

Performance

Measuring range	0.5 to 30 ppm
Number of pump strokes	1 (100 ml)
Correction factor	1
Sampling time	2 min

Detecting limit : 0.1 ppm (1 pump stroke)
Colour change : White → Yellowish orange

Corrections for temperature & humidity: Unnecessary Shelf life: 3 years

Reaction principle

Pyrotec: Nitro compounds $\xrightarrow{\text{(Pyrolyzing)}}$ NOx Pyrotube: NOx + CrO₃ + H₂SO₄ \rightarrow NO₂ NO₂ + o-Tolidine \rightarrow Yellowish orange product

Possible coexisting substances and their interferences

Substance	Concentration	Interference	Changes colour by itself to
Chlorine dioxide		+)
Halogens		+	., .,
Halogenated hydrocarbons		+	Yellowish orange
Hydrogen chloride		+	J
Sulphur dioxide	≥25 ppm	- (Bleaching)	No
Hydrogen sulphide	≥25 ppm	- (Bleaching)	No

Substances measurable with this Pyrotube

Substance	n	Correction factor	Measuring range	
Acetonitrile	1	6.0	3 to 180 ppm	
Nitroethane	1	8.0	4 to 240 ppm	
Nitrogen dioxide	1	1.0	0.5 to 30 ppm	
Nitromethane	1	10.0	5 to 300 ppm	
1-Nitropropane	1	8.4	4.2 to 252 ppm	
2-Nitropropane	1	7.4	3.7 to 222 ppm	

Calibration gas generation

Permeation tube method