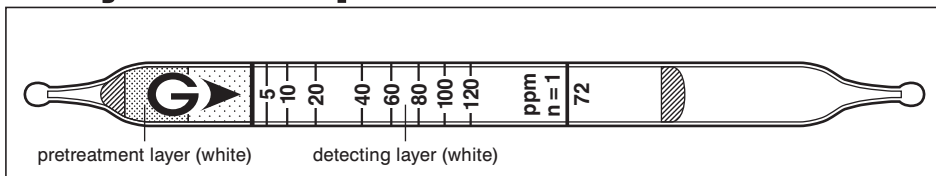


# Ethyl Mercaptan C<sub>2</sub>H<sub>5</sub>SH

No.72



## Performance

Measuring range	0.5 to 5 ppm	5 to 120 ppm
Number of pump strokes	2 to 10 (200 to 1000 ml)	1 (100 ml)
Correction factor	1/2 to 1/10	1
Sampling time	4 to 20 min	2 min

Detecting limit : 0.2 ppm (10 pump strokes)

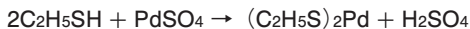
Colour change : White → Yellow

Corrections for temperature & humidity : Temperature correction is necessary.

Relative standard deviation : 10 % (for 5 to 40 ppm), 5 % (for 40 to 120 ppm)

Shelf life : 3 years

## Reaction principle



## Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Acetylene	≧ 2000 ppm	+	} Pale brown (whole layer)
Carbon monoxide	≧ 2000 ppm	+	
Ethylene	≧ 2000 ppm	+	
Hydrogen sulphide	≧ 500 ppm	+	No
Mercaptans		+	Yellow

Up to 500 ppm of hydrogen sulphide is trapped in the pretreatment (white) layer.

## Calibration gas generation

Diffusion tube method