



HazMat Detection -  
[ To Protect Man and Equipment ]  
with AUER/MSA Detector Tubes



# Detector Tubes Table

	Substance	Tube	MSA P/N	AUER P/N	Range	
<b>A</b>	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 <sub>3</sub> -20	800300	5085-814	20 ... 1,000 ppm	
	Ammonia	NH <sub>3</sub> -0,1 %	804406	5085-815	0.1 ... 10 Vol%	
	Ammonia	NH <sub>3</sub> -2	804405	5085-845	2 ... 60 ppm	
<b>B</b>	Benzene	C <sub>6</sub> H <sub>6</sub> -5	804411	5085-816	5 ... 100 ppm	
	Benzene	Aromatic HC	804132	5086-811	5 ... 500 ppm	
	Benzene	C <sub>6</sub> H <sub>6</sub> -1	807024	5086-835	0.5 ... 25 ppm	
	Benzene	C <sub>6</sub> H <sub>6</sub> -0.25	655837	5086-852	0.25 ... 5 ppm	
	Bromine	Cl <sub>2</sub> -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	
<b>C</b>	Carbon Dioxide	CO <sub>2</sub> -0,1 %	487333	5085-817	0,1 ... 7 Vol%	
	Carbon Dioxide	CO <sub>2</sub> -1 %	804419	5085-841	1 ... 20 Vol%	
	Carbon Dioxide	CO <sub>2</sub> -HP	488907	5085-848	100 ... 2,000 ppm	
	Carbon Dioxide	CO <sub>2</sub> -100	497606	5086-814	100 ... 3,000 ppm	
	Carbon Dioxide	CO <sub>2</sub> -0,5 %	710311	5086-844	0,5 ... 10 Vol%	
	Carbon Disulfide	CS <sub>2</sub> -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 <sub>2</sub> -0,2	803944	5085-801	0.2 ... 30 ppm	
	Chlorine	ClO <sub>2</sub> -0,05	804133	5086-812	1 ... 46 ppm	
	Chlorine	Cl <sub>2</sub> -50	655862	5086-855	50 ... 500 ppm	
	Chlorine Dioxide	ClO <sub>2</sub> -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 <sub>2</sub>	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	
	<b>D</b>	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
<b>E</b>	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
<b>F</b>	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
<b>G</b>	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
<b>H</b>	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 <sub>2</sub> S-1	487339	5085-826	1 ... 200 ppm
	Hydrogen Sulfide	H <sub>2</sub> S-100	487340	5085-827	10 ... 4,000 ppm
	Hydrogen Sulfide	H <sub>2</sub> S-0,4%	655932	5086-857	0.1 ... 4 Vol%
<b>I</b>	Isobutane	Propane-200	804418	5086-831	200 ... 4.200 ppm
	Isobutyl Amine	Triethyl Amine-5	804134	5086-816	3 ... 36 ppm
	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
<b>K</b>	Kerosene	BNZ-Test	804409	5085-807	Warning Marks
	Kerosene	QL	497665	5085-810	qualitative
	Ketones	QL	497665	5085-810	qualitative
<b>L</b>	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
<b>M</b>	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 <sup>3</sup> ; 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
<b>N</b>	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 <sub>2</sub> -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	
<b>O</b>	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	
<b>P</b>	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 <sub>3</sub> -0,05	497101	5085-829	0.05 ... 3.0 ppm	
	Phosphine	PH <sub>3</sub> -0,1	485680	5085-830	0,1 ... 100 ppm	
	Phosphine	PH <sub>3</sub> -50	489119	5085-831	50 ... 2,000 ppm	
	Propane	Propane-200	804418	5086-831	200 ... 4,000 ppm	
	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	
	<b>S</b>	Styrene	Styrene-10	804135	5086-819	10 ... 300 ppm
		Sulfur Dioxide	SO <sub>2</sub> -1	487338	5085-803	0.5 ... 25 ppm
		Sulfur Dioxide	SO <sub>2</sub> -5	497662	5085-813	5 ... 120 ppm
Sulfur Dioxide		SO <sub>2</sub> -100	497661	5085-825	100 ... 4,000 ppm	
<b>T</b>	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 <sup>3</sup>	
	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		
<b>V</b>	Vinyl Chloride	VC-1	803950	5085-837	1 ... 70 ppm	
	Water Vapor	H <sub>2</sub> O (rel. humidity)	655863	5086-849	10 ... 100 % r. F.	
<b>W</b>	Water Vapor	H <sub>2</sub> O-HP (mg/m <sup>3</sup> )	804438	5085-849	5 ... 160 mg/m <sup>3</sup> ; > 160 mg/m <sup>3</sup> on request	
	Water Vapor	H <sub>2</sub> 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 <sub>2</sub> O-MP (mg/m <sup>3</sup> )	655791	5086-851	100 ... 1,000 mg/m <sup>3</sup>	
<b>X</b>	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	