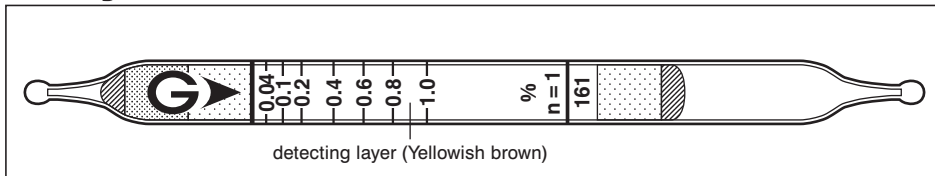


# Ethyl Ether (C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>O

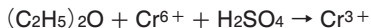
No.161



## 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 :	Yellowish brown → Greenish brown
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

Substance	Concentration	Interference	Changes colour by itself to
Acetylene	≥ 0.3 %	Cannot use	Greenish brown (whole layer) (≥ 0.3 %)
Propane	≥ 0.2 %	Cannot use	Greenish brown (whole layer) (≥ 0.2 %)
Aromatic hydrocarbons	≥ 500 ppm	+	Greenish brown (≥ 500 ppm)
Alcohols, Esters, Ketones		+	Greenish brown
Hydrogen sulphide	≥ 500 ppm	+	} Green (≥ 500 ppm)
Sulphur dioxide	≥ 500 ppm	+	

## 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