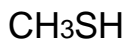
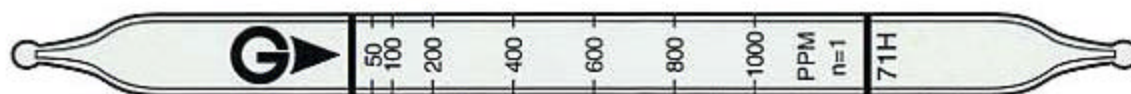


# Methyl mercaptan



NO.71H



## Performance

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

## Possible coexisting substances and their interferences (NOTE)

Substance	Concentration	Interference	Change color by itself
Carbon monoxide	-	No effect	No discoloration
Nitrogen dioxide	-	No effect	No discoloration
Hydrogen sulfide	1000 ppm	Plus error	No discoloration
Ethylene	-	No effect	No discoloration
Mercaptans	-	Plus error	Discolors 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

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



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