



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

Phenol C₆H₅OH No. 10-139-05

	Extended Range	Standard Range	Extended Range	Extended Range
Range (ppmv)	0.5 - 11	1 - 25	2.4 - 60	7 - 180
No. of Pump Strokes	4	2	1	0.5
Sample Volume (mL)	400	200	100	50
Sample Time (min)	4 x 1.5	2 x 1.5	1.5	1.0
Correction Factor	0.45	1	2.4	7.2

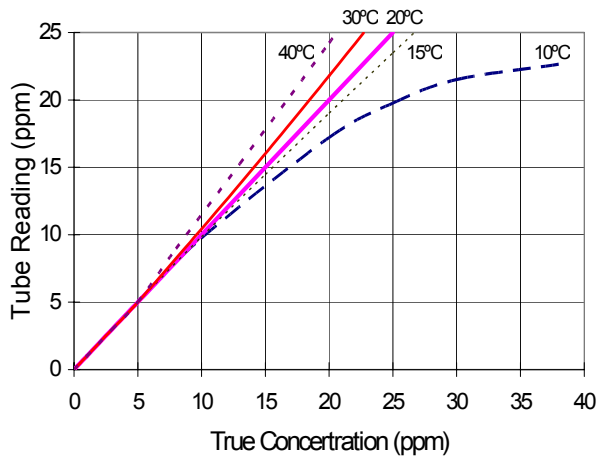
Precision (Relative Standard Deviation)*: $\leq \pm 20\%$

Linearity with No. of Pump Strokes: $r^2 = 0.996$

Humidity:

% Relative Humidity	10%	30%	50%	90%
Correction Factor	1.0	1.25	1.6	1.8

Temperature Range:



Storage Life: 1.5 years in darkness at 5-25°C (40-77°F). Refrigeration preferred.

Color Change: Pale Yellow → Gray

Reaction Principle: C₆H₅OH + Ce(NH₄)₂(NO₃)₆ → Cerium-Phenol complex

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



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<u>Cross-sensitivity:</u> Substance	Concentration (ppmv)	Apparent Reading*
H ₂ S	100	0
NH ₃	500	0
NO	400	0
NO ₂	400	0
SO ₂	200	0
CH ₄	25000	0
CO ₂	5000	0
CO	500	0
HCHO	500	0
Acetone	2000	0
Isopropanol	2000	0
Benzene	2000	0
Toluene	2000	0
Styrene	2000	0
n-Hexane	2000	0
Isobutylene	100	0

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

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