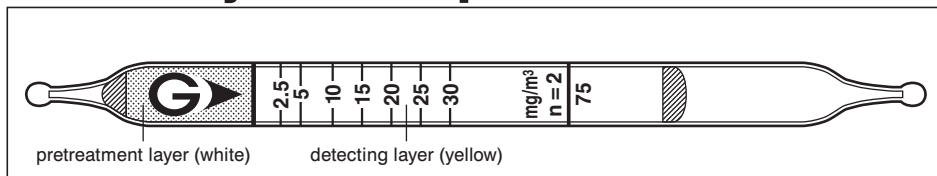


# tert-Butyl Mercaptan (CH<sub>3</sub>)<sub>3</sub>CSH No.75



## Performance

Measuring range	2.5 to 30 mg/m <sup>3</sup>	30 to 60 mg/m <sup>3</sup>	60 to 150 mg/m <sup>3</sup>
Number of pump strokes	2 (200 ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	1	2	5
Sampling time	3 min	1.5 min	45 sec

Detecting limit : 0.5 mg/m<sup>3</sup> (2 pump strokes)

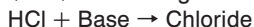
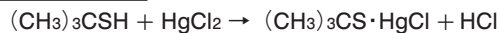
Colour change : Yellow → Red

Corrections for temperature & humidity : Temperature correction is necessary.

Relative standard deviation : 10 % (for 2.5 to 10 mg/m<sup>3</sup>), 5 % (for 10 to 30 mg/m<sup>3</sup>)

Shelf life : 2 years

## Reaction principle



## Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Hydrogen sulphide		+	} Red
Other mercaptans		+	
Phosphine		+	

Water vapour is trapped in the pretreatment (white) layer.

## Calibration gas generation

Diffusion tube method

## Special note

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