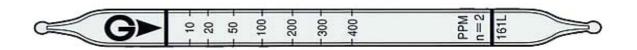
Ethyl ether (C2H5)2O No.161L



Performance

Measuring Range10 to 400 ppm400 to 1200 ppmNumber of Pump Strokes21Correction Factor13				
·				
Correction Factor 1 3				
Sampling Time 4 minutes per pump stroke				
Detecting Limit 2 ppm (n=2)				
Colour Change Yellow → Pale blue				
Reaction Principle Ethyl ether reduces cromic acid to produce pale blue discoloration $(C_2H_5)_2O + Cr^{6+} + H_2SO_4 \longrightarrow Cr^{3+}$				
Coefficient of Variation 10% (for 10 to 100 ppm), 5% (for 100 to 400 ppm)				
Shelf Life 2 Years				
Corrections for temperature & humidity Temperature correction is necessary				
Store the tubes at cool and dark place.				

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Change colour by itself
Alcohols	-	Plus error	Produce pale blue discoloration
Esters	-	Plus error	Produce pale blue discoloration
Ketones	-	Plus error	Produce pale blue discoloration

Calibration gas generation Diffusion tube method

TLV-TWA	TLV-STEL	Explosive range
400ppm	500ppm	1.9 to 36%