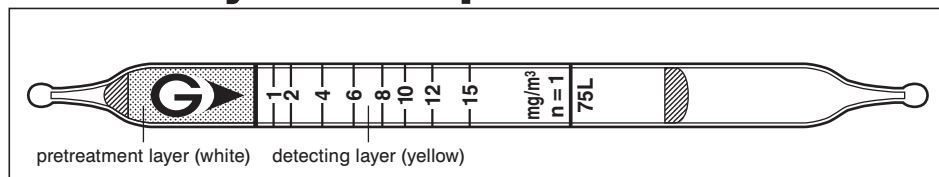


# tert-Butyl Mercaptan (CH<sub>3</sub>)<sub>3</sub>CSH No.75L



## Performance

Measuring range	0.5 to 1 mg/m <sup>3</sup>	1 to 15 mg/m <sup>3</sup>	15 to 30 mg/m <sup>3</sup>
Number of pump strokes	2 (200 ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	1/2	1	2
Sampling time	3 min	1.5 min	45 sec

Detecting limit : 0.1 mg/m<sup>3</sup> (2 pump strokes)

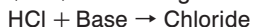
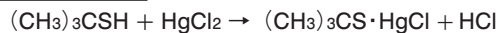
Colour change : Yellow → Pink

Corrections for temperature & humidity : Temperature correction is necessary.

Relative standard deviation : 10 % (for 1 to 4 mg/m<sup>3</sup>), 5 % (for 4 to 15 mg/m<sup>3</sup>)

Shelf life : 2 years (in the refrigerator)

## Reaction principle



## Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Hydrogen sulphide		+	} Pink
Other mercaptans		+	
Dimethyl disulphide		No	No

## Other substance measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
2-Mercaptoethanol	Factor : 0.5	1	0.5 to 7.5 ppm

## Calibration gas generation

Diffusion tube method

## Special note

tert-Butyl mercaptan is used as an odorant in fuel gases for warning of their leakage.