



# Gas Detection Tube Data Sheet

## Hydrogen Sulfide H<sub>2</sub>S No. 10-103-05

	Extended Range	Standard Range	Extended Range
Range (ppmv)	0.1 – 1.5	0.2 - 3	0.4 – 6
No. of Pump Strokes	2	1	0.5
Sample Volume (mL)	200	100	50
Sample Time (min)	2 x 2	2	1
Correction Factor	0.5	1	2

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

Linearity with No. of Pump Strokes: r<sup>2</sup> = 0.999

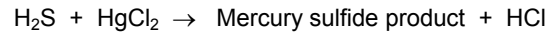
Humidity: No effect between 5 - 90% RH.

Temperature Range: No effect between 0 - 40°C (32 - 104°F).

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

Color Change: Pale orange → Pink

Reaction Principle: Pretube eliminates humidity



<u>Cross-sensitivity:</u> Substance	Concentration (ppmv)	Apparent Reading*
Methyl mercaptan	3	0 <sup>#</sup>
Butyl mercaptan	3	0 <sup>#</sup>
NH <sub>3</sub>	100	0
NO <sub>2</sub>	5	0
SO <sub>2</sub>	100	0
CS <sub>2</sub>	100	0
CO	250	0
Hexane	100	0
Isobutylene	100	0 <sup>^</sup>
Toluene	100	0

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

<sup>#</sup> Interferes at higher concentrations.

<sup>^</sup> Reduces response when mixed with H<sub>2</sub>S.

Other Possible Interferences: HCl and other acids.

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