



RAE Systems, Inc.  
1339 Moffett Park Dr.  
Sunnyvale, CA 94089 USA

Telephone 408-752-0723  
Tube Orders 1-888-723-8823  
Web www.raesystems.com

# Gas Detection Tube Data Sheet

## Gasoline $C_nH_m$ No. 10-138-30

|                     | Extended Range | Standard Range | Extended Range |
|---------------------|----------------|----------------|----------------|
| Range (ppmv)        | 15 - 500       | 30 - 1000      | 60 - 2000      |
| No. of Pump Strokes | 4              | 2              | 1              |
| Sample Volume (mL)  | 400            | 200            | 100            |
| Sample Time (min)   | 4 x 2          | 2 x 2          | 2              |
| Correction Factor   | 0.45           | 1              | 2.5            |

Precision (Relative Standard Deviation)\*:  $\leq \pm 20\%$

Linearity with No. of Pump Strokes:  $r^2 > 0.999$

Humidity: No effect 5 - 95% RH.

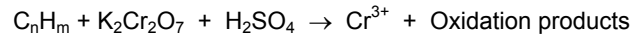
Temperature Range: 0 - 40°C  
(32 - 104°F)

| Temp (°C/°F) | 0/32 | 10/50 | 22/72 | 40/104 |
|--------------|------|-------|-------|--------|
| Corr. Factor | 1.6  | 1.24  | 1.0   | 0.83   |

Storage Life: 2 years in darkness at 5 - 25°C(40 - 77°F). Refrigeration preferred.

Color Change: Orange → Dark Green

Reaction Principle: Prelayer removes humidity



| Cross-sensitivity:<br>Substance | Concentration<br>(ppmv) | Apparent<br>Reading* |
|---------------------------------|-------------------------|----------------------|
| CH <sub>4</sub>                 | 25000                   | 0                    |
| CO                              | 500                     | 0                    |
| H <sub>2</sub> S                | 100                     | 30                   |
| SO <sub>2</sub>                 | 500                     | 0                    |
| Acetone                         | 1000                    | 20                   |
| Ethanol                         | 1000                    | 20                   |
| Butane                          | 1000                    | Entire tube          |
| Isopar L                        | 500                     | 115                  |
| Toluene                         | 200                     | 80                   |
| Benzene                         | 500                     | 900                  |

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

# The tube is calibrated using heptane as a standard for gasoline.

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