

Draeger Tubes and Accuro® Pump



What is the Draeger-Tube® System?

Draeger-Tubes® are glass vials filled w/ a chemical reagent that reacts to a specific chemical or family of chemicals. A calibrated 100 ml sample of air is drawn through the tube w/ the Draeger accuro® bellows pump. If the targeted chemical(s) is present the reagent in the tube changes color and the length of the color change typically indicates the measured concentration. The Draeger-Tube® System is the world's most popular form of gas detection.

Accurate

Not all detector tubes are created equal! Draeger-Tubes® w/ the accuro pump deliver the most accurate results. Many Draeger tubes offer a +/- 10% standard deviation on the results. This is a result of the 60+ years of manufacturing colorimetric tubes and the consistent volume delivered by the bellows pump design. Quality assurance is accomplished by individually calibrating each batch of Draeger-Tubes®. Then every batch is tested at regular intervals, throughout the two-year shelf life, to guarantee accuracy over the entire life of the tubes.

Easy to Read

See the difference for yourself! The wider diameter of the Draeger-Tubes® makes it easier to read. Well-spaced graduation marks enable distinct and decisive measurement results. Color changes to the reagents are well defined over the entire length of the stain. Many tubes offer a dual calibrated scale so that you can interpret the results without using multiplication factors.

Fast

One stroke tubes are not always faster! Though many Draeger-Tubes® require more than one stroke, they often provide measurement results in less time. Not only do you get the benefit of a quicker analysis; the larger sample volume provides better statistical accuracy.

Flexible

Draeger-Tubes® simply deliver more! More gases and more measuring ranges than any other manufacturer. Draeger offers over 200 tubes for accurately measuring over 500 different gases. You can measure ambient air for health and safety levels, optional equipment allows you to measure stack gases, motor vehicle exhaust components, pressurized gas line samples, compressed air contaminants, and solvents in water samples. Other specialized tubes measure over a period of hours or a complete work shift to indicate daily exposure levels.

Specific

Reagents used in Draeger-Tubes® are chosen to provide not only the most accurate, but also most specific results possible. Our use of prelayers on many tubes (like benzene) remove other potential interfering gases (e.g. Aromatic hydrocarbons) so you measure only the targeted chemical, getting only the results you want. This design enables you to measure specific gases in a complex ambient background found in the measurement area.

Maintenance Free

Draeger has made gas detection easy. Unlike a piston pump, the accuro pump requires no lubrication. The accuro® is constructed of non-metallic, corrosion resistant materials. It can't be bent by rough treatment and it withstands harsh chemical environments. Draeger-Tubes® are pre-calibrated for two years. The only requisite on Draeger-Tubes® is that they are stored out of direct sunlight and at a temperature of less than 25°C (77°F). Any temperature-controlled office meets these conditions.



Simultaneous Test Set
Test Set I (inorganic) – 8101735
Test Set II (inorganic) – 8101736
Test Set III (organic) - 8101770





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Draeger Tubes and Accuro® Pump Cont.

Description	Measuring Range	Part No	Description	Measuring Range	Part No
Acetaldehyde 100/a	100-1000 ppm	67-26-665	Chlorine 0.3/b	0.3-10 ppm	67-28-411
Acetic Acid 5/a	5-80 ppm	67-22-101	Chlorine 50/a	50-500 ppm	CH-20701
Acetone 100/b	100-12000 ppm	CH-22901	Chlorobenzene 5/a (5)	5-200 ppm	67-28-761
Acid Test	Qualitative	81-01-121	Chloroform 2/a (5)	2-10 ppm	67-28-861
Acrylonitrile 0.5/a (5)	0.5-20 ppm	67-28-591	Chloroformates 0.2/b	0.2-10 ppm	67-18-601
Air Current Tube Kit		4054388S	Chloroprene 5/a	5-60 ppm	67-18-901
Air Current Tubes		CH-25301	Chromic Acid 0.1/a (9)	0.1-0.5 mg/m ³	67-28-681
Alcohol 25/a	50-4000 ppm Isopropanal 25- 5000 ppm Methanol	81-01-631	Cyanide 2/a	2-15 mg/m ³	67-28-791
Alcohol 100/a	100-3000 ppm	CH-29701	Cyanogen Chloride 0.25/a	0.25-5 ppm	CH-19801
Amine Test	Qualitative	81-01-061	Cyclohexane 100/a	100-1500 ppm	67-25-201
Ammonia 0.25/a	0.25-3 ppm	81-01-711	Cyclohexylamine 2/a	2-30 ppm	67-28-931
Ammonia 2/a	2-30 ppm	67-33-231	Diethyl Ether 100/a	100-4000 ppm	67-30-501
Ammonia 5/b	2.5-100 ppm	81-01-941	Dimethyl Formamide 10/b	10-40 ppm	67-18-501
Ammonia 5/a	5-700 ppm	CH-20501	Dimethyl Sulfate 0.005/c (9)	0.005-0.05 ppm	67-18-701
Ammonia 0.5%/a	0.05-10 Vol. %	CH-31901	Dimethyl Sulfide 1/a (5)	1-15 ppm	67-28-451
Aniline 0.5/a	0.5-10 ppm	67-33-171	Epichlorohydrin 5/b	5-50 ppm	67-28-111
Aniline 5/a	1-20 ppm	CH-20401	Ethyl Acetate 200/a	200-3000 ppm	CH-20201
Arsenic Trioxide 0.2/a	0.2 mg / m ³	67-28-951	Ethyl Benzene 30/a	30-600 ppm	67-28-381
Arsine 0.05/a	0.05-60 ppm	CH-25001	Ethylene 0.1/a (5)	0.2-5 ppm	81-01-331
Benzene 0.5/a	0.5-10 ppm	67-28-561	Ethylene 50/a	50-2500 ppm	67-28-051
Benzene 0.5/c (5) specific	0.5-10 ppm	81-01-841	Ethylene Glycol 10 (5)	10-180 mg/m ³	81-01-351
Benzene 2/a (5)	2-60 ppm	81-01-231	Ethylene Oxide 1/a (5)	1-15 ppm	67-28-961
Benzene 5/b	5-50 ppm	67-28-071	Ethylene Oxide 25/a	25-500 ppm	67-28-241
Benzene 15/a	15-420 ppm	81-01-741	Ethyl Glycol Acetate 50/a	50-700 ppm	67-26-801
Carbon Dioxide 100/a	100-3000 ppm	81-01-811	Fluorine 0.1/a	0.1-2 ppm	81-01-491
Carbon Dioxide 0.1%/a	0.1-6 Vol. %	CH-23501	Formaldehyde 0.2/a	0.2-5 ppm	67-33-081
Carbon Dioxide 0.5%/a	0.5-10 Vol. %	CH31401	Formaldehyde Activation tube	Extend to 0.04 ppm	81-01-141
Carbon Dioxide 1%/a	1-20 Vol. %	CH-25101	Formaldehyde 2/a	2-40 ppm	81-01-751
Carbon Dioxide 5%/a	5-60 Vol. %	CH-20301	Formic Acid 1/a	1-15 ppm	67-22-701
Carbon Disulfide 3/a	3-95 ppm	81-01-891	Halogenated Hydrocarbons 100/a	100-2800 ppm	81-01-601
Carbon Disulfide 30/a	32-3200 ppm	CH-23201	Hexane 100/a	50-3000 ppm	67-28-391
Carbon Monoxide 2/a	2-300 ppm	67-33-051	Hydrazine 0.2/a	0.2-10 ppm	67-33-121
Carbon Monoxide 5/c	5-700 ppm	CH-25601	Hydrazine 0.25/a	0.1-10 ppm	CH-31801
Carbon Monoxide 8/a	8-150 ppm	CH-19701	Hydrocarbons 0.1%/b	0.1-1.3 Vol. %	CH-26101
Carbon Monoxide 10/b	10-3000 ppm	CH-20601	Hydrocarbons 2	3-23 mg/l	CH25401
Carbon Monoxide 0.3%/b	0.3-7 Vol. %	CH-29901	Hydrochloric Acid 1/a	1-10 ppm	CH-29501
Carbon Monoxide 200/a + Carbon Dioxide 2%/a	200-2500 ppm CO 2-12 Vol. % CO ₂	67-18-301	Hydrochloric Acid 50/a	50-5000 ppm	67-28-181
Carbon Pretubes		CH-24101	Hydrochloric Acid / Nitric Acid 1/a	1-10 ppm (HCL) 1-15 ppm (HNO ₃)	81-01-681
Carbon Tetrachloride 0.2/b	0.2-70 ppm	81-01-791	Hydrocyanic Acid 2/a	2-150 ppm	CH-25701
Carbon Tetrachloride 1/a (5)	1-15 ppm	81-01-021	Hydrogen 0.2%/a	0.2-2 Vol. %	81-01-511
Carbon Tetrachloride 5/c	5-50 ppm	CH-27401	Hydrogen Fluoride 1.5/b	1.5-15 ppm	CH-30301
Chlorine 0.2/a	0.2-30 ppm	CH-24301	Hydrogen Peroxide 0.1/a	0.1-3 ppm	81-01-041



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Hydrogen Sulfide 0.2/a	0.2-5 ppm	81-01-461	Perchloroethylene 50/A	50-10000 ppm	81-01-851
Hydrogen Sulfide 0.2/b	-.2-6 ppm	81-01-991	Petroleum Hydrocarbons 10/a	10-300 ppm (n-Octane)	81-01-691
Hydrogen Sulfide 0.5/a	0.5-15 ppm	67-28-041	Petroleum Hydrocarbons 100/a	100-2500 ppm (n-Octane)	67-30-201
Hydrogen Sulfide 1/d	1-200 ppm	81-01-831	Phenol 1/b	1-20 ppm	81-01-641
Hydrogen Sulfide 2/a	2-200 ppm	67-28-821	Phosgene 0.02/a	0.01-1 ppm	81-01-521
Hydrogen Sulfide 2/b	1-60 ppm	81-01-961	Phosgene 0.25/c	0.25-15 ppm	CH-28301
Hydrogen Sulfide 5/b	5-600 ppm	CH-29801	Phosphine 0.01/a	0.01-1 ppm	81-01-611
Hydrogen Sulfide 100/a	100-2000 ppm	CH-29101	Phosphine 0.1/a	0.1-4 ppm	CH-31101
Hydrogen Sulfide 0.2%/A	0.2-7 Vol. %	CH-28101	Phosphine 1/a	1-100 ppm	81-01-801
Hydrogen Sulfide 2%/a	2-40 Vol. %	81-01-211	Phosphine 25/a	25-10000 ppm	81-01-621
Hydrogen Sulfide + Sulfur Dioxide 0.2%/A	0.02-7 Vol. %	CH-28201	Phosphine 50/a	15-1000 ppm	CH-21201
Mercaptan 0.5/a	0.5-5 ppm	67-28-981	Phosphoric Acid Esters 0.05/a (Dimethyldichlorovinylphosphate)	0.05 ppm	67-28-461
Mercaptan 20/a	20-100 ppm	81-01-871	Polytest	Qualitative	CH-28401
Mercury Vapor 0.1/b	0.05-2 mg/m ³	CH-23101	Pyridine 5/A	5 ppm	67-28-651
Methyl Acrylate 5/a	5-200 ppm	67-28-161	Styrene 10/a	10-200 ppm	67-23-301
Methyl Bromide 0.5/a	0.5-30 ppm	81-01-671	Styrene 10/b	10-250 ppm	67-33-141
Methyl Bromide 5/b	5-50 ppm	CH-27301	Styrene 50/a	50-400 ppm	CH-27601
Methylene Chloride 100/a	100-2000 ppm	67-24-601	Sulfur Dioxide 0.1/a	0.1-3 ppm	67-27-101
Natural Gas Test (Methane) (5)	Qualitative	CH-20001	Sulfur Dioxide 0.5/a	0.5-25 ppm	67-28-491
Nickel 0.25/A	0.25-1.0 mg/m ³	67-28-871	Sulfur Dioxide 1/a	1-25 ppm	CH-31701
Nickel Tetracarbonyl 0.1/a (9)	0.1-1 ppm	CH-19501	Sulfur Dioxide 20/a	20-2000 ppm	CH-24201
Nitric Acid 1/a	1-50 ppm	67-28-311	Sulfur Dioxide 50/b	50-8000 ppm	81-01-531
Nitrogen Dioxide 0.5/c	0.5-25 ppm	CH-30001	Sulfuric Acid 1/a (9)	1-5 mg/m ³	67-28-781
Nitrogen Dioxide 2/c	2-100 ppm	67-19-101	Tetrahydrothiophene 1/b (5)	1-10 ppm	81-01-341
Nitroglycol 0.25/a	0.25 ppm	67-18-201	Thioether	1 mg/m ³	CH-25803
Nitrous Fumes 0.5/a	0.5-10 ppm	CH-29401	Toluene 5/b	5-300 ppm	81-01-661
Nitrous Fumes 2/a	2-100 ppm	CH-31001	Toluene 50a	50-400 ppm	81-01-701
Nitrous Fumes 20/a	20-500 ppm	67-24-001	Toluene 100/a	100-1800 ppm	81-01-731
Nitrous Fumes 50/a	50-2000 ppm	81-01-921	Toluene Diisocyanate 0.02/A (9)	0.02-0.2 ppm	67-24-501
Nitrous Fumes 100/c	100-5000 ppm	CH-27701	o-Toluidine 1/a	1-30 ppm	67-28-991
Oil Mist 1/a	1-10 mg/m ³	67-33-031	Trichloroethane 50/d (5)	50-600 ppm	CH-21101
Olefins 0.05%/a	0.06-3.2 Vol. % Propylene 0.04-2.4 Vol. % Butylene	CH-31201	Trichloroethylene 2/a	2-250 ppm	67-28-541
Organic Arsenic Compounds and Arsine	3 mg org. Ars./m ³	CH-26303	Trichloroethylene 10/a	50-2000 ppm	CH-24401
Organic Basic Nitrogen Compounds	1 mg/m ³	CH-25903	Triethylamine 5/a	5-60 ppm	67-18-401
Oxygen 5%/B (8)	5-23 Vol. %	67-28-081	Vinyl Chloride 0.5/b	0.5-30 ppm	81-01-721
Ozone 0.05/b	0.05-1.4 ppm	67-33-181	Vinyl Chloride 100/a	100-3000 ppm	CH-19601
Ozone 10/a	10-300 ppm	CH-21001	Water Vapor 0.1/a	0.05-1 mg/L	81-01-321
Pentane 100/a	100-1500 ppm	67-24-701	Water Vapor 1/a	0.5-18 mg/L	81-01-081
Perchloroethylene 0.1/a	0.1-4 ppm	81-01-551	Water Vapor 1/b	1-40 mg/L	81-01-781
Perchloroethylene 2/a	2-300 ppm	81-01-501	Water Vapor 3/a	3-60 lbs/mmcf	81-03-031
Perchloroethylene 10/b	10-500 ppm	CH-30701	Water Vapor 50/a	50-1000 lbs/mmcf	81-03-021
			Xylene 10/a	10-400 ppm	67-33-161