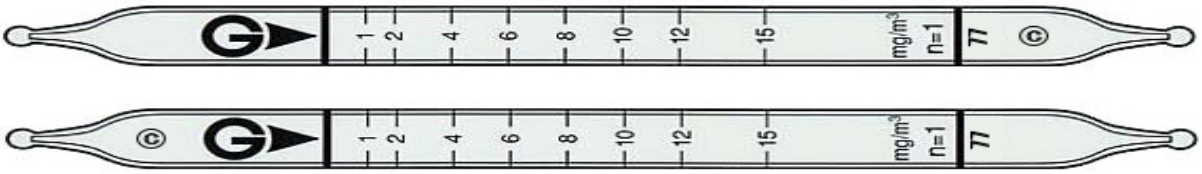
tert-Butyl mercaptan & Dimethyl Sulphide $(CH_3)_3CSH$ NO.77



Performance (Simultaneous detector tube)

Detector Tube	TBM Tube	DMS Tube
Measuring Range	1 to 15 mg/m^3	1 to 15 mg/m^3
Number of Pump Stroke	1	1
Correction Factor	1	1
Sampling Time	3 minutes per pump stroke	
Detecting Limit	0.2 mg/m^3 (n=1)	
Colour Change	Yellow → Pink	Pink → Pale yellow
Reaction Formula	**tert-Butyl Mercaptan Tube** TBM reacts with mercuric chloride to liberate hydrogen chloride to discolour the indicator to pink. **Dimethyl Sulfide Tube** DMS reduces potassium permanganate to discolour the reagent to pale yellow.	
Coefficient of Variation	10% (for 1 to 5 mg/m^3), 5% (for 5 to 15 mg/m^3)	
Shelf Life	2 Years	
Corrections for temperature & humidity	Temperature correction is necessary	Temperature correction is unnecessary
Store the tubes in the refrigerator to keep at 10°C (50°F) or below.		

Possible coexisting substances and their interferences

For tert-Butyl Mercaptan Tube

Substance	Concentration	Interference	Change colour by itself
Hydrogen sulphide	-	Plus error	Discolour to Pink
Mercaptans	-	Plus error	Discolour to Pink

For Dimethyl Sulphide Tube

Substance	Concentration	Interference	Change colour by itself
Olefins	-	Plus error	Discolour to Pale yellow
Tetrahydrothiophene	-	Plus error	Discolour to Pale yellow

Calibration gas generation TBM Tube:Diffusion tube method
DMS Tube:Permeation tube method

TLV-TWA	TLV-STEL	Explosive range
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