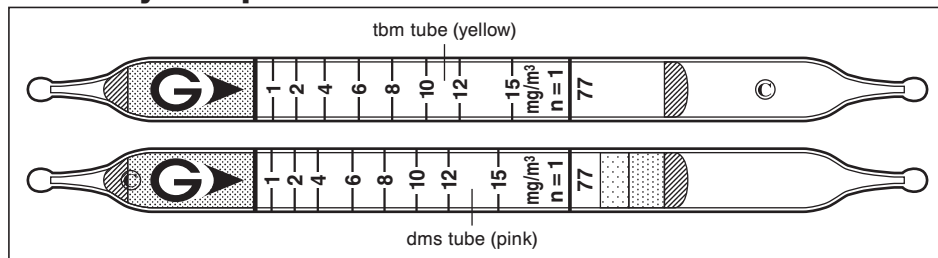


tert-Butyl Mercaptan $(\text{CH}_3)_3\text{CSH}$ and Dimethyl Sulphide $(\text{CH}_3)_2\text{S}$

No.77



Performance

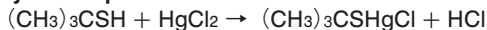
Detector tube	TBM Tube	DMS Tube
Measuring range	1-15 mg/m^3	1-15 mg/m^3
Number of pump stroke	1 (100 ml)	1 (100 ml)
Correction factor	1	1
Sampling time	2 min	
Detecting limit	0.2 mg/m^3 (n = 1)	0.2 mg/m^3 (n = 1)
Colour change	Yellow → Pink	Pink → Pale Yellow
Corrections for temperature & humidity	Temperature correction is necessary.	Unnecessary

Relative standard deviation : 10 % (for 1 to 5 mg/m^3), 5 % (for 5 to 15 mg/m^3)

Shelf life : 2 years (in the refrigerator)

Reaction principle

tert-Butyl Mercaptan Tube



Dimethyl Sulphide Tube



Possible coexisting substances and their interferences

For tert-Butyl Mercaptan Tube

Substance	Concentration	Interference	Changes colour by itself to
Mercaptans		+	Pink
Hydrogen sulphide		+	Pink

For Dimethyl Sulphide Tube

Substance	Concentration	Interference	Changes colour by itself to
Olefins		+	Pale yellow
Tetrahydrothiophene		+	Pale yellow

Hydrogen sulphide and Mercaptans do not give any effect on tube reading of DMS until the primary tube (TBM) become wholly discoloured.

Calibration gas generation

For tert-Butyl Mercaptan Tube : Diffusion tube method

For Dimethyl Sulphide Tube : Permeation tube method