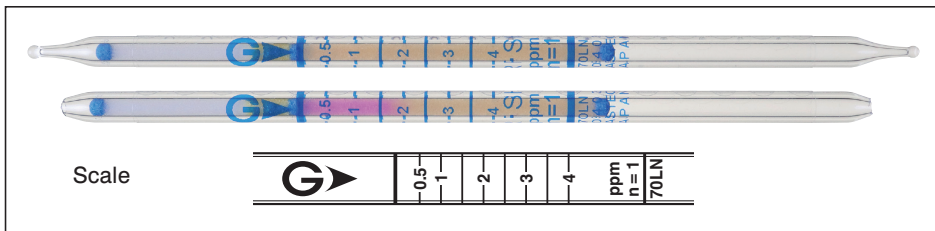


Mercaptans R-SH

No. 70LN



Performance

This detector tube is calibrated with Methyl mercaptan.

Measuring range	0.1 to 0.2 ppm	0.2 to 0.5 ppm	0.5 to 4 ppm	4 to 8 ppm
Number of pump strokes	4 (400 mL)	2 (200 mL)	1 (100 mL)	1/2 (50 mL)
Correction factor	0.2	0.4	1	2
Sampling time	6 min	3 min	1.5 min	45 sec

Detecting limit :	0.05 ppm (4 pump strokes)
Colour change :	Yellow → Pink
Operating conditions :	Temperature 0 to 40 °C (32 to 104 °F) correction not used Relative humidity 0 to 90 % correction not used
Relative standard deviation :	5 % (for 0.5 to 4 ppm)
Tube quantity and number of tests per box :	10 tubes for 10 tests
Shelf life :	24 months (in the refrigerator)

Reaction principle

Mercaptans react 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 chloride	≤ 50 ppm	No	No
Hydrogen sulphide	≤ 200 ppm	No	No

Up to 200 ppm of hydrogen sulphide is trapped in the pretreatment (white) layer.

Substances measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Methyl mercaptan	Factor : 0.2	4	0.1 to 0.2 ppm
	Factor : 0.4	2	0.2 to 0.5 ppm
	Factor : 1	1	0.5 to 4 ppm
	Factor : 2	1/2	4 to 8 ppm
Ethyl mercaptan	Factor : 0.25	4	0.13 to 0.25 ppm
	Factor : 0.5	2	0.25 to 0.55 ppm
	Factor : 1.1	1	0.55 to 4.4 ppm
	Factor : 2.6	1/2	4.4 to 10.4 ppm
tert-Butyl mercaptan	by scale	1	1 to 40 ppm
1-Propanethiol (Propyl mercaptan)	by scale	1	1 to 25 ppm

Calibration gas generation

Permeation tube method

(Last updated: Feb. 2024)