

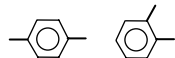


RAE Systems, Inc.  
1339 Moffett Park Dr.  
Sunnyvale, CA 94089 USA

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

# Gas Detection Tube Data Sheet

**Xylenes C<sub>8</sub>H<sub>10</sub>**



**No. 10-112-20**

	Extended Range	Standard Range	Extended Range
Range (ppmv)	5 - 100	10 - 200	20 - 400
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	0.5	1	2

Precision (Relative Standard Deviation)\*:  $\leq \pm 12\%$

Linearity with No. of Pump Strokes:  $r^2 = 0.991$

Humidity: No effect 5 - 95% RH

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

Temp (°C/°F)	0/32	10/50	21/70	40/104
Corr. Factor	2.4	1.4	1.0	1.7

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

Color Change: White → Reddish Brown

Reaction Principle: C<sub>8</sub>H<sub>10</sub> + I<sub>2</sub>O<sub>5</sub> + H<sub>2</sub>SO<sub>4</sub> → I<sub>2</sub> + oxidation products

Cross-sensitivity: Substance	Concentration (ppmv)	Apparent Reading*
p-Xylene	100	100
o-Xylene	100	40 (brown)
m-Xylene	100	20 (brown)
Toluene	20	50 (brown)
Benzene	10	10 (v.faint)
Hexane	100	0
Isobutylene	100	0
CO	250	0
CO <sub>2</sub>	50000	0
H <sub>2</sub> S	5000	0
NO	100	3 (v.faint)
NH <sub>3</sub>	100	0
CH <sub>4</sub>	25000	0
SO <sub>2</sub>	10	0

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

Note: The tube is calibrated to p-xylene.

Other Possible Interferences: Other aromatics.

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