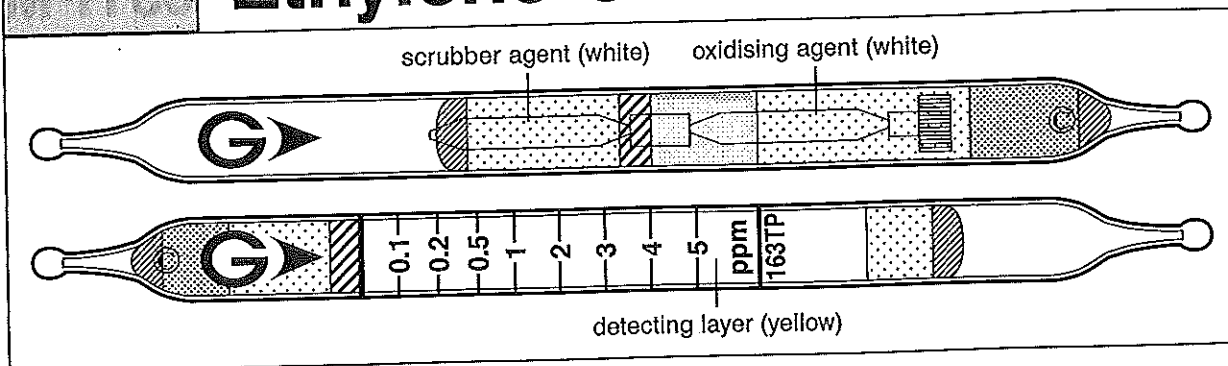


Detector tube

Ethylene Oxide C_2H_4O No.163TP



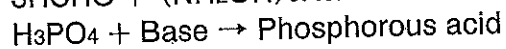
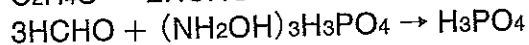
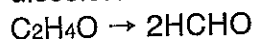
Performance

Measuring range	0.1 to 5 ppm
Sampling Rate	50 ml/min (500 ml)
Correction factor	1
Sampling time	10 min

Detecting limit : 0.05 ppm (500 ml)
 Colour change : Yellow → Pale orange
 Corrections for temperature : Necessary for 0 to 40°C
 Corrections for humidity : Unnecessary for 10 to 90 % R.H.
 Relative standard deviation : 10 % (for 0.1 to 1 ppm), 5 % (for 1 to 5 ppm)
 Shelf life : 1 year (in the refrigerator)

Reaction principle

Ethylene oxide is oxidised by oxidiser to form formaldehyde, The product reacts with hydroxylamine phosphate to liberate phosphorous acid to form pale orange discoloration.



Possible coexisting substances and their interferences (NOTE : Page 2-5)

Substance	Concentration	Interference	Changes colour by itself to
Formaldehyde	0.6 ppm	+	Pale orange
Acetaldehyde	2.0 ppm	+	Pale orange
Ketones	15 ppm	+	Pale orange
Alcohols	300 ppm	-	No

Calibration gas generation

Permeation tube method

TLV-TWA : 1 ppm

Explosive range : 3.6 to 100 %