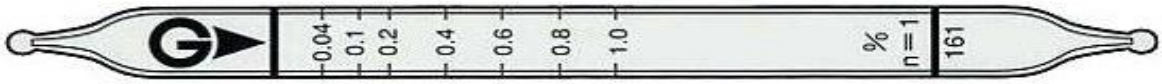
The people with the solutions that protect you and your environment everyday

Gastec Tube Datasheet

Ethyl Ether $(C_2H_5)_2O$ NO.GAS161



Performance

Measuring Range	0.04 to 1.0%
Number of Pump Strokes	1
Correction Factor	1
Sampling Time	2 minutes per pump stroke
Detecting Limit	0.001% (n=1)
Colour Change	Orange ⟶ Dark green
Reaction Principle	Ethyl Ether reacts with Chromic Acid to form Chromic Sulphate, which produces a greenish brown colour. $(C_5H_5)_2O + Cr^{6+} + H_2SO_4 \longrightarrow Cr^{3+}$
Coefficient of Variation	10% (for 0.04 to 0.2 %), 5% (for 0.2 to 1.0 %)
Shelf Life	Up to 3 Years
Corrections for temperature & humidity	Temperature correction is necessary
Store the tubes at cool and dark place.	

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Propane	≧0.2%	Plus error	Produce dark green for whole layer
Alcohols, Esters, Ketones	-	Plus error	Produces dark green stain
Aromatic Hydrocarbons	≧500 ppm	Plus error	Produces dark green stain
Hydrogen Sulphide	≧500 ppm	Plus error	Produces green stain
Sulphur Dioxide	≧500 ppm	Plus error	Produces green stain
Acetylene	≧0.3%	Plus error	Produce dark green for whole layer

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Certificate No 996
ISO 9001, ISO 14001
OHSAS 18001

Other substance measurable with this detector tube

Substance	Correction Factor	Pump Strokes	Measuring Range
Isopropyl Ether	0.45	2	0.018 to 0.45%
Methyl Ether	0.85	1	0.03 to 0.85%
Tetrahydrofuran	1.4	1	0.056 to 1.4%
Toluene	by scale	1	0.02 to 0.8%

Calibration gas generation Static gas dilution method

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