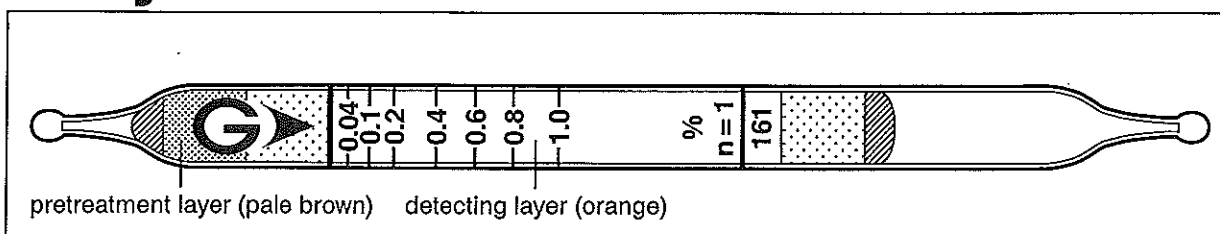


# Ethyl Ether (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>O

No. 161

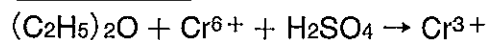


## Performance

Measuring range	0.04 to 1.0 %
Number of pump strokes	1 (100 ml)
Correction factor	1
Sampling time	1.5 min

Detecting limit : 0.001 % (1 pump stroke)  
 Colour change : Orange → Dark green  
 Corrections for temperature & humidity : Temperature correction is necessary.  
 Relative standard deviation : 10 % (for 0.04 to 0.2 %), 5 % (for 0.2 to 1.0 %)  
 Shelf life : 3 years

## Reaction principle



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

Substance	Concentration	Interference	Changes colour by itself to
Acetylene	≥ 0.3 %	+	} Dark green (whole layer)
Propane	≥ 0.2 %	+	
Aromatic hydrocarbons	≥ 500 ppm	+	} Dark green
Alcohols, Esters, Ketones		+	
Hydrogen sulphide	≥ 500 ppm	+	} Green
Sulphur dioxide	≥ 500 ppm	+	

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

## Other substances measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Isopropyl ether	Factor : 0.45	2	0.018 to 0.45 %
Methyl ether	Factor : 0.85	1	0.034 to 0.85 %
Tetrahydrofuran	Factor : 1.4	1	0.056 to 1.4 %
Toluene	by scale	1	0.02 to 0.8 %

## Calibration gas generation

Static gas dilution method