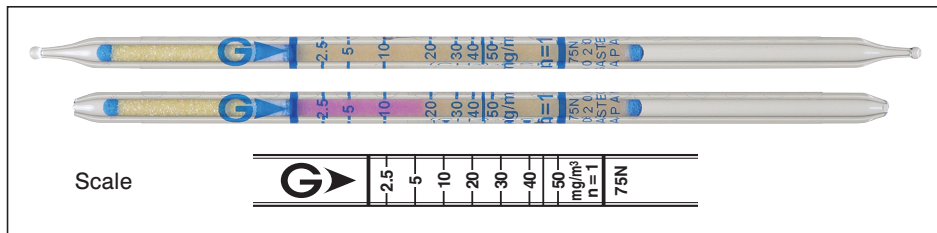


tert-Butyl Mercaptan (CH₃)₃CSH No.75N



Performance

Measuring range	1.25 to 2.5 mg/m ³	2.5 to 50 mg/m ³	50 to 250 mg/m ³
Number of pump strokes	2 (200 mL)	1 (100 mL)	1/2 (50 mL)
Correction factor	0.5	1	5
Sampling time	3 min	1.5 min	45 sec
Detecting limit :	0.5 mg/m ³ (2 pump strokes)		
Colour change :	Yellow → Pink		
Operating conditions :	Temperature 0 to 40 °C (32 to 104 °F) correction used Relative humidity 0 to 90 % correction used		
Relative standard deviation :	10 % (for 2.5 to 20 mg/m ³), 5 % (for 20 to 50 mg/m ³)		
Tube quantity and number of tests per box :	10 tubes for 10 tests		
Shelf life :	24 months		

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		+	} Pink
Phosphine		+	
Other mercaptans		+	
Methane		No	No
Propane	≧ 30 %	No	No
Cyclohexene	≧ 1000 mg/m ³	No	No
Dimethyl sulphide	≧ 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.