

HazMat Detection -

[To Protect Man and Equipment]

with AUER/MSA Detector Tubes



Detector Tubes Table

	Substance	Tube	MSA P/N	AUER P/N	Range
A	Acetaldehyde	Formaldehyde-0,1	497649	5086-813	5 ... 50 ppm
	Acetic Acid	Acetic Acid-1	804138	5086-821	1 ... 80 ppm
	Acetone	Acetone-100	804141	5086-829	100 ... 1,000 ppm
	Acetone	MEK-50	813334	5086-837	25 ... 3,500 ppm
	Acrylonitrile	Acrylonitrile-0.5	10016376	10016376	0.5 ... 30 ppm
	Alcohols, aliph.	Ethanol-100	804136	5086-818	100 ... 6,000 ppm
	Amines	Triethyl Amine-5	804134	5086-816	5 ... 30 ppm
	Ammonia	NH ₃ -20	800300	5085-814	20 ... 1,000 ppm
	Ammonia	NH ₃ -0,1 %	804406	5085-815	0.1 ... 10 Vol%
B	Ammonia	NH ₃ -2	804405	5085-845	2 ... 600 ppm
	Benzene	C ₆ H ₆ -5	804411	5085-816	5 ... 100 ppm
	Benzene	Aromatic HC	804132	5086-811	5 ... 500 ppm
	Benzene	C ₆ H ₆ -1	807024	5086-835	0.5 ... 25 ppm
	Benzene	C ₆ H ₆ -0.25	655837	5086-852	0.25 ... 5 ppm
	Bromine	Cl ₂ -0,2	803944	5085-801	0.2 ... 3 ppm
	Bromobenzene	Aromatic HC	804132	5086-811	30 ... 720 ppm
	Bromoethane	Trichloroethane-5	487343	5086-834	15 ... 400 ppm
	Bromomethane	Trichloroethane-5	487343	5086-834	20 ... 270 ppm
	Butadiene, 1.3-	Ethylene-50	804428	5086-833	100 ... 1,200 ppm
	Butane, n-	Propane-200	804418	5086-831	200 ... 3,800 ppm
	Butyl Alcohol, iso-	Ethanol-100	804136	5086-818	150 ... 2,900 ppm
	Butyl Alcohol, n-	Ethanol-100	804136	5086-818	100 ... 3,900 ppm
	Butyl Alcohol, s-	Ethanol-100	804136	5086-818	300 ... 5,100 ppm
	Butyl Amine, n-	Triethyl Amine-5	804134	5086-816	2 ... 28 ppm
	Butyl Amine, s-	Triethyl Amine-5	804134	5086-816	2 ... 18 ppm
	Butyl Amine, t-	Triethyl Amine-5	804134	5086-816	2 ... 14 ppm
	Butyl Mercaptan, n-	Ethyl Mercaptan-0,5	804589	5086-815	1.5 ... 15 ppm
	Butyl Mercaptan, t-	Ethyl Mercaptan-0,5	804589	5086-815	0.8 ... 5 ppm
	Butylene, 1-	Ethylene-50	804428	5086-833	100 ... 5,000 ppm
	Butylene, 2-	Ethylene-50	804428	5086-833	200 ... 5,000 ppm
C	Carbon Dioxide	CO ₂ -0,1 %	487333	5085-817	0,1 ... 7 Vol%
	Carbon Dioxide	CO ₂ -1 %	804419	5085-841	1 ... 20 Vol%
	Carbon Dioxide	CO ₂ -HP	488907	5085-848	100 ... 2,000 ppm
	Carbon Dioxide	CO ₂ -100	497606	5086-814	100 ... 3,000 ppm
	Carbon Dioxide	CO ₂ -0,5 %	710311	5086-844	0,5 ... 10 Vol%
	Carbon Disulfide	CS ₂ -2	492514	5085-834	2 ... 300 ppm
	Carbon Monoxide	CO-10 (Vol%)	804421	5085-820	0.001 ... 0.3 Vol%
	Carbon Monoxide	CO-10 (ppm)	487334	5085-821	10 ... 3,000 ppm
	Carbon Monoxide	CO-0,1 %	804423	5085-822	0.1 ... 1.0 Vol%
	Carbon Monoxide	CO-0,5 %	487335	5085-835	0.3 ... 7 Vol%
	Carbon Monoxide	CO-5	803943	5085-836	5 ... 1,000 ppm
	Carbon Monoxide	CO-HP	488906	5085-847	5 ... 70 ppm
	Carbon Monoxide	CO colorimetric	47134	5086-810	10 ... 1,000 ppm
	Carbon Monoxide	CO-3000	815507	5086-839	3,000 ... 70,000 ppm
	Chlorine	Cl ₂ -0,2	803944	5085-801	0.2 ... 30 ppm
	Chlorine	ClO ₂ -0,05	804133	5086-812	1 ... 46 ppm
	Chlorine	Cl ₂ -50	655862	5086-855	50 ... 500 ppm
	Chlorine Dioxide	ClO ₂ -0,05	804133	5086-812	0.05 ... 15 ppm
	Chlorobenzene	Aromatic HC	804132	5086-811	40 ... 610 ppm
	Chlorobromomethane	Trichloroethane-5	487343	5086-834	5 ... 180 ppm
	Chlorobutane, 1-	Trichloroethane-5	487343	5086-834	5 ... 170 ppm
	Chloroethane	Trichloroethane-5	487343	5086-834	50 ... 800 ppm
	Chloropentane, 1-	Trichloroethane-5	487343	5086-834	5 ... 550 ppm
	Chloropropane, 1-	Trichloroethane-5	487343	5086-834	5 ... 220 ppm
	Chloropropane, 2-	Trichloroethane-5	487343	5086-834	8 ... 1,700 ppm
	CO	Indoor Air Set	710918	5086-848	5 ... 1.000 ppm
	CO ₂	Indoor Air Set	710918	5086-848	100 ... 3.000 ppm
	Cycloheptane	Hexane-20	497664	5086-832	80 ... 3,300 ppm
	Cyclohexane	Hexane-20	497664	5086-832	20 ... 3,400 ppm
	Cyclohexyl Amine	Triethyl Amine-5	804134	5086-816	7 ... 38 ppm
	Cyclooctane	Hexane-20	497664	5086-832	20 ... 2,100 ppm
	Cyclopentane	Hexane-20	497664	5086-832	80 ... 2,700 ppm
D	Decane, n-	Hexane-20	497664	5086-832	50 ... 500 ppm
	Dibromoethane, 1.2-	Trichloroethane-5	487343	5086-834	25 ... 700 ppm
	Dibromomethane	Trichloroethane-5	487343	5086-834	9 ... 200 ppm
	Dichloroethane, 1.1-	Trichloroethane-5	487343	5086-834	8 ... 300 ppm
	Dichloroethane, 1.2-	Dichloromethane-50	804416	5085-823	30 ... 720 ppm
	Dichloroethylene, 1.1-	Trichloroethane-5	487343	5086-834	10 ... 600 ppm
	Dichloroethylene, 1.2-	Trichloroethane-5	487343	5086-834	10 ... 500 ppm
	Dichloromethane	Dichloromethane-50	804416	5085-823	50 ... 1,000 ppm

	Substance	Tube	MSA P/N	AUER P/N	Range
	Dichloropropane, 1,2-	Trichloroethane-5	487343	5086-834	5 ... 440 ppm
	Dichloropropane, 1,3-	Trichloroethane-5	487343	5086-834	5 ... 220 ppm
	Diethyl Amine	Triethyl Amine-5	804134	5086-816	3 ... 27 ppm
	Dimethyl Amine	Triethyl Amine-5	804134	5086-816	3 ... 27 ppm
	Dimethylbutane, 2,2-	Hexane-20	497664	5086-832	100 ... 4,900 ppm
E	Ethyl Alcohol	Ethanol-100	804136	5086-818	100 ... 6,000 ppm
	Ethyl Amine	Triethyl Amine-5	804134	5086-816	4 ... 55 ppm
	Ethyl Benzene	Tol-5	803947	5085-828	5 ... 1,800 ppm
	Ethyl Mercaptan	Ethyl Mercaptan-0,5	804589	5086-815	0.5 ... 80 ppm
	Ethylene	Ethylene-50	804428	5086-833	25 ... 5,000 ppm
	Ethylene Diamine	Triethyl Amine-5	804134	5086-816	5 ... 27 ppm
	Extraction Gasolines	BNZ-Test	804409	5085-807	qualitative
F	Formaldehyde	Formaldehyde-0,1	497649	5086-813	0.1 ... 55 ppm
	Formaldehyde	Indoor Air Set	710918	5086-848	0,1 ... 55 ppm
	Formic Acid	Acetic Acid-1	804138	5086-821	2 ... 160 ppm
G	Furfuryl Alcohol	Phenol-1	813778	5086-838	on request
	Gasoline	BNZ-Test	804409	5085-807	Warning Marks
	Gasoline	Gasoline-30	492870	5085-898	30 ... 6,000 ppm
H	Heptane, all Isomers	BNZ-Test	804409	5085-807	Warning Marks
	Heptane, n-	Hexane-20	497664	5086-832	20 ... 2,600 ppm
	Hexane, all Isomers	BNZ-Test	804409	5085-807	Warning Marks
	Hexane, n-	Hexane-20	497664	5086-832	20 ... 3,200 ppm
	Hydrazine	Hydrazine-0.5		5086-861	0.1 ... 5 ppm
	Hydrogen Chloride	HCl-1	803948	5085-846	1 ... 30 ppm
	Hydrogen Cyanide	HCN-2	803945	5085-824	2 ... 50 ppm
	Hydrogen Fluoride	HF-1	804142	5086-830	1 ... 50 ppm
	Hydrogen Sulfide	H ₂ S-1	487339	5085-826	1 ... 200 ppm
	Hydrogen Sulfide	H ₂ S-100	487340	5085-827	10 ... 4,000 ppm
	Hydrogen Sulfide	H ₂ S-0,4%	655932	5086-857	0.1 ... 4 Vol%
	Isobutane	Propane-200	804418	5086-831	200 ... 4.200 ppm
	Isobutyl Amine	Triethyl Amine-5	804134	5086-816	3 ... 36 ppm
I	Isobutyl Methyl Ketone	MEK-50	813334	5086-837	50 ... 6,500 ppm
	Isobutylene	Ethylene-50	804428	5086-833	400 ... 2,600 ppm
	Isooctane	Hexane-20	497664	5086-832	100 ... 3,000 ppm
	Isopropyl Amine	Triethyl Amine-5	804134	5086-816	5 ... 30 ppm
	Isopropyl Mercaptan	Ethyl Mercaptan-0,5	804589	5086-815	0.5 ... 5,5 ppm
K	Kerosene	BNZ-Test	804409	5085-807	Warning Marks
	Kerosene	QL	497665	5085-810	qualitative
	Ketones	QL	497665	5085-810	qualitative
L	Ligroin	BNZ-Test	804409	5085-807	Warning Marks
	Ligroin	BNZ-Test	804409	5085-807	Warning Marks
	Ligroin	QL	497665	5085-810	qualitative
	Ligroin	Gasoline-30	492870	5085-898	30 ... 6,000 ppm
	Liquid Petroleum Gas	BNZ-Test	804409	5085-807	Warning Marks
	Liquid Petroleum Gas	QL	497665	5085-810	qualitative
	Liquid Petroleum Gas	QL	497665	5085-810	qualitative
	Liquid Petroleum Gas	Gasoline-30	492870	5085-898	30 ... 6,000 ppm
	Liquid Petroleum Gas	Propane-200	804418	5086-831	200 ... 4,000 ppm Propane
M	Mercaptans	Ethyl Mercaptan-0,5	804589	5086-815	0.5 ... 100 ppm
	Mercury	Hg-0,01	497663	5085-843	0.1 ... 0.8 mg/m ³ ; 0.01 ... 0.08 ppm
	Methyl Alcohol	Ethanol-100	804136	5086-818	100 ... 2,350 ppm
	Methyl Amine	Triethyl Amine-5	804134	5086-816	4 ... 55 ppm
	Methyl Bromide-2	Methyl Bromide	710391	5086-845	2 ... 100 ppm
	Methyl Bromide-200	Methyl Bromide	710544	5086-847	200 ... 8.000 ppm
	Methyl Butane, 2-	Hexane-20	497664	5086-832	50 ... 3,000 ppm
	Methyl Cyclohexane	Hexane-20	497664	5086-832	80 ... 4,900 ppm
	Methyl Cyclopentane	Hexane-20	497664	5086-832	150 ... 3,700 ppm
	Methyl Ethyl Ketone	MEK-50	813334	5086-837	50 ... 4,000 ppm
	Methyl Mercaptan	Ethyl Mercaptan-0,5	804589	5086-815	0.5 ... 5 ppm
	Methyl Pentane, 2-	Hexane-20	497664	5086-832	150 ... 4,500 ppm
	Methyl Pentane, 3-	Hexane-20	497664	5086-832	100 ... 3,700 ppm
	Mineralic Oil (Compressor Oil)	Oil-HP	488909	5085-850	Warning Marks
N	Nitric Oxide	Nitr.-10	803946	5085-808	10 ... 300 ppm
	Nitric Oxide	Nitr.-50	804426	5085-809	50 ... 3,000 ppm
	Nitric Oxide	Nitr.-0,5	487336	5085-818	0.5 ... 50 ppm
	Nitric Oxide	Nitr.-2	804425	5085-844	2 ... 140 ppm
	Nitric Oxide	Nitr.-HP	855790	5086-850	0.2 ... 6 ppm
	Nitrogen Dioxide	NO2-0,5	487341	5085-805	0.5 ... 50 ppm
	Nitrogen Dioxide	Nitr.-10	803946	5085-808	10 ... 300 ppm
	Nitrogen Dioxide	Nitr.-50	804426	5085-809	50 ... 3,000 ppm
	Nitrogen Dioxide	Nitr.-0,5	487336	5085-818	0.5 ... 50 ppm
	Nitrogen Dioxide	Nitr.-2	804425	5085-844	2 ... 140 ppm

	Substance	Tube	MSA P/N	AUER P/N	Range
	Nitrogen Dioxide	NO ₂ -2	804435	5085-867	2 ... 140 ppm
	Nitrogen Dioxide	Nitr.-HP	855790	5086-850	0.2 ... 6 ppm
	Nitrous Fumes	Nitr.-10	803946	5085-808	10 ... 300 ppm
	Nitrous Fumes	Nitr.-50	804426	5085-809	50 ... 3,000 ppm
	Nitrous Fumes	Nitr.-0,5	487336	5085-818	0.5 ... 50 ppm
	Nitrous Fumes	Nitr.-2	804425	5085-844	2 ... 140 ppm
	Nitrous Fumes	Nitr.-HP	855790	5086-850	0.2 ... 6 ppm
	Nonane, n-	Hexane-20	497664	5086-832	50 ... 2,800 ppm
O	Octane, n-	Hexane-20	497664	5086-832	50 ... 3,000 ppm
	Other organic compounds	QL	497665	5085-810	qualitative
	Ozone	Ozone-0,05	804140	5086-828	0.05 ... 5 ppm
	Ozone	Indoor Air Set	710918	5086-848	0,5 ... 5 ppm
P	Pentachloroethane	Trichloroethane-5	487343	5086-834	10 ... 300 ppm
	Pentane, n-	Hexane-20	497664	5086-832	50 ... 3,900 ppm
	Petroleum Ether	BNZ-Test	804409	5085-807	Warning Marks
	Phenol	Phenol-1	813778	5086-838	1 ... 25 ppm
	Phosgene	Phosgene-0,1	803949	5085-854	0.1 ... 20 ppm
	Phosphine	PH ₃ -0,05	497101	5085-829	0.05 ... 3.0 ppm
	Phosphine	PH ₃ -0,1	485680	5085-830	0,1 ... 100 ppm
	Phosphine	PH ₃ -50	489119	5085-831	50 ... 2,000 ppm
	Propane	Propane-200	804418	5086-831	200 ... 4,000 pmm
	Propyl Alcohol, iso-	Ethanol-100	804136	5086-818	200 ... 5,000 ppm
	Propyl Alcohol, n-	Ethanol-100	804136	5086-818	100 ... 3,000 ppm
	Propyl Amine, n-	Triethyl Amine-5	804134	5086-816	2 ... 28 ppm
	Propyl Mercaptan, n-	Ethyl Mercaptan-0,5	804589	5086-815	0.7 ... 8 ppm
	Propylene	Ethylene-50	804428	5086-833	20 ... 5,000 ppm
S	Styrene	Styrene-10	804135	5086-819	10 ... 300 ppm
	Sulfur Dioxide	SO ₂ -1	487338	5085-803	0.5 ... 25 ppm
	Sulfur Dioxide	SO ₂ -5	497662	5085-813	5 ... 120 ppm
	Sulfur Dioxide	SO ₂ -100	497661	5085-825	100 ... 4,000 ppm
T	Tetrabromoethane, 1.1.2.2-	Trichloroethane-5	487343	5086-834	5 ... 200 ppm
	Tetrachloroethane, 1.1.2.2-	Trichloroethane-5	487343	5086-834	50 ... 1,000 ppm
	Tetrachloroethylene	Per-10	487337	5085-840	10 ... 500 ppm
	Tetrachloroethylene	Per-5	804429	5085-865	5 ... 200 ppm
	Tetrahydrofuran	Ethanol-100	804136	5086-818	half quantitative: 30 ... 980 ppm
	Tetrahydrothiophene	THT-1	804436	5085-866	1 ... 10 ppm 5 ... 35 mg/m ³
	Toluene	Tol-5	803947	5085-828	5 ... 1,000 ppm
	Toluene	Aromatic HC	804132	5086-811	30 ... 750 ppm
	Tribromomethane	Trichloroethane-5	487343	5086-834	7 ... 200 ppm
	Trichloroethane, 1.1.1-	Trichloroethane-5	487343	5086-834	5 ... 1,500 ppm
	Trichloroethane, 1.1.2-	Trichloroethane-5	487343	5086-834	10 ... 170 ppm
	Trichloroethylene	Tri-5	487342	5085-842	5 ... 250 ppm
	Trichloromethane	Trichloroethane-5	487343	5086-834	8 ... 100 ppm
	Trichloropropane, 1.2.3-	Trichloroethane-5	487343	5086-834	10 ... 1,200 ppm
	Triethyl Amine	Triethyl Amine-5	804134	5086-816	5 ... 30 ppm
	Trimethyl Amine	Triethyl Amine-5	804134	5086-816	5 ... 30 ppm
	Trimethyl Pentane, 2.2.4-	Hexane-20	497664	5086-832	100 ... 3,000 ppm
V	Vinyl Chloride	VC-1	803950	5085-837	1 ... 70 ppm
	Water Vapor	H ₂ O (rel. humidity)	655863	5086-849	10 ... 100 % r. F
	Water Vapor	H ₂ O-HP (mg/m ³)	804438	5085-849	5 ... 160 mg/m ³ ; > 160 mg/m ³ on request
W	Water Vapor	H ₂ O-HP (ppm)	488908	5085-851	10 ... 200 ppm; > 200 ppm on request
	Water Vapor	Indoor Air Set	710918	5086-848	10 ... 100 % r. h.
	Water Vapor	H ₂ O-MP (mg/m ³)	655791	5086-851	100 ... 1,000 mg/m ³
X	Xylene	Aromatic HC	804132	5086-811	50 ... 630 ppm
	Xylene, 1.2-	Tol-5	803947	5085-828	5 ... 2,500 ppm
	Xylene, 1.2-	Aromatic HC	804132	5086-811	50 ... 630 ppm
	Xylene, 1.3,-	Tol-5	803947	5085-828	5 ... 2,500 ppm
	Xylene, 1.3,-	Aromatic HC	804132	5086-811	50 ... 630 ppm
	Xylene, 1.4,-	Tol-5	803947	5085-828	2 ... 1,200 ppm
	Xylene, 1.4-	Aromatic HC	804132	5086-811	50 ... 630 ppm

Detector Tubes Pumps

[For Best Results]



Gastester® / ThumbPump™ - Sampler

[Low-priced and Precise]

Thumb-pump with 100 cc
sampling volume / stroke

P/N. 5140-904
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[Most Accurate]

Spring loaded bellows pump with
100 cc sampling volume / stroke
click-into-place mechanism and
release button
stroke counter and end-of-stroke indicator
carrying pouch

P/N. 5146-760
P/N. 696944 (U.S.A)



Toximeter®II

[The Multipurposed]

Electronically controlled detector tube pump.
The "stroke volume" is regulated by a temperature-compensated differential pressure sensor.
The LCD-display can be set in 8 languages.
Easy menu-controlled navigation.
EX - protection
the Toximeter II can be used for measurements with detector tubes to collect samples with sampling tubes, Impingers or sample gas collection as pump for smoke generating tubes.

P/N. 5142-705
P/N. 655585 (U.S.A.)



Kwik Draw™ Deluxe

[Accurate and One-Handed]

Spring loaded bellows pump with
100 cc sampling volume / stroke
stroke counter and end-of-stroke indicator
carrying pouch

P/N. 5146-762
P/N. 487500 (U.S.A.)

Auergesellschaft GmbH

Thiemannstrasse 1, D-12059 Berlin
P.O. Box 620, D-12006 Berlin
Phone: +49-30-6886-0
Fax: +49-30-6886-1517

E-mail: Auer.Tubes@AUER.de

MSA

P.O. Box 426, Pittsburgh, PA 15230 USA
USA

Phone: 1-800-MSA-2222

International

Phone: +1-412-967-3354

Fax: +1-412-967-3451

