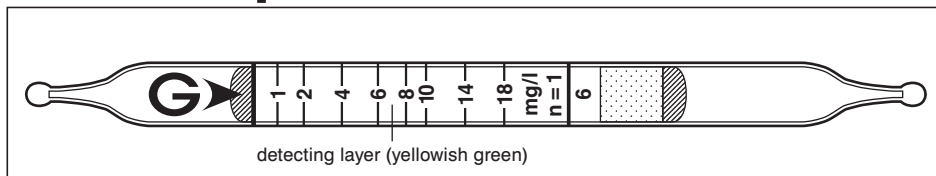


# Water Vapour H<sub>2</sub>O

No.6



## Performance

Measuring range	0.5 to 1 mg/l	1 to 18 mg/l	18 to 32 mg/l
Number of pump strokes	2 (200 ml)	1 (100 ml)	1/2 (50 ml)
Correction factor	1/2	1	by correction table
Sampling time	1.5 min	45 sec	30 sec

Detecting limit : 0.1 mg/l (2 pump strokes)

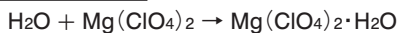
Colour change : Yellowish green → Purple

Corrections for temperature & humidity : Temperature correction is necessary.

Relative standard deviation : 10 % (for 1 to 6 mg/l), 5 % (for 6 to 18 mg/l)

Shelf life : 3 years

## Reaction principle



## Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Acrylonitrile	≧ 5000 ppm	+	No
Alcohols	≧ 2000 ppm	+	
Ammonia	≧ 1000 ppm	+	
Esters	≧ 5000 ppm	+	
Hydrogen chloride	≧ 2000 ppm	+	
Hydrogen cyanide	≧ 500 ppm	+	
Hydrogen sulphide		No	
Ketones, Aldehydes	≧ 2000 ppm	+	
Nitrogen dioxide	≧ 500 ppm	+	
Sulphur dioxide	≧ 2000 ppm	+	

## Calibration gas generation

Vapour pressure method