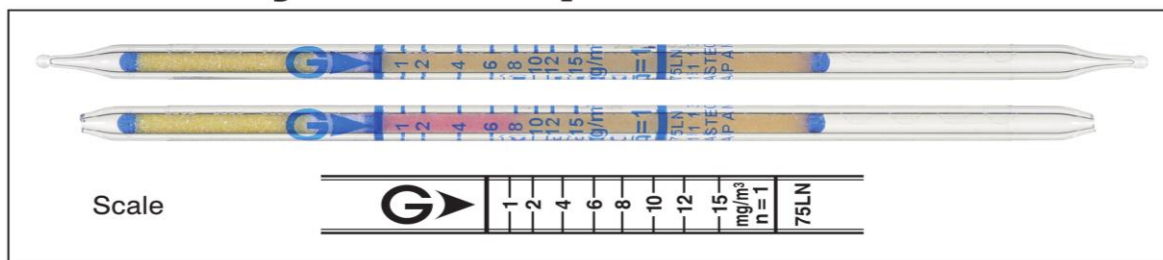




tert-Butyl Mercaptan (CH₃)₃CSH

Part No.:75LN

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Performance

Measuring range	0.5 to 1 mg/m ³	1 to 15 mg/m ³	15 to 39 mg/m ³
Number of pump strokes	2 (200 mL)	1 (100 mL)	1/2 (50 mL)
Correction factor	1/2	1	2.6
Sampling time	3 min	1.5 min	45 sec

Detecting limit : 0.3 mg/m³ (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 1 to 4 mg/m³), 5 % (for 4 to 15 mg/m³)

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

Shelf life : 24 months (in the refrigerator)

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		+	
Dimethyl disulphide	≤ 3.85 mg/m ³	No	No (≤ 3.85 mg/m ³)
Methane		No	No
Propane	≤ 30 %	No	No (≤ 30 %)
Propylene	≤ 2 %	No	No (≤ 2 %)
Cyclohexene	≤ 35 mg/m ³	No	No
Dimethyl sulphide	≤ 15 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.