

# Uniphos Detector Tube Data Sheet

Direct Reading Length of Stain Type

## Multigas Detector Tube

# SMG-1

TWA (TLV): N.A.

STEL (TLV): N.A.

Flammable Range: N.A.

### Specification:

Measurement Range	Qualitative
No. of Pump Strokes	1 (100 mL)
Sampling Time	3.0 minute per pump stroke (100 mL)
Color Change	Refer chart given below
Storage condition	Below 10°C (50°F)
Calibration condition	Calibrated at 20°C (68°F) and 50% RH.

\* Multiply the observed reading by the correction factor (VCF) to obtain the true concentration.

### Chart for gas concentration level versus colour change of multigas detector tube:

Compound	Concentration (ppm)	Colour change / Comments
Ammonia	40	Yellow to Blue
	5	Yellow to Blue
Amines	50	Yellow to Blue
	5	Yellow to Blue
SO <sub>2</sub>	20	Blue to Yellow
	2	Blue to Yellow
Acetic Acid	50	Blue to Yellow
HCl	300	Blue to Yellow
Cl <sub>2</sub>	20	Blue to Yellow
	5	Blue to Yellow
NO <sub>2</sub>	20	Blue to Violet
	5	White to Yellow
H <sub>2</sub> S	20	White to Brown
	10	White to Brown
CO	50	Whole layer changes Yellow to brown
	10	Whole layer changes Yellow to light brown
PH <sub>3</sub>	30	Yellow to Black
	2	Yellow to Black
Acetylene	600	Whole layer changes Yellow to dark brown
CH <sub>3</sub> SH	10	Yellow to Dark brown
	100	Yellow to Dark brown

### Interferences:

This tube is not specific to any one particular gas. If gases with similar chemical property are present along with the gases listed in the chart it can produce colour change due to their interference

### Correction for Environmental Parameters:

Temperature	Not necessary between 0 - 40°C (32 - 104°F).
Relative humidity	Not necessary between 10 - 90 %.



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Rev.1012