

**Performance**

This detector tube is calibrated with Nitrogen dioxide.

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
Operating conditions :	Temperature 0 to 40 °C (32 to 104 °F) correction not used Relative humidity 0 to 90 % correction not used
Tube quantity and number of tests per box :	10 tubes for 10 tests
Shelf life :	36 months

Reaction principlePyrotec : Nitro compounds $\xrightarrow{\text{(Pyrolyzing)}}$ NO_xPyrotube : NO_x + CrO₃ + H₂SO₄ → NO₂NO₂ + o-Tolidine → Yellowish orange product**Possible coexisting substances and their interferences**

Substance	Concentration	Interference	Changes colour by itself to
Chlorine dioxide		+	Yellowish orange
Halogens		+	
Halogenated hydrocarbons		+	
Hydrogen chloride		+	
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
Dinitrogen oxide	4	by scale	50 to 1000 ppm

Calibration gas generation

Permeation tube method

(Last updated: May 2026)