

Benzene C₆H₆



Standard Lamp	Typical Range (ppmv)
9.8 eV	0.1 - 1000

Temperature Range: 2 - 40°C (36 - 104°F)

Temp (°C)	2-10	10-15	15-30	30-40
Temp (°F)	36-50	50-60	60-86	86-104
Measure Time (sec)	150	90	60	40
Sample Vol. (mL)	1125	675	450	300

Calibration should be performed at the same temperature as the measurement. It is preferable to recalibrate when changing batches.

Humidity: No effect on reading 0 - 95% RH. Humid, clean air drawn through the tube before measurement will reduce VOC capacity.

! Drawing humid air for extended periods or liquid water through the tubes may damage the instrument.

Storage Life and Conditions: Unopened tubes can be stored for 3 year in darkness at 5 - 25°C (40 - 77°F). Refrigeration is preferred. Open tubes should be used within one hour to avoid loss of capacity.

Color Change: Yellow → Brown → Green

The benzene reading may be high if the green color extends to more than 3/4 of the length. The tube may still have some capacity if there is no green color.

Cross-Sensitivity Substance	Test Conc. (ppmv)*	Apparent Benzene Response	Substance	Test Conc. (ppmv)*	Apparent Benzene Response
Toluene	400	0.1	n-Hexane	100 [#]	0.0
o-Xylene	200	0.0	Cyclohexane	10 [#]	0.4
Ethylbenzene	200	0.0	n-Octane	300	0.1
Styrene	100	0.0	β-Pinene	50	0.0
Nitrobenzene	100	0.0	Ethanol	50	0.0
Phenol	100 [#]	0.0	Isopropanol	100	0.0
Chlorobenzene	20	2.5	Acetone	100	0.0
Dichlorobenzene	50	0.1	Cyclohexanone	200	0.0
Hydrogen Sulfide	150	0.0	Tetrahydrofuran	100	0.0
Methane	25000**	0.0	Methyl t-butyl ether	100	0.0
Propane	1000	0.0	Ethyl acetate	100	0.0
Isobutane	100	0.0	Acrylonitrile	100	0.0
Isobutylene	500	0.0	Epichlorohydrin	100	0.0
1,3-Butadiene	300	0.0	Trichloroethylene	100	66
n-Pentane	1500	0.0	Perchloroethylen	50	38

✧ *Not necessarily the maximum allowable conc.

✧ **No effect on tube capacity. Propane and higher hydrocarbons do affect capacity.

✧ [#] Higher amounts may reduce benzene response.

✧ Each tube contains 3 mg of chromium compounds

