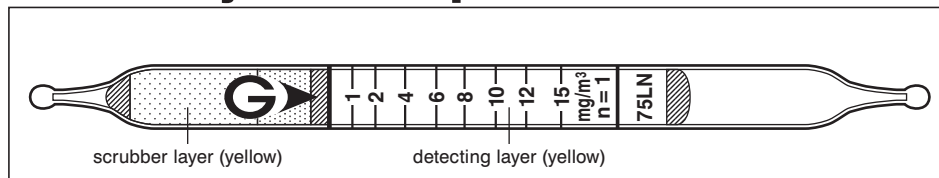


tert-Butyl Mercaptan (CH₃)₃CSH No.75LN



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

Corrections for temperature & humidity : Temperature correction is necessary
Humidity correction is necessary

Relative standard deviation : 10 % (for 1 to 4 mg/m³), 5 % (for 4 to 15 mg/m³)

Shelf life : 2 years (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.