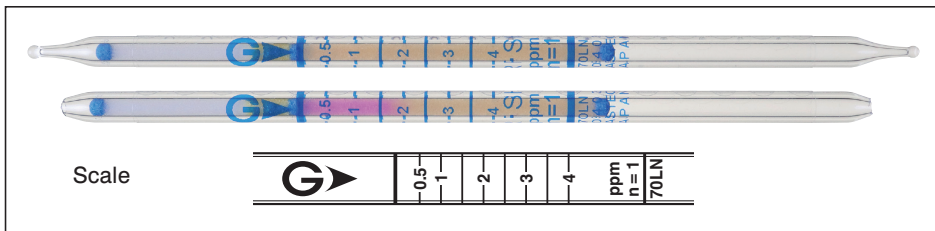


# Mercaptans R-SH

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