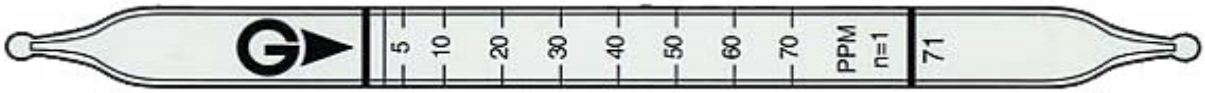
Methyl mercaptan CH_3SH NO.71



Performance

Measuring Range	0.25 to 2.5 ppm	2.5 to 70 ppm	70 to 140 ppm
Number of Pump Strokes	2 to 10	1	1/2
Correction Factor	1/2 to 1/10	1	2
Sampling Time	2 minutes per pump stroke		
Detecting Limit	0.1 ppm (n=10)		
Colour Change	White → Yellow		
Reaction Principle	$2CH_3SH + PdSO_4 \longrightarrow (CH_3S)_2\,Pd + H_2SO_4$		
Coefficient of Variation	10% (for 2.5 to 20 ppm), 5% (for 20 to 70 ppm)		
Shelf Life	3 Years		
Corrections for temperature & humidity	Temperature correction is necessary		
Store the tubes at cool and dark place.			

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Acetylene, Ethylene	≦2000 ppm	No (two layers)	Discolour pale brown to whole layer
Carbon Monoxide	≦2000 ppm	No (two layers)	Discolour pale brown to whole layer
Other Mercaptans	-	Plus error	Discolour yellow stain
Hydrogen Sulfide	≦500 ppm	No effect	No stain

Calibration gas generation Permeation tube method

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