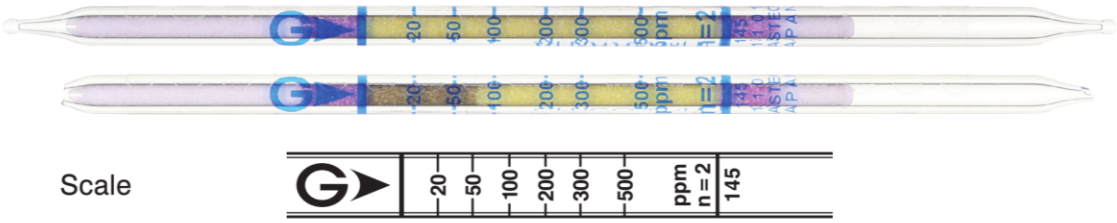
wiserise marine

Propyl Acetate

Part No.: 145

Propyl Acetate $CH_3CO_2CH_2CH_2CH_3$ or $CH_3CO_2C_3H_7$ No.145



Performance

Measuring range	20 to 500 ppm
Number of pump strokes	2 (200 ml)
Correction factor	1
Sampling time	3 min

Detecting limit : 3 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 : 15 %(for 20 to 100 ppm), 10 %(for 100 to 500 ppm)
Tube quantity and number of tests per box : 10 tubes for 10 tests
Shelf life : 24 months

Reaction principle

$CH_3CO_2CH_2CH_2CH_3 + Cr^{6+} + H_2SO_4 \rightarrow Cr^{3+}$

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

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