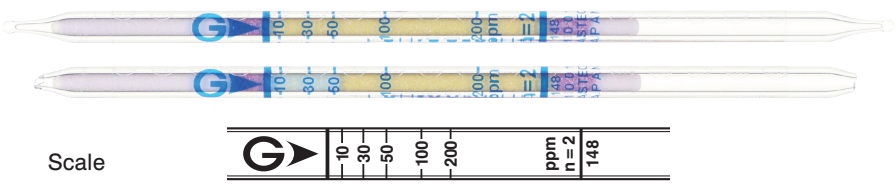
Isoamyl Acetate $CH_3CO_2(CH_2)_2CH(CH_3)_2$ or i-$CH_3CO_2C_5H_{11}$ No.148



Performance

Measuring range	10 to 200 ppm
Number of pump strokes	2 (200 mL)
Correction factor	1
Sampling time	3 min

Detecting limit : 4 ppm (2 pump strokes)
Colour change : Yellow → 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 50 ppm), 5 %(for 50 to 200 ppm)
Tube quantity and number of tests per box : 10 tubes for 10 tests
Shelf life : 24 months

Reaction principle

$CH_3CO_2(CH_2)_2CH(CH_3)_2 + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$

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)		+	No stain observed immediately. A blackish brown colour observed later (≧ 30 ppm)

Calibration gas generation

Diffusion tube method