

**Performance**

Measuring Range	20 to 50 ppm	50 to 1000 ppm	1000 to 2700 ppm
Number of Pump Strokes	2	1	1/2
Correction Factor	0.4	1	2.7
Sampling Time	1 minute per pump stroke		
Detecting Limit	2 ppm (n=2)		
Colour Change	White → Yellow		
Reaction Principle	$2\text{CH}_3\text{SH} + \text{PdSO}_4 \longrightarrow (\text{CH}_3\text{S})_2\text{Pd} + \text{H}_2\text{SO}_4$		
Coefficient of Variation	10% (for 50 to 200 ppm), 5% (for 200 to 1000 ppm)		
Shelf Life	3 Years		
Corrections for temperature & humidity	Unnecessary		
Store the tubes at cool and dark place.			

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Carbon monoxide	-	No effect	No discoloration
Nitrogen dioxide	-	No effect	No discoloration
Hydrogen sulphide	≥1000 ppm	Plus error	No discoloration
Ethylene	-	No effect	No discoloration
Mercaptans	-	Plus error	Discolours yellow stain

Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
Ethyl mercaptan	by scale	1	100 to 3800ppm

Calibration gas generation Static gas dilution method

TLV-TWA	TLV-STEL	Explosive range
0.5ppm	-	3.9 to 21.8%