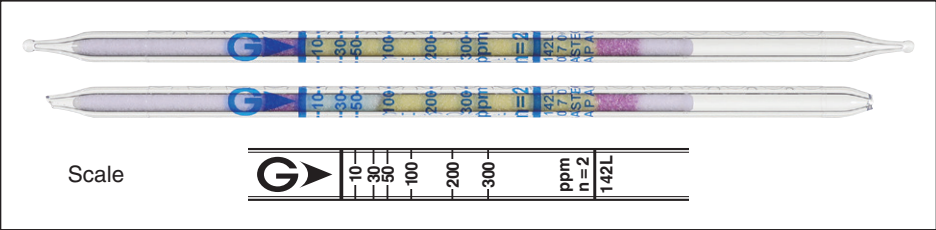


Butyl Acetate

$\text{CH}_3\text{CO}_2(\text{CH}_2)_3\text{CH}_3$
or $\text{CH}_3\text{CO}_2\text{C}_4\text{H}_9$

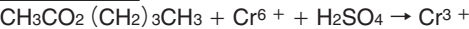
No.142L



Performance

Measuring range	10 to 300 ppm
Number of pump strokes	2 (200 mL)
Correction factor	1
Sampling time	3 min
Detecting limit :	2 ppm (2 pump strokes)
Colour change :	Yellow → Blackish brown (few minutes later) → Pale blue
Operating conditions :	Temperature 0 to 40 °C (32 to 104 °F) correction used Relative humidity 0 to 90 % correction not used
Relative standard deviation :	10 % (for 10 to 300 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(≥ 5 ppm)
Ketones (acetone)		+	Blackish brown(≥ 10 ppm)
Esters (methyl acetate)		+	Blackish brown(≥ 30 ppm)
Aromatic hydrocarbons (benzene)		No (The undiscoloured part of reagent changes colour to light brown.)	Pale brown for 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
Isobutyl acrylate	Factor : 0.55	2	5.5 to 165 ppm
Butyl acrylate	Factor : 0.7	2	7 to 210 ppm
Diethyl ketone	by scale	2	5 to 513 ppm
Methy isopropyl ketone	by scale	2	18 to 300 ppm

Calibration gas generation

Diffusion tube method