

# VOC Zeroing tube VOC-1



## Instructions for Use

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### 1 Application

This tube is used to purify ambient air to form a zero standard for calibrating VOC detectors in ambient background. Calibration should be performed at the same temperature, humidity and flow rate described in the PID instrument manual. To connect to PID instrument, use inlet tube adaptor supplied along with PID instrument.

2 **Storage Life** : 3 years

3 **Temperature Range** : -10 to + 50 °C

4 **Filtering efficiency for VOCs:**

Compound	Concentration (ppbv)	Apparent Reading
Methane	10000	10000*
Ethylene	100000	100000*
Propane	100000	0
Butane	10000	0
Isobutylene	100000	0
Butadiene	10000	0
n-Hexane	10000	0
Gasoline	10000	0
Toulene	10000	0
Ethanol	100000	0
Acetone	100000	0
Ethylene oxide	10000	0
Benzene	10000	0

\*This tube cannot remove methane, ethane or ethylene.

### 5 Zeroing procedure

- 1) Break the two ends of a VOC zeroing tube using a tip cutter.
- 2) Insert one end (black arrow indicates the right direction) of the open VOC zeroing tube into the bigger end of the adaptor.
- 3) Run the zeroing calibration procedure of the PID instrument.
- 4) Discard the used VOC zeroing tube (**Single use only**)

Caution:

- Dispose off spent or expired tubes according to local regulations applicable in the individual country of use.
- Single use only.
- Attach the tube shortly before zeroing to avoid loss of adsorption capacity.
- Will not absorb CO; partially absorb H<sub>2</sub>S. May not absorb some other inorganic compounds.