



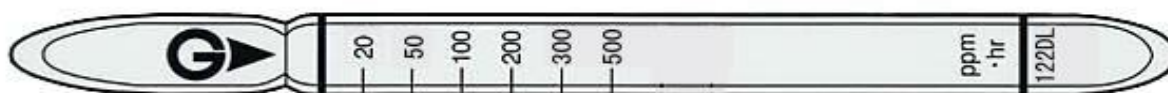
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## Gastec Tube Datasheet

**Toluene**

$C_6H_5CH_3$

**NO.GAS122DL**



### Performance

|   |  |
|---|--|
| <b>Measuring Range</b>                            | 2 to 500 ppm   |
| <b>Sampling Hours</b>                             | 1 to 10 hours  |
| <b>Detecting Limit</b>                            | 2 ppm (10 hours)   |
| <b>Colour Change</b>                              | White → Brown  |
| <b>Reaction Principle</b>                         | Toluene reacts with formaldehyde to form condensation polymer, which is brown in colour. |
| <b>Coefficient of Variation</b>                   | 10% (for 20 to 500 ppm·hr)   |
| <b>Shelf Life</b>                                 | Up to 2 Years  |
| <b>Corrections for temperature &amp; humidity</b> | Temperature correction is necessary  |
| <b>Store the tubes at cool and dark place.</b>    |  |

### Possible coexisting substances and their interferences

| Substance                 | Concentration | Interference | Change colour by itself |
|---------------------------|---------------|--------------|-------------------------|
| Aromatic Hydrocarbons     | -             | Plus error   | Produce brown stain     |
| Alcohols, Ketones, Esters | ≤30 ppm       | No error     | No stain                |

### Other substance measurable with this detector tube

| Substance     | Correction Factor | Sampling Hours | Measuring range |
|---------------|-------------------|----------------|-----------------|
| Xylene        | 1.7               | 1 to 10        | 3.4 to 850 ppm  |
| Ethyl benzene | 1.4               | 1 to 10        | 2.8 to 700 ppm  |
| Cumene        | 1.7               | 1 to 10        | 3.4 to 850 ppm  |
| Benzene       | 1.2               | 1 to 10        | 2.4 to 600 ppm  |
| Styrene       | 13                | 1 to 10        | 26 to 6500 ppm  |

### Calibration gas generation Diffusion tube method

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