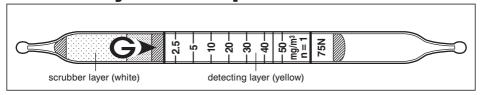
# tert-Butyl Mercaptan (CH3)3CSH No.75N



## Performance

Measuring range	1.25 to 2.5 mg/m <sup>3</sup>	2.5 to 50 mg/m <sup>3</sup>	50 to 250 mg/m <sup>3</sup>
Number of pump strokes	2 (200 ml)	1 (100 ml)	1/2(50 ml)
Correction factor	1/2	1	5
Sampling time	3 min	1.5 min	45 sec

Detecting limit: 0.5 mg/m³ (2 pump strokes)

Colour change : Yellow → Pink

Corrections for temperature & humidity : Temperature correction is necessary.

Humidity correction is necessary.

Relative standard deviation :  $10 \% (for 2.5 to 20 mg/m^3), 5 \% (for 20 to 50 mg/m^3)$ 

Shelf life: 2 years

### Reaction principle

tert-Butyl mercaptan reacts with the reagent to form intermediate material which stains indicator pink.

## Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Hydrogen sulphide		+	]
Phosphine		+	Pink
Other mercaptans		+	J
Methane		No	No
Propane	≦ 30 %	No	No
Cyclohexene	$\leq 1000 (mg/m^3)$	No	No
Dimethyl sulphide	$\leq 25 (mg/m^3)$	No	No

### Calibration gas generation

Diffusion tube method

## Special note

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