



Gas Detection Tube Data Sheet

Benzene Specific C₆H₆ No. 10-101-01

| | Extended Range | Standard Range | Extended Range |
|---------------------|----------------|----------------|----------------|
| Range (ppmv) | 0.25 - 5 | 0.5-10 | 1.5 - 30 |
| No. of Pump Strokes | 6 | 3 | 1 |
| Sample Volume (mL) | 600 | 300 | 100 |
| Sample Time (min) | 6 x 3 | 3 x 3 | 3 |
| Correction Factor | 0.27 | 1 | 4 |

Precision (Relative Standard Deviation)*: ≤ ± 12%

Humidity: No effect 0 - 95% RH

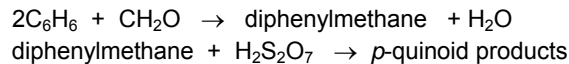
Temperature Range: 0 - 40°C
(32 - 104°F)

| Temp (°C/°F) | 0/32 | 10/50 | 25/77 | 40/104 |
|--------------|------|-------|-------|--------|
| Corr. Factor | 2.7 | 1.6 | 1.0 | 0.6 |

Storage Life: 1 year in darkness at 5 - 25°C (40 - 77°F). Refrigeration preferred.

Color Change: White → Brown

Reaction Principle: Pretube removes interferences



| <u>Cross-sensitivity:</u> Substance | Concentration (ppmv) | Apparent Reading* |
|--|----------------------|-------------------|
| Isobutylene | 100 | 0 |
| n-Hexane | 500 [#] | 0 |
| n-Heptane | 100 | 0 |
| Toluene | 100 | 0 |
| <i>m</i> -Xylene | 50 | 0 |
| <i>m</i> -Xylene | 100 | 5 |
| CH ₄ | 25000 | 0 |
| CO | 10 | 0 |
| H ₂ S | 25 | 0 |

*Data based on RAE pumps and tubes used in standard range.

[#]Hexane above 100 ppm will reduce the benzene response.

Other Possible Interferences: Hydrocarbons and similar reducing gases.

Caution: Dispose of spent or expired tubes according to local regulations.
Possibly hazardous materials are given under the section Reaction Principle.