

A laboratory behind glass

Dräger-Tubes®



Technology for Life

Dräger-Tubes®



Dräger-Tubes® are used all over the world in many industries including oil and gas, petrochemical and chemical.



Dräger-Tubes[®] – a success story.

Dräger-Tubes® are an excellent example of a short-term gas measurement system – and not without good reason. For over eight decades, Dräger, a leading tube manufacturer, has developed its "laboratory behind glass"; and the more than 100 million tubes sold in the last ten years are testimony to the satisfaction of our customers.

Today, Dräger-Tubes® represent one of the classic forms of gas analysis. These versatile tubes make possible countless applications in industry, firefighting, disaster prevention, laboratory work, environmental protection and many other areas which require measurement results to be instantly available so that decisions can be made.

Especially in applications in which individual measurements or low measurement frequencies are sufficient, Dräger-Tubes® have certain advantages compared to electronic measurement equipment. They are comparatively inexpensive to purchase and very easy to use.

Dräger-Tubes® provide results immediately after measurement, so there is no need to send samples into a lab for analysis. There is also no need for calibration by the user – the calibration is shown in the form of a scale printed on the tube. Currently, more than 220 short-term tubes are available for measuring up to 500 gases, and the number is growing year by year. New and more sensitive tubes are developed to meet changing environmental conditions, new legal regulations, falling limit values and special customer requirements. As far as new gases are concerned, the measurement system plays a pioneering role, and Dräger Safety is a trend-setter when it comes to developing new – even customer-specific – tubes.

The functional principle is amazingly simple

The Dräger-Tube, a sealed glass vial, contains on a solid carrier material a chemical reagent which reacts to a particular gas or vapor with a characteristic color change. To cause this reaction, a defined volume of ambient air is drawn through the tube using a Dräger-Tube[®] pump. Even small quantities of gas are sufficient, and the user can easily read and analyze the result using the scale marks printed on the tube.



A best seller with good reason.

Dräger-Tubes®

- deliver a fast and reliable measurement result
- are easy to use, even with safety gloves
- are a great option for spot measurements
- perform their measurements without any power supply
- require no calibration prior to measurement
- offer an impressive level of cost effectiveness

Dräger Voice: for more detailed information

You can find additional information about hazardous substances at

https://www.draeger.com/en-us_us/Substances

Our Dräger VOICE database contains information about more than 1,600 hazardous substances. The relevant Dräger Safety products are referenced for determination of respiratory and gas detection capabilities. Once you have registered – which is quick and free of charge – you can take advantage of this online service at any time, day or night.

Knowledge in compact form

The Dräger-Tubes®/MicroTubes handbook is designed to keep you up-to-date with the latest information and our newest technology. It provides a complete overview of all available tubes and systems, their respective applications, and accessories.

Take advantage of our know-how. The range of services we offer – technical applications-related advice, seminars, measurements and analysis, and production of customerspecific tubes – goes far beyond a mere product portfolio.



Our Dräger-Tube® pump: making measurements a breeze.

Together with the Dräger short-term tubes the Dräger accuro[®] pump completes the system. The Dräger-Tube[®] system is robust, highly accurate, very low-maintenance, ready for use quickly and easy to operate.

Dräger-Tube® pump accuro®

Handy, reliable and easy to operate define the Dräger accuro[®]. Because this one-hand pump works without a power supply, it can be used virtually anywhere including potentially explosive areas.* The sturdy and robust accuro[®] pump can be easily operated using only one hand and is therefore suitable for conducting measurements at places which are difficult to access. The end of each stroke is clearly indicated.





Dräger accuro® Manual pump for use with all Dräger shortterm tubes



Extension hose Remote sampling with Dräger-Tubes®



Prepared for many applications with the right accessories.

Intelligent accessories help you perform reliable measurements, even under many extreme conditions. With our proven solutions, you can be well prepared for many applications.

A perfect fit: The extension tube

For measurements at difficult to reach areas, such as ducts, shafts or tanks, extension hoses of up to 15 meters (49 feet) in length for the Dräger accuro® and up to 30 meters (98 feet) in length for the Dräger X-act® 5000 are available. The extension hose is fitted with a tube holder at the free end of the hose. This means that measurements are possible without flushing of the dead space volume of the hose.

Testing hot flue gases: The hot-air probe

The hot air probe allows you to measure extremely hot gases, e.g. in combustion plants. This probe should be used whenever the temperature range indicated in the instructions for use for the particular Dräger-Tube® is exceeded. The probe, which is connected by a rubber hose to the tube, cools the gas to temperatures below 50 °C (122 °F).

Cutting edge: The Dräger TO 7000

No bigger than a pencil sharpener, the Dräger TO 7000 opens the glass tip so cleanly that no jagged edges remain on the tube. Simply insert the tube, twist it, and you are ready for measurement. With the white measurement scale printed on the Dräger TO 7000, you have a light background for easy readability.

Warmth without power: The hot-pack holder

Freezing temperatures down to -20 °C (-4 °F) are no problem for the "tube warmer", which requires no electrical power supply. The Dräger Hot-Pack Holder allows Dräger-Tubes® to be used even at certain ambient temperatures below the limits stated in the instructions for use. Extremely cost effective (the tube warmers can be used several hundred times) and easy to use, the Dräger Hot-Pack Holder is the ideal companion when working at below freezing temperatures.



Dräger TO 7000 For safe and easy opening of your Dräger-Tubes®





Hot-Pack Holder for Dräger-Tubes® For measurements even at certain below-zero temperatures

Hot Air Probe For hot flue gas measurements



We've done the packing for you: complete Aerotest[®] Systems and Simultaneous Test.

Dräger Safety has developed a range of measurement systems to meet the requirements of your different applications, and put them together as complete sets. The Dräger-Tube® kits deliver fast and efficient results.



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Dräger Aerotest® systems



systems

Measuring device for oil, CO_2 , COand H_2O

Checking air quality with Dräger Aerotest® systems

Every day, fire brigade, healthcare and diving professionals rely on compressed air analysis from Dräger Safety. With more than 100 years of experience in this area, we provide measurement technology at a high level. Our Dräger Aerotest[®] family helps to promote safety during the measurement of compressed gases.

The Dräger Aerotest[®] system is used to check the quality of the air we breathe. Before compressed air can be used as breathing air, it must meet rigorous quality requirements such as those contained in the EN 12 021 standard, the U.S. Compressed Gas Association and the European Pharmacopoeia. Specially calibrated Dräger-Tubes[®], Dräger oil impactor and the Dräger Aerotest[®] can be used to detect typical impurities in compressed breathing air quickly and reliably, e.g. CO, CO₂, humidity and oil. Besides breathing air, oxygen and carbon dioxide can also be analyzed very quickly for purity or for compliance with specific regulations. The Dräger Aerotest[®] Simultaneous Test allows parallel measurement of up to seven different contaminants, with results available in just five minutes. The Dräger Aerotest[®] Simultaneous Test is compact in design and can be connected to standard compressors, compressed air lines and cylinders using standard tools.

A wide selection of Aerotest[®] systems is available for checking compressed gases for purity. We have put the sets together for you in a handy case.



Dräger simultaneous test sets save valuable time in hazardous situations

Before you can take specific action to protect personnel and property, you need specific information about the hazard. Air contamination, e.g. from hazardous waste sites, fires, chemical or transport accidents, poses particular challenges. When it is important for you to track down multiple gas hazards as quickly as possible, the Dräger Simultaneous Test Sets are multi-gas detectors which help provide a fast basis for reliable decision-making – right on-site.

Dräger Simultaneous Test Sets comprise five Dräger-Tubes® arranged in parallel in a rubber sleeve. Via an adapter, the air to be tested is drawn through all the tubes simultaneously using the gas detector pump. The concentration of gases to be measured can be seen from markings on the tubes, which range from "non-hazardous" to "extremely hazardous". We have developed three Simultaneous Test Sets for specialized applications such as fires or accidents involving hazardous goods transports: the Dräger Simultaneous Test Sets I and II for the measurement of inorganic fumes, and set III for the measurement of organic vapors. In addition, there are six other Dräger Simultaneous Test Sets available in conjunction with an adapter and the Dräger-Tube® pump for all kinds of different applications.



Dräger Simultaneous Test Set Parallel measurement of five gases

All Dräger-Tubes® at a Glance



- 1) Tubes must ship motor freight
- 2) Tubes with 6-12 months shelf life
- 3) Tubes with two scales
- (x) Indicates less than 10 tests (5, 8 or 9 tests)

Core (64 %P), (D3 NPA) 100 - 1000 ppm 5 672665 Acetina 40/4 (5) 5 = 80 ppm 30 s 672201 Acetina 40/4 (5) 40 = 800 ppm 1 803381 672201 Acetina 40/4 (5) 40 = 800 ppm 1 803381 672201 Acetina 40/4 (5) 40 = 800 ppm 4 672201 Acetina 40/4 (5) 5 = 50 ppm 1 8033701 Actina 100/b 2.2 - 4 ppm 4 803701 Armine 76st qualitative 5 s 801021 Armine 5/s 60 - 700 ppm 1 803701 Armonia 5/s 6.5 - 100 ppm 1 6.5 801041 Armino 5/s 6.5 - 100 ppm 4 673371 Armino 5/s 0.5 - 100 ppm 4 673371 Armine 5/s 0.5 - 100 ppm 4 673371 Armine 6.5/s 9.6 - 100 ppm 5 8105401 Armine 6.5/s 9.6 - 100 ppm 5 8105201 Brazere 5/s 5 - 50 ppm 8	Dräger-Tubes®	Standard Range of Measurement	Measurement Time (min.)	Order Code
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Aniline 5/a 0.5 - 10 ppm 4 673371 Aniline 5/a 1 - 20 ppm 3 CH20401 Arsine 0.05/a 0.05 - 3 ppm 6 CH25001 Benzene 0.25/a 0.25 - 2 ppm 5 8103591* Benzene 2/a (5) 2 - 60 ppm 8 8101231 Benzene 5/a 5 - 50 ppm 8 673801 Benzene 5/b 5 - 50 ppm 4 810741 n-Butanol 10 - 250 ppm 6 8103861* BTX (Toluene 5/b) 50 - 2000 ppm 1 8103861* Carbon Dioxide 100/a 100 - 5.000 ppm 1 8101641 Carbon Dioxide 0.1%/a 0.5 - 6 Vol% 2.5 CH235013 Carbon Dioxide 0.1%/a 0.5 - 10 Vol% 2.5 CH235013 Carbon Dioxide 5%/a 2 CH20501 CH23501 Carbon Dioxide 5%/a 5 - 60 Vol% 2 CH20501 Carbon Dioxide 5%/a 2 CH2501 CH23501 Carbon Dioxide 5%/a 2 CH2501 CH2501 Carbon	Ammonia 0.5 %/a	0.5 – 10 Vol%	20 s	CH31901
Aniline 5/a 1 - 20 ppm 3 CH20401 Arsine 0.05/a 0.05 - 3 ppm 6 CH25001 Benzene 0.25/a 2 - 10 ppm 1 8103691 ¹ Benzene 5/a 2 - 40 ppm 3 6/T8801 Benzene 5/a 5 - 40 ppm 8 8101231 Benzene 5/a 5 - 40 ppm 8 6/T8801 Benzene 5/a 5 - 50 ppm 8 6/T8801 Benzene 5/a 0 - 250 ppm 6 8101241 n-Butanot 10 - 250 ppm 6 8101741 N-Butanot 100 - 300 oppm 1 8101661 Carbon Dioxide 100/a 100 - 3.000 oppm 4 8101741 Carbon Dioxide 101%a 0.5 - 6 Vol.% 2.5 CH25001 Carbon Dioxide 101%a 0.5 - 6 Vol.% 2.5 CH25001 Carbon Dioxide 105%a 0.5 - 60 Vol.% 2.5 CH25001 Carbon Dioxide 1%a 1 - 20 Vol.% 30 s CH25001 Carbon Dioxide 5%a 2 CH25001 Carbon Sintiphile 5/a Ca	Aniline 0.5/a	0.5 – 10 ppm	4	6733171
Arsine 0.05/a 0.05 - 3 ppm 6 CH25001 Benzene 0.25/a 0.25 - 2 ppm 5 81036911 Benzene 2/a (5) 2 - 60 ppm 8 8101231 Benzene 5/a 5 - 40 ppm 3 6/18801 Benzene 5/b 5 - 50 ppm 8 6/28071 Benzene 5/a 5 - 50 ppm 8 6/28071 Benzene 5/a 15 - 420 ppm 4 8101231 Benzene 15/a 15 - 420 ppm 6 78801 Benzene 15/a 10 - 250 ppm 6 8103861 ³ STX (Toluene 5/b) 50 - 300 ppm 1 8101661 Carbon Dioxide 100/a 100 - 3,000 ppm 4 8101811 Carbon Dioxide 01%a 0.5 - 6 Vol.% 2.5 CH2501 ^a Carbon Dioxide 5%/a 0.5 - 10 Vol.% 30 s CH25101 Carbon Dioxide 5%/a 0.6 - 10 Vol.% 30 s CH2501 Carbon Dioxide 5%/a 3 - 95 ppm 2 8101991 ^a Carbon Dioxide 5%/a 0.0 - 10 mg/L 1 CH25001	Aniline 5/a	1 – 20 ppm	3	CH20401
Benzene 0.25/a 0.25 - 2 ppm 2 - 10 ppm 5 81036911 Benzene 2/a (5) 2 - 60 ppm 8 8101231 Benzene 5/a 5 - 40 ppm 3 6718801 Benzene 5/a 5 - 50 ppm 8 6728071 Benzene 5/a 15 - 420 ppm 4 8101741 n-Butanol 10 - 250 ppm 6 810386413 D10 - 250 ppm 6 810386413 810386413 Carbon Dioxide 00/a 100 - 3000 ppm 4 810386413 Carbon Dioxide 00/a 0.5 - 6 Vol% 30 s CH25011 Carbon Dioxide 00/a 0.5 - 6 Vol% 30 s CH25011 Carbon Dioxide 0.5 %/a 0.5 - 6 Vol% 30 s CH25011 Carbon Dioxide 10/a 0.5 - 6 Vol% 30 s CH25011 Carbon Dioxide 5 %/A 5 - 60 Vol% 2 CH25011 Carbon Dioxide 5 %/a 5 - 60 Vol% 2 8108912 Carbon Dioxide 5 %/a 5 - 60 Vol% 2 CH25011 Carbon Dioxide 5 %/a 5 - 60 Vol% 2	Arsine 0.05/a	0.05 – 3 ppm	6	CH25001
Benzene 0.25/a 2 - 10 ppm 1 8103291 ³ Benzene 2/a (5) 2 - 60 ppm 8 8101231 Benzene 5/a 5 - 40 ppm 3 6/71801 Benzene 5/b 5 - 50 ppm 8 6/728071 Benzene 15/a 15 - 420 ppm 4 8101231 n-Butanol 10 - 250 ppm 4 8103641 ³ Di 2 - 50 0pp 1 8103641 ³ 8103641 ³ Carbon Dioxide 100/a 50 - 500 ppm 1 8103641 Carbon Dioxide 100/a 0.5 - 500 ppm 4 8103841 ³ Carbon Dioxide 0.1%/a 0.5 - 10 Vol-% 30 s CH3101 Carbon Dioxide 0.5%/a 0.5 - 10 Vol-% 30 s CH32501 ⁴ Carbon Dioxide 5%/A 5 - 60 Vol-% 2 CH2301 Carbon Dioxide 5%/A 5 - 60 Vol-% 2 CH2301 Carbon Dioxide 5%/A 5 - 60 Vol-% 2 CH2301 Carbon Dioxide 5%/A 5 - 60 Vol-% 2 CH2301 Carbon Dioxide 5%/A 5 - 60 ppm 4 6733051 ⁴		0.25 – 2 ppm	5	
Benzene 2/a (5) 2 - 60 ppm 8 8101231 Benzene 5/a 5 - 40 ppm 3 6718801 Benzene 5/b 5 - 50 ppm 8 6728071 Benzene 15/a 15 - 420 ppm 4 8101231 n-Butanol 10 - 250 ppm 6 8103861 ³ DTX (150uene 5/b) 50 - 300 ppm 1 8103861 ³ Carbon Dioxide 100/a 100 - 3,000 ppm 4 8101641 Carbon Dioxide 0.1%/a 0.5 - 6 Vol.% 30 s CH23501 ³ Carbon Dioxide 1.%/a 0.5 - 10 Vol.% 30 s CH23501 ³ Carbon Dioxide 1.%/a 0.5 - 60 Vol.% 30 s CH23501 ³ Carbon Dioxide 5.%/a 0.5 - 60 Vol.% 2 CH23501 ³ Carbon Dioxide 5.%/a 0.5 - 60 Vol.% 2 CH25001 Carbon Dioxide 5.%/a 0.5 - 60 Vol.% 2 CH25001 Carbon Dioxide 5.%/a 0.5 - 60 Vol.% 2 CH25001 Carbon Dioxide 5.% 3.0 s CH25001 Carbon Monoxide 5.% Carbon Monoxide 5.% Carbon Monoxide 5.% C	Benzene 0.25/a	2 – 10 ppm	1	8103691 ³
Benzene 5/a 5 - 40 ppm 3 6718801 Benzene 5/b 5 - 50 ppm 8 6728071 Benzene 5/b 15 - 420 ppm 4 810741 n-Butanol 15 - 420 ppm 6 250 - 2000 ppm 1 n-Butanol 50 - 300 ppm 1 8103861 ³ 8101741 Carbon Dioxide 100/a 50 - 300 ppm 1 8103861 ³ 8101811 Carbon Dioxide 01%/a 0.5 - 6 Vol.% 30 s CH23501 ³ CH23501 ³ Carbon Dioxide 0.5%/a 0.5 - 10 Vol.% 30 s CH23501 ³ CH23501 Carbon Dioxide 5%/a 0.5 - 10 Vol.% 30 s CH23501 CH23501 Carbon Dioxide 5%/a 0.5 - 60 Vol.% 30 s CH23501 CH2501 Carbon Dioxide 5%/a 0.5 - 60 Ppm 2 CH20301 CH2501 Carbon Dioxide 5%/a 0.6 - 60 Vol.% 2 CH2501 CH2501 Carbon Dioxide 5/a 2 CH2501 CH2501 CH2501 Carbon Dioxide 5/a 2.60 ppm 3 6728351 <t< td=""><td>Benzene 2/a (5)</td><td>2 – 60 ppm</td><td>8</td><td>8101231</td></t<>	Benzene 2/a (5)	2 – 60 ppm	8	8101231
Benzene 5/b 5 - 50 ppm 8 6728071 Benzene 15/a 15 - 420 ppm 4 810741 n-Butanol 10 - 250 ppm 6 8103861 ³ BTX (Toluene 5/b) 50 - 300 ppm 1 8103861 ³ BTX (Toluene 5/b) 50 - 300 ppm 1 8103861 ³ Carbon Dioxide 100/a 100 - 3,000 ppm 4 8101811 Carbon Dioxide 0.1%/a 0.5 - 6 Vol.% 30 s CH23501 ³ Carbon Dioxide 0.5%/a 0.5 - 10 Vol.% 30 s CH23501 ³ Carbon Dioxide 5%/A 5 - 60 Vol.% 30 s CH23001 Carbon Dioxide 5%/A 5 - 60 Vol.% 2 CH23001 Carbon Dioxide 5%/A 5 - 60 Vol.% 2 CH2301 Carbon Dioxide 5%/A 5 - 60 Vol.% 2 CH2301 Carbon Dioxide 5%/A 5 - 60 Ppm 2 CH20301 Carbon Dioxide 5/a 5 - 60 ppm 4 6733051 Carbon Monoxide 2/a 2 - 60 ppm 4 6733051 Carbon Monoxide 5/c 5 - 150 ppm 2.5	Benzene 5/a	5 – 40 ppm	3	6718801
Benzene Is/a Is - 420 pm 4 BI01741 n-Butanol 10 - 250 ppm 6 8103861 ³ BTX (Toluene 5/b) 50 - 300 ppm 1 8101661 Carbon Dioxide 100/a 100 - 3,000 ppm 4 810181 Carbon Dioxide 0.1 %/a 0.5 - 6 Vol.% 30 s CH23501 ³ Carbon Dioxide 0.5 %/a 0.5 - 10 Vol.% 30 s CH23501 ³ Carbon Dioxide 1%/a 1 - 20 Vol.% 30 s CH23501 ³ Carbon Dioxide 5%/A 5 - 60 Vol.% 2 CH20301 Carbon Dioxide 5%/A 5 - 60 Vol.% 2 CH23501 ³ Carbon Dioxide 1%/a 1 - 20 Vol.% 30 s CH25101 Carbon Dioxide 5%/A 5 - 60 Vol.% 2 CH20301 Carbon Dioxide 1%/a 1 - 20 Vol.% 30 s CH25101 Carbon Dioxide 1%/a 0.1 - 10 mg/L 1 CH2501 Carbon Monoxide 2/a 2 - 60 ppm 3 67733051 ³ Carbon Monoxide 5/c 5 - 150 ppm 2.5 CH2501 ³ Carbon Monoxide 5/c 5 - 150 p	Benzene 5/b	5 – 50 ppm	8	6728071
ID 10 250 ppm 6 8103861 ³ BTX (Toluene 5/b) 50 300 ppm 1 8101661 Carbon Dioxide 100/a 100 3.000 ppm 4 8101811 Carbon Dioxide 0.1%/a 0.5 -6 Vol.% 300 s CH23501 ³ Carbon Dioxide 0.5%/a 0.5 -10 Vol.% 30 s CH23501 ³ Carbon Dioxide 5%/a 0.5 -10 Vol.% 30 s CH25101 Carbon Dioxide 5%/a 0.5 -60 Vol.% 2 CH20301 Carbon Dioxide 5%/A 5 60 Vol.% 2 CH20301 Carbon Dioxide 5%/A 5 60 Vol.% 2 CH20301 Carbon Dioxide 5%/A 0.1 10 mg/L 1 CH23201 Carbon Disulphide 3/a 3 5 60 Vol.% 2 CH2301 Carbon Disulphide 30/a 0.1 10 mg/L 1 CH23201 Carbon Monoxide 2/a 2 60 ppm 2.5 CH25601 ³ Carbon Monoxide 8/a 8 100 700 ppm	Benzene 15/a	15 – 420 ppm	4	8101741
n-Butanol 100 - 2000 ppm 1 8103861 ³ BTX (Toluene 5/b) 50 - 300 ppm 1 8101661 Carbon Dioxide 100/a 100 - 3,000 ppm 4 8101811 Carbon Dioxide 0.1 %/a 0.5 - 6 Vol.% 30 s CH23501 ³ Carbon Dioxide 0.5 %/a 0.5 - 10 Vol.% 30 s CH23501 Carbon Dioxide 5.%/a 0.5 - 10 Vol.% 30 s CH25101 Carbon Dioxide 5.%/a 0.5 - 10 Vol.% 30 s CH2501 Carbon Dioxide 5.%/a 5 - 60 Vol.% 2 CH20301 Carbon Dioxide 5.%/a 5 - 60 Vol.% 2 CH20301 Carbon Dioxide 5.%/a 5 - 60 Vol.% 2 CH20301 Carbon Dioxide 5.% 5 - 60 Vpm 3 6728351 Carbon Dioxidphide 3/a 0.1 - 10 mg/L 1 CH23201 Carbon Monoxide 2/a 2 - 60 ppm 30 s CH25601 ³ Carbon Monoxide 5/c 8 - 150 ppm 2.5 CH25601 ³ Carbon Monoxide 8/a 8 - 150 ppm 2.5 CH26001 ³ Carbon Monoxide 0.3%/b		10 - 250 ppm	6	
BTX (Toluene 5/b) 50 - 300 ppm 1 Carbon Dioxide 100/a 100 - 3,000 ppm 4 8101811 Carbon Dioxide 0.1 %/a 0.5 - 6 Vol.% 30 s CH235013 Carbon Dioxide 0.5 %/a 0.5 - 10 Vol.% 30 s CH235013 Carbon Dioxide 0.5 %/a 0.5 - 60 Vol.% 30 s CH235013 Carbon Dioxide 1 %/a 1 - 20 Vol.% 30 s CH235013 Carbon Dioxide 5 %/A 5 - 60 Vol.% 2 CH20301 Carbon Dioxide 5 %/A 5 - 60 Vol.% 2 CH20301 Carbon Dioxide 5 %/A 5 - 60 Ppm 3 6728351 Carbon Dioxide 5/a 5 - 60 ppm 3 6728351 Carbon Dioxide 2/a 2 - 60 ppm 30 s CH23201 Carbon Monoxide 2/a 2 - 60 ppm 2.5 CH23001 Carbon Monoxide 8/a 8 - 150 ppm 2.5 CH19701 Carbon Monoxide 8/a 8 - 150 ppm 2.5 CH19701 Carbon Monoxide 0/b 0.0 - 3,000 ppm 4 CH26013 Carbon Monoxide 0/b 0.3 - 7 ppm	n-Butanol	250 – 2000 ppm	1	8103861 ³
Carbon Dioxide 100/a Color 00 ppm A Biolisit Carbon Dioxide 100/a 100 - 3,000 ppm 4 810811 Carbon Dioxide 0.1 %/a 0.5 - 6 Vol% 30 s CH23501 ³ Carbon Dioxide 0.1 %/a 0.5 - 10 Vol% 30 s CH23501 Carbon Dioxide 5.%/a 0.5 - 10 Vol% 30 s CH23010 Carbon Dioxide 5.%/a 5 - 60 Vol% 2 CH20301 Carbon Dioxide 5.%/A 5 - 60 Vol% 2 Bl01891 ² Carbon Dioxide 5/a 5 - 60 Vol% 2 Bl01891 ² Carbon Dioxide 5/a 5 - 60 Vol% 2 Bl01891 ² Carbon Dioxidphide 5/a 5 - 60 ppm 3 6728351 Carbon Dioxide 0.1 / 10 mg/L 1 CH23201 CH23201 Carbon Monoxide 2/a 2 - 60 ppm 2.5 CH25601 ³ Carbon Monoxide 5/c 100 - 700 ppm 3.0 s CH25601 ³ Carbon Monoxide 8/a 8 - 150 ppm 2.5 CH2601 ³ Carbon Monoxide 0.3%/b 0.3 - 7 ppm 3.0 s CH26001 ³	BTX (Toluene 5/b)		1	8101661
Carbon Diduct For(12) Initial For(12) Initial For(12) Initial For(12) Carbon Dioxide 0.1 %/a 0.5 - 6 Vol% 30 s CH23501 ³ Carbon Dioxide 0.5 %/a 0.5 - 10 Vol% 30 s CH31401 Carbon Dioxide 1 %/a 1 - 20 Vol% 30 s CH25101 Carbon Dioxide 5 %/A 5 - 60 Vol% 2 CH20301 Carbon Disulphide 3/a 3 - 95 ppm 2 8101891 ² Carbon Disulphide 3/a 5 - 60 ppm 3 6728351 Carbon Disulphide 3/a 0.1 - 10 mg/L 1 CH25201 Carbon Disulphide 3/a 0.1 - 10 mg/L 1 CH25201 Carbon Disulphide 3/a 0.1 - 10 mg/L 1 CH25201 Carbon Monoxide 2/a 2 - 60 ppm 4 6733051 ³ Carbon Monoxide 8/a 8 - 150 ppm 2.5 CH25601 ³ Carbon Monoxide 8/a 8 - 150 ppm 2.0 CH20601 ³ Carbon Monoxide 10/b 0.3 - 7 ppm 30 s CH20601 ³ Carbon Pretube 0.3 - 7 ppm 30 s CH20601 ³	Carbon Dioxide 100/a	100 – 3 000 ppm	4	8101811
Carbon Dioxide 0.1 %/a CH235013 Carbon Dioxide 0.5 %/a 0.1 - 12 Vol% 2.5 Carbon Dioxide 0.5 %/a 0.1 - 12 Vol% 30 s CH31401 Carbon Dioxide 1%/a 1 - 20 Vol% 30 s CH25101 Carbon Dioxide 5 %/A 5 - 60 Vol% 2 CH20301 Carbon Disulphide 3/a 3 - 95 ppm 2 81018912 Carbon Disulphide 3/a 5 - 60 ppm 3 6728351 Carbon Disulphide 3/a 0.1 - 10 mg/L 1 CH23201 Carbon Disulphide 3/a 0.1 - 10 mg/L 1 CH23201 Carbon Disulphide 3/a 0.1 - 10 mg/L 1 CH23201 Carbon Disulphide 3/a 0.1 - 10 mg/L 1 CH23201 Carbon Monoxide 2/a 2 - 60 ppm 4 67330513 Carbon Monoxide 5/c 100 - 700 ppm 30 s CH256013 Carbon Monoxide 8/a 8 - 150 ppm 20 s CH206015 Carbon Monoxide 10/b 100 - 3.000 ppm 4 CH206015 Carbon Pretube 0.3 - 7 ppm 30 s CH204010 <td></td> <td></td> <td>30 s</td> <td></td>			30 s	
Carbon Dioxide 0.5 %/a O.S 10 Vol% 30 s CH31401 Carbon Dioxide 1 %/a 1 - 20 Vol% 30 s CH25101 Carbon Dioxide 5 %/A 5 - 60 Vol% 2 CH20301 Carbon Disulphide 3/a 3 - 95 ppm 2 8101891² Carbon Disulphide 3/a 5 - 60 ppm 3 6728351 Carbon Disulphide 30/a 0.1 - 10 mg/L 1 CH23201 Carbon Disulphide 30/a 0.1 - 10 mg/L 1 CH23201 Carbon Monoxide 2/a 2 - 60 ppm 4 6733051³ Carbon Monoxide 5/c 100 - 700 ppm 30 s CH25601³ Carbon Monoxide 8/a 8 - 150 ppm 2.5 CH25601³ Carbon Monoxide 0.5%/b 0.3 - 7 ppm 30 s CH25601³ Carbon Monoxide 10/b 100 - 3,000 ppm 20 s CH20601³ Carbon Monoxide 0.3%/b 0.3 - 7 ppm 30 s CH20601³ Carbon Pretube 0.3 - 7 ppm 30 s CH20601³ Carbon Pretube CH20401 CH20401 CH20401 Carbon Tetrachloride 0.1/a<	Carbon Dioxide 0.1 %/a	0.1 - 12 Vol -%	25	CH235013
Carbon Dixade 10, 30, 40 CONC. 70 CONC. 70 CONC. 70 Concent of Chirchine Carbon Dixide 1 %/a 1 - 20 Vol. % 30 s CH25001 Carbon Dixide 5 %/A 2 CH25001 Carbon Dixulphide 3/a 3 - 95 ppm 2 B1018912 Carbon Disulphide 3/a 5 - 60 ppm 3 6728351 Carbon Disulphide 30/a 0.1 - 10 mg/L 1 CH25001 Carbon Monoxide 2/a 2 - 60 ppm 4 67330513 Carbon Monoxide 5/c 100 - 700 ppm 30 s CH256013 Carbon Monoxide 8/a 8 - 150 ppm 2.5 CH206013 Carbon Monoxide 0.3%/b 8 - 150 ppm 20 s CH206013 Carbon Monoxide 0.3%/b 0.3 - 7 ppm 30 s CH206013 Carbon Pretube 0.3 - 7 ppm 30 s CH29012 Carbon Pretube 0.3 - 7 ppm 30 s CH290012 Carbon Pretube CH204014 CH204013 CH204013 Carbon Tetrachloride 0.1/a 0.1 - 5 ppm 2.5 81035501 Carbon Tetrachloride 0.1/a	Carbon Dioxide 0.5 % /a	0.5 - 10 Vol -%	30 s	CH31401
Carbon Dioxide 1x/3 CH 2001 x CH 2001 Carbon Dioxide 5 %/A 5 - 60 Vol% 2 CH 20301 Carbon Disulphide 3/a 3 - 95 ppm 2 8101891² Carbon Disulphide 5/a 5 - 60 ppm 3 6728351 Carbon Disulphide 5/a 0.1 - 10 mg/L 1 CH 20301 Carbon Disulphide 5/a 0.1 - 10 mg/L 1 CH 20301 Carbon Disulphide 5/a 0.1 - 10 mg/L 1 CH 23201 Carbon Monoxide 2/a 2 - 60 ppm 4 6733051³ Carbon Monoxide 5/c 100 - 700 ppm 30 s CH 25601³ Carbon Monoxide 8/a 8 - 150 ppm 2.5 CH 19701 Carbon Monoxide 0.3%/b 8 - 150 ppm 20 s CH 20601³ Carbon Monoxide 0.3%/b 0.3 - 7 ppm 30 s CH 20601³ Carbon Pretube 0.3 - 7 ppm 30 s CH 29012 Carbon Pretube CH 2001 CH 2001 CH 2001 Respiratory CO Test Kit (5) CH 2001 CH 200270 CH 200270 Carbon Tetrachloride 1/a 0.1 - 5 p	Carbon Dioxide 0.5 %/a	1 = 20 Vol -%	30 s	CH25101
Carbon Disulphide 3/a 3 - 95 ppm 2 6 / 12 000 / Carbon Disulphide 3/a 3 - 95 ppm 2 8101891² Carbon Disulphide 5/a 5 - 60 ppm 3 6728351 Carbon Disulphide 30/a 0.1 - 10 mg/L 1 CH23201 Carbon Monoxide 2/a 2 - 60 ppm 4 6733051³ Carbon Monoxide 5/c 100 - 700 ppm 30 s CH25601³ Carbon Monoxide 8/a 8 - 150 ppm 2.5 CH25601³ Carbon Monoxide 10/b 100 - 3,000 ppm 20 s CH20601³ Carbon Monoxide 0.3%/b 0.3 - 7 ppm 30 s CH20601³ Carbon Pretube 0.3 - 7 ppm 30 s CH29901² Carbon Tetrachloride 0.1/a 0.1 - 5 ppm 2.5 8103501 Carbon Tetrachloride 1/a 1 - 15 ppm 10 81021³	Carbon Dioxide 5 %/A	5 - 60 Vol%	2	CH20301
Carbon Disulphide 3/a 3 = 75 ppm 2 010071 Carbon Disulphide 5/a 5 - 60 ppm 3 6728351 Carbon Disulphide 30/a 0.1 - 10 mg/L 1 CH23201 Carbon Monoxide 2/a 2 - 60 ppm 4 67330513 Carbon Monoxide 2/a 100 - 700 ppm 30 s CH256013 Carbon Monoxide 5/c 100 - 700 ppm 2.5 CH256013 Carbon Monoxide 8/a 8 - 150 ppm 2.5 CH256013 Carbon Monoxide 10/b 100 - 3,000 ppm 20 s CH206013 Carbon Monoxide 0.3%/b 0.3 - 7 ppm 30 s CH290012 Carbon Pretube 0.3 - 7 ppm 30 s CH299012 Carbon Tetrachloride 0.1/a 0.1 - 5 ppm 2.5 8103501 Carbon Tetrachloride 0.1/a 0.1 - 5 ppm 2.5 8103501	Carbon Disulphido 3/2	3 - 95 ppm	2	81018912
Carbon Disulphide 30/a 0.1 - 10 mg/L 1 CH23201 Carbon Monoxide 2/a 2 - 60 ppm 4 6733051 ³ Carbon Monoxide 2/a 2 - 60 ppm 4 6733051 ³ Carbon Monoxide 5/c 100 - 700 ppm 30 s CH25601 ³ Carbon Monoxide 8/a 8 - 150 ppm 2.5 CH25601 ³ Carbon Monoxide 10/b 100 - 3,000 ppm 20 s CH20601 ³ Carbon Monoxide 0.3%/b 0.3 - 7 ppm 30 s CH29001 ² Carbon Pretube 0.3 - 7 ppm 30 s CH29001 ² Carbon Tetrachloride 0.1/a 0.1 - 5 ppm 2.5 8103501 Carbon Tetrachloride 1/a 1 - 15 ppm 10 8101021 ³	Carbon Disulphide 5/a	5 = 60 ppm		6728351
Carbon Monoxide 2/a 2 - 60 ppm 2 - 60 ppm 2 - 5 - 300 ppm 4 6733051 ³ Carbon Monoxide 5/c 100 - 700 ppm 5 - 150 ppm 30 s CH25601 ³ Carbon Monoxide 8/a 8 - 150 ppm 2 CH19701 Carbon Monoxide 10/b 100 - 3,000 ppm 10 - 300 ppm 20 s CH20601 ³ Carbon Monoxide 0.3%/b 0.3 - 7 ppm 30 s CH29901 ² Carbon Pretube 0.3 - 7 ppm 30 s CH29901 ² Carbon Tetrachloride 0.1/a 0.1 - 5 ppm 2.5 8103501 Carbon Tetrachloride 1/a 1 - 15 ppm 10 8101021 ³	Carbon Disulphide 30/a	01 = 10 mg/l	1	CH23201
Carbon Monoxide 2/a 2 - 60 ppm 4 67330513 25 - 300 ppm 30 s CH256013 Carbon Monoxide 5/c 100 - 700 ppm 30 s CH256013 Carbon Monoxide 8/a 8 - 150 ppm 2.5 CH19701 Carbon Monoxide 10/b 100 - 3,000 ppm 20 s CH206013 Carbon Monoxide 10/b 100 - 300 ppm 4 CH206013 Carbon Monoxide 0.3%/b 0.3 - 7 ppm 30 s CH206013 Carbon Pretube 0.3 - 7 ppm 30 s CH206013 Respiratory CO Test Kit (5)	Carbon Disolphilde 30/a		1	C1123201
Carbon Monoxide 5/c 100 - 700 ppm 30 s CH256013 Carbon Monoxide 5/c 5 - 150 ppm 2.5 CH256013 Carbon Monoxide 8/a 8 - 150 ppm 2 CH19701 Carbon Monoxide 10/b 100 - 3,000 ppm 20 s CH206013 Carbon Monoxide 0.3%/b 0.3 - 7 ppm 30 s CH206013 Carbon Pretube 0.3 - 7 ppm 30 s CH299012 Carbon Pretube 0.3 - 7 ppm 30 s CH24101 Respiratory CO Test Kit (5) CH200270 CH24101 Carbon Tetrachloride 0.1/a 0.1 - 5 ppm 2.5 8103501 Carbon Tetrachloride 1/a 1 - 15 ppm 10 81010213	Carbon Monoxide 2/a	25 - 300 ppm	4	6733051 ³
Carbon Monoxide 3/2 5 - 150 ppm 2.5 Ch12360 ¹⁴ Carbon Monoxide 8/a 8 - 150 ppm 2 CH19701 Carbon Monoxide 10/b 100 - 3,000 ppm 20 s CH20601 ³ Carbon Monoxide 10/b 0.3 - 7 ppm 30 s CH20601 ³ Carbon Monoxide 0.3%/b 0.3 - 7 ppm 30 s CH20601 ³ Carbon Pretube 0.3 - 7 ppm 30 s CH29901 ² Carbon Tetrachloride 0.1/a 0.1 - 5 ppm 2.5 8103501 Carbon Tetrachloride 1/a 1 - 15 ppm 10 8101021 ³	Carbon Manavida E/a	100 – 700 ppm	30 s	04254013
Carbon Monoxide 8/a 8 - 150 ppm 2 CH19701 Carbon Monoxide 10/b 100 - 3,000 ppm 20 s CH20601 ³ Carbon Monoxide 0.3%/b 0.3 - 7 ppm 30 s CH29901 ² Carbon Pretube 0.3 - 7 ppm 30 s CH29901 ² Respiratory CO Test Kit (5) C CH200270 Carbon Tetrachloride 0.1/a 0.1 - 5 ppm 2.5 8103501 Carbon Tetrachloride 1/a 1 - 15 ppm 10 8101021 ³	Carbon Honoxide 5/C	5 – 150 ppm	2.5	CH2560F
Carbon Monoxide 10/b 100 - 3,000 ppm 10 - 300 ppm 20 s 4 CH20601 ³ Carbon Monoxide 0.3%/b 0.3 - 7 ppm 30 s CH29901 ² Carbon Pretube 30 s CH24101 Respiratory CO Test Kit (5) CH20601 ³ CH20601 ³ Carbon Tetrachloride 0.1/a 0.1 - 5 ppm 2.5 8103501 Carbon Tetrachloride 1/a 1 - 15 ppm 10 8101021 ³	Carbon Monoxide 8/a	8 – 150 ppm	2	CH19701
ID - 300 ppm 4 CH206013 Carbon Monoxide 0.3%/b 0.3 - 7 ppm 30 s CH299012 Carbon Pretube CH20101 CH24101 Respiratory CO Test Kit (5) CH200270 CH200270 Carbon Tetrachloride 0.1/a 0.1 - 5 ppm 2.5 8103501 Carbon Tetrachloride 1/a 1 - 15 ppm 10 81010213	Carbon Manavida 10/h	100 – 3,000 ppm	20 s	0420/013
Carbon Monoxide 0.3%/b 0.3 - 7 ppm 30 s CH2990l ² Carbon Pretube CH24101 CH24101 Respiratory CO Test Kit (5) CH00270 CH00270 Carbon Tetrachloride 0.1/a 0.1 - 5 ppm 2.5 8103501 Carbon Tetrachloride 1/a 1 - 15 ppm 10 8101021 ³	Carbon Monoxide IU/b	10 – 300 ppm	4	CH20801
Carbon Pretube CH24101 Respiratory CO Test Kit (5) CH00270 Carbon Tetrachloride 0.1/a 0.1 - 5 ppm 2.5 8103501 Carbon Tetrachloride 1/a 1 - 15 ppm 10 8101021 ³	Carbon Monoxide 0.3%/b	0.3 – 7 ppm	30 s	CH29901 ²
Respiratory CO Test Kit (5) CH00270 Carbon Tetrachloride 0.1/a 0.1 - 5 ppm 2.5 8103501 Carbon Tetrachloride 1/a 1 - 15 ppm 10 8101021 ³	Carbon Pretube			CH24101
Carbon Tetrachloride 0.1/a 0.1 - 5 ppm 2.5 8103501 Carbon Tetrachloride 1/a 1 - 15 ppm 10 8101021 ³	Respiratory CO Test Kit (5)			CH00270
Carbon Tetrachloride 1/a 1 – 15 ppm 10 8101021 ³	Carbon Tetrachloride 0.1/a	0.1 – 5 ppm	2.5	8103501
	Carbon Tetrachloride 1/a	1 – 15 ppm	10	81010213

Dräger-Tubes®	Standard Range of Measurement	Measurement Time (min.)	Order Code
	(20 °C (68 °F), 1,013 hPa)		
Chlorine 0.2/a	0.2 – 3 ppm 3 – 30 ppm	3 30 s	CH243013
Chlorine 50/a	50 – 500 ppm	20 s	CH20701
Chlorine Dioxide 0.025/a specific	0.025 – 0,1 ppm 0,1 – 1 ppm	7.5 2.5	8103491 ³
Chlorobenzene 5/a (5)	5 – 200 ppm	3	6728761
Chloroform 2/b (5)	2 – 10 ppm 20 - 80 ppm	9 3	6728861 ²
Chloroformates 0.2/b	0.2 – 10 ppm	3	6718601
Chloromethane 10/a	10 – 100 ppm	4	8103911
Chloroprene 5/a	5 – 60 ppm	3	6718901
Chloropicrin 0.1/a	0.1 – 2 ppm	7.5	8103421
Chromic Acid 0.1/a (9)	0.1 – 0.5 mg/m ³	8	6728681
Cyanide 2/a	2 – 15 mg/m³	2	6728791 ²
Cyanogen Chloride 0.25/a	0.25 – 5 ppm	5	CH19801
Cyclohexane 40/a	40 – 200 ppm 300 – 3,000 ppm	75 s 15 s	8103671 ³
Cyclohexylamine 2/a	2 – 30 ppm	4	6728931
Diesel Fuel	25 – 200 mg/m ³	2.5	8103475 ²
Diethyl Ether 100/a	100 – 4,000 ppm	3	6730501
Dimethyl Formamide 10/b	10 – 40 ppm	3	6718501
Dimethyl Sulphate 0.005/c (9)	 mag 20.0 – 200.0	50	6718701
Dimethyl Sulphide 1/a (5)	1 – 15 ppm	15	6728451
Epichlorohydrin 5/b		8	6728111
Ethanol 100/a	100 – 3.000 ppm	1.5	8103761
Ethyl Acetate 200/a	200 – 3 000 ppm	5	CH20201
Ethyl Benzene 30/a	<u>30 – 400 ppm</u>	2	6728381
Ethylene 01/a (5)	02 - 5 ppm	30	8101331
Ethylene 50/a	50 - 2 500 ppm	6	6728051
Ethylene Glycol 10 (5)	10 – 180 mg/m3	7	8101351
Ethylene Oxide 1/a (5)	1 – 15 ppm	8	6728961
Ethylene Oxide 174 (3)	25 = 500 ppm	6	6728241
Eluorine 01/a	01-2 ppm	5	8101491
	0.2 - 2.5 ppm	3	
Formaldehyde 0.2/a	0.5 – 5 ppm	1.5	6733081 ³
Activation Tube for use in conjunction with Formaldehyde 0.2/a tube			8101141
Formaldehyde 2/a	2 – 40 ppm	30 s	8101751
Formic Acid 1/a	1 – 15 ppm	3	6722701
Halogenated Hydrocarbons 100/a (8)	100 – 2,600 ppm	1	8101601 ¹
Hexane 10/a	10 – 200 ppm 300 – 2,500 ppm	5 1	8103681 ³
Hydrazine 0.01/a	0.5 – 6 ppm 0.01 – 0.4 ppm	1 20	8103351 ³
Hydrazine 0.25/a	0.25 – 10 ppm	1	CH318013
Hydrocarbon 2/a	2 = 24 mg/l	5	8103581
Hydrocarbon 01%/c	01-13 Vol -%	2	8103571
Hydrochloric Acid 0.2/a	0.2 – 3 ppm	2	81034813
Hydrochloric Acid 1/2	1 – 10 ppm	40 5	CH29501
	500 – 5,000 ppm	2 30 s	(700)01
Hydrochloric Acid 50/a	50 – 500 ppm	4	6/281813
Hydrochloric Acid /Nitric Acid 1/a – Hydrochloric Acid – Nitric Acid	1 – 10 ppm 1 – 15 ppm	1.5 3	81016813
Hydrocyanic Acid 0.5/a	0.5 – 5 ppm 5 – 50 ppm	10 2	81036013
Hydrogen 0.2 %/a	0.2 – 2.0 Vol%	1	8101511
Hydrogen 0.5 %/a	0.5 - 3.0 Vol%	1	CH30901
Hydrogen Fluoride 0.5/a	0.5 – 15 ppm 10 – 90 ppm	2 25 s	8103251 ³

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Dräger-Tubes®	Standard Range of	Measurement	Order Code
	Measurement (20 °C (68 °F), 1,013 hPa)	Time (min.)	
Hydrogen Fluoride 1.5/b	1.5 – 15 ppm	2	CH30301
Hydrogen Peroxide 0.1/a	0.1 – 3 ppm 1 ppm (single mark)	3	8101041 ³
Hydrogen Sulphide 0.2/a	0.2 – 5 ppm	5	8101461
Hydrogen Sulphide 0.2/b	0.2 – 6 ppm	55 s	8101991
Hydrogen Sulphide 0.5/a	0.5 – 15 ppm	6	6728041 ³
Hydrogen Sulphide 1/c	10 – 200 ppm 1 – 20 ppm	20 s 3	6719001 ³
Hydrogen Sulphide 1/d	10 – 200 ppm 1 – 20 ppm	1 10	81018313
Hydrogen Sulphide 2/a	20 – 200 ppm 2 – 20 ppm	20 s 3.5	6728821 ³
Hydrogen Sulphide 2/b	2 – 60 ppm	30 s	8101961
Hydrogen Sulphide 5/b	5 – 60 ppm	4	CH29801
Hydrogen Sulphide 100/a	100 – 2,000 ppm	30 s	CH29101
Hydrogen Sulphide 0.2 %/A	0.2 – 7 Vol%	2	CH28101
Hydrogen Sulphide 2 %/a	2 – 40 Vol%	1	8101211
Simultan. Tube H2S + SO2 0.2 %/a	0.2 – 7 Vol%	2	CH28201
lodine 0.1/a	1 – 5 ppm 0.1 – 0.6 ppm	1 5	81035213
Mercaptan 0.1/a	0.1 – 25 ppm 3 – 15 ppm	3 40 s	81032813
Mercaptan 0.5/a	0.5 – 5 ppm	5	6728981
Mercaptan 20/a	20 – 100 ppm	2.5	8101871
Mercury Vapor 0.1/b	0.05 – 2 mg/m³	10	CH23101
Methanol 20/a	20 – 250 ppm 200 – 5,000	6 2	8103801 ³
Methyl Acrylate 5/a	5 – 200 ppm	5	6728161
Methyl Bromide 0.1/a	0.1 – 5 ppm 5 – 50 ppm	5 1	3706301 ³
Methylene Chloride 20/a	20 – 200 ppm	7	81035912
Natural Gas Odorization, Tertiary Butylmercaptan	3 – 15 mg/m³ 1 – 10 mg/m³	3 5	8103071
Natural Gas Test (5)	qualitative	40 s	CH20001 ²
Nickel Tetracarbonyl 0.1/a (9)	0.1 – 1 ppm	5	CH19501
Nitric Acid 1/a	5 – 50 ppm 1 – 15 ppm	2 4	6728311 ³
Nitrogen Dioxide 0.1/a	0.1 – 5 ppm 5 – 30 ppm	75 s 30 s	8103631 ³
Nitrogen Dioxide 2/c	5 – 100 ppm 2 – 50 ppm	1 2	67191013
Nitrous Fumes 0.2/a	0.2 – 6 ppm	75 s	8103661
Nitrous Fumes 2/a	2 – 50 ppm 5 – 150 ppm	2 1	CH310013
Nitrous Fumes 20/b	20 – 500 ppm	30 s	3706171
Nitrous Fumes 50/b	50 – 1,000 ppm 2,000 – 4,000 ppm	2 1	8103941 ³
Oil 10/a-P	0.1 – 1 mg/m³	25	6728371
Oil Mist 1/a	1 – 10 mg/m ³	25	6733031
Olefine 0.05%/a	0.06 - 3.2 Vol%	5	CH31201
Organ. Arsenic Compounds and Arsine	0.3 mg/m3 as AsH_	3	CH26303
Organic Basic Nitrogen Compounds	1 mg/m³ threshold value	1.5	CH25903
Oxygen 5 %/C	5 - 23 Vol%	1	8103261
Ozone 0.05/b	0.05 – 0.7 ppm	3	6733181

Dräger-Tubes®	Standard Range of	Measurement	Order Code
	Measurement (20 °C (68 °F), 1,013 hPa)	Time (min.)	
Ozone 10/a	20 – 300 ppm	20 s	CH21001
Pentane 100/a	100 – 1.500 ppm	15 s	6724701
	0.5 – 4 ppm	3	01015513
Perchloroethylene 0.1/a	0.1 – 1 ppm	9	8101551°
Perchloroethylene 2/a	20 – 300 ppm 2 – 40 ppm	30 s 3	8101501 ³
Petroleum Hydrocarbons 10/a	10 – 300 ppm	1	8101691
Petroleum Hydrocarbons 100/a	100 – 2,500 ppm	30 s	6730201
Phenol 1/b	1 – 20 ppm	5	8101641
Phosgene 0.02/a	0.02 – 1 ppm 0.02 – 0.6 ppm	6 12	81015213
Phosgene 0.25/c	0.25 – 5 ppm	1	CH28301
Phosphine 0.01/a	0.1 – 1 ppm 0.01 – 0.3 ppm	2.5 8	81016113
Phosphine 0.1/c	0.5 – 3 ppm 0.1 – 1.0 ppm	l 2.5	81037113
Phosphine 0.1/b in Acetylene	1 – 15 ppm 0.1 – 1 ppm	20 s 4	8103341 ³
Phosphine 1/a	20 – 100 ppm 1 – 20 ppm	2 10	8101801 ³
Phosphine 25/A	200 – 10,000 ppm 25 – 900 ppm	1.5 13	81016213
Phosphine 50/a	50 – 1,000 ppm	2	CH21201
Phosphoric Acid Ester 0.05/a	0.05 ppm	5	6728461
Polytest	qualitative	1.5	CH28401
Pyridine 5/A	5 ppm	20	6728651
Styrene 10/a	10 – 200 ppm	3	6723301
Styrene 10/b	10 – 250 ppm	3	6733141
Styrene 50/a	50 – 400 ppm	2	CH27601
Sulphur Dioxide 0.1/a	0.1 – 3 ppm	20	6727101
Sulphur Dioxide 0.5/a	1 – 25 ppm 0.5 – 5 ppm	3 6	6728491 ³
Sulphur Dioxide 1/a	1 – 25 ppm	3	CH31701
Sulphur Dioxide 20/a	20 – 200 ppm	3	CH24201
Sulphur Dioxide 50/b	400 – 8,000 ppm 50 – 500 ppm	15 s 3	81015313
Sulphuric Acid 1/a (9)	$1 - 5 \text{ mg/m}^3$	100	6728781
Sulfuryl Fluoride 1/a (5)	1 – 5 ppm	3	81034711
Tertiary Butylmercaptan	3 – 15 mg/m ³	3	01070713
Natrual Gas Odorization	1 – 10 mg/m³	5	8103071-
Tetrahydrothiophene 1/b (5)	1 – 10 ppm 4 - 40 mg/m³	15 10	8101341 ³
Thioether	1 mg/m³ threshold value	1.5	CH25803
Toluene 5/b	50 – 300 ppm 5 – 80 ppm	2 10	8101661 ³
Toluene 50/a	50 – 400 ppm	1.5	8101701
Toluene 100/a	100 – 1,800 ppm	1.5	8101731
Toluene Diisocyanate 0.02/A (9)	0.02 – 0.2 ppm	20	6724501
Trichloroethane 50/d (5)	50 – 600 ppm	2	CH21101
Trichloroethylene 2/a	20 – 250 ppm 2 – 50 ppm	1.5 2.5	6728541 ³
Trichloroethylene 50/a	50 – 500 ppm	1.5	8101881
Triethylamine 5/a	5 – 60 ppm	3	6718401
Vinyl Chloride 0.5/b	5 – 30 ppm 0.5 – 5 ppm	30 s 3	81017213
Vinyl Chloride 100/a	100 – 3,000 ppm	4	CH19601
Water Vapor 0.1	1 – 40 mg/L	2	CH23401
Water Vapor 0.1/a	0.1 – 1.0 mg/L	1.5	8101321
Water Vapor 1/b	20 – 40 mg/L 1 – 18 mg/L	20 s 40 s	8101781 ³
Water Vapor 3/a	3 – 60 lbs/MMcf	1.5	8103031
Xylene 10/a	10 – 400 ppm	1	6733161

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Dräger Simultaneous Test Sets



	Standard Range of Measurement (20 °C (68 °F), 1,013 hPa)	Measurement Time (min.)	Order Code
Dräger Simultaneous Test Set I	Inorganic Gases for Sets I and II	40 s	8101735
Dräger Simultaneous Test Set II	Inorganic Gases for Sets I and II	40 s	8101736
Dräger Simultaneous Test Set III	Organic Vapors for Set III	40 s	8101770
Dräger Simultaneous Test Set Indicator Substances	VfdB 10/01	2	8103170
Dräger Clandestine Labtest-Set	Solvents	1	8103310
Simultaneous Test Set Fumigation I	Fumigants	3	8103410
Simultaneous Test Set Fumigation II	Fumigants	4	8103380
Adapter Dräger Simultaneous Test Set, consisting of cutting holder and adapter			6400090
Connector for use with Fumigation II, 8103380			8318110

Dräger Simultaneous Test Sets



Dräger-Tubes®	Standard Range of Measurement (20 °C (68 °F), 1,013 hPa)	Standard Range of Meas. for max. Period of Use(20° C (68 °F), 1,013 hPa)	Order Code
Holder for Dräger-Diffusion-Tubes (pack of 3)			6733014
Ammonia 20/a-D	20 – 1,500 ppm	2.5 – 200 ppm	8101301
Butadiene 10/a-D	10 – 300 ppm	1.3 – 40 ppm	8101161
Nitrogen Dioxide 10/a-D	10 – 200 ppm	1.3 – 25 ppm	8101111

Dräger-Tubes® Pumps and Systems and Accessories for Short-Term Measurement



	Order Code
Dräger-Tube® Pump accuro® with Tube opener Dräger TO 7000	6400000
Soft-Side accuro® Pump Kit consists of: Dräger-Tube® Pump accuro® with Tube Opener, spare parts set for Dräger accuro®, nylon carrying case	8317186
Hard-side accuro® Pump Kit, consists of: Dräger-Tube® Pump accuro® with Tube Opener, spare parts set for Dräger accuro®, rubber caps, rigid carrying case	4056443
Spare parts set Dräger accuro®	6400220

Dräger X-act[®] 5000 Basic Accessories

	Order Code
Power packs	
Rechargeable battery NiMH, T4	4523520
Charging accessories	
Wall-Wart Charger 100 – 240 VAC (worldwide)	4523545
Car charger 12 / 24 V	4523511
Accessories	
SO ₃ Filter replacement	8103525
Shoulder strap	4523565
Resistant tube (Dosage)	6527562
Hoses	
Extension hose, Dräger accuro® & Dräger X-act® 5000, 1 m, incl. adapter for Simultaneous Test Set	6400561
Extension hose, Dräger accuro® & Dräger X-act® 5000, 3 m, incl. adapter for tubes, adapter for hose in a carrying box	6400077
Extension hose, Dräger accuro® & Dräger X-act® 5000, 10 m, incl. adapter for tubes, adapter for hose	6400078
Extension hose, Dräger accuro® & Dräger X-act® 5000, 15 m, incl. adapter for tubes, adapter for hose	6400079
Extension hose, Dräger X-act® 5000, 30 m, incl. adapter for tubes, adapter for hose	6401175
Accessories	
Tube opener Dräger TO 7000	6401200
Tube hot pack holder for usage up to 20 °C, incl. adapter and 2 hot packs	8316130
Replacement hot packs (2 pieces)	8316139
Hot air probe for analyzing emissions of combusting plants	CH00213
Bar Probe 400 for examination of fumigants in containers	8317188

Dräger Aerotest



	Order Code
Dräger Aerotest® Simultan HP, complete incl. Dräger-Tubes®	6525990
Dräger Aerotest® Alpha, complete incl. Dräger-Tubes®	6527150
Dräger MultiTest med. Int., complete incl. Dräger-Tubes®	6520260
Dräger SimultanTest CO ₂ , complete incl. Dräger-Tubes®	6526170

Dräger-Tubes® for Application with Dräger Aerotest®

	Standard Range of Measurement (20 °C (68 °F), 1,013 hPa)	Order Code
Ammonia 2/a for use in CO_2	0.6 – 9 ppm	6733231
Impactor for measurement of oil mist in compressed air	0.1 – 1.0 mg/m3	8103560
Adapter for Dräger Oil Impactor		8103557
Carbon dioxide 100/a-P	100 – 3,000 ppm	6728521
Carbon monoxide 5/a-P	5 – 150 ppm	6728511
Nitrous Fumes 0.2/a for use in MultiTest med. Int. / Aerotest® $\rm CO_2$	0.2 – 6 ppm 5 – 30 ppm	8103661
Oil 10/a-P	0.1 – 1 mg/m ³	6728371
Phosphine 0.1/c for use in Aerotest [®] CO ₂	0.1 – 4 ppm	8103711
Sulphur Dioxide 0.5/a for use in MultiTest med. Int.	1 – 25 ppm 0.25 – 1 ppm	6728491
Sulphur Dioxide 1/a for use in MultiTest med. Int./ Aerotest* $\mathrm{CO}_{_2}$	0.5 – 2 ppm	CH31701
Hydrogen Sulphide 0.2/a for use in Aerotest® CO ₂	0.04 – 1 ppm	8101461
Hydrogen Sulphide 1/d for use in MultiTest med. Int.	1 – 20 ppm	8101831
Water Vapor 5/a-P	5 – 200 mg/m ³	6728531
Water Vapor 20/a-P	20 – 250 mg H ₂ O/m ³ 35 – 500 mg H ₂ O/m ³ 150 – 1500 mg H ₂ O/m ³	8103061

 $\rm H_{2}O$ 20/a-P is supplied in the complete kits

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