

Performance

When used, these tubes are to be connected.

Detector tube	TBM Tube	DMS Tube
Measuring range	1 to 15 mg/m ³	1 to 15 mg/m ³
Number of pump stroke	1 (100 mL)	1 (100 mL)
Correction factor	1	1
Sampling time	2 min	
Detecting limit	0.2 mg/m ³ (n = 1)	0.2 mg/m ³ (n = 1)
Colour change	Yellow → Pink	Pink → Pale yellow

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

TBM tube ; Relative humidity 0 to 80 % correction not used

DMS tube ; Temperature 0 to 40 °C (32 to 104 °F) correction not used

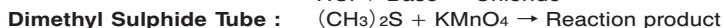
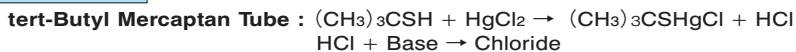
DMS tube ; Relative humidity 0 to 80 % correction not used

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

Tube quantity and number of tests per box : 10 tubes for 5 tests

Shelf life : 24 months (in the refrigerator)

Reaction principle



Possible coexisting substances and their interferences

For tert-Butyl Mercaptan Tube

Substance	Concentration	Interference	Changes colour by itself to
Mercaptans, Hydrogen sulphide		+	Pink

For Dimethyl Sulphide Tube

Substance	Concentration	Interference	Changes colour by itself to
Olefins, Tetrahydrothiophene		+	Pale yellow

Hydrogen sulphide and Mercaptans do not give any effect on tube reading of DMS until the primary tube (TBM) become wholly discoloured.

Calibration gas generation

For tert-Butyl Mercaptan Tube : Diffusion tube method

For Dimethyl Sulphide Tube : Permeation tube method