acid       | Factor : 2.5  | 2 | 5 to 100 ppm    |                   |
| Iodine            | Factor : 0.06 | 2 | 0.12 to 2.4 ppm | Light bluish gray |
| Nitrogen dioxide  | Factor : 0.1  | 2 | 0.2 to 4 ppm    | Pinkish gray      |
| Chlorine          | Factor : 0.35 | 2 | 0.7 to 14 ppm   | White             |

n : No. of pump strokes

## Calibration gas generation

Diffusion tube method

## Special note

This detector tube can analyse acid gases qualitatively and quantitatively.