**Gastec Tube Datasheet**

|  |  |  |  |
| --- | --- | --- | --- |
| **Acetaldehyde** | CH3CHO |  | **NO.GAS92M** |
|  |



|  |
| --- |
| **Performance** |

|  |  |  |
| --- | --- | --- |
| **Measuring Range** | 2.5 to 5 ppm | 5 to 100 ppm |
| **Number of Pump Strokes** | 2 | 1 |
| **Correction Factor** | 1/2 | 1 |
| **Sampling Time** | 1.5 minutes per pump stroke |
| **Detecting Limit** | 0.25 ppm (n=2) |
| **Colour Change** | Yellow Red |
| **Reaction Principle** | 3CH3CHO + (NH2OH)3H3PO4 H3PO4 + Base Phosphate |
| **Coefficient of Variation** | 10% (for 5 to 20 ppm), 5% (for 20 to 100 ppm) |
| **Shelf Life** | Up to 2 Years |
| **Corrections for temperature & humidity** | Unnecessary |
| **Store the tubes in the refrigerator to keep at 10oC (50oF) or below.** |

|  |  |
| --- | --- |
| **Possible coexisting substances and their interferences** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Substance** | **Concentration** | **Interference** | **Change colour by itself** |
| Ammonia | - | Minus error | No discoloration |
| Acrolein | ≥3/5 time | Plus error | Produces red stain |
| Acetone | ≥2 times | Plus error | Produces red stain |
| Methyl ethyl ketone | ≥6 times | Plus error | Produces red stain |
| Methyl isobutyl ketone | ≥10 times | Plus error | Produces red stain |

|  |  |
| --- | --- |
| **Calibration gas generation** | Diffusion tube method |