



## UNIPHOS GAS DETECTOR TUBES

Stand for Quality, Reliability & Precision

GAS DETECTOR TUBES



UNIPHOS Gas Detector Tube which is to be used with a sample draw pump provides an easy, quick and accurate method for a direct on the spot measurement of impurity gases and vapors present in air. The tubes are highly specific to the target gas and are disposable.

### UNIPHOS Gas Detector Tubes

- Gas Detector tubes are useful for spot checking of toxic gas concentration at work places
- Available for  $\text{NH}_3$ ,  $\text{H}_2\text{S}$ ,  $\text{SO}_2$ ,  $\text{Cl}_2$ ,  $\text{PH}_3$ ,  $\text{HCl}$ ,  $\text{HCN}$ ,  $\text{CO}$ ,  $\text{CO}_2$ ,  $\text{O}_2$ ,  $\text{C}_6\text{H}_6$ , alcohols, amines, mercaptans and many other gases and vapors

### UNIPHOS Precision Air Sampling Pump

- Piston and Barrel type vacuum pump
- Light weight, rugged and handy
- Pump operation is simple and reproducible
- Requires only periodic routine maintenance
- Pump can draw sample air of 50 cc, 100 cc or their multiples
- Carries a full 5 year warranty

### Application Area

- Confined Spaces
- Fumigation
- Occupational Safety & Health
- Oil & Gas Industry
- Petrochemical Plants
- Process Control
- Research Laboratories

**PHOSPHINE DETECTOR STRIPS**  
(6 Books)

Batch No. :  
Use Before :



**UNIPHOS ENVIROTRONIC PVT. LTD.**

UNIPHOS House, C.D. Marg,  
Khar (W), Mumbai-400 052, INDIA.  
Tel. : 0091-022-604 1111  
Fax : 0091-022-645 7523

## UNIPHOS Gas Detector Strips

They are paper strips impregnated with sensing chemicals by a special process to detect the target gases like PH<sub>3</sub>, HCN, H<sub>2</sub>S, etc. The strip on exposure to the target gas changes its colour. The time it takes to change the colour is related to the target gas concentration.

They provide a simple and cost effective method of gas detection at TLV of the specified gases.



## UNIPHOS Smoke Tubes



The UNIPHOS Smoke tubes are sealed glass tubes filled with a pungent gas producing chemical compound loaded on an inert support material. After cutting both the ends of the tube and passing air by using a specified pump or squeezing a rubber bulb attached at one end of the tube, it produces irritant smoke, coming out of the other end.

UNIPHOS Smoke Generation Tubes can be used for tracking low velocity air movements. These tubes are also useful for respiratory fit testing specified by OSHA, for checking air flow direction in mines, testing the performance of fume hoods, exhaust discharge, dryers, stacks etc.

## UNIPHOS Charcoal Tubes



The UNIPHOS Charcoal tubes are sealed glass tubes filled with two columns of accurately weighed, high purity coconut shell charcoal. These tubes adsorb non polar solvent vapors and gases passing through them.

The UNIPHOS Charcoal tubes fit into a variety of holders and are used along with specified air sampling pump & flow meter.

The charcoal tubes are used to monitor personal exposure to organic vapors and aerosols. This is a NIOSH approved method for air sampling.

## Dissolved Ion Detector tubes

The UNIPHOS Dissolved Ion Detector tube provides a rapid, fully quantitative analysis of the concentration of sulphide/chloride ions in water.

The tube requires no pump because the inherent capillary action of water through the support material provides the driving force for the sample to rise.



**UNIPHOS Envirotonic Inc.**  
2245 Texas Drive, Suite 300  
Sugarland, TX 77479  
USA.  
Toll Free No.: 1-844-247-0450



Certificate No. IND14.8959U/Q  
Email: [brent.yaschuk@uniphos.com](mailto:brent.yaschuk@uniphos.com)  
Web: [www.uniphosamericas.com](http://www.uniphosamericas.com)

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# UNIPHOS GAS DETECTOR TUBES

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Sr. no.	GAS / VAPOUR	TLV (TWA)PPM	RANGE (PPM)	Sr. no.	GAS / VAPOUR	TLV (PPM)	RANGE (PPM)
01	Acetaldehyde	C25	10 - 300	40	Diethyl ether	400	0.04 - 1%
02	Acetic Acid	10	2.5 - 50	41	Diesel	100 mg/m <sup>3</sup>	0.1 - 5 mg/l
03	Acetone	500	50 - 4000	42	D.M.F.	10	2 - 30
04	Acrolein	C0.1	10 - 800	43	Dimethyl sulphide	10	0.5 - 10
05	Acid Gases	-	2 - 40	44	1,4 Dioxane	20	0.07 - 4%
06	Acrylonitrile	2	5 - 120	45	Ethanol	1000	0.05 - 5%
07	Acetylene	-	100 - 5000	46	Ethanolamine	3	4.45 - 89
08	Amines	-	5 - 100	47	Ethyl Acetate	400	0.1 - 5%
09	Ammonia	25	2.5 - 50	48	Ethylamine	5	4.25 - 85
			5 - 100	49	Ethyl Benzene	100	5 - 150
			10 - 300				30 - 400
			50 - 1000	50	Ethyl Formate	100	20 - 500
			250 - 5000	51	Ethyl Mercaptan	0.5	1 - 20
			0.5 - 10%				5 - 120
			1 - 30%				25 - 500
10	Aniline	2	2 - 30	52	Ethylene Dibromide	0.5	1 - 50
11	Arsine	0.005	1 - 30	53	Ethylene Glycol	C:100mg/m <sup>3</sup>	10-100mg/m <sup>3</sup>
12	Aviation Oil	0.2 mg/l	0.1 - 5 mg/l	54	Ethylene Oxide	1	1 - 100
13	Benzene	0.5	0.25 - 12				0.05 - 3%
			2.5 - 50	55	Formaldehyde	C0.3	0.1 - 5
			5 - 100				5-100
14	Bromine	0.1	1 - 20	56	Formic Acid	5	1 - 15
			5 - 100	57	Furan	-	0.01 - 1%
15	Butadiene	2	1 - 20	58	Furfural	2	1 - 16
			5 - 100	59	Gasoline	300	0.03 - 0.6%
16	1 - Butanol	20	10 - 150	60	n - Hexane	50	10 - 1200
17	2 - Butanol	100	10 - 150				0.025 - 0.6%
18	Butyl Acetate	150	0.005-1%	61	n - Heptane	400	15 - 1800
19	Butyl Acrylate	2	5 - 60				0.05 - 1.41%
20	n - Butane	800	50 - 1400	62	Hydrazine	0.01	0.1 - 2
21	n - Butylamine	C5	5 - 100	63	Hydrocarbon (General)	-	10 - 1200
22	Carbon Dioxide	5000	0.03 - 0.5%				0.025 - 0.6%
			0.25 - 3%	64	Hydrogen	-	0.05 - 0.8%
			0.5 - 10%	65	Hydrogen Chloride	C2	1 - 10
			1 - 20%				2 - 20
			5 - 60%				5 - 100
23	Carbon Disulphide	1	2.5 - 50	66	Hydrogen Cyanide	C4.7	2.5 - 50
			5 - 100				5 - 100
			50 - 1600				50 - 1000
24	Carbon Monoxide	25	1 - 30	67	Hydrogen Fluoride	0.5	0.5 - 30
			5 - 100	68	Hydrogen Selenide	0.05	5 - 100
			25 - 600	69	Hydrogen Sulphide	10	0.5 - 7
			50 - 1000				0.5 - 10
			100 - 3000				1 - 30
			0.01 - 0.7%				2.5 - 60
			0.1 - 7%				5 - 100
			1 - 20%				10 - 250
25	Carbon Monoxide in H <sub>2</sub>	25	5 - 100				50 - 800
			100 - 3000				100 - 2000
26	Carbon Tetrachloride	5	1 - 60				0.1 - 2%
27	Carbonyl Sulphide	-	5 - 100				0.5 - 4%
28	Chlorine	0.5	0.25 - 5				0.2 - 7%
			2.5 - 50				0.5 - 10%
			5 - 100				2 - 40%
			50 - 500	70	H <sub>2</sub> S + SO <sub>2</sub>	H <sub>2</sub> S:10, SO <sub>2</sub> :2	2.5 - 60 + 0.5 - 10
29	Chlorine Dioxide	0.1	0.1 - 5				0.1 - 2.5%
30	Chlorobenzene	10	10 - 200	71	Isopropyl Alcohol	400	2.5 - 50
31	Chloropicrin	0.1	0.1 - 16	72	Isopropyl Amine	5	0.013 - 0.34%
32	o - Cresol	5	1 - 25	73	Isopropyl Ether	250	100 - 50000
33	Cyclohexane	100	10 - 1200	74	LP Gas	1000	1 - 20
			0.025 - 0.6%	75	Maleic Anhydride	0.1	100 - 5000
34	Cyclohexanone	20	2 - 100	76	Methanol	200	0.05 - 6%
35	Cyclohexylamine	10	0.5 - 30				5 - 100
36	1,2 Dichlorobenzene	25	10 - 300	77	Methylamine	5	0.02 - 0.6%
37	1,2 Dichloroethane	10	5 - 50	78	M.E.K.	200	0.02 - 0.6%
38	1,2 Dichloroethylene	200	20 - 400	79	M.I.B.K	50	0.02 - 0.6%
39	Diethyl Amine	5	2 - 20				



Sr. no.	GAS / VAPOUR	TLV (PPM)	RANGE (PPM)
80	Mercury Vapour	0.025 mg/m <sup>3</sup>	0.1 - 2 mg/m <sup>3</sup>
81	Methyl Bromide	1	1 - 18 10 - 100 20 - 300 50 - 1000
82	Methylene chloride	50	50 - 500 30 - 1000
83	Methyl Cyclohexane	400	100 - 1600
84	Methyl Iodide	2	500 - 15000
85	Methyl Mercaptan	0.5	1 - 20 5 - 120
86	Morpholine	20	10 - 200
87	Nitrogen Dioxide	3	0.5 - 30 10 - 1000
88	Nitrogen Oxides	NO <sub>2</sub> : 3 NO : 25	0.5 - 15 20 - 250 100 - 2500
89	Nitric Acid	2	1 - 20
90	Octane	300	3 - 23 mg/l
91	Oxygen	-	3 - 24%
92	Ozone	0.08	5 - 100 25 - 500
93	n - Pentane	600	7 - 840 0.0085-0.2 %
94	Phenol	5	1 - 25
95	Phosphine	0.3	0.05 - 2.5 0.3 - 5 0.1 - 10 5 - 100 50 - 1000 150 - 3000 300 - 8000
96	Phosgene	0.1	0.1 - 10
97	Pyridine	1	1 - 14
98	Sulphur Dioxide	2	0.5 - 10 1 - 25 20 - 300 5 - 100 500 - 8000 0.1 - 3% 0.25 - 5%
99	Sulphuric Acid	3 mg/m <sup>3</sup>	0.5 - 5 mg/m <sup>3</sup>
100	Stoddard Solvent	100	50 - 8000 mg/m <sup>3</sup>
101	Styrene	20	25 - 250
102	t - Butyl amine	-	3.9 - 78
103	t- butyl Mercaptan	0.5	0.5 - 15 mg/m <sup>3</sup> 0.5 - 30 mg/m <sup>3</sup> 5 - 120
104	Tetrahydrofuran	50	50 - 800
105	Tetrachloroethylene	25	5 - 100
106	Trichloroethylene	10	1 - 16 10 - 250 0.05 - 1%
107	Triethylamine	1	2.15 - 43
108	Trimethylamine	5	1.7 - 34
109	Toluene	20	2 - 50 10 - 300
110	UDMH	0.01	0.1 - 2
111	Vinyl Chloride	1	1 - 20 ppm 0.05 - 1%
112	Water Vapour	-	2 - 10 lb/MMCF 6 - 40 lb/MMCF 0.1 - 2 mg / l 1 - 18 mg / l 1 - 30 mg/l 25 - 1000
113	Xylene	100	
114	Inorganic gases tube	(Multigas tube)	



### UNIPHOS CHARCOAL TUBES

Type	Size (mm) OD x Length	Sorbent weight A/B (mg)
Standard	6 x 70	50 / 100
Large	8 x 110	200 / 400
Jumbo	10 x 110	200 / 800
Open end - Standard	6 x 70	50 / 100
Open end - Large	8 x 110	200 / 400
Open end - Jumbo	10 x 110	200 / 800

### UNIPHOS DISSOLVED ION DETECTOR TUBES

GAS	RANGE(ppm)
Sulphide ion	0.5 - 20
Sulphide ion	2 - 300
Sulphide ion	1-100
Chloride ion	5 - 200
Chloride ion	10 - 2000

### UNIPHOS DOSIMETER TUBES

GAS	RANGE(ppm)
Phosphine	(1-200) x 10 <sup>3</sup>
Phosphine	(1-200) x 10 <sup>2</sup>
Ammonia	25 - 500
Carbon dioxide	(5 - 120) x 10 <sup>3</sup>
Oxygen	(1 - 100) x 150

### UNIPHOS TOXIC GAS DETECTOR STRIPS

GAS	RANGE(ppm)
Phosphine	0.3 - 10
Hydrogen sulphide	1 - 20
Hydrogen cyanide	1 - 20
Mercaptan	0.5 - 10
Arsine	0.05 - 3