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Gas Detection Tube Data Sheet Benzene Specific C₆H₆ No. 10-101-10

	Extended Range	Standard Range	Extended Range
Range (ppmv)	2.5 - 20	5 - 40	25 - 200
No. of Pump Strokes	10	5	1
Sample Volume (mL)	1000	500	100
Sample Time (min)	10 x 3	5 x 3	3
Correction Factor	0.5	1	5

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

Humidity: No effect 5 - 100% RH

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

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

<u>Color Change</u>: White → Light Brown

Reaction Principle: Pretube removes interferences

 $C_6H_6 + I_2O_5 + H_2S_2O_7 \rightarrow I_2 + oxidation products$

Cross-sensitivity: Substance	Concentration (ppmv)	Apparent Reading*
Isobutylene	100	~2 (faint)
n-Hexane	10	0
n-Octane	100	0
Toluene	35	0#
m-Xylene	50	0#
β-Pinene	50	~2 (very faint)
CO	10	7
H ₂ S	25	0

*Data based on RAE pumps and tubes used in Standard Range. #With 10 strokes, toluene and xylene at 50 ppm read ~2 ppm and 100 ppm octane reads \leq 2 ppm.

Other Data: Without the pretube the readings are 30% higher.

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