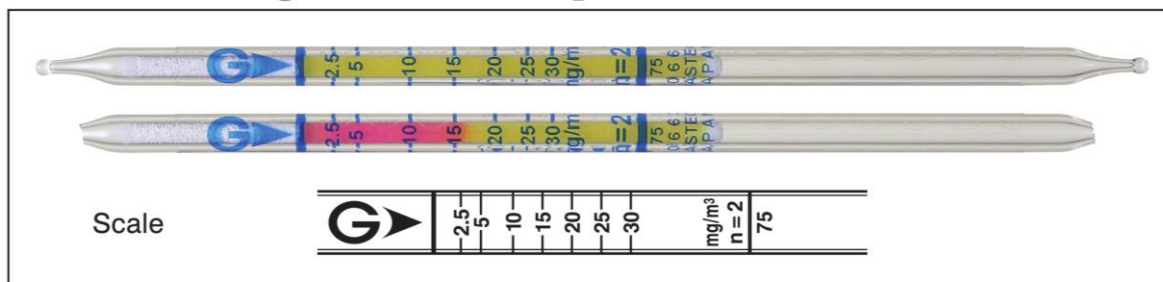




## tert-Butyl Mercaptan (CH<sub>3</sub>)<sub>3</sub>CSH

Part No.:75

# 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

Operating conditions : Temperature 0 to 40 °C (32 to 104 °F) correction used

Relative humidity 0 to 90 % correction not used

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

Tube quantity and number of tests per box : 10 tubes for 10 tests

Shelf life : 36 months

### Reaction principle



HCl + Base → Chloride

### 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.