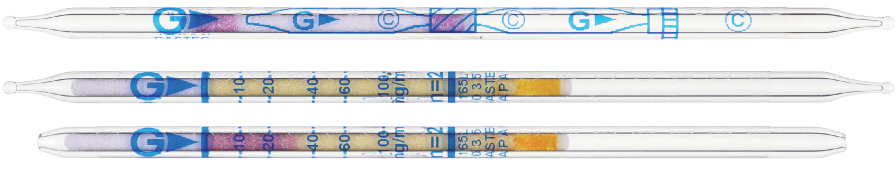
Ethylene Glycol $HOCH_2CH_2OH$ No.165L



Scale

Performance

When used, these tubes are to be connected. See page 2-3.

Measuring range	10 to 100 mg/m³
Number of pump strokes	2 (200 mL)
Correction factor	1
Sampling time	6 min

Detecting limit : 2 mg/m³ (2 pump strokes)
Colour change : Yellow → Reddish brown
Operating conditions : Temperature 5 to 40 °C (41 to 104 °F) correction used
Relative humidity 0 to 90 % correction not used
Relative standard deviation : 10 % (for 10 to 20 mg/m³), 15 % (for 20 to 100 mg/m³)
Tube quantity and number of tests per box : 10 tubes for 5 tests
Shelf life : 36 months (in the refrigerator)

Reaction principle

$HOCH_2CH_2OH \rightarrow 2HCHO$
$3HCHO + (NH_2OH)_3H_3PO_4 \rightarrow H_3PO_4$
H_3PO_4 + Base → Phosphate

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Acid gases		+	Reddish brown
Aldehydes		+	
Ketones		+	
tert-Butyl mercaptan		+	Reddish brown (≧ 1 mg/m³)
Tetrahydrothiophene		+	

Calibration gas generation

Vapour pressure method