

# Uniphos Detector Tube Data Sheet

## URPID Pre-Filter Tube Benzene-0.05

## PBE-1

### Application:

The PID Pre-Filter tube Benzene is used for selective determination of Benzene in air containing a mixture of VOC and only suitable for operating with PID instrument.

### Detector Tube Sampling Pump

The PID pre-filter Benzene tube is suitable for operating with PID instrument – e.g. RAE PID Instrument.

### Measuring Range

0.05 to 200 ppm of Benzene with flow rate of e.g. 360 ml/min for approximately 2 min for spot reading, 15 min for STEL reading.

### Chemical Reaction and Color Change

Reaction of VOC except benzene with Chromium compound in presence of sulphuric acid.

Color change: Orange → Brown → Green

### Ambient Condition During Sampling

Detector tube can be used without compensation of reading between 2 °C – 40 °C and up to 95 % RH at 1 atmosphere pressure.

### Cross sensitivity tested with PID instruments

Compound	Test concentration (ppmv)*	Apparent Response on PID Instrument
Toluene	400	0
Xylene	200	0
Cyclohexane	10 <sup>^</sup>	0
Propane	1000	0
Butane	100	0
Acetone	400	0
Ethyl acetate	100	0
Ethanol	50	0
Pentane	1500	0
Hexane	100 <sup>^</sup>	0
Heptane	20	0
Octane	300	0
Hydrogen sulphide	25	0

\*Not necessarily the maximum allowable conc. ^ Higher concentration may cause reduced benzene response



**Manufactured By:** Uniphos Envirotronic Pvt. Ltd. (100% EOU)  
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