

**Performance**

Measuring range	1.3 to 200 ppm
Sampling time	1 to 8 hours
Colour change :	Reddish purple → Pale brown
Corrections for temperature & humidity :	Temperature correction is necessary.
Relative standard deviation :	10 % (for 10 to 200 ppm·hr)
Shelf life :	2 years

Reaction principle

CH₂:CHCH:CH₂ + MnO₄ (Reddish purple) → Pale brown product

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Unsaturated hydrocarbons		+	Pale brown

Other substances measurable with this Dosi-tube

Substance	Correction	Sampling time	Measuring range
Ethylene	Factor : 1.2	} 1 to 8 hours	1.5 to 240 ppm
Isoprene	Factor : 2.0		2.5 to 400 ppm
trans-1,2-Dichloroethylene	Factor : 3.0		3.8 to 600 ppm
Vinyl chloride	Factor : 1.2		1.5 to 240 ppm

Calibration gas generation

Permeation tube method