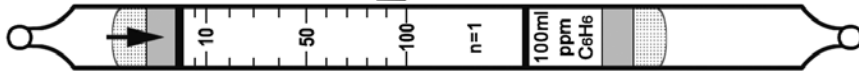


# Benzene C<sub>6</sub>H<sub>6</sub> No. H-10-101-20



	Extended Range	Standard Range	Extended Range
Range (ppmv)	2.5 - 50	5 - 100	10 - 200
No. of Pump Strokes	2	1	0.5
Sample Volume (mL)	200	100	50
Sample Time (min)	2 x 2	2	1.5
Correction Factor	0.5	1	2

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

Linearity with No. of Pump Strokes: r<sup>2</sup> = 0.992

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	0.8	0.9	1.0	1.1

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

Color Change: White → Light Brown

Reaction Principle: C<sub>6</sub>H<sub>6</sub> + I<sub>2</sub>O<sub>5</sub> + H<sub>2</sub>S<sub>2</sub>O<sub>7</sub> → I<sub>2</sub> + oxidation products

<u>Cross-sensitivity:</u> Substance	Concentration (ppmv)	Apparent Reading*
CO	50	40
CO <sub>2</sub>	50000	0
H <sub>2</sub> S	50	20
NO	100	40
NH <sub>3</sub>	100	0
CH <sub>4</sub>	25000	0
SO <sub>2</sub>	10	0
Hexane	50	>100
Isobutylene	100	10
Toluene	100	20
o-Xylene	50	3

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

Other Possible Interferences: Hydrocarbons and similar reducing gases.