



GASTEC REAGENT TUBES

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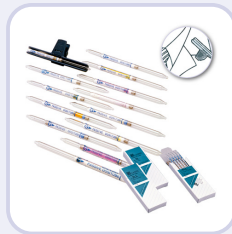
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Gastec tubes are acclaimed for their wide range of measurable substances, with nearly 600 Colorimetric short-term tubes references! They therefore offer a particularly suitable solution for assessing concentrations of toxic or asphyxiating gases, refrigerant leaks or certain anesthetic gases in most tertiary or industrial activity fields.



With the use of a manual pump, **colorimetric gas detector tubes** allow instantaneous gas concentrations measurements. With almost 500 referenced gases and numerous measurement ranges, they constitute a great solution in many domains for precise monitoring of toxic or asphyxiating gases and vapors.



Dosimeter tubes or dosi-tubes are excellent devices for toxic gases measurements over an average period of time. Thanks to this simple and economical system, it is easy to obtain daily gas concentrations and assess the working environment by comparing test results with the recommended exposure limits.



The **GSP-300 gas sampling pump** is an automatic suction pump which is used to get very precise measurements of targeted gas concentrations. The automatic stop function can be configured to stop the sampling after a fixed period of time or when a given volume has been aspirated.



The **Pyrotec 840 pyrolyzer**, in combination with the Gastec GAS100S manual pump, thermally converts fluorochlorocarbons (many freons such as R11, R12, R22, R112, R113, R114, R123, R124, R141B, R225 etc.), halogenated hydrocarbons and certain anesthetic gases in order to get better measurements.



Airtec Tubes allow anyone to simply, quickly and quantitatively monitor compressed breathing air quality (cylinders, air supply). Easy to use, Airtec Tubes represent a precise method for monitoring and analyzing CO, CO₂, water vapor, nitrogen oxides and oil vapors.



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► Colorimetric detector tube system

Gas detection by colorimetric test tubes.



Product description

The ability to measure for over 400 different gases with an easy to use pump has made Gastec the detector of choice for so many worker's around the world. Whether for a routine inspection or a HazMat emergency, you can count on the Gastec line of Detector Tubes to precisely identify and measure your particular gas or vapour.

► Advantages:

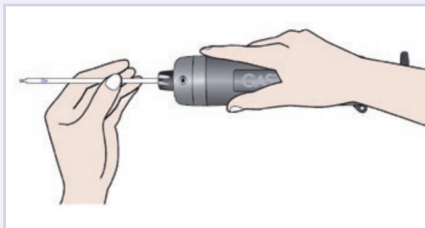
Accurate: the patented gas sampling pumps offer smooth, precise measurements with no risk of partial samples.

Quick: pre-calibrated, direct-read detector tubes offer distinct lines of demarcation for easier viewing.

Simple: require no interpretation, dual scales, or color charts.

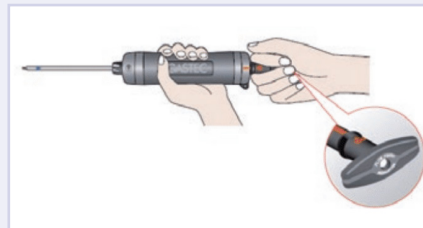
Easy-to-use: with multiple detection limits for many chemicals the tubes can measure even trace levels of contaminants.

Three-step measurement



1 - INSERT

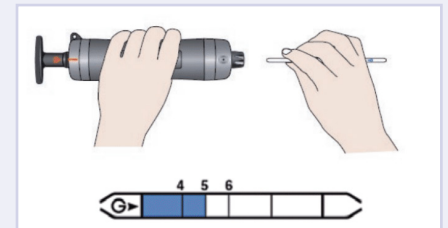
Break off the both ends of the detector tube by using the built-in diamond tip breaker. Confirm the pump handle is fully pushed in. Then insert the detector tube into the rubber inlet towards the gas sampling pump.



2 - PULL

Align the guide marks on the pump shaft red 100 or 50 mL, and pull out the handle until it is locked. Wait until the sampling time has elapsed.

With an easy-to-see flow finish indicator, the operator is assured that the sampling is complete.



3 - READ

The color of the detector tube changes as the gas is drawn in.

Wait the required sampling time and read the measurement at the end of the colored layer.

That's all !





Colorimetric tubes

Gas List : A/A



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|-----------------------------|---------------------|-----------------------|----------------------------|----------------------|
| | | Code | Gas | |
| Acetaldehyde | 300 - 750 ppm | GAS92 | Acetaldehyde | 1 |
| | 10 - 300 ppm | GAS92 | Acetaldehyde | 2 |
| | 5 - 10 ppm | GAS92 | Acetaldehyde | 4 |
| | 5 - 100 ppm | GAS92M | Acetaldehyde | 1 |
| | 2.5 - 5 ppm | GAS92M | Acetaldehyde | 2 |
| | 1 - 20 | GAS 92L | Acetaldehyde | 1 |
| Acetic Acid | 50 - 100 ppm | GAS81 | Acetic Acid | 1/2 |
| | 2 - 50 ppm | GAS81 | Acetic Acid | 1 |
| | 1 - 2 ppm | GAS81 | Acetic Acid | 2 |
| | 10 - 25 ppm | GAS81L | Acetic Acid | 1/2 |
| | 0.25 - 10 ppm | GAS81L | Acetic Acid | 1 |
| | 0.125 - 0.25 ppm | GAS81L | Acetic Acid | 2 |
| Acetic Anhydride | 0.6 - 15 ppm | GAS81 | Acetic Acid | 1 |
| Acetone | 0.8 - 2 %/vol. | GAS151 | Acetone | 1 |
| | 0.05 - 0.8 %/vol. | GAS151 | Acetone | 2 |
| | 4000 - 12000 ppm | GAS151L | Acetone | 1 |
| | 50 - 4000 ppm | GAS151L | Acetone | 2 |
| Acetone Cyanohydrine | 2.5 - 60 ppm | GAS12L | Hydrogen Cyanide | 1 |
| Acetylene | 2 - 4 %/vol. | GAS171 | Acétylene | 1/2 |
| | 0.1 - 2 %/vol. | GAS171 | Acétylene | 1 |
| | 0.05 - 0.1 %/vol. | GAS171 | Acétylene | 2 |
| | 1.8 - 3.6 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 1/2 |
| | 0.15 - 1.8 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 1 |
| | 0.075 - 0.15 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 2 |
| | 32.5 - 1040 ppm | GAS172 | Ethylene | 1 |
| | Acid Gases | 40 - 80 ppm | GAS80 | Acid Gases |
| 2 - 40 ppm | GAS80 | Acid Gases | 2 | |
| 1 - 2 ppm | GAS80 | Acid Gases | 4 | |
| Acrolein | 10 - 800 ppm | GAS93 | Acrolein | 2 |
| | 3.3 - 10 ppm | GAS93 | Acrolein | 4 |
| Acrylic Acid | 2 - 50 ppm | GAS81 | Acetic Acid | 2 |
| | 0.45 - 18 ppm | GAS81L | Acetic Acid | 4 |
| Acrylonitrile | 120 - 360 ppm | GAS191 | Acrylonitrile | 1 |
| | 5 - 120 ppm | GAS191 | Acrylonitrile | 2 |
| | 2 - 5 ppm | GAS191 | Acrylonitrile | 4 |
| | 6 - 18 ppm | GAS191L | Acrylonitrile | 1 |
| | 0.2 - 6 ppm | GAS191L | Acrylonitrile | 2 |
| | 0.1 - 0.2 ppm | GAS191L | Acrylonitrile | 4 |
| | 0.06 - 1.44 %/vol. | GAS102L | Hexane | 1 |
| | Allylamine | 8.5 - 170 ppm | GAS180 | Amines |
| 0.4 - 8 ppm | GAS180L | Amines | 1 | |
| Allyl Chloride | 0.1 - 3.4 %/vol. | GAS101L | Gasole | 1/2 |
| | 3.2 - 48 ppm | GAS131L | Vinyl Chloride | 2 |
| Allyl isothiocyanate | 5 - 200 ppm | GAS149 | Methyl Methacrylate | 2 |
| Amines | 5 - 100 ppm | GAS180 | Amines | 1 |
| | 0.5 - 10 ppm | GAS180L | Amines | 1 |
| Ammonia | 16 - 32 %/vol. | GAS3H | Ammonia | 1/2 |
| | 1 - 16 %/vol. | GAS3H | Ammonia | 1 |

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Colorimetric tubes

Gas List : A/B



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|------------------------------|--------------------|-----------------------|-----------------------------|----------------------|
| | | Code | Gas | |
| | 0.2 - 1 %/vol. | GAS3H | Ammonia | 2 à 5 |
| | 1.6 - 3.52 %/vol. | GAS3HM | Ammonia | 1/2 |
| | 0.05 - 1.6 %/vol. | GAS3HM | Ammonia | 1 |
| | 500 - 1000 ppm | GAS3M | Ammonia | 1/2 |
| | 50 - 500 ppm | GAS3M | Ammonia | 1 |
| | 10 - 50 ppm | GAS3M | Ammonia | 2 à 5 |
| | 100 - 200 ppm | GAS3LA | Ammonia | 1/2 |
| | 5 - 100 ppm | GAS3LA | Ammonia | 1 |
| | 2.5 - 5 ppm | GAS3LA | Ammonia | 2 |
| | 30 - 78 ppm | GAS3L | Ammonia | 1/2 |
| | 1 - 30 ppm | GAS3L | Ammonia | 1 |
| | 0.5 - 10 ppm | GAS3L | Ammonia | 2 |
| | 1.5 - 30 ppm | GAS180 | Amines | 1 |
| Amyl Acetate | 10 - 200 ppm | GAS147 | Amyl Acetate | 2 |
| Aniline | 30 - 60 ppm | GAS181 | Aniline | 2 |
| | 2.5 - 30 ppm | GAS182 | Aniline | 3 |
| | 1.25 - 2.5 ppm | GAS183 | Aniline | 5 |
| Aromatic Hydrocarbons | 100 - 200 ppm | GAS120 | Aromatic Hydrocarbons | 1/2 |
| | 2 - 100 ppm | GAS120 | Aromatic Hydrocarbons | 1 |
| | 0.4 - 2 ppm | GAS120 | Aromatic Hydrocarbons | 2 to 5 |
| Arsine | 2.4 - 10 ppm | GAS19LA | Arsine | 1 |
| | 1.5 - 2.4 ppm | GAS19LA | Arsine | 3 |
| | 0.1 - 1.5 ppm | GAS19LA | Arsine | 5 |
| | 0.04 - 0.1 ppm | GAS19LA | Arsine | 10 |
| Benzaldehyde | 4 - 92 ppm | GAS91L | Formaldehyde | 1 |
| Benzene | 120 - 312 ppm | GAS121S | Benzene | 1 |
| | 5 - 120 ppm | GAS121S | Benzene | 2 |
| | 2 - 50 ppm | GAS121S | Benzene | 4 |
| | 60 - 120 ppm | GAS121 | Benzene | 1 |
| | 5 - 60 ppm | GAS121 | Benzene | 2 |
| | 2.5 - 5 ppm | GAS121 | Benzene | 4 |
| | 20 - 100 ppm | GAS121SL | Benzene | 1 |
| | 1 - 20 ppm | GAS121SL | Benzene | 5 |
| | 10 - 65 ppm | GAS121L | Benzene | 1 |
| | 0.1 - 10 ppm | GAS121L | Benzene | 5 |
| | 20 - 66 ppm | GAS121SP | Benzene | 1 |
| | 0.2 - 20 ppm | GAS121SP | Benzene | 3 |
| | 0.03 - 0.6 %/vol. | GAS171 | Benzene | 4 |
| Benzyl Bromide | 10 - 100 ppm | GAS136L | Methyl Bromide | 1 |
| Benzyl Chloride | 1.6 - 2 %/vol. | GAS132L | Trichloroethylene | 2 |
| Boron Trichloride | 2.25 - 54 ppm | GAS12L | Hydrogen Cyanide | 2 |
| Bromine | 0.05 - 8 ppm | GAS8LA | Chlorine | 4 |
| Butadiene | 50 - 800 ppm | GAS174 | 1,3-Butadiene | 1 |
| | 5 - 100 ppm | GAS174L | 1,3-Butadiene | 4 |
| | 2.5 - 5 ppm | GAS174L | 1,3-Butadiene | 8 |
| | 0.5 - 5 ppm | GAS174LL | 1,3-Butadiene | 1 |
| Butane | 25 - 1400 ppm | GAS104 | Butane | 1 |
| | 0.84 - 1.68 %/vol. | GAS103 | Hydrocarbons (Higher Class) | 1/2 |

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Colorimetric tubes

Gas List : B/C



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|------------------------|--------------------------|-----------------------|-----------------------------|----------------------|
| | | Code | Gas | |
| | 0.07 - 0.84 %/vol. | GAS103 | Hydrocarbons (Higher Class) | 1 |
| | 0.035 - 0.07 %/vol. | GAS105 | Hydrocarbons (Higher Class) | 2 |
| Butanol | 10 - 150 ppm | GAS114 | 1-Butanol | 3 |
| | 5 - 150 ppm | GAS115 | 2-Butanol | 3 |
| Butyl Acrylate | 7 - 210 ppm | GAS142L | Butyl Acetate | 2 |
| Butylbromide | 24 - 360 ppm | GAS136H | Methylbromide | 1 |
| | 10 - 100 ppm | GAS136L | Methylbromide | 1 |
| | 2.4 - 43.2 ppm | GAS136LA | Methylbromide | 1 |
| | 1 - 18 ppm | GAS136LA | Methylbromide | 2 |
| Butyl Mercaptan | 6.4 - 12.8 ppm | GAS70L | Mercaptans | 1/2 |
| | 0.8 - 6.4 ppm | GAS70L | Mercaptans | 1 |
| | 0.32 - 0.8 ppm | GAS70L | Mercaptans | 2 |
| | 0.16 - 0.32 ppm | GAS70L | Mercaptans | 4 |
| Butylamine | 8 - 160 ppm | GAS180 | Amines | 1 |
| | 0.55 - 11 ppm | GAS180L | Amines | 1 |
| Butyric Acid | 0.325 - 13 ppm | GAS81L | Acetic Acid | 1 |
| | 0.15 - 6 ppm | GAS81L | Acetic Acid | 1 |
| Butyronitrile | 6 - 180 ppm | GAS191L | Acrylonitrile | 1 |
| Carbon Dioxide | 5 - 40 %/vol. | GAS2HH | Carbon Dioxide | 1/2 |
| | 2.5 - 5 %/vol. | GAS2HH | Carbon Dioxide | 1 |
| | 10-20 %/vol. | GAS2H | Carbon Dioxide | 1/2 |
| | 1 - 10 %/vol. | GAS2H | Carbon Dioxide | 1 |
| | 0.5 - 1 %/vol. | GAS2H | Carbon Dioxide | 2 |
| | 3 - 6 %/vol. | GAS2L | Carbon Dioxide | 1/2 |
| | 0.25 - 3 %vol. | GAS2L | Carbon Dioxide | 1 |
| | 0.13 - 0.25 %/vol. | GAS2L | Carbon Dioxide | 2 |
| | 300 - 5000 ppm | GAS2LL | Carbon Dioxide | 1 |
| | 2000 - 4000 ppm | GAS2LC | Carbon Dioxide | 1/2 |
| | 100 - 2000 ppm | GAS2LC | Carbon Dioxide | 1 |
| | Carbon Disulphide | 1600 - 4000 ppm | GAS13M | Carbon Disulphide |
| 50 - 1600 ppm | | GAS13M | Carbon Disulphide | 1 |
| 20 - 50 ppm | | GAS13M | Carbon Disulphide | 2 |
| 50 - 100 ppm | | GAS13 | Carbon Disulphide | 1/2 |
| 2.5 - 50 ppm | | GAS13 | Carbon Disulphide | 1 |
| 1.25 - 2.5 ppm | | GAS13 | Carbon Disulphide | 2 |
| 0.63 - 1.25 ppm | | GAS13 | Carbon Disulphide | 4 |
| 3.0 - 8.1 ppm | | GAS13L | Carbon Disulphide | 1 |
| 0.1 - 3.0 ppm | | GAS13L | Carbon Disulphide | 2 |
| Carbon Monoxide | 2 - 50 %/vol. | GAS1HH | Carbon Monoxide | 1/2 |
| | 1 - 2 %/vol. | GAS1HH | Carbon Monoxide | 1 |
| | 5 - 10 %/vol. | GAS1H | Carbon Monoxide | 1/2 |
| | 0.2 - 5 %/vol. | GAS1H | Carbon Monoxide | 1 |
| | 0.1 - 0.2 %/vol. | GAS1H | Carbon Monoxide | 2 |
| | 2 - 4 %/vol. | GAS1M | Carbon Monoxide | 1/2 |
| | 0.1 - 2 %/vol. | GAS1M | Carbon Monoxide | 1 |
| | 0.05 - 0.1 %/vol. | GAS1M | Carbon Monoxide | 2 |
| | 25 - 50 ppm | GAS1LM | Carbon Monoxide | 2 |



Colorimetric tubes

Gas List : C/C



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|-----------------------------|-------------------|-----------------------|---|----------------------|
| | | Code | Gas | |
| | 1000 - 2000 ppm | GAS1L | Carbon Monoxide | 1/2 |
| | 25 - 1000 ppm | GAS1L | Carbon Monoxide | 1 |
| | 2.5 - 25 ppm | GAS1L | Carbon Monoxide | 2 à 10 |
| | 500 - 1000 ppm | GAS1LA | Carbon Monoxide | 1/2 |
| | 25 - 500 ppm | GAS1LA | Carbon Monoxide | 1 |
| | 12.5 - 25 ppm | GAS1LA | Carbon Monoxide | 2 |
| | 8 - 12.5 ppm | GAS1LA | Carbon Monoxide | 3 |
| | 300 - 600 ppm | GAS1LK | Carbon Monoxide (H) | 1/2 |
| | 100 - 300 ppm | GAS1LK | Carbon Monoxide (H) | 1 |
| | 5 - 100 ppm | GAS1LK | Carbon Monoxide (H) | 3 |
| | 5 - 100 ppm | GAS1LKC | Carbon Monoxide into hydrogen with hydrocarbons | 3 |
| | 5 - 50 ppm | GAS1LL | Carbon monoxide | 2 |
| | 1 - 30 ppm | GAS1LC | Carbon monoxide | 1 |
| Carbon Sulphide | 1600 - 4000 ppm | GAS13M | Carbon Sulphide | 1/2 |
| | 50 - 1600 ppm | GAS13M | Carbon Sulphide | 1 |
| | 20 - 50 ppm | GAS13M | Carbon Sulphide | 2 |
| | 50 - 100 ppm | GAS13 | Carbon Sulphide | 1/2 |
| | 2.5 - 50 ppm | GAS13 | Carbon Sulphide | 1 |
| | 1.25 - 2.5 ppm | GAS13 | Carbon Sulphide | 2 |
| | 0.63 - 1.25 ppm | GAS13 | Carbon Sulphide | 4 |
| | 3.0 - 8.1 ppm | GAS13L | Carbon Sulphide | 1 |
| | 0.1 - 3.0 ppm | GAS13L | Carbon Sulphide | 2 |
| Carbon Tetrachloride | 2.5 - 60 ppm | GAS134 | Carbon Tetrachloride | 1 |
| | 0.5 - 2.5 ppm | GAS134 | Carbon Tetrachloride | 2 to 5 |
| | 5 - 11 ppm | GAS134L | Carbon Tetrachloride | 1 |
| | 0.25 - 5 ppm | GAS134L | Carbon Tetrachloride | 2 |
| Carbonyl Sulphide | 100 - 200 ppm | GAS21 | Carbonyl Sulphide | 1/2 |
| | 10 - 100 ppm | GAS21 | Carbonyl Sulphide | 1 |
| | 5 - 10 ppm | GAS21 | Carbonyl Sulphide | 2 |
| | 50 - 125 ppm | GAS21LA | Carbonyl Sulphide | 1/2 |
| | 5 - 50 ppm | GAS21LA | Carbonyl Sulphide | 1 |
| | 2 - 5 ppm | GAS21LA | Carbonyl Sulphide | 2 |
| Chlorine | 0.5 - 10 %/vol. | GAS8HH | Chlorine | 1/2 |
| | 0.25 - 0.5 %/vol. | GAS8HH | Chlorine | 1 |
| | 500 - 1000 ppm | GAS8H | Chlorine | 1/2 |
| | 50 - 500 ppm | GAS8H | Chlorine | 1 |
| | 25 - 50 ppm | GAS8H | Chlorine | 2 |
| | 8 - 16 ppm | GAS8LA | Chlorine | 1/2 |
| | 0.5 - 8 ppm | GAS8LA | Chlorine | 1 |
| | 0.1 - 0.5 ppm | GAS8LA | Chlorine | 2 à 5 |
| | 0.7 - 14 ppm | GAS80 | Acid Gases | 2 |
| Chlorine Dioxide | 5 - 10 ppm | GAS23M | Chlorine Dioxide | 1/2 |
| | 0.5 - 5 ppm | GAS23M | Chlorine Dioxide | 1 |
| | 0.1 - 0.5 ppm | GAS23M | Chlorine Dioxide | 2 à 5 |
| | 0.6 - 1.2 ppm | GAS23L | Chlorine Dioxide | 1/2 |
| | 0.05 - 0.6 ppm | GAS23L | Chlorine Dioxide | 1 |

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Colorimetric tubes

Gas List : C/D



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|--|---------------------|-----------------------|-----------------------------|----------------------|
| | | Code | Gas | |
| | 0.025 - 0.05 ppm | GAS23L | Chlorine Dioxide | 2 |
| | 45 - 450 ppm | GAS8H | Chlorine | 1 |
| | 0.3 - 4.8 ppm | GAS8LA | Chlorine | 1 |
| Chlorobenzene | 200 - 500 ppm | GAS126 | Chlorobenzène | 1/2 |
| | 5 - 200 ppm | GAS126 | Chlorobenzène | 1 |
| | 2 - 5 ppm | GAS126 | Chlorobenzène | 2 |
| | 10 - 43 ppm | GAS126L | Chlorobenzène | 1 |
| | 0.5 - 10 ppm | GAS126L | Chlorobenzène | 3 |
| Chlorobromethane | 22 - 110 ppm | GAS135 | 1.1-Trichloroethane | 1 |
| | 18 - 270 ppm | GAS136H | Methyl Bromide | 1 |
| | 11 - 110 ppm | GAS136L | Methyl Bromide | 1 |
| | 0.7 - 12.6 ppm | GAS136LA | Methyl Bromide | 2 |
| Chlorocyclohexane | 50 - 1200 ppm | GAS102L | Hexane | 2 |
| Chloroform | 100 - 400 ppm | GAS137 | Chloroform | 3 |
| | 10 - 100 ppm | GAS137 | Chloroform | 5 |
| | 4 - 10 ppm | GAS137 | Chloroform | 7 |
| | 12 - 30 ppm | GAS137LA | Chloroform | 1 |
| | 2 - 12 ppm | GAS137LA | Chloroform | 2 |
| | 0.5 - 2 ppm | GAS137LA | Chloroform | 4 |
| | 0.3 - 4.5 ppm | GAS137LL | Chloroform | 4 |
| Chloropicrin | 10 - 22 ppm | GAS133 | Chloropicrin | 1/2 |
| Cresol (m-cresol, o-cresol, p-cresol) | 1 - 25 ppm | GAS61 | 0-Crésol | 2 |
| | 25 - 62.5 ppm | GAS61 | 0-Crésol | 1 |
| | 1 - 25 ppm | GAS61 | 0-Crésol | 2 |
| | 1 - 25 ppm | GAS61 | 0-Crésol | 2 |
| | 0.4 - 1 ppm | GAS61 | 0-Crésol | 4 |
| Cumene | 2 - 100 ppm | GAS122L | Toluene | 2 |
| Cyanoethane | 50 - 1200 ppm | GAS191 | Acrylonitrile | 4 |
| Cyclohexane | 0.6 - 1.2 %/vol. | GAS102H | Hexane | 1/2 |
| | 0.03 - 0.6 %/vol. | GAS102H | Hexane | 1 |
| | 0.015 - 0.03 %/vol. | GAS102H | Hexane | 2 |
| | 60 - 1440 ppm | GAS102L | Hexane | 1 |
| Cyclohexanol | 5 - 100 ppm | GAS118 | Cyclohexanol | 2 |
| Cyclohexanone | 30 - 75 ppm | GAS154 | Cyclohexanone | 2 |
| | 2 - 30 ppm | GAS154 | Cyclohexanone | 4 |
| | 10 - 470 ppm | GAS91L | Formaldehyde | 1/2 |
| Cyclohexene | 0.05 - 0.8 %/vol. | GAS151 | Acetone | 1 |
| Cyclohexylamine | 7 - 140 ppm | GAS180 | Amines | 1 |
| | 0.5 - 10 ppm | GAS180L | Amines | 1 |
| Cymene | 2.4 - 96 ppm | GAS141L | Cyclohexanone | 2 |
| Decane (n-Decane) | 400 - 6000 ppm | GAS105 | Hydrocarbons (Higher Class) | 1 |
| | 200 - 400 ppm | GAS105 | Hydrocarbons (Higher Class) | 2 |
| Diacetone | 2.5 - 100 ppm | GAS154 | Cyclohexanone | 2 |
| Diacetyl | 25 - 1500 ppm | GAS92 | Acetaldehyde | 3 |
| Diborane | 2 - 5 ppm | GAS22 | Diborane | 1 |
| | 0.05 - 2 ppm | GAS22 | Diborane | 2 |
| | 0.02 - 0.05 ppm | GAS22 | Diborane | 5 |
| Dibromoéthane | 14 - 210 ppm | GAS136H | Methane bromide | 1 |

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Colorimetric tubes

Gas List : D/D



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|--|-------------------|-----------------------|---------------------------|----------------------|
| | | Code | Gas | |
| | 8 - 80 | GAS136L | Methane bromide | 1 |
| Dibromométhane | 5 - 50 | GAS136L | Methane bromide | 1 |
| | 0.4 - 8 ppm | GAS180L | Amines | 1 |
| Dichlorobenzene (m-Dichlorobenzene) | 2.5 - 300 ppm | GAS127 | o-dichlorobenzene | 2 |
| Dichlorobenzene (o-Dichlorobenzene) | 2.5 - 300 ppm | GAS127 | o-dichlorobenzene | 2 |
| Dichlorobenzene (p-dichlorobenzene) | 2.5 - 300 ppm | GAS127 | o-dichlorobenzene | 2 |
| Dichloroethane | 90 - 450 ppm | GAS135 | 1, 1, 1 - Trichloroethane | 1 |
| Dichloroethylene | 100 - 250 ppm | GAS139 | 1,2 - Dichloroethylene | 1/2 |
| | 10 - 100 ppm | GAS139 | 1,2 - Dichloroethylene | 1 |
| | 5 - 10 ppm | GAS139 | 1,2 - Dichloroethylene | 2 |
| | 80 - 800 ppm | GAS132HA | Trichloroethylene | 1 |
| | 0.375 - 6 ppm | GAS132LL | Trichloroethylene | 1 |
| Dichloropropane (1,2-Dichloropropane) | 40 - 800 ppm | GAS131LA | Vinyl Chloride | 2 |
| Dichlorvos | 0.11 - 1.8 ppm | GAS132LL | Trichloroethylene | 2 |
| Diethyl Benzene | 2 - 150 ppm | GAS122L | Toluene | 4 |
| Diethylamine | 5.5 - 110 ppm | GAS180 | Amines | 1 |
| | 0.45 - 9 ppm | GAS180L | Amines | 1 |
| Diéthylaminoethanol | 0.6 - 12 ppm | GAS180L | Amines | 1 |
| Diéthylénetriamide | 0.95 - 19 ppm | GAS180L | Amines | 1 |
| Diéthyléthanolamine | 6 - 120 ppm | GAS180 | Amines | 1 |
| Diisobutyl Ketone | 0.2 - 1 %/vol. | GAS102L | Hexane | 2 |
| | 0.58 - 29 ppm | GAS91L | Formaldehyde | 4 |
| Diisobutylene | 45 - 540 ppm | GAS121 | Benzene | 1 |
| Diisopropylamine | 5 - 100 ppm | GAS180 | Amines | 1 |
| | 0.3 - 6 ppm | GAS180L | Amines | 1 |
| Dimethylacetamide | 60 - 240 ppm | GAS184 | N, N, Diméthylacétamide | 1 |
| | 5 - 60 ppm | GAS184 | N, N, Diméthylacétamide | 2 |
| | 1.5 - 5 ppm | GAS184 | N, N, Diméthylacétamide | 4 |
| Dimethylamine | 1.2 - 19.2 %/vol. | GAS3H | Ammonia | 1 |
| | 5.5 - 110 ppm | GAS180 | Amines | 1 |
| | 0.45 - 9 ppm | GAS180L | Amines | 1 |
| Dimethylaminoethanol | 0.65 - 130 ppm | GAS180L | Amines | 1 |
| | 0.65 - 13 ppm | GAS180L | Amines | 1 |
| Dimethylaminopropylamine | 8 - 160 ppm | GAS180 | Amines | 1 |
| | 0.6 - 12 ppm | GAS180L | Amines | 2 |
| | 2 - 30 ppm | GAS184 | Dimethylformamide | 1 |
| Dimethylhydrazine | 0.1 - 2 %/vol. | GAS185 | Hydrazine | 5 |
| Dioxane | 25 - 140 ppm | GAS159 | Tetrahydrofurane | 2 |
| | 0.1 - 6.0 %/vol | GAS1636 | Ethylene Oxide | 1 |
| Diopropylamine | 4 - 80 ppm | GAS180 | Amines | 1 |
| | 0.35 - 7 ppm | GAS180L | Amines | 1 |
| Divinyl Benzene | 1 - 15 ppm | GAS124L | Styrene | 3 |
| Divinyl Methoxysilane | 6.5 - 25 ppm | GAS113L | Isopropyl Alcohol | 2 |
| Epichlorohydrin | 1.2 - 120 ppm | GAS163L | Ethylene Oxide | 2 |
| Ethanethiol | 5 - 120 ppm | GAS72 | Ethanethiol | 1 |
| | 0.5 - 5 ppm | GAS72 | Ethanethiol | 2 to 10 |
| | 30 - 75 ppm | GAS72L | Ethanethiol | 1/2 |



Colorimetric tubes

Gas List : D/D



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|--|--------------------|-----------------------|----------------------------|----------------------|
| | | Code | Gas | |
| | 0.5 - 30 ppm | GAS72L | Ethanethiol | 1 |
| | 0.2 - 0.5 ppm | GAS72L | Ethanethiol | 2 |
| | 25 - 57.5 ppm | GAS72LN | Ethanethiol | 1/2 |
| | 0.5 - 25 ppm | GAS72LN | Ethanethiol | 1 |
| | 0.15 - 0.5 ppm | GAS72LN | Ethanethiol | 2 |
| | 5 - 120 ppm | GAS70 | Mercaptans | 1 |
| | 0.5 - 5 ppm | GAS70 | Mercaptans | 2 to 10 |
| | 4 - 8 ppm | GAS70L | Mercaptans | 1/2 |
| | 0.5 - 4 ppm | GAS70L | Mercaptans | 1 |
| | 0.2 - 0.5 ppm | GAS70L | Mercaptans | 2 |
| | 0.1 - 0.2 ppm | GAS70L | Mercaptans | 4 |
| | 4.4 - 10.4 ppm | GAS70LN | Mercaptans | 1/2 |
| | 0.55 - 4.4 ppm | GAS70LN | Mercaptans | 1 |
| | 0.25 - 0.55 ppm | GAS70LN | Mercaptans | 2 |
| | 0.13 - 0.25 ppm | GAS70LN | Mercaptans | 4 |
| | 100 - 3800 ppm | GAS71H | Methanethiol | 1 |
| Ethanol | 2.5 - 7.5 %/vol. | GAS112 | Ethanol | 1/2 |
| | 0.05 - 2.5 %/vol. | GAS112 | Ethanol | 1 |
| | 0.01 - 0.05 %/vol. | GAS112 | Ethanol | 2 |
| | 100 - 2000 ppm | GAS112L | Ethanol | 1 |
| | 50 - 100 ppm | GAS112L | Ethanol | 2 |
| Ethanolamine | 7 - 140 ppm | GAS180 | Amines | 3 |
| | 1.95 - 39 ppm | GAS180L | Amines | 1 |
| Ethyl Acetate | 0.1 - 1.5 %/vol. | GAS141 | Ethyl Acetate | 1 |
| | 20 - 800 ppm | GAS141L | Ethyl Acetate | 2 |
| Ethyl Acrylate | 8.4 - 336 ppm | GAS141L | Ethyl Acetate | 2 |
| Ethyl Benzene | 11 - 330 ppm | GAS122 | Toluène | 1 |
| | 1 - 70 ppm | GAS122L | Toluène | 2 |
| Ethyl Benzylechloride (p-Ethyl Benzylechloride) | 2.5 - 50 ppm | GAS131LA | Chlorure de Vinyle | 2 |
| Ethyl Bromide | 100 - 200 ppm | GAS136L | Methyl Bromide | 1/2 |
| | 10 - 100 ppm | GAS136L | Methyl Bromide | 1 |
| | 2.5 - 10 ppm | GAS136L | Methyl Bromide | 4 |
| Ethyl Chloride | 15 - 150 ppm | GAS138 | Methylene Chloride | 1 |
| Ethyl Chloroformate | 7 - 140 ppm | GAS131LA | Vinyl Chloride | 2 |
| Ethyl ether | 0.04 - 1 %/vol. | GAS161 | Ethyl ether | 1 |
| | 400 - 1200 ppm | GAS161L | Ethyl ether | 1 |
| | 10 - 400 ppm | GAS161L | Ethyl ether | 2 |
| | 50 - 100 ppm | GAS172L | Ethylene | 2 |
| | 0.2 - 50 ppm | GAS172L | Ethylene | 4 |
| | 8.4 - 16.8 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 1/2 |
| | 0.1 - 8.4 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 1 |
| | 0.35 - 0.7 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 2 |
| | 0.1 - 2 %/vol. | GAS171 | Acetylene | 1 |
| Ethylamine | 5 - 100 ppm | GAS180 | Amines | 1 |
| | 0.45 - 9 ppm | GAS180L | Amines | 1 |
| Ethylene | 800 - 1680 ppm | GAS172 | Ethylene | 1/2 |
| | 25 - 800 ppm | GAS172 | Ethylene | 1 |
| | 50 - 100 ppm | GAS172L | Ethylene | 2 |

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Colorimetric tubes

Gas List : E/H



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|--|---------------------|-----------------------|----------------------------|----------------------|
| | | Code | Gas | |
| | 0.2 - 50 ppm | GAS172L | Ethylene | 4 |
| | 8.4 - 16.8 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 1/2 |
| | 0.1 - 8.4 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 1 |
| | 0.35 - 0.7 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 2 |
| | 0.1 - 2 %/vol. | GAS171 | Acetylene | 1 |
| Ethylene Chlorohydrin | 80 - 200 ppm | GAS111L | Methanol | 3 |
| Ethylene Diamine | 14 - 280 ppm | GAS180 | Amines | 1 |
| | 0.9 - 18 ppm | GAS180L | Amines | 1 |
| Ethylene Dibromide | 14 - 210 ppm | GAS136H | Methyl Bromide | 1 |
| | 8 - 80 ppm | GAS136L | Methyl Bromide | 1 |
| Ethylene Dichloride | 15 - 39 ppm | GAS232 | Dichloroethane | 1 |
| | 1 - 15 ppm | GAS232 | Dichloroethane | 2 |
| | 400 - 2000 ppm | GAS135 | Dichloroethane | 1 |
| | 104 - 1040 ppm | GAS135L | Dichloroethane | 1 |
| Ethylene Glycol | 10 - 100 mg/m3 | GAS165L | Ethylene Glycol | 2 |
| Ethylene Glycol Monobutyle Ether | 200 - 1000 ppm | GAS113L | Alcool Isopropylique | 2 |
| | 60 - 400 ppm | GAS113L | Alcool Isopropylique | 2 |
| Ethylene Glycol Monoethyle Ether | 110 - 1000 ppm | GAS113L | Alcool Isopropylique | 2 |
| | 46 - 460 ppm | GAS113LL | Alcool Isopropylique | 2 |
| Ethylene Glycol Monomethyle Ether | 75 - 760 ppm | GAS113L | Alcool Isopropylique | 2 |
| Ethylene Oxide | 0.05 - 3 %/vol. | GAS163 | Ethylene Oxide | 1 |
| | 100 - 350 ppm | GAS163L | Ethylene Oxide | 1 |
| | 1 - 100 ppm | GAS163L | Ethylene Oxide | 2 |
| | 0.4 - 1 ppm | GAS163L | Ethylene Oxide | 4 |
| | 5 - 10 ppm | GAS163LL | Ethylene Oxide | 2 |
| | 0.1 - 5 ppm | GAS163LL | Ethylene Oxide | 4 |
| Ethylenidiamine | 14 - 280 ppm | GAS180 | Amines | 1 |
| | 0.9 - 18 ppm | GAS180L | Amines | 1 |
| Ethylmorpholine | 5 - 100 ppm | GAS180 | Amines | 1 |
| | 0.3 - 6 ppm | GAS180L | Amines | 1 |
| Fluorine | 0.5 - 50 ppm | GAS17 | Hydrogen fluoride | 1 |
| Formaldehyde | 2000 - 6400 ppm | GAS91M | Formaldehyde | 1/2 |
| | 20 - 2000 ppm | GAS91M | Formaldehyde | 1 |
| | 8 - 20 ppm | GAS91M | Formaldehyde | 2 |
| | 50 - 100 ppm | GAS91 | Formaldehyde | 1/2 |
| | 20 - 50 ppm | GAS91 | Formaldehyde | 1 |
| | 2 - 20 ppm | GAS91 | Formaldehyde | 2 |
| | 5 - 40 ppm | GAS91L | Formaldehyde | 1 |
| | 0.1 - 5 ppm | GAS91L | Formaldehyde | 5 |
| | 0.05 - 1 ppm | GAS91LL | Formaldehyde | 5 |
| Formic Acid | 5.2 - 130 ppm | GAS81 | Acetic Acid | 1 |
| | 0.5 - 20 ppm | GAS81L | Acetic Acid | 1 |
| Furfural | 2 - 30 ppm | GAS154 | Cyclohexanone | 4 |
| Gasoline | 0.6 - 1.2 %/vol. | GAS101 | Gasoline | 1/2 |
| | 0.03 - 0.6 %/vol. | GAS101 | Gasoline | 1 |
| | 0.015 - 0.03 %/vol. | GAS101 | Gasoline | 2 |



Colorimetric tubes

Gas List : H/H



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|------------------------------------|---------------------|-----------------------|-----------------------------|----------------------|
| | | Code | Gas | |
| | 1000 - 2000 ppm | GAS101L | Gasoline | 1 |
| | 30 - 1000 ppm | GAS101L | Gasoline | 2 |
| | 0.1 - 2 %/vol. | GAS1M | Carbon Monoxide | 1 |
| Heptane | 0.6 - 1.2 %/vol. | GAS101 | Gasoline | 1/2 |
| | 0.03 - 0.6 %/vol. | GAS101 | Gasoline | 1 |
| | 0.015 - 0.03 %/vol. | GAS101 | Gasoline | 2 |
| | 1000 - 2000 ppm | GAS101L | Gasoline | 1 |
| | 30 - 1000 ppm | GAS101L | Gasoline | 2 |
| | 0.84 - 1.68 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 1/2 |
| | 0.07 - 0.84 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 1 |
| | 0.035 - 0.07 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 2 |
| | 180 - 2700 ppm | GAS105 | Hydrocarbons (Higher Class) | 1 |
| | 90 - 180 ppm | GAS105 | Hydrocarbons (Higher Class) | 2 |
| Hexamethylenediamine | 1.55 - 31 ppm | GAS180L | Amines | 1 |
| Hexane | 0.6 - 1.2 %/vol. | GAS102H | Hexane | 1/2 |
| | 0.03 - 0.6 %/vol. | GAS102H | Hexane | 1 |
| | 0.015 - 0.03 %/vol. | GAS102H | Hexane | 2 |
| | 50 - 1200 ppm | GAS102L | Hexane | 1 |
| | 4 - 50 ppm | GAS102L | Hexane | 5 |
| | 0.6 - 1.2 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 1/2 |
| | 0.05 - 0.6 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 1 |
| | 0.025 - 0.05 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 2 |
| | 160 - 2400 ppm | GAS105 | Hydrocarbons (Higher Class) | 1 |
| | 80 - 160 ppm | GAS105 | Hydrocarbons (Higher Class) | 2 |
| Hexyl alcohol | 168 - 1680 ppm | GAS141L | Ethyl Acetate | 2 |
| Hexylamine | 9 - 180 ppm | GAS180 | Amines | 1 |
| | 0.65 - 13 ppm | GAS180L | Amines | 1 |
| Hydrazine | 0.1 - 2 ppm | GAS185 | Hydrazine | 5 |
| | 0.05 - 0.1 ppm | GAS185 | Hydrazine | 10 |
| Hydrocarbons (Higher Class) | 200 - 3000 ppm | GAS105 | Hydrocarbons (Higher Class) | 1 |
| | 100 - 200 ppm | GAS105 | Hydrocarbons (Higher Class) | 2 |
| Hydrocarbures (Lower Class) | 1.2 - 2.4 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 1/2 |
| | 0.1 - 1.2 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 1 |
| | 0.05 - 0.1 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 2 |
| Hydrogen | 0.5 - 2 %/vol. | GAS30 | Hydrogen | 1 |
| | 0.8 - 16 ppm | GAS15L | Nitric Acid | 1 |
| | 200 - 5000 ppm | GAS14R | Hydrogen Chloride | 1 |
| | 50 - 200 ppm | GAS14R | (Low Humidity) | 2 to 4 |
| | 500 - 1000 ppm | GAS14M | Hydrogen Chloride | 1/2 |
| | 20 - 500 ppm | GAS14M | Hydrogen Chloride | 1 |
| | 10 - 20 ppm | GAS14M | Hydrogen Chloride | 2 |
| | 20 - 76 ppm | GAS14L | Hydrogen Chloride | 1/2 |
| | 1 - 20 ppm | GAS14L | Hydrogen Chloride | 1 |
| | 0.2 - 1 ppm | GAS14L | Hydrogen Chloride | 2 |
| | 8 - 160 ppm | GAS80 | Acid Gases | 2 |
| | 1.5 - 30 %/vol. | GAS8HH | Chloride | 1/2 |
| Hydrogen Cyanide | 0.05 - 1.6 %/vol. | GAS12H | Hydrogen Cyanide | 1 |



Colorimetric tubes

Gas List : H/I



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|--------------------------|-------------------|-----------------------|----------------------|----------------------|
| | | Code | Gas | |
| | 800 - 2400 ppm | GAS12M | Hydrogen Cyanide | 1/2 |
| | 50 - 800 ppm | GAS12M | Hydrogen Cyanide | 1 |
| | 17 - 50 ppm | GAS12M | Hydrogen Cyanide | 2 |
| | 60 - 150 ppm | GAS12L | Hydrogen Cyanide | 1/2 |
| | 2.5 - 60 ppm | GAS12L | Hydrogen Cyanide | 1 |
| | 1.25 - 2.5 ppm | GAS12L | Hydrogen Cyanide | 2 |
| | 0.5 - 1.25 ppm | GAS12L | Hydrogen Cyanide | 5 |
| | 5 - 10 ppm | GAS12LL | Hydrogen Cyanide | 1 |
| | 0.2 - 5 ppm | GAS12LL | Hydrogen Cyanide | 2 |
| Hydrogen fluoride | 20 - 100 ppm | GAS17 | Hydrogen fluoride | 1 |
| | 0.5 - 20 ppm | GAS17 | Hydrogen fluoride | 4 |
| | 0.25 - 0.5 ppm | GAS17 | Fluorure d'Hydrogène | 7 |
| | 10 - 72 ppm | GAS17L | Fluorure d'Hydrogène | 1 |
| | 0.2 - 10 ppm | GAS17L | Fluorure d'Hydrogène | 3 |
| | 0.09 - 0.2 ppm | GAS17L | Fluorure d'Hydrogène | 5 |
| | 6.9 - 24 ppm | GAS17LL | Fluorure d'Hydrogène | 1 |
| | 3 - 6.90 ppm | GAS17LL | Fluorure d'Hydrogène | 3 |
| | 0.05 - 3 %/vol. | GAS17LL | Fluorure d'Hydrogène | 5 |
| Hydrogen peroxyde | 0.5 - 10 ppm | GAS32 | Hydrogen Peroxyde | 5 |
| Hydrogen sulphide | 20 - 40 %/vol. | GAS4HT | Hydrogen sulphide | 1/2 |
| | 2 - 20 %/vol. | GAS4HT | Hydrogen sulphide | 1 |
| | 1 - 2 %/vol. | GAS4HT | Hydrogen sulphide | 2 |
| | 10 - 20 %/vol. | GAS4HP | Hydrogen sulphide | 1/2 |
| | 0.5 - 10 %/vol. | GAS4HP | Hydrogen sulphide | 1 |
| | 0.25 - 0.5 %/vol. | GAS4HP | Hydrogen sulphide | 2 |
| | 2 - 4 %/vol. | GAS4HH | Hydrogen sulphide | 1/2 |
| | 0.1 - 2 %/vol. | GAS4HH | Hydrogen sulphide | 1 |
| | 2000 - 4000 ppm | GAS4H | Hydrogen sulphide | 1/2 |
| | 100 - 2000 ppm | GAS4H | Hydrogen sulphide | 1 |
| | 10 - 100 ppm | GAS4H | Hydrogen sulphide | 2 to 10 |
| | 800 - 1600 ppm | GAS4HM | Hydrogen sulphide | 1/2 |
| | 50 - 800 ppm | GAS4HM | Hydrogen sulphide | 1 |
| | 25 - 50 ppm | GAS4HM | Hydrogen sulphide | 2 |
| | 250 - 500 ppm | GAS4M | Hydrogen sulphide | 1/2 |
| | 25 - 250 ppm | GAS4M | Hydrogen sulphide | 1 |
| | 12.5 - 25 ppm | GAS4M | Hydrogen sulphide | 2 |
| | 120 - 240 ppm | GAS4L | Hydrogen sulphide | 1/2 |
| | 10 - 120 ppm | GAS4L | Hydrogen sulphide | 1 |
| | 1 - 10 ppm | GAS4L | Hydrogen sulphide | 2 to 10 |
| | 60 - 120 ppm | GAS4LL | Hydrogen sulphide | 1/2 |
| | 2.5 - 60 ppm | GAS4LL | Hydrogen sulphide | 1 |
| | 0.25 - 2.5 ppm | GAS4LL | Hydrogen sulphide | 2 |
| | 20 - 40 ppm | GAS4LK | Hydrogen sulphide | 1/2 |
| | 2 - 20 ppm | GAS4LK | Hydrogen sulphide | 1 |
| | 1 - 2 ppm | GAS4LK | Hydrogen sulphide | 2 |
| | 6 - 12 ppm | GAS4LB | Hydrogen sulphide | 1/2 |
| | 1 - 6 ppm | GAS4LB | Hydrogen sulphide | 1 |



Colorimetric tubes

Gas List : I/M



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|---|---------------------|-----------------------|--|----------------------|
| | | Code | Gas | |
| | 0.5 - 1 ppm | GAS4LB | Hydrogen sulphide | 2 |
| | 2 - 4 ppm | GAS4LT | Hydrogen sulphide | 1/2 |
| | 0.1 - 2 ppm | GAS4LT | Hydrogen sulphide | 1 |
| | 0.05 - 0.1 ppm | GAS4LT | Hydrogen sulphide | 2 |
| | H2S 60 - 120 ppm | GAS45S | Hydrogen sulphide | 1/2 |
| | 2.5 - 60 ppm | GAS45S | & Sulphure Dioxide | 1 |
| | 1.25 - 2.5 ppm | GAS45S | Hydrogen sulphide & Sulphure Dioxide (separate quantification) | 2 |
| Hydrogen sulphide & Sulphure Dioxide | 4 - 8 %/vol. | GAS45H | Hydrogen sulphide | 1/2 |
| | 0.2 - 4 %/vol. | GAS45H | & Sulphure Dioxide | 1 |
| | 0.02 - 0.2 %/vol. | GAS45H | (total quantification) | 2 to 10 |
| Iodine | 0.2 - 12 ppm | GAS9L | Nitrogen Dioxide | 2 |
| | 0.12 - 2.4 ppm | GAS80 | Acid Gases | 2 |
| Isoamilic Alcohol | 5 - 300 ppm | GAS141L | Isoamilic Alcohol | 2 |
| Isoamyl Acetate | 10 - 200 ppm | GAS148 | Isoamyl Acetate | 2 |
| Isobutane | 0.84 - 1.68 %/vol. | GAS103 | Hydrocarbons (lower class) | 1/2 |
| | 0.07 - 0.84 %/vol. | GAS103 | Hydrocarbons (lower class) | 1 |
| | 0.035 - 0.07 %/vol. | GAS103 | Hydrocarbons (lower class) | 2 |
| | 55 - 3080 ppm | GAS104 | Butane | 1 |
| Isobutene | 0.07 - 2.2 %/vol. | GAS101L | Gasoline | 1 |
| Isobutyl Acetate | 10 - 300 ppm | GAS144 | Isobutyl Acetate | 2 |
| Isobutyl Acrylate | 2.6 - 78 ppm | GAS142L | Butyl Acetate | 2 |
| Isobutyl Alcohol | 10 - 150 ppm | GAS116 | Isobutyl Alcohol | 2 |
| | 4 - 10 ppm | GAS116 | Isobutyl Alcohol | 4 |
| Isooctane | 0.027 - 0.54 %/vol. | GAS101 | Gasoline | 1 |
| Isopentane | 1.08 - 2.16 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 1/2 |
| | 0.09 - 1.08 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 1 |
| | 0.045 - 0.09 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 2 |
| Isophorone | 2 - 30 ppm | GAS154 | Cyclohexanone | 8 |
| Isopropyl Acetate | 10 - 500 ppm | GAS146 | Isopropyl Acetate | 2 |
| Isopropyl Acohol | 2.5 - 5 %/vol. | GAS113 | Isopropyl Alcohol | 1/2 |
| | 0.04 - 2.5 %/vol. | GAS113 | Isopropyl Alcohol | 1 |
| | 0.02 - 0.04 %/vol. | GAS113 | Isopropyl Alcohol | 2 |
| | 50 - 800 ppm | GAS113L | Isopropyl Alcohol | 1 |
| | 20 - 50 ppm | GAS113L | Isopropyl Alcohol | 2 |
| | 200 - 460 ppm | GAS113LL | Isopropyl Alcohol | 1 |
| | 20 - 200 ppm | GAS113LL | Isopropyl Alcohol | 2 |
| Isopropyl ether | 17.6 - 704 ppm | GAS141L | Ethyl Acetate | 2 |
| | 0.018 - 0.45 %/vol. | GAS161 | Ethyl Ether | 2 |
| Isopropyl Mercaptan | 10 - 240 ppm | GAS70 | Mercaptans | 1 |
| Isopropylamine | 5.5 - 110 ppm | GAS180 | Amines | 1 |
| | 0.45 - 9 ppm | GAS180L | Amines | 1 |
| Isovaleric Acid | 2 - 50 ppm | GAS81 | Acetic Acid | 1 |
| | 0.38 - 15 ppm | GAS81L | Acetic Acid | 1 |
| Liquefied petroleum gas (LPG) | 0.02 - 0.8 %/vol. | GAS100A | Liquefied petroleum gas (LPG) | 1 |
| MEK Butanon | 0.02 - 0.6 %/vol. | GAS152 | MEK Butanon | 2 |
| | 120 - 384 ppm | GAS152L | MEK Butanon | 1/2 |



Colorimetric tubes

Gas List : M/M



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|--|-------------------------------|-----------------------|-----------------------|----------------------|
| | | Code | Gas | |
| | 10 - 120 ppm | GAS152L | MEK Butanon | 1 |
| | 21 - 1680 ppm | GAS151L | MEK Butanon | 5 |
| Maleic Anhydride | 0.8 - 20 ppm | GAS81 | Acetic Acid | 1 |
| Mercaptans | 5 - 120 ppm | GAS70 | Mercaptans | 1 |
| | 0.5 - 5 ppm | GAS70 | Mercaptans | 2 to 10 |
| | 4 - 8 ppm | GAS70L | Mercaptans | 1/2 |
| | 0.5 - 4 ppm | GAS70L | Mercaptans | 1 |
| | 0.2 - 0.5 ppm | GAS70L | Mercaptans | 2 |
| | 0.1 - 0.2 ppm | GAS70L | Mercaptans | 4 |
| | 4 - 8 ppm | GAS70LN | Mercaptans | 1/2 |
| | 0.5 - 4 ppm | GAS70LN | Mercaptans | 1 |
| | 0.2 - 0.5 ppm | GAS70LN | Mercaptans | 2 |
| | 0.1 - 0.2 ppm | GAS70LN | Mercaptans | 4 |
| Mercaptoéthanol (2-Mercaptoéthanol) | 0.5 - 7.5 ppm | GAS75L | Tert-butyle Mercaptan | 1 |
| Mercury Vapour | 6 - 13.2 mg/m ³ | GAS40 | Mercury Vapour | 1/2 |
| | 0.25 - 6 mg/m ³ | GAS40 | Mercury Vapour | 1 |
| | 0.05 - 0.25 mg/m ³ | GAS40 | Mercury Vapour | 5 |
| Mesityl Oxide | 27 - 1080 ppm | GAS141L | Ethyl Acetate | 2 |
| Methacrylonitrile | 10 - 32 ppm | GAS192 | Methacrylonitrile | 1 |
| | 0.5 - 10 ppm | GAS192 | Methacrylonitrile | 2 |
| | 0.2 - 0.5 ppm | GAS192 | Methacrylonitrile | 4 |
| Methaldehyde | 0.065 - 3.25 ppm | GAS91L | Formaldehyde | 3 |
| Methanol | 1.5 - 4.5 %/vol. | GAS111 | Methanol | 1/2 |
| | 0.02 - 1.5 %/vol. | GAS111 | Methanol | 1 |
| | 0.004 - 0.02 %/vol. | GAS111 | Methanol | 2 |
| | 0.002 - 0.004 %/vol. | GAS111 | Methanol | 4 |
| | 40 - 1000 ppm | GAS111L | Methanol | 1 |
| | 20 - 40 ppm | GAS111L | Methanol | 2 |
| | 20 - 56 ppm | GAS111LL | Methanol | 2 |
| | 2 - 20 ppm | GAS111LL | Methanol | 4 |
| 1 - Methoxy 2 - Propanol | 26 - 260 ppm | GAS113LL | Isopropyl Alcohol | 2 |
| Methoxyethyl Acetate (2-Methoxyethyl Acetate) | 300 - 1300 ppm | GAS113L | Isopropyl Alcohol | 2 |
| Methyl Acrylate | 7.2 - 288 ppm | GAS141L | Ethyl Acetate | 2 |
| 2 - Methyl allyl Chloride | 2.8 - 55 ppm | GAS131LA | Vinyl Chloride | 1 |
| Methyl Bromide | 300 - 600 ppm | GAS136H | Methyl Bromide | 1/2 |
| | 20 - 300 ppm | GAS136H | Methyl Bromide | 1 |
| | 10 - 20 ppm | GAS136H | Methyl Bromide | 2 |
| | 100 - 200 ppm | GAS136L | Methyl Bromide | 1/2 |
| | 10 - 100 ppm | GAS136L | Methyl Bromide | 1 |
| | 2.5 - 10 ppm | GAS136L | Methyl Bromide | 4 |
| | 18 - 36 ppm | GAS136LA | Methyl Bromide | 1 |
| | 1 - 18 ppm | GAS136LA | Methyl Bromide | 2 |
| | 1.2 - 3 ppm | GAS136LL | Methyl Bromide | 1 |
| | 0.1 - 1.2 ppm | GAS136LL | Methyl Bromide | 2 |
| 2 - Methyl 3 - Butenitrile | 0.4 - 12 ppm | GAS191L | Acrylonitrile | 2 |
| Methyl Chloroformate | 58 - 1160 ppm | GAS131LA | Vinyl Chloride | 5 |
| Methyl ether | 0.034 - 0.85 %/vol. | GAS161 | Methyl ether | 1 |
| Methyl Ethyl Ketone | 0.02 - 0.6 %/vol. | GAS152 | Methyl Ethyl Ketone | 2 |



Colorimetric tubes

Gas List : M/N



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|--|--------------------|-----------------------|------------------------|----------------------|
| | | Code | Gas | |
| | 120 - 384 ppm | GAS152L | Methyl Ethyl Ketone | 1/2 |
| | 10 - 120 ppm | GAS152L | Methyl Ethyl Ketone | 1 |
| | 21 - 1680 ppm | GAS151L | Acetone | 5 |
| Methyl Hydrazine | 0.6 - 12 ppm | GAS185 | Hydrazine | 5 |
| Methyl iodide | 0.32 - 32 ppm | GAS121L | Benzene | 5 |
| | 15000 - 34800 ppm | GAS230H | Methyl iodine | 1/2 |
| | 6000 - 15000 ppm | GAS230H | Methyl iodine | 1 |
| | 100 - 6000 ppm | GAS230H | Methyl iodine | 2 |
| | 46 - 108 ppm | GAS230 | Methyl iodine | 1/2 |
| | 20 - 46 ppm | GAS230 | Methyl iodine | 1 |
| | 1 - 20 ppm | GAS230 | Methyl iodine | 2 |
| | 0.5 - 1 ppm | GAS230 | Methyl iodine | 4 |
| Methyl Isobutyl Ketone | 0.05 - 0.6 %/vol. | GAS153 | Methyl Isobutyl Ketone | 2 |
| | 50 - 130 ppm | GAS153L | Methyl Isobutyl Ketone | 1/2 |
| | 2.5 - 50 ppm | GAS153L | Methyl Isobutyl Ketone | 1 |
| Methyl Isothiocyanate | 5.4 - 216 ppm | GAS141L | Ethyl acetate | 2 |
| Methyl Mercaptan | 1000 - 2700 ppm | GAS71H | Methyl Mercaptan | 1/2 |
| | 50 - 1000 ppm | GAS71H | Methyl Mercaptan | 1 |
| | 20 - 50 ppm | GAS71H | Methyl Mercaptan | 2 |
| | 70 - 140 ppm | GAS71 | Methyl Mercaptan | 1/2 |
| | 2.5 - 70 ppm | GAS71 | Methyl Mercaptan | 1 |
| | 0.25 - 2.5 ppm | GAS71 | Methyl Mercaptan | 2 to 10 |
| | 3.5 - 84 ppm | GAS70 | Mercaptans | 1 |
| | 0.35 - 3.5 ppm | GAS70 | Mercaptans | 2 to 10 |
| | 4 - 8 ppm | GAS70LN | Mercaptans | 1/2 |
| | 0.5 - 4 ppm | GAS70LN | Mercaptans | 1 |
| | 0.2 - 0.5 ppm | GAS70LN | Mercaptans | 2 |
| | 0.1-0.2 ppm | GAS70LN | Mercaptans | 4 |
| Methyl Methacrylate | 200 - 500 ppm | GAS149 | Methyl Methacrylate | 1 |
| | 10 - 200 ppm | GAS149 | Methyl Methacrylate | 2 |
| Methyl Morpholine (N-Methyl Morpholine) | 5 - 100 ppm | GAS180 | Amines | 1 |
| | 0.3 - 6 ppm | GAS180L | Amines | 1 |
| 4 - Methylpyridine | 0.38 - 10.5 ppm | GAS182 | Pyridine | 1 |
| Methylamine | 5 - 100 ppm | GAS180 | Amines | 1 |
| | 0.5 - 10 ppm | GAS180L | Amines | 1 |
| Methylaniline (n-Methylaniline) | 3.5 - 42 ppm | GAS181 | Aniline | 2 |
| Methylcyclohexane | 0.04 - 0.84 %/vol. | GAS102H | Hexane | 1 |
| Methylcyclohexanol | 5 - 100 ppm | GAS119 | Methylcyclohexanol | 2 |
| Methylcyclohexanone | 50 - 100 ppm | GAS155 | Methylcyclohexanone | 2 |
| | 2 - 50 ppm | GAS155 | Methylcyclohexanone | 3 |
| Methylene Chloride | 50 - 500 ppm | GAS138 | Methylene Chloride | 1 |
| | 20 - 50 ppm | GAS138 | Methylene Chloride | 2 |
| | 60 - 150 ppm | GAS138L | Methylene Chloride | 1 |
| | 10 - 60 ppm | GAS138L | Methylene Chloride | 2 |
| | 4 - 10 ppm | GAS138L | Methylene Chloride | 4 |
| Methylene iodide | 0.22 - 22 ppm | GAS121L | Benzene | 5 |
| N - Methyl Pyrrolidone | 13.5 - 270 ppm | GAS180 | Amines | 1 |
| Morpholine | 9 - 180 ppm | GAS180 | Amines | 1 |



Colorimetric tubes

Gas List : N/P



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|------------------------------|-----------------------|-----------------------|--|----------------------|
| | | Code | Gas | |
| | 0.5 - 10 ppm | GAS180L | Amines | 1 |
| Naphtalene | 0.5 - 14 ppm | GAS60 | Phenol | 2 |
| Nitric Acid | 20 - 40 ppm | GAS15L | Nitric Acid | 1/2 |
| | 1 - 20 ppm | GAS15L | Nitric Acid | 1 |
| | 0.1 - 1 ppm | GAS15L | Nitric Acid | 2 to 10 |
| | 5 - 100 ppm | GAS80 | Acid Gases | 2 |
| Nitrogen Dioxide | 30 - 125 ppm | GAS9L | Nitrogen Dioxide | 1 |
| | 0.5 - 30 ppm | GAS9L | Nitrogen Dioxide | 2 |
| | 2.5 - 200 ppm | GAS10 | NO + NO ₂ (separate quantification) | 1 |
| | 0.2 - 4 ppm | GAS80 | Acid Gases | 2 |
| Nitrogen Oxides NOX | 50 - 2500 ppm | GAS11HA | NOX Total Quantification | 1 |
| | 250 - 625 ppm | GAS11S | NOX Total Quantification | 1/2 |
| | 10 - 250 ppm | GAS11S | NOX Total Quantification | 1 |
| | 5 - 10 ppm | GAS11S | NOX Total Quantification | 2 |
| | 5 - 16.5 ppm | GAS11L | NOX Total Quantification | 1 |
| | 0.2 - 5 ppm | GAS11L | NOX Total Quantification | 2 |
| | 0.08 - 0.2 ppm | GAS11L | NOX Total Quantification | 4 |
| | 0.04 - 0.08 ppm | GAS11L | NOX Total Quantification | 8 |
| | 5 - 200 ppm | GAS10 | NOX (Separate quantification) | 1 |
| | 2.5 - 5 ppm | GAS10 | NOX (Separate quantification) | 2 |
| Nonane | 260 - 3900 ppm | GAS105 | Hydrocarbons (Higher Class) | 1 |
| | 130 - 260 ppm | GAS105 | Hydrocarbons (Higher Class) | 2 |
| Octane | 0.036 - 0.72 %/vol. | GAS101 | Gasoline (Petrol) | 1 |
| | 200 - 3000 ppm | GAS105 | Hydrocarbons (Higher Class) | 1 |
| | 100 - 200 ppm | GAS105 | Hydrocarbons (Higher Class) | 2 |
| Oxygen | 6 - 24 %/vol. | GAS31B | Oxygen | 1/2 |
| | 3 - 6 %/vol | GAS31B | Oxygen | 1 |
| Ozone | 200 - 400 ppm | GAS18M | Ozone | 1/2 |
| | 20 - 200 ppm | GAS18M | Ozone | 1 |
| | 4 - 20 ppm | GAS18M | Ozone | 2 to 5 |
| | 3 - 6 %/vol. | GAS18L | Ozone | 1/2 |
| | 0.6 - 3 ppm | GAS18L | Ozone | 1 |
| | 0.05 - 0.6 ppm | GAS18L | Ozone | 5 |
| | 0.025 - 0.05 ppm | GAS18L | Ozone | 10 |
| Pentachloroethane | 40 - 500 ppm | GAS133L | Tetrachloroethylene | 1 |
| 1 - 3 Pentadiene | 250 - 4000 ppm | GAS174 | 1,3-Butadiene | 1 |
| | 42.5 - 850 ppm | GAS174L | 1,3-Butadiene | 4 |
| Pentaméthylènediamine | 0.75 - 15 ppm | GAS180L | Amines | 1 |
| Pentane (n-Pentane) | 30 - 1680 | GAS104 | Butane | 1 |
| | 0.9 - 1.8 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 1/2 |
| | 0.075 - 0.9 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 1 |
| | 0.0375 - 0.075 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 2 |
| 2 - Pentenenitrile | 6 - 15 ppm | GAS193 | 2-Pentenenitrile | 2 |
| | 0.5 - 6 ppm | GAS193 | 2-Pentenenitrile | 4 |
| | 0.24 - 7.2 ppm | GAS191L | Acrylonitrile | 2 |
| 3 - Pentenenitrile | 0.4 - 12 ppm | GAS191L | Acrylonitrile | 2 |
| Petroleum Benzine | 14 - 28 mg/l | GAS106 | Petroleum Naphta | 1/2 |
| | 1 - 14 mg/l | GAS106 | Petroleum Naphta | 1 |

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Colorimetric tubes

Gas List : P/S



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|-------------------------|-------------------|-----------------------|----------------------------|----------------------|
| | | Code | Gas | |
| Petroleum Ether | 0.5 - 1 mg/l | GAS106 | Petroleum Naphta | 2 |
| | 14 - 28 mg/l | GAS106 | Petroleum Naphta | 1/2 |
| | 1 - 14 mg/l | GAS106 | Petroleum Naphta | 1 |
| | 0.5 - 1 mg/l | GAS106 | Petroleum Naphta | 2 |
| Petroleum Naphta | 14 - 28 mg/l | GAS106 | Petroleum Naphta | 1/2 |
| | 1 - 14 mg/l | GAS106 | Petroleum Naphta | 1 |
| | 0.5 - 1 mg/l | GAS106 | Petroleum Naphta | 2 |
| | 1000 - 3000 ppm | GAS140 | Petroleum Naphta | 1/2 |
| | 20 - 1000 ppm | GAS140 | Petroleum Naphta | 1 |
| | 6 - 20 ppm | GAS140 | Petroleum Naphta | 2 |
| Phenol | 62.5 - 187 ppm | GAS60 | Phenol | 1/2 |
| | 25 - 62.5 ppm | GAS60 | Phenol | 1 |
| | 1 - 25 ppm | GAS60 | Phenol | 2 |
| | 0.4 - 1 ppm | GAS60 | Phenol | 4 |
| Phosgene | 5 - 20 ppm | GAS16 | Phosgene | 1 |
| | 0.1 - 5 ppm | GAS16 | Phosgene | 5 |
| | 0.05 - 0.1 ppm | GAS16 | Phosgene | 10 |
| Phosphine | 2500 - 5500 ppm | GAS7H | Phosphine | 1/2 |
| | 200 - 2500 ppm | GAS7H | Phosphine | 1 |
| | 500 - 1000 ppm | GAS7J | Phosphine | 1/2 |
| | 25 - 500 ppm | GAS7J | Phosphine | 1 |
| | 2.5 - 25 ppm | GAS7J | Phosphine | 2 to 10 |
| | 50 - 100 ppm | GAS7 | Phosphine | 1 |
| | 5 - 50 ppm | GAS7 | Phosphine | 2 |
| | 2.5 - 5 ppm | GAS7 | Phosphine | 4 |
| | 0.3 - 5 ppm | GAS7L | Phosphine | 5 |
| | 0.15 - 0.3 ppm | GAS7L | Phosphine | 10 |
| | 2.5 - 9.8 ppm | GAS7LA | Phosphine | 1 |
| | 1.5 - 2.5 ppm | GAS7LA | Phosphine | 3 |
| | 0.1 - 1.5 ppm | GAS7LA | Phosphine | 5 |
| | 0.05 - 0.1 ppm | GAS7LA | Phosphine | 10 |
| Pinene (-pinene) | 95 - 1140 ppm | GAS121 | Benzene | 3 |
| Propane | 1.2 - 2.4 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 1/2 |
| | 0.1 - 1.2 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 1 |
| | 0.05 - 0.1 %/vol. | GAS103 | Hydrocarbons (Lower Class) | 2 |
| Propanethiol | 22.5 - 540 ppm | GAS70 | Mercaptans | 1 |
| | 4.8 - 9.6 ppm | GAS70L | Mercaptans | 1/2 |
| | 0.6 - 4.8 ppm | GAS70L | Mercaptans | 1 |
| | 0.24 - 0.6 ppm | GAS70L | Mercaptans | 2 |
| | 0.12 - 0.24 ppm | GAS70L | Mercaptans | 4 |
| | 1.25 ppm | GAS70LN | Mercaptans | 1 |
| Propionaldehyde | 0.76 - 38 ppm | GAS91L | Formaldehyde | 1 |
| Propanoic Acid | 3 - 75 ppm | GAS81 | Acetic Acid | 1 |
| | 0.25 - 10 ppm | GAS81L | Acetic Acid | 1 |
| Propyl Acetate | 20 - 500 ppm | GAS145 | Propyl Acetate | 2 |
| Propyl Alcohol | 0.04 - 2.5 %/vol. | GAS113 | Isopropyl Alcohol | 1 |
| | 130 - 560 ppm | GAS113L | Isopropyl Alcohol | 1 |
| | 55 - 170 ppm | GAS113LL | Isopropyl Alcohol | 2 |

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Colorimetric tubes

Gas List : S/T



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|-----------------------------------|-------------------------------|---|---|----------------------|
| | | Code | Gas | |
| Propylamine | 6 - 120 ppm | GAS180 | Amines | 1 |
| | 0.5 - 10 ppm | GAS180L | Amines | 1 |
| Propylbromide | 1 - 18 ppm | GAS136LA | Methylbromide | 2 |
| Propylene | 0.02 - 0.8 %/vol. | GAS100A | LPG | 1 |
| Propylene Oxide | 0.065 - 3.9 %/vol. | GAS163 | Ethylene Oxide | 1 |
| | 1 - 100 ppm | GAS163L | Ethylene Oxide | 1 |
| Propylene imine | 5.5 - 110 ppm | GAS180 | Amines | 1 |
| | 0.35 - 7 ppm | GAS180L | Amines | 1 |
| Pyridine | 14 - 35 ppm | GAS182 | Pyridine | 1/2 |
| | 0.5 - 14 ppm | GAS182 | Pyridine | 1 |
| | 0.2 - 0.5 ppm | GAS182 | Pyridine | 2 |
| Solvent Stoddard | 50 - 8000 mg/m3 | GAS128 | Solvent Stoddard | 1 |
| Styrene | 500 - 1500 ppm | GAS124 | Styrene | 1/2 |
| | 20 - 500 ppm | GAS124 | Styrene | 1 |
| | 10 - 20 ppm | GAS124 | Styrene | 2 |
| | 25 - 100 ppm | GAS124L | Styrene | 1 |
| | 2 - 25 ppm | GAS124L | Styrene | 4 |
| | 0.15 - 2.3 %/vol. | GAS153 | Methyl Isobutyl Ketone | 1 |
| Sulphur Dioxide | 4 - 8 %/vol. | GAS5H | Sulphur Dioxide | 1/2 |
| | 0.5 - 4 %/vol. | GAS5H | Sulphur Dioxide | 1 |
| | 0.05 - 0.5 %/vol. | GAS5H | Sulphur Dioxide | 2 à 10 |
| | 1800 - 3600 ppm | GAS5M | Sulphur Dioxide | 1/2 |
| | 100 - 1800 ppm | GAS5M | Sulphur Dioxide | 1 |
| | 20 - 100 ppm | GAS5M | Sulphur Dioxide | 4 |
| | 100 - 200 ppm | GAS5L | Sulphur Dioxide | 1/2 |
| | 5 - 100 ppm | GAS5L | Sulphur Dioxide | 1 |
| | 2.5 - 5 ppm | GAS5L | Sulphur Dioxide | 2 |
| | 1.25 - 2.5 ppm | GAS5L | Sulphur Dioxide | 4 |
| | 30 - 60 ppm | GAS5LA | Sulphur Dioxide | 1 |
| | 2 - 30 ppm | GAS5LA | Sulphur Dioxide | 2 |
| | 1 - 2 ppm | GAS5LA | Sulphur Dioxide | 4 |
| | 0.5 - 1 ppm | GAS5LA | Sulphur Dioxide | 8 |
| | 10 - 25 ppm | GAS5LC | Sulphur Dioxide | 1 |
| | 0.25 - 10 ppm | GAS5LC | Sulphur Dioxide | 2 |
| | 0.1 - 0.25 ppm | GAS5LC | Sulphur Dioxide | 4 |
| | 5 - 10 ppm | GAS5LB | Sulphur Dioxide | 1 |
| | 0.2 - 5 ppm | GAS5LB | Sulphur Dioxide | 2 |
| | 0.1 - 0.2 ppm | GAS5LB | Sulphur Dioxide | 4 |
| | 0.05 - 0.1 ppm | GAS5LB | Sulphur Dioxide | 8 |
| | SO ₂ : 10 - 20 ppm | GAS45S | Hydrogen sulphide & Sulphur Dioxide (Separate Quantification) | 1/2 |
| H ₂ S : 0.5 - 10 ppm | GAS45S | Hydrogen sulphide & Sulphur Dioxide (Separate Quantification) | 1 | |
| H ₂ S : 0.25 - 0.5 ppm | GAS45S | Hydrogen sulphide & Sulphur Dioxide (Separate Quantification) | 2 | |
| 1.5 - 30 ppm | GAS80 | Acid Gases | 2 | |
| Sulphuric Acid | 0.5 - 5 mg/m3 | GAS35 | Sulphuric Acid | 5 |



Colorimetric tubes

Gas List : T/T



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|--|------------------------------|-----------------------|--|----------------------|
| | | Code | Gas | |
| Tert Butylamine | 5.5 - 110 ppm | GAS180 | Amines | 1 |
| Tert-Butyl Alcohol | 500 - 12000 ppm | GAS102L | Hexane | 2 |
| Tert-Butyl Mercaptan | 60 - 150 mg/m ³ | GAS75 | Tert-Butyl Mercaptan | 1/2 |
| | 30 - 60 mg/m ³ | GAS75 | Tert-Butyl Mercaptan | 1 |
| | 2.5 - 30 mg/m ³ | GAS75 | Tert-Butyl Mercaptan | 2 |
| | 50 - 250 mg/m ³ | GAS75N | Tert-Butyl Mercaptan | 1/2 |
| | 2.5 - 50 mg/m ³ | GAS75N | Tert-Butyl Mercaptan | 1 |
| | 1.25 - 2.5 mg/m ³ | GAS75N | Tert-Butyl Mercaptan | 2 |
| | 15 - 30 mg/m ³ | GAS75L | Tert-Butyl Mercaptan | 1/2 |
| | 1 - 15 mg/m ³ | GAS75L | Tert-Butyl Mercaptan | 1 |
| | 0.5 - 1 mg/m ³ | GAS75L | Tert-Butyl Mercaptan | 2 |
| | 1 - 15 mg/m ³ | GAS77 | TBM-Tert-Butyl Mercaptan (& DMS - Dimetyle Sulphur) | 1 |
| | 15 - 39 mg/m ³ | GAS75LN | Tert-Butyl Mercaptan | 1/2 |
| | 1 - 15 mg/m ³ | GAS75LN | Tert-Butyl Mercaptan | 1 |
| | 0.5 - 1 mg/m ³ | GAS75LN | Tert-Butyl Mercaptan | 2 |
| | 4-8 pppm | GAS70L | Mercaptans | 1/2 |
| 0.5 - 4 ppm | GAS70L | Mercaptans | 1 | |
| 0.2 - 0.5 ppm | GAS70L | Mercaptans | 2 | |
| 0.1 - 0.2 ppm | GAS70L | Mercaptans | 4 | |
| 1 - 40 ppm | GAS70LN | Mercaptans | 1 | |
| Tetrabromoethane (1,1,2,2-Tetrabromoethane) | 0.92 - 9.2 ppm | GAS135L | 1,1,1-Trichloroethan (MethylChloroform) | 4 |
| Tetrachloroethylene | 300 - 900 ppm | GAS133HA | Tetrachloroethylene | 1/2 |
| | 20 - 300 ppm | GAS133HA | Tetrachloroethylene | 1 |
| | 1 - 2 ppm | GAS133L | Tetrachloroethylene | 2 |
| | 3 - 9 ppm | GAS133LL | Tetrachloroethylene | 1/2 |
| | 0.2 - 3 ppm | GAS133LL | Tetrachloroethylene | 1 |
| | 0.1 - 0.2 ppm | GAS133LL | Tetrachloroethylene | 2 |
| | 0.075 - 1.5 %/vol. | GAS132HH | Trichloroethylene | 1 |
| Tetrahydrofuran | 50 - 800 ppm | GAS159 | Tetrahydrofurane | 1 |
| | 20 - 50 ppm | GAS159 | Tetrahydrofurane | 2 |
| | 80 - 232 ppm | GAS159L | Tetrahydrofurane | 1/2 |
| | 5 - 80 ppm | GAS159L | Tetrahydrofurane | 1 |
| | 0.056 - 1.4 %/vol. | GAS161 | Ethyl Ether | 1 |
| Tetrahydrothiophene | 10 - 200 ppm | GAS76H | Tétrahydrothiophène | 1 |
| | 10 - 100 mg/m ³ | GAS76M | Tétrahydrothiophène | 2 |
| | 1 - 10 ppm | GAS76 | Tétrahydrothiophène | 4 |
| Tetramethylenediamine | 8.5 - 170 ppm | GAS180 | Amines | 1 |
| | 0.8 - 16 ppm | GAS180L | Amines | 1 |
| Thionyl Chloride | 1.44 - 21.6 ppm | GAS5LA | Sulphur Dioxide | 2 |
| Toluene | 300 - 690 ppm | GAS122 | Toluene | 1/2 |
| | 10 - 300 ppm | GAS122 | Toluene | 1 |
| | 5 - 10 ppm | GAS122 | Toluene | 2 |
| | 50 - 100 ppm | GAS122L | Toluene | 1 |
| | 2 - 50 ppm | GAS122L | Toluene | 2 |
| | 1 - 2 ppm | GAS122L | Toluene | 4 |
| | 0.02 - 0.8 %/vol. | GAS161 | Ethyl Ether | 1 |

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Colorimetric tubes

Gas List : T/V



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|--|---------------------|-----------------------|--|----------------------|
| | | Code | Gas | |
| Toluidine (o-Toluidine) | 5 - 60 ppm | GAS181 | Aniline | 2 |
| Trichloroacetic Acid | 1 - 37.5 ppm | GAS15L | Nitric Acid | 1 |
| Trichlorobenzene (1,2,4-Trichlorobenzene) | 0.65 - 13 ppm | GAS131LA | Vinyl Chloride | 4 |
| Trichloroethane (1,1,1-Trichloroethane) | 500 - 2000 ppm | GAS135 | 1,1,1-Trichloroethan (MethylChloroform) | 1/2 |
| | 100 - 500 ppm | GAS135 | 1,1,1-Trichloroethan (MethylChloroform) | 1 |
| | 200 - 900 ppm | GAS135L | 1,1,1-Trichloroethan (MethylChloroform) | 1/2 |
| | 20 - 200 ppm | GAS135L | 1,1,1-Trichloroethan (MethylChloroform) | 1 |
| | 6 - 20 ppm | GAS135L | 1,1,1-Trichloroethan (MethylChloroform) | 2 |
| | 0.06 - 1.2 %/vol. | GAS171 | Acetylene | 1 |
| Trichloroethane (1,1,2-Trichloroethane) | 220 - 750 ppm | GAS135 | 1,1,1-Trichloroethan (MethylChloroform) | 2 |
| Trichloroethylene | 1 - 2.5 %/vol. | GAS132HH | Trichloroethylene | 1/2 |
| | 0.05 - 1 %/vol. | GAS132HH | Trichloroethylene | 1 |
| | 500 - 1300 ppm | GAS132HA | Trichloroethylene | 1/2 |
| | 50 - 500 ppm | GAS132HA | Trichloroethylene | 1 |
| | 20 - 50 ppm | GAS132HA | Trichloroethylene | 2 |
| | 100 - 250 ppm | GAS132M | Trichloroethylene | 1/2 |
| | 5 - 100 ppm | GAS132M | Trichloroethylene | 1 |
| | 2 - 5 ppm | GAS132M | Trichloroethylene | 2 |
| | 25 - 70 ppm | GAS132L | Trichloroethylene | 1/2 |
| | 2 - 25 ppm | GAS132L | Trichloroethylene | 1 |
| | 1 - 2 ppm | GAS132L | Trichloroethylene | 2 |
| | 4 - 8.8 ppm | GAS132LL | Trichloroethylene | 1/2 |
| | 0.25 - 4 ppm | GAS132LL | Trichloroethylene | 1 |
| | 0.125 - 0.25 ppm | GAS132LL | Trichloroethylene | 2 |
| Trichloropropane (1,2,3-Trichloropropane) | 36 - 360 ppm | GAS135L | 1,1,1-Trichloroethan (MethylChloroform) | 4 |
| Triethylamine | 4.5 - 90 ppm | GAS180 | Amines | 1 |
| | 0.3 - 6 ppm | GAS180L | Amines | 1 |
| Trimethylamine | 25 - 250 ppm | GAS3M | Ammonia | 1 |
| | 3.5 - 70 ppm | GAS180 | Amines | 1 |
| | 0.25 - 5 ppm | GAS180L | Amines | 1 |
| Valeric Acid | 0.38 - 15 ppm | GAS81L | Acetic Acid | 1 |
| Vinyl Chloride | 1 - 2 %/vol. | GAS131 | Vinyl Chloride | 1/2 |
| | 0.05 - 1 %/vol. | GAS131 | Vinyl Chloride | 1 |
| | 0.025 - 0.05 %/vol. | GAS131 | Vinyl Chloride | 2 |
| | 20 - 54 ppm | GAS131LA | Vinyl Chloride | 1/2 |
| | 1 - 20 ppm | GAS131LA | Vinyl Chloride | 1 |
| | 0.5 - 1 ppm | GAS131LA | Vinyl Chloride | 2 |
| | 0.25 - 0.5 ppm | GAS131LA | Vinyl Chloride | 4 |
| | 3 - 6.6 ppm | GAS131L | Vinyl Chloride | 1 |
| | 0.2 - 3 ppm | GAS131L | Vinyl Chloride | 2 |



Colorimetric tubes

Gas List : W/X



| Gas - Vapor | Measuring range | Tube code + Tube name | | Nber of pump strokes |
|------------------------------|-------------------|---------------------------------|---------------------------------|----------------------|
| | | Code | Gas | |
| | 0.1 - 0.2 ppm | GAS131L | Vinyl Chloride | 4 |
| | 20 - 70 ppm | GAS131LB | Vinyl Chloride | 1 |
| | 1 - 20 ppm | GAS131LB | Vinyl Chloride | 2 |
| | 0.25 - 10 ppm | GAS131LB | Vinyl Chloride | 4 |
| Vinyl Acetate | 100 - 250 ppm | GAS143 | Vinyl Acetate | 1 |
| | 10 - 100 ppm | GAS143 | Vinyl Acetate | 2 |
| | 5 - 10 ppm | GAS143 | Vinyl Acetate | 4 |
| | 0.06 - 0.9%/vol. | GAS141 | Ethyl Acetate | 1 |
| Vinylidene Chloride | 14 - 40.6 ppm | GAS130L | Vinylidene Chloride | 1/2 |
| | 1 - 14 mg/l | GAS130L | Vinylidene Chloride | 1 |
| | 0.4 - 1 ppm | GAS130L | Vinylidene Chloride | 2 |
| Vinyltrimethoxysilane | 6.5 - 25 ppm | GAS113L | Isopropyl Alcohol | 2 |
| Water Vapour | 18 - 32 mg/l | GAS6 | Water vapour | 1/2 |
| | 1 - 18 mg/l | GAS6 | Water vapour | 1 |
| | 0.5 - 1 mg/l | GAS6 | Water vapour | 2 |
| | 1 - 2 mg/l | GAS6L | Water vapour | 1/2 |
| | 0.05 - 1 mg/l | GAS6L | Water vapour | 1 |
| | 40 - 100 lb/mm CF | GAS6LP | Water vapour pipeline dew point | 1/2 |
| | 3 - 40 lb/mm CF | GAS6LP | Water vapour pipeline dew point | 1 |
| 2 - 10 lb/mm CF | GAS6LLP | Water vapour pipeline dew point | 2 | |
| Xylene | 250 - 625 ppm | GAS123 | Xylene | 1/2 |
| | 10 - 250 ppm | GAS123 | Xylene | 1 |
| | 5 - 10 ppm | GAS123 | Xylene | 2 |
| | 100 - 200 ppm | GAS123L | Xylene | 1 |
| | 2 - 100 ppm | GAS123L | Xylene | 2 |
| | 0.1 - 1.2 %/vol. | GAS100A | LPG | 2 |
| | 100 - 200 ppm | GAS122L | Toluene | 1 |
| | 4 - 100 ppm | GAS122L | Toluene | 2 |



Réf. TUV100S

Gas sampling pump
(with carrying case)

► Dosimeter tubes

TWA (Time Weighted Average) measuring system



Product description

The TWA measurement system (Time-Weighted Average), otherwise known as colorimetric dosimetric measurement, consists of measuring the time-weighted average of ambient gas concentrations to monitor the OEL (occupational exposure limit).

The **dosimeter tube** can be placed in its holder and hooked up near the airways (shirt collar for example) thus allowing exposure monitoring of a person during the working day.

With this system, daily gas concentrations can easily be obtained and the work environment can be evaluated against recommended exposure limits..

Specifications :

- Compact, lightweight and discreet
- Simple and direct measurements without the use of special analytical equipment or complex operating procedures.

Examples of dosimeter tubes use



Cold storages, food manufacturing, fertilizers, the glue and gelatin industries.

Ammonia NH₃

Warehouses with motorized trolleys (gas or LPG), parking garages (presence of CO also).

Nitrogen dioxide NO₂

Chlorine Cl₂ Pools and some household products.

Specific coals, non-desulphurized oils and natural gas combustion.

Carbon dioxide CO₂

Mainly indoor pollution, where we spend most of our time (housing, workplaces, schools, leisure areas, shops ...).

Cosmetics, fungicides, insecticides, disinfectants, paints, printing inks, glues, waterproofing agents, household products, detergents, wood treatment, insulation materials in the building industry, etc.

Formaldehyde HCHO

Distilleries, and some agro-food processes, alcoholic beverages or methylated spirits.

Wastewater treatment plants, biogas, organic matter anaerobic fermentation (green waste like algae for example).

Hydrogen sulfide H₂S

Wall boilers, fireplaces, as a rule all fossil fuel (gasoline, gas, coal, wood, etc ...) combustion devices.

Toluene C₆H₅CH₃

Polluants from petroleum origins present in solvents, stains and glues.

| Gas - vapour | Measuring range | Tube code + Tube name | |
|---|--|------------------------------|---|
| | | Code | Gas |
| Acetaldehyde | 0.1 to 20 ppm 4 to 1200 ppm 1.2 to 360 ppm | GAS91D GAS151D GAS152D | Formaldehyde Acetone MEK Butanone |
| Acetic acid | 0.5 to 100 ppm | GAS81D | Acetic acid |
| Acetic anhydride | 0.3 to 60 ppm | GAS81D | Acetic acid |
| Acetone | 5 to 1500 ppm 1.4 to 420 ppm | GAS151D GAS152D | Acetone MEK Butanone |
| Ammonia | 2.5 to 1000 ppm 0.1 to 10 ppm | GAS3D GAS3DL | Ammonia Ammonia |
| Benzene | 2.4 to 600 ppm | GAS122DL | Toluene |
| Butadiene (1,3-Butadiene) | 1.3 to 200 ppm | GAS174D | 1,3-Butadiene |
| Carbon dioxide | 0.02 to 12% | GAS2D | Carbon dioxide |
| Carbon monoxide | 1.04 to 2000 ppm 0.4 to 400 ppm | GAS1D GAS1DL | Carbon monoxide Carbon monoxide |
| Chlorine | 0.08 to 100 ppm 2.4 to 240 ppm | GAS8D GAS132D | Chlorine Trichloroethylene |
| Cumene | 3.4 to 850 ppm | GAS122DL | Toluene |
| Dichloroethylene (1,2-DCE) | 3.9 to 600 ppm 6 to 600 ppm | GAS174D GAS132D | 1,3-Butadiene Trichloroethylene |
| Dimethylamine | 1.9 to 750 ppm | GAS3D | Ammonia |
| Dimethylethylamine (N,N-Dimethylethylamine) | 4 to 1600 ppm | GAS3D | Ammonia |
| Ethanol | 100 to 25000 ppm | GAS112D | Ethanol |
| Ethyl benzene | 2.8 to 700 ppm | GAS122DL | Toluene |
| Ethylene | 1.5 to 240 ppm | GAS174D | 1,3-Butadiene |
| Formaldehyde | 0.1 to 20 ppm | GAS91D | Formaldehyde |
| Formic acid | 0.55 to 110 ppm | GAS81D | Acetic acid |
| Furfural | 0.3 to 60 ppm | GAS91D | Formaldehyde |
| Hydrazine | 1.6 to 650 ppm | GAS3D | Ammonia |
| Hydrogen chloride | 1 to 100 ppm 1.8 to 180 ppm 0.4 to 40 ppm | GAS14D GAS132D GAS17D | Hydrogen chloride Trichloroethylene Hydrogen fluoride |
| Hydrogen cyanide | 1 to 200 ppm | GAS12D | Hydrogen cyanide |
| Hydrogen fluoride | 2.5 to 250 ppm 1 to 100 ppm | GAS14D GAS17D | Hydrogen chloride Hydrogen fluoride |
| Hydrogen peroxide | 0.5 to 40 ppm | GAS32D | Hydrogen peroxide |
| Hydrogen sulfide | 0.2 to 200 ppm | GAS4D | Hydrogen sulfide |
| Isoprene | 2.5 to 400 ppm | GAS174D | 1,3-Butadiene |
| MEK Butanone | 2 to 600 ppm 0.125 to 25 ppm 6.5 to 1950 ppm | GAS152D GAS91D GAS151D | MEK Butanone Formaldehyde Acetone |
| Methyl Isobutyl Ketone (MIBK) | 11.5 to 3450 ppm 4 to 1200 ppm | GAS151D GAS152D | Acetone MEK Butanone |
| Methylamine | 0.19 to 19 ppm | GAS3DL | Ammonia |
| Nitric acid | 0.8 to 80 ppm 0.32 to 32 ppm | GAS14D GAS17D | Hydrogen chloride Hydrogen fluoride |
| Nitrogen dioxide | 0.1 to 30 ppm 0.01 to 3 ppm | GAS9D GAS9DL | Nitrogen dioxide Nitrogen dioxide |
| Styrene | 26 to 6500 ppm | GAS122DL | Toluene |
| Sulphur dioxide | 10 to 600 ppm 0.2 to 100 ppm | GAS5DH GAS5D | Sulphur dioxide Sulphur dioxide |
| Tetrachloroethylene | 3 to 150 ppm 1.5 to 150 ppm | GAS133D GAS132D | Tetrachloroethylene Trichloroethylene |
| Toluene | 2 to 500 ppm | GAS122DL | Toluene |
| Trichloroethylene | 3 to 300 ppm | GAS132D | Trichloroethylene |
| Triethylamine | 5.3 to 2100 ppm | GAS3D | Ammonia |
| Trimethylamine | 0.23 to 23 ppm | GAS3DL | Ammonia |
| Vinyl chloride | 1.5 to 240 ppm | GAS174D | 1,3-Butadiene |
| Xylene | 3.4 to 850 ppm | GAS122DL | Toluene |

▶ GSP-300

Gas sampling pump



Technical specification

- Large LCD display for the reading and the pump setup
- Flow volume of 50-250mL/min can be set for the inserted tube
- Automatic correction of the flow (and the volume) at 20°C
- Automatic start enables sampling to begin after a preset time
- Automatic stop at preset time/volume
- Compact and lightweight ; 10 hours continuous operation on 2 AA batteries
- Compatible with activated carbon and other solid-collecting detector tubes
- Dimensions : 80 x 40 x 140 mm
- Weight : 300 grammes avec piles AA

▶ Optional accessories

Protective cover for detector tube [GSP300-14]

Enables the detector tube to be securely set up for measuring and helps to avoid possible injury to the user as well as damage to the detector tube itself. Available upon request.

Carrying case [GSP300-15]

Comes with convenient carrying belt.

Product description

The **GSP-300** automatic gas sampling pump is a very accurate latest generation sampling pump specially designed for continuous measures with colorimetric detector tubes.

Particularly adapted for the indoor air quality control (benzene, formaldehyde, toluene, xylene ...) this very accurate system which requires no calibration or special training is an ideal and economic solution for the monitoring and the measure of the short term exposure limits and the time-weighted average limits of the gases in the atmosphere.

The LCD display can show real time flow rate, integrated flow rate and elapsed sampling time.

The automatic stop feature can be set to finish at either a predetermined amount of time or after a set amount of volume.

The enclosure is both splash and dustproof, and the pump can operate for up to 10 hours from 2 AA alkaline batteries.

Also, for a greater accuracy of the measure, the automatic sampling pump measures and corrects at 20°C (68°F) the temperature of the flow rate through the tube



Combined with the GSP-300 automatic sampling pump, the continuous detection tubes provide a simple and easy analysis of the indoor air quality for numerous toxic gases



Gas detected



| Gas or vapour | Chemical formula | Measuring range | Codification |
|---------------------|--|---|---------------------------------|
| Acetone | CH ₃ COCH ₃ | 25-800 ppm | GSP151TP |
| Benzene | C ₆ H ₆ | 250-3000 µg/m ³ 5-14.5 ppm 0.1-5 ppm | GSP121P GSP121TP |
| Chlorine | Cl ₂ | 0.05-0.6 ppm | GSP8TP |
| Dichlorobenzene | C ₆ H ₄ Cl ₂ | 100-3000 µg/m ³ | GSP127P |
| Ethyl benzene | C ₆ H ₅ C ₂ H ₅ | 110-2750 µg/m ³ | GSP122P |
| Ethyl Oxide | C ₂ H ₄ O | 1-50 ppm 0.1-5 ppm 0.02-1.44 ppm | GSP163TPM GSP163TP GSP91P |
| Formaldehyde | HCHO | 0.01-0.80 ppm 0.01-1.75 ppm | GSP91PL GSP91TP |
| Hexane | CH ₃ (CH ₂) ₄ CH ₃ | 2-80 ppm | GSP102TP |
| Hydrogen cyanide | HCN | 0.3-9.0 ppm 0.3-4.5 ppm | GSP12 TP |
| Hydrogen fluoride | HF | 3-9.0 0.05-3 ppm | GSP17TP |
| Hydrogen sulphide | H ₂ S | 1.6-2.88 ppm 0.1-1.6 ppm | GSP4TP |
| Isopropyl alcohol | CH ₃ CH(OH)CH ₃ CH ₃ CH(OH)CH ₃ | 20-400 ppm 20-200 ppm | GSP113TP |
| Methanol | CH ₃ OH | 20-300 ppm | GSP111TP |
| Methyl ethyl ketone | CH ₃ COC ₂ H ₅ | 20-300 ppm | GSP152TP |
| Tetrachloroethylene | Cl ₂ C : CCl ₂ | 20-720 µg/m ³ 5-80 ppm | GSP133P GSP133TP |
| Toluene | C ₆ H ₅ CH ₃ | 100-7000 µg/m ³ 2.5-84 ppm | GSP122P GSP122TP |
| Trichloroethylene | Cl ₂ C : CHCl | 20-1200 µg/m ³ 1-33 ppm | GSP132P GSP132TP |
| Vinyl chloride | CH ₂ : CHCl | 50-1500 µg/m ³ 3-9.6 ppm 0.2-3 ppm | GSP131P GSP131TP |
| Xylene | C ₆ H ₄ (CH ₃) ₂ | 540-13500 µg/m ³ 2-80 ppm | GSP122P GSP123TP |

► Pyrotec 840

Colorimetric tubes for fluorocarbon gases or halogenated hydrocarbons



Technical specifications

- **Measure** : fast, accurate and easy on the spot
- **Battery life** : 2 continuous hours (Alkaline battery)
- **Warming-up time** : 2 minutes
- **Operating temperature range** : 0-40°C (32-104°F)
- **Dimensions** : 150mm (L) x 68mm (dia)
- **Weight** : 245 grams
- **Power requirement** : 4 pieces size « AA » dry cell batteries
- For use with the GAS100S sampling pump
- For use in safe area (non ATEX)
- CE marked and compliant with the european standrads (EN)

Product description

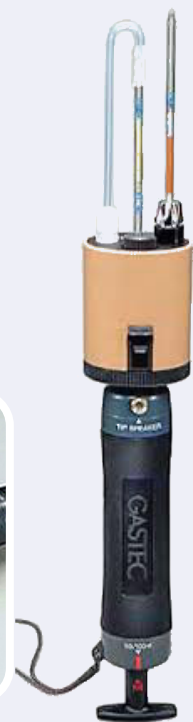
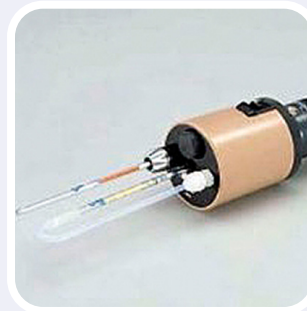
In association with the Gastec GAS100S sampling pump, the **Pyrotec 840** pyrolyzer will convert the fluorochlorocarbon gases (a good number of freons like R11, R12, R22, R112, R113, R114, R123, R124, R141B, R225...) and the halogenated hydrocarbons (Acetonitrile, Halothane, Methyl Chloride, Methylene Chloride, Dimethyl Sulphide) and some anaesthetic gases by thermally cracking them into a gas which can be easily measured.

The sample enters the Pyrotec tube - through the use of the GAS100S sampling pump - where it is thermally decomposed into substances that react chemically with the reagent to give the resultant colour change.

Now, fluorochlorocarbon gases, halogenated hydrocarbons, nitroparaffins, anesthetic gases and nitroparaffins are easy, precisely and cost-effectively measured by simply using a Pyrotec Tube with the Pyrotec Pyrolyzer.

Life of the filament of the **Pyrotec 840** pyrolyzer is about 1,000 times of 20 ppm Sulphuryl Fluoride measurement.

If high concentration of the gas is measured repeatedly, the filament will be short and pilot lamp of the Pyrotec pyrolyzer will be off, indicating the need to replace it.





| Gas | Formula | Mesure Range | Codification |
|---------------------|---|---|--|
| Acetonitrile | CH ₃ CN | 3-180 ppm | 810-52 |
| Dichloromethane | CH ₂ Cl ₂ | 1-54 ppm | 810-51 L |
| Dimethyl Disulphide | (CH ₃) ₂ S ₂ | 0.3-6 ppm | 810-53 |
| Dimethyl sulphide | (CH ₃) ₂ S | 0.15-0.5 ppm 0.5-10 ppm | 810-53 |
| Enflurane | CHClFCH ₂ OCHF ₂ | 100-1230 ppm 25-145 ppm | 810-51 810-51 L |
| Halothane | CF ₃ CHBrCl | 800-6400 ppm 240-960 ppm 3-60 ppm | 810-51 H 810-51 810-51 L |
| Methyl chloride | CH ₃ Cl | 12-480 ppm 1.6-32 ppm 32-86.4 ppm | 810-51 810-51 L 810-51 L |
| Nitro ethane | CH ₃ CH ₂ NO ₂ | 4-240 ppm | 810-52 |
| Nitrogen dioxide | NO ₂ | 0.5-30 ppm | 810-52 |
| Nitromethane | CH ₃ NO ₂ | 5-300 ppm | 810-52 |
| 1-Nitropropane | CH ₃ CH ₂ CH ₂ NO ₂ | 4.2-252 ppm | 810-52 |
| 2-Nitropropane | (CH ₃) ₂ CHNO ₂ | 3.7-222 ppm | 810-52 |
| R11 | CCl ₃ F | 275-2200 ppm 2200-6600 ppm 8-320 ppm 0.8-16 ppm 16-43.2 ppm | 810-51 H 810-51 H 810-51 810-51 L 810-51 L |
| R12 | CCl ₂ F ₂ | 325-2600 ppm 2600-7800 ppm 11-440 ppm 1.8-36 ppm 36-97.2 ppm | 810-51 H 810-51 H 810-51 810-51 L 810-51 L |
| R22 | CHClF ₂ | 0.1-0.8 % 0.8-2.4 % 25-1000 ppm 2.5-50 ppm 50-135 ppm | 810-51 H 810-51 H 810-51 810-51 L 810-51 L |
| R112 | CCl ₂ FCCl ₂ F | 125-1000 ppm 1000-3000 ppm 7-280 ppm 1-20 ppm 20-54 ppm | 810-51 H 810-51 H 810-51 810-51 L 810-51 L |
| R113 | CClF ₂ CCl ₂ F | 250-2000 ppm 2000-6000 ppm 10-400 ppm 1-20 ppm 20-54 ppm | 810-51 H 810-51 H 810-51 810-51 L 810-51 L |
| R113a | CCl ₃ CF ₃ | 200-1600 ppm 1600-4800 ppm 10-400 ppm 0.8-16 ppm 16-43.2 ppm | 810-51 H 810-51 H 810-51 810-51 L 810-51 L |
| R114 | CClF ₂ CClF ₂ | 475-3800 ppm 3800-11400 ppm 20-800 ppm 1.8-36 ppm 36-97.2 ppm | 810-51 H 810-51 H 810-51 810-51 L 810-51 L |
| R123 | CHCl ₂ CF ₃ | 14-560 ppm 560-1600 ppm 1.4-28 ppm | 810-51 810-51 810-51 L |
| R124 | CHClF ₂ CF ₃ | 45-1800 ppm | 810-51 |
| R141b | CH ₃ CCl ₂ F | 10-400 ppm 400-1000 ppm 1.1-22 ppm | 810-51 L 810-51 810-51 L |
| R225 | CHCl ₂ CF ₂ CF ₃ | 20-800 ppm | 810-51 |
| R225Ca + R225Cb 1:1 | CHCl ₂ CF ₂ CF ₃ | 1.4-28 ppm | 810-51 L |
| Sulphuryl fluoride | SO ₂ F ₂ | 1-20 ppm | 810-231 |

AIRTEC Tubes

Control and analysis of the compressed breathing air quality



Product description

When self-contained breathing apparatus or other devices are used for respiratory protection, the quality of the breathing air requires special attention.

Contaminants entering the compressor or contaminants generated by the compressor can be harmful to the worker and the respiratory equipment.

Gastec **Airtec Tube** allows anyone to simply, quickly, and quantitatively measure the quality of their compressed breathing air.

Easy to use, the **Airtec Tube** is an accurate and precise method for detecting CO, CO₂, Water vapour, Nitrogen oxides and Oil mist.

Using **Airtec Tube** direct reading vapour tubes, simply connect the pressure reducer to your high pressure air source, compressor, cylinder, or air line and adjust the flowmeter to the required setting.

| Gas or vapour to be Measured | Chemical Formula | Tube | Measuring range (ppm) | Flow Rate (mL/min) | Sampling Time (min) | Colour Change | |
|------------------------------|--------------------|-------|----------------------------|--------------------|---------------------|---------------|--------------|
| | | | | | | Original | Stain |
| Carbon monoxide | CO | 1A | 5-50 | 100 | 3 | Yellow | Dark Brown |
| Carbon dioxide | CO ₂ | 2A | 250-3000 | 100 | 5 | Orange Yellow | Yellow |
| | | 2Ag | 200-3000 | 100 | 1.5 | Pale Blue | Purple |
| Water vapour | H ₂ O | 6AH | 500-3000 | 300 | 1 | Green | |
| | | 6A | 30-80mg/m ³ | 100 | 10 | Yellow | Purple |
| | | 6Ag | 150-3000 mg/m ³ | 300 | 1 | Green | |
| Nitrogen oxides | NO+NO ₂ | 11A | 0.06-2 | 100 | 2 | White | Bluish Green |
| | | | 0.02-0.7 | 100 | 5 | | |
| Oil mist | | 109AD | 0.1-5.0 mg/m ³ | 1000 | 20 | Pale Red | Pale Blue |
| | | 109A | 0.3-1.5 mg/m ³ | 1000 | 60 | White | Dark Green |

Units available for the fitting of AIRTEC tubes on breathable air cylinders



The standard STD-300 kit including a flow regulator with manometer and the tube holder.

This unit requires a measurement of each gas to detect.

This unit is recommended if you need to detect only one or two gases.



The AIR-QUAL kit, a pelican case with flow regulator, manometer, control of the temperature and of the hygrometry and 5 locations to measure simultaneously 5 gases (delivered with 5 tubes : 2AG, 1A, 109AD, A and 6AG).

By experience, the control and the analysis of the breathable air is faster and more convenient with the AIR-QUAL kit.



▶ Visit our website: www.en.gazdetect.com
Online store: www.en.safetygas.com



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