

**Performance**

Measuring range	2 to 500 ppm
Sampling time	1 to 10 hours
Colour change :	White → Brown
Corrections for temperature & humidity :	Unnecessary
Relative standard deviation :	10 % (for 20 to 500 ppm·hr)
Shelf life :	2 years

Reaction principle

Toluene reacts with formaldehyde to form condensation polymer, which is brown in colour.

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Alcohols, Esters, Ketones	≤ 30 ppm	No	No
Aromatic hydrocarbons		+	Brown

Other substances measurable with this Dosi-tube

Substance	Correction	Sampling time	Measuring range
Ethyl benzene	Factor : 1.4	} 1 to 10 hours	2.8 to 700 ppm
Xylene	Factor : 1.7		3.4 to 850 ppm
Cumene	Factor : 1.7		3.4 to 850 ppm
Benzene	Factor : 1.2		2.4 to 600 ppm
Styrene	Factor : 13		26 to 6500 ppm

Calibration gas generation

Diffusion tube method