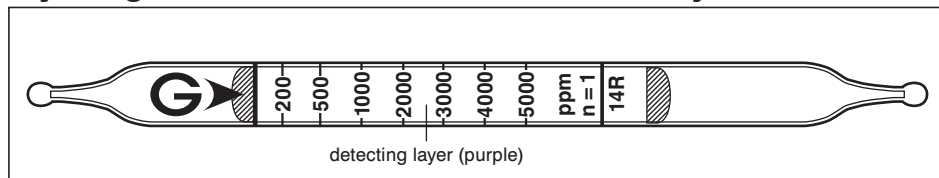


Hydrogen Chloride (for Low Humidity) HCl No.14R



Performance

| | | |
|------------------------|------------------------|-----------------|
| Measuring range | 50 to 200 ppm | 200 to 5000 ppm |
| Number of pump strokes | 2 to 4 (200 to 400 ml) | 1 (100 ml) |
| Correction factor | 1/2 to 1/4 | 1 |
| Sampling time | 1.5 to 3 min | 45 sec |

| | |
|--|--|
| Detecting limit : | 10 ppm (4 pump strokes) |
| Colour change : | Purple → Pale pink |
| Corrections for temperature & humidity : | Unnecessary |
| Relative standard deviation : | 10 % (for 200 to 1000 ppm), 5 % (for 1000 to 5000 ppm) |
| Shelf life : | 3 years |

Reaction principle

Hydrogen chloride reacts with indicator to produce pale pink stain.

Possible coexisting substances and their interferences

| Substance | Concentration | Interference | Changes colour by itself to |
|----------------------------------|---------------|--------------|-----------------------------|
| Carbon monoxide, Nitric oxide | | } No | } No |
| Chlorine | ≥ 4 ppm | + | White (≥ 1 ppm) |
| Carbon dioxide | | No | No |
| Nitrogen dioxide | ≥ 1000 ppm | + | White (≥ 1000 ppm) |
| Hydrogen sulphide | ≥ 5 % | - | No |
| Sulphur dioxide | ≥ 100 ppm | + | Yellow |
| n-Hexane | | No | No |

Calibration gas generation

High pressure gas cylinder method

Special note

This tube is for low humidity (RH 0-10 %) condition.