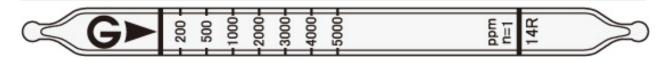
Hydrogen chloride (For Low Humidity)

NO.14R



HCI

| Performance | | | | |
|---|---|-----------------|--|--|
| Measuring Range | 50 to 200ppm | 200 to 5000 ppm | | |
| Number of Pump Strokes | 2 to 4 | 1 | | |
| Correction Factor | 1/2 to 1/4 | 1 | | |
| Sampling Time | 45 seconds per pump stroke | | | |
| Detecting Limit | 10 ppm (n=4) | | | |
| Colour Change | Purple 🔶 Pale Pink | | | |
| Reaction Principle | Hydrogen chloride reacts with indicator to produce pale pink stain. | | | |
| Coefficient of Variation | 10% (for 200 to 800 ppm), 5% (for 800 to 2500 ppm) | | | |
| Shelf Life | 3 Years | | | |
| Corrections for temperature & humidity | Unnecessary | | | |
| Store the tubes at cool and dark place. | | | | |

Possible coexisting substances and their interferences

| Substance | Concentration | Interference | Change colour by itself |
|-------------------|------------------|--------------|---------------------------|
| Carbon monoxide | - | No effect | None |
| Nitric oxide | - | No effect | None |
| Chlorine | <u>≤</u> 4ppm | Plus effect | White (<u>≤</u> 1ppm) |
| Carbon dioxide | - | No effect | None |
| Nitrogen dioxide | <u>≤</u> 1000ppm | Plus effect | White (<u>≤</u> 1000ppm) |
| Hydrogen Sulphide | <u>≤</u> 5% | Minus effect | None |
| Sulphur dioxide | <u>≤</u> 100ppm | Plus effect | Produce yellow stain |
| n-hexane | - | No effect | None |

Calibration gas generation High pressure gas cylinder method

| TLV-TWA | TLV-STEL | Explosive range |
|---------|----------|-----------------|
| - | C 2ppm | _ |