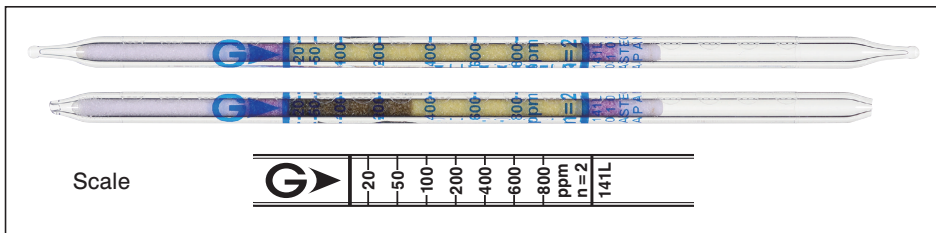


Ethyl Acetate $\text{CH}_3\text{CO}_2\text{C}_2\text{H}_5$

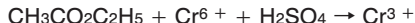
No.141L



Performance

Measuring range	20 to 800 ppm
Number of pump strokes	2 (200 mL)
Correction factor	1
Sampling time	3 min
Detecting limit :	5 ppm (2 pump strokes)
Colour change :	Yellow → Blackish brown (few minutes later) → Pale blue
Operating conditions :	Temperature 5 to 40 °C (41 to 104 °F) correction used Relative humidity 0 to 90 % correction not used
Relative standard deviation :	15 % (for 20 to 200 ppm), 10 % (for 200 to 800 ppm)
Tube quantity and number of tests per box :	10 tubes for 10 tests
Shelf life :	24 months

Reaction principle



Possible coexisting substances and their interferences

Substance	Concentration:	Interference	Changes colour by itself to
Alcohols (Methanol)		+	Pale blue (≥ 20 ppm)
Ketones (Acetone)		+	Blackish brown (≥ 10 ppm)
Esters (Methyl acetate)		+	Blackish brown (≥ 30 ppm)
Aromatic hydrocarbons (Benzene)		+	Pale brown (whole layer) (≥ 30 ppm)
Aromatic hydrocarbons (Toluene)		+	Blackish brown (≥ 1 ppm)

Other substances measurable with this detector tube

Substance	Correction	No. of pump strokes	Measuring range
Cymene	Factor : 0.12	2	2.4 to 96 ppm
Diisopropyl benzene	by scale	2	16.5 to 108 ppm
Ethyl acrylate	Factor : 0.42	2	8.4 to 336 ppm
2-Hexyl alcohol	Factor : 8.4	2	168 to 1680 ppm
Isopropyl ether	Factor : 0.88	2	17.6 to 704 ppm
Mesityl oxide	Factor : 3.6	2	72 to 1080 ppm
Methyl acrylate	Factor : 0.36	2	7.2 to 288 ppm
Methyl isothiocyanate	Factor : 0.27	2	5.4 to 216 ppm

Calibration gas generation

Diffusion tube method