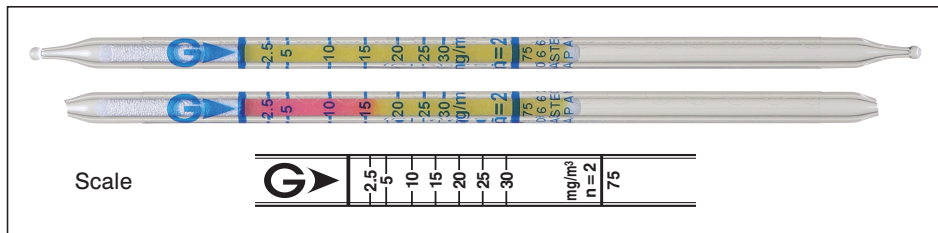


tert-Butyl Mercaptan (CH₃)₃CSH No.75

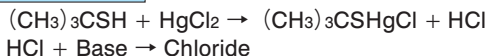


Performance

Measuring range	2.5 to 30 mg/m ³	30 to 60 mg/m ³	60 to 150 mg/m ³
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 ³ (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 ³), 5 % (for 10 to 30 mg/m ³)
Tube quantity and number of tests per box :	10 tubes for 10 tests
Shelf life :	36 months

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.