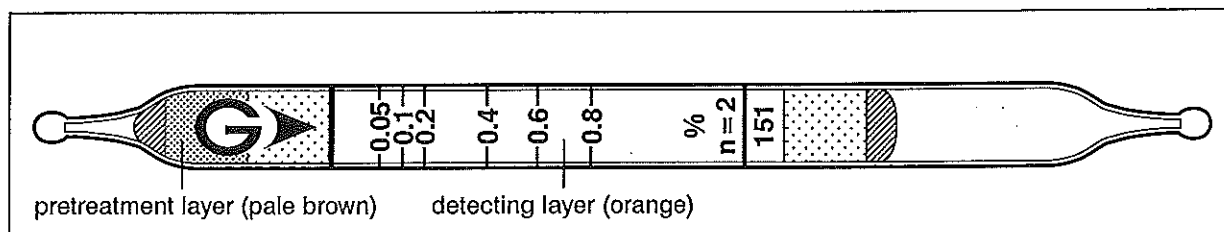


# Acetone $\text{CH}_3\text{COCH}_3$

No.151



## Performance

Measuring range	0.05 to 0.8 %	0.8 to 2.0 %
Number of pump strokes	2 (200 ml)	1 (100 ml)
Correction factor	1	2.5
Sampling time	3 min	1.5 min

Detecting limit : 0.003 % (2 pump strokes)

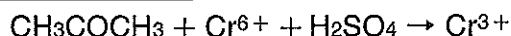
Colour change : Orange → Dark green

Corrections for temperature & humidity : Temperature correction is necessary.

Relative standard deviation : 10 % (for 0.05 to 0.2 %), 5 % (for 0.2 to 0.8 %)

Shelf life : 3 years

## Reaction principle



## Possible coexisting substances and their interferences (NOTE : Page 2-5)

Substance	Concentration	Interference	Changes colour by itself to
Propane	$\geq 0.2\%$	+	Dark green (whole layer)
Aromatic hydrocarbone	$\geq 500$ ppm	+	
Hydrogen sulphide	$\geq 500$ ppm	+	Dark green
Alcohols, Esters, Ketones		+	
Sulphur dioxide	$\geq 500$ ppm	+	Green

Water vapour is trapped in the pretreatment (pale brown) layer.

## Other substance measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Cyclohexene	Factor : 1.0	1	0.05 to 0.8%

## Calibration gas generation

Static gas dilution method