

TUBOS COLORIMÉTRICOS - KWIK DRAW

Gas a Medir	Designación del tubo	Código UE	Rango de Medición	Núm. de bombeos	Técnico	Código USA	TLV – TWA, C (ACGIH)(ppm)
Acetaldehyde	Formaldehyde-0,1	D5086813	5 - 50 ppm			497649	C 25
Acetic Acid	Acetic Acid-1	D5086821	1 - 80 ppm			804138	10
Acetone	Acetone-100	D5086829	100 - 1,000 ppm			804141	500
Acetone	MEK-50	D5086837	25 - 3,500 ppm			813334	500
Acrylonitrile	Acrylonitrile-0.5	D10016376	0.5 - 30 ppm			10016376	2
Alcohols, aliph.	Ethanol-100	D5086818	100 - 6,000 ppm			804136	
Amines	Triethyl Amine-5	D5086816	5 - 30 ppm			804134	
Ammonia	NH3-20	D5085814	20 - 1,000 ppm			800300	25
Ammonia	NH3-0,1 %	D5085815	0.1 - 10 Vol%			804406	25
Ammonia	NH3-2	D5085845	2 - 600 ppm			804405	25
Benzene	C6146-5	D5085816	5 - 100 ppm			804411	0.5
Benzene	Aromatic HC	D5086811	5 - 500 ppm			804132	0.5
Benzene	C6H6-1	D5086835	0.5 - 25 ppm			807024	0.5
Benzene	C6H6-0.25	D5086852	0.25 - 5 ppm			655837	0.5
Bromine	Cl2-0,2	D5085801	0.2 - 3 ppm			803944	0.1
Bromobenzene	Aromatic HC	D5086811	30 - 720 ppm			804132	
Bromoethane	Trichloroethane-5	D5086834	15 - 400 ppm			487343	
Bromomethane	Trichloroethane-5	D5086834	20 - 270 ppm			487343	
Butadiene, 1.3-	Ethylene-50	D5086833	100 - 1,200 ppm			804428	2
Butane, n-	Propane-200	D5086831	200 - 3,800 ppm			804418	800
Butyl Alcohol, iso-	Ethanol-100	D5086818	150 - 2,900 ppm			804136	
Butyl Alcohol, n-	Ethanol-100	D5086818	100 - 3,900 ppm			804136	
Butyl Alcohol, s-	Ethanol-100	D5086818	300 - 5,100 ppm			804136	
Butyl Amine, n-	Triethyl Amine-5	D5086816	2 - 28 ppm			804134	C 5
Butyl Amine, s-	Triethyl Amine-5	D5086816	2 - 18 ppm			804134	
Butyl Amine, t-	Triethyl Amine-5	D5086816	2 - 14 ppm			804134	
Butyl Mercaptan, n-	Ethyl Mercaptan-0,5	D5086815	1.5 - 15 ppm			804589	
Butyl Mercaptan, t-	Ethyl Mercaptan-0,5	D5086815	0.8 - 5 ppm			804589	
Butylene, 1-	Ethylene-50	D5086833	100 - 5,000 ppm			804428	

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Butylene, 2-	Ethylene-50	D5086833	200 - 5,000 ppm			804428	
Carbon Dioxide	CO2-0,1 %	D5085817	0,1 - 7 Vol%			487333	5000
Carbon Dioxide	CO2-1 %	D5085841	1 - 20 Vol%			804419	5000
Carbon Dioxide	CO2-HP	D5085848	100 - 2,000 ppm			488907	5000
Carbon Dioxide	CO2-100	D5086814	100 - 3,000 ppm			497606	5000
Carbon Dioxide	CO2-0,5 %	D5086844	0,5 - 10 Vol%			710311	5000
Carbon Disulfide	CS2-2	D5085834	2 - 300 ppm			492514	1
Carbon Monoxide	CO-10 (Vol%)	D5085820	0.001 - 0.3 Vol%			804421	25
Carbon Monoxide	CO-10 (ppm)	D5085821	10 - 3,000 ppm			487334	25
Carbon Monoxide	CO-0,1 %	D5085822	0.1 - 1.0 Vol%			804423	25
Carbon Monoxide	CO-0,5 %	D5085835	0.3 - 7 Vol%			487335	25
Carbon Monoxide	CO-5	D5085836	5 - 1,000 ppm			803943	25
Carbon Monoxide	CO-HP	D5085847	5 - 70 ppm			488906	25
Carbon Monoxide	CO colorimetric	D5086810	10 - 1,000 ppm			47134	25
Carbon Monoxide	CO-3000	D5086839	3,000 - 70,000 ppm			815507	25
Chlorine	C12-O,2	D5085801	0.2 - 30 ppm			803944	0.5
Chlorine	ClO2-0,05	D5086812	1 - 46 ppm			804133	0.5
Chlorine	C12-SO	D5086855	50 - 500 ppm			655862	0.5
Chlorine Dioxide	ClO2-0,05	D5086812	0.05 - 15 ppm			804133	0.1
Chlorobenzene	Aromatic HC	D5086811	40 - 610 ppm			804132	10
Chlorobromomethane	Trichloroethane-5	D5086834	5 - 180 ppm			487343	
Chlorobutane, 1-	Trichloroethane-5	D5086834	5 - 170 ppm			487343	
Chloroethane	Trichloroethane-5	D5086834	50 - 800 ppm			487343	
Chloropentane,1-	Trichloroethane-5	D5086834	5 - 550 ppm			487343	
Chloropropane, 1-	Trichloroethane-5	D5086834	5 - 220 ppm			487343	
Chloropropane, 2-	Trichloroethane-5	D5086834	8 - 1,700 ppm			487343	
CO	Indoor Air Set	D5086848	5 - 1.000 ppm			710918	1
CO2	Indoor Air Set	D5086848	100 - 3.000 ppm			710918	5000
Cycloheptane	Hexane-20	D5086832	80 - 3,300 ppm			497664	
Cyclohexane	Hexane-20	D5086832	20 - 3,400 ppm			497664	100
Cyclohexyl Amine	Triethyl Amine-5	D5086816	7 - 38 ppm			804134	10
Cyclooctane	Hexane-20	D5086832	20 - 2,100 ppm			497664	
Cyclopentane	Hexane-20	D5086832	80 - 2700 ppm			497664	
Decane, n-	Hexane-20	D5086832	50 - 500 ppm			497664	

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Dibromoethane, 1.2-	Trichloroethane-5	D5086834	25 - 700 ppm			487343	
Dibromomethane	Trichloroethane-5	D5086834	9 - 200 ppm			487343	
Dichloroethane, 1.1-	Trichloroethane-5	D5086834	8 - 300 ppm			487343	
Dichloroethane, 1.2-	Dichloromethane-50	D5085823	30 - 720 ppm			804416	10
Dichloroethylene, 1.1-	Trichloroethane-5	D5086834	10 - 600 ppm			487343	
Dichloroethylene, 1.2-	Trichloroethane-5	D5086834	10 - 500 ppm			487343	200
Dichloromethane	Dichloromethane-50	D5085823	50 - 1,000 ppm			804416	
Dichloropropane, 1.2-	Trichloroethane-5	D5086834	5 - 440 ppm			487343	
Dichloropropane, 1.3-	Trichloroethane-5	D5086834	5 - 220 ppm			487343	
Diethyl Amine	Triethyl Amine-5	D5086816	3 - 27 ppm			804134	5
Dimethyl Amine	Triethyl Amine-5	D5086816	3 - 27 ppm			804134	5
Dimethylbutane, 2.2-	Hexane-20	D5086832	100 - 4,900 ppm			497664	
Ethyl Alcohol	Ethanol-100	D5086818	100 - 6,000 ppm			804136	1000
Ethyl Amine	Triethyl Amine-5	D5086816	4 - 55 ppm			804134	5
Ethyl Benzene	To1-5	D5085828	5 - 1,800 ppm			803947	400
Ethyl Mercaptan	Ethyl Mercaptan-0,5	D5086815	0.5 - 80 ppm			804589	0.5
Ethylene	Ethylene-50	D5086833	25 - 5,000 ppm			804428	
Ethylene Diamine	Triethyl Amine-5	D5086816	5 - 27 ppm			804134	
Extraction Gasolines	BNZ-Test	D5085807	qualitative			804409	
Formaldehyde	Formaldehyde-0,1	D5086813	0.1 - 55 ppm			497649	C 0.3
Formaldehyde	Indoor Air Set	D5086848	0,1 - 55 ppm			710918	C 0.3
Formic Acid	Acetic Acid-1	D5086821	2 - 160 ppm			804138	5
Furfuryl Alcohol	Phenol-1	D5086838	on request			813778	
Gasoline	BNZ-Test	D5085807	Warning Marks			804409	300
Gasoline	Gasoline-30	D5085898	30 - 6,000 ppm			492870	300
Heptane, n-	Hexane-20	D5086832	20 - 2,600 ppm			497664	400
Hexane, all Isomers	BNZ-Test	D5085807	Warning Marks			804409	
Hexane, n-	Hexane-20	D5086832	20 - 3,200 ppm			497664	
Hydrazine	Hydrazine-0.5	D5086861	0.1 - 5 ppm				
Hydrogen Chloride	HCl-1	D5085846	1 - 30 ppm			803948	C 2
Hydrogen Cyanide	HCN-2	D5085824	2 - 50 ppm			803945	C 4.7
Hydrogen Fluoride	HF-1	D5086830	1 - 50 ppm			804142	3
Hydrogen Sulfide	H2S-1	D5085826	1 - 200 ppm			487339	10
Hydrogen Sulfide	H2S-100	D5085827	10 - 4,000 ppm			487340	10

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Hydrogen Sulfide	H2S-0,4%	D5086857	0.1 - 4 Vol%			655932	10
Isi Heptane, all Isomers	BNZ-Test	D5085807	Warning Marks			804409	
Isobutane	Propane-200	D5086831	200 - 4.200 ppm			804418	
Isobutyl Amine	Triethyl Amine-5	D5086816	3 - 36 ppm			804134	
Isobutyl Methyl Ketone	MEK-50	D5086837	50 - 6,500 ppm			813334	
Isobutylene	Ethylene-50	D5086833	400 - 2,600 ppm			804428	
Isooctane	Hexane-20	D5086832	100 - 3,000 ppm			497664	
Isopropyl Amine	Triethyl Amine-5	D5086816	5 - 30 ppm			804134	5
Isopropyl Mercaptan	Ethyl Mercaptan-0,5	D5086815	0.5 - 5,5 ppm			804589	
Kerosene	BNZ-Test	D5085807	Warning Marks			804409	
Kerosene	QL	D5085810	qualitative			497665	
Ketones	QL	D5085810	qualitative			497665	
Ligroin	BNZ-Test	D5085807	Warning Marks			804409	
Ligroin	BNZ-Test	D5085807	Warning Marks			804409	
Ligroin	QL	D5085810	qualitative			497665	
Ligroin	Gasoline-30	D5085898	30 - 6,000 ppm			492870	
Liquid Petroleum Gas	BNZ-Test	D5085807	Warning Marks			804409	
Liquid Petroleum Gas	QL	D5085810	qualitative			497665	
Liquid Petroleum Gas	QL	D5085810	qualitative			497665	
Liquid Petroleum Gas	Gasoline-30	D5085898	30 - 6,000 ppm			492870	
Liquid Petroleum Gas	Propane-200	D5086831	200 - 4,000 ppm Propane			804418	
Mercaptans	Ethyl Mercaptan-0,5	D5086815	0.5 - 100 ppm			804589	
Mercury	Hg-0,01	D5085843	0.1 - 0.8 mg/m3			497663	
Mercury	Hg-0,01	D5085843	0.01 - 0.08 ppm			497663	
Methyl Alcohol	Ethanol-100	D5086818	100 - 2,350 ppm			804136	
Methyl Amine	Triethyl Amine-5	D5086816	4 - 55 ppm			804134	5
Methyl Bromide-2	Methyl Bromide	D5086845	2 - 100 ppm			710391	
Methyl Bromide-200	Methyl Bromide	D5086847	200 - 20,000 ppm			710544	
Methyl Butane, 2-	Hexane-20	D5086832	50 - 3,000 ppm			497664	
Methyl Cyclohexane	Hexane-20	D5086832	80 - 4,900 ppm			497664	400
Methyl Cyclopentane	Hexane-20	D5086832	150 - 3,700 ppm			497664	
Methyl Ethyl Ketone	MEK-50	D5086837	50 - 4,000 ppm			813334	
Methyl Mercaptan	Ethyl Mercaptan-0,5	D5086815	0.5 - 5 ppm			804589	0.5
Methyl Pentane, 2-	Hexane-20	D5086832	150 - 4,500 ppm			497664	

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Methyl Pentane, 3-	Hexane-20	D5086832	100 - 3,700 ppm			497664	
Mineralic Oil (Compressor Oil)	Oil-HP	D5085850	Warning Marks			488909	
Nitric Oxide	Nitr.-10	D5085808	10 - 300 ppm			803946	
Nitric Oxide	Nitr.-50	D5085809	50 - 3,000 ppm			804426	
Nitric Oxide	Nitr.-0,5	D5085818	0.5 - 50 ppm			487336	
Nitric Oxide	Nitr.-2	D5085844	2 - 140 ppm			804425	
Nitric Oxide	Nitr.-HP	D5086850	0.2 - 6 ppm			855790	
Nitrogen Dioxide	NO2-0,5	D5085805	0.5 - 50 ppm			487341	3
Nitrogen Dioxide	Nitr.-10	D5085808	10 - 300 ppm			803946	3
Nitrogen Dioxide	Nitr.-50	D5085809	50 - 3,000 ppm			804426	3
Nitrogen Dioxide	Nitr.-0,5	D5085818	0.5 - 50 ppm			487336	3
Nitrogen Dioxide	Nitr.-2	D5085844	2 - 140 ppm			804425	3
Nitrogen Dioxide	NO2-2	D5085867	2 - 140 ppm			804435	3
Nitrogen Dioxide	Nitr.-HP	D5086850	0.2 - 6 ppm			855790	3
Nitrous Fumes	Nitr.-10	D5085808	10 - 300 ppm			803946	
Nitrous Fumes	Nitr.-50	D5085809	50 - 3,000 ppm			804426	
Nitrous Fumes	Nitr.-0,5	D5085818	0.5 - 50 ppm			487336	
Nitrous Fumes	Nitr.-2	D5085844	2 - 140 ppm			804425	
Nitrous Fumes	Nitr.-HP	D5086850	0.2 - 6 ppm			855790	
Nonane, n-	Hexane-20	D5086832	50 - 2,800 ppm			497664	
Octane, n-	Hexane-20	D5086832	50 - 3,000 ppm			497664	300
Other organic compounds	QL	D5085810	qualitative			497665	
Ozone	Ozone-0,05	D5086828	0.05 - 5 ppm			804140	0.08
Ozone	Indoor Air Set	D5086848	0,5 - 5 ppm			710918	0.08
Pentachloroethane	Trichloroethane-5	D5086834	10 - 300 ppm			487343	
Pentane, n-	Hexane-20	D5086832	50 - 3,900 ppm			497664	
Petroleum Ether	BNZ-Test	D5085807	Warning Marks			804409	
Phenol	Phenol-1	D5086838	1 - 25 ppm			813778	2
Phosgene	Phosgene-0,1	D5085854	0.1 - 20 ppm			803949	0.1
Phosphine	PH3-0,05	D5085829	0.05 - 3.0 ppm			497101	0.3
Phosphine	PH3-0,1	D5085830	0,1 - 100 ppm			485680	0.3
Phosphine	PH3-50	D5085831	50- 2,000 ppm			489119	0.3
Propane	Propane-200	D5086831	200 - 4,000 pmm			804418	
Propyl Alcohol, iso-	Ethanol-100	D5086818	200 - 5,000 ppm			804136	

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Propyl Alcohol, n-	Ethanol-100	D5086818	100 - 3,000 ppm			804136	
Propyl Amine, n-	Triethyl Amine-5	D5086816	2 - 28 ppm			804134	
Propyl Mercaptan, n-	Ethyl Mercaptan-0,5	D5086815	0.7 - 8 ppm			804589	
Propylene	Ethylene-50	D5086833	20 - 5,000 ppm			804428	
Styrene	Styrene-10	D5086819	10 - 300 ppm			804135	
Sulfur Dioxide	S02-1	D5085803	0.5 - 25 ppm			487338	0.5
Sulfur Dioxide	S02-5	D5085813	5 - 120 ppm			497662	0.5
Sulfur Dioxide	S02-100	D5085825	100 - 4,000 ppm			497661	0.5
Tetrabromoethane, 1.1.2.2-	Tricloroetnane-5	D5086834	5 - 200 ppm			487343	
Tetrachloroethane, 1.1.2.2-	Trichloroethane-5	D5086834	50- 1,000 ppm			487343	
Tetrachloroethylene	Per-10	D5085840	10 - 500 ppm			487337	25
Tetrachloroethylene	Per-5	D5085865	5 - 200 ppm			804429	25
Tetrahydrofuran	Ethanol-100	D5086818	half quantitative:			804136	50
Tetrahydrofuran	Ethanol-100	D5086818	30 - 980 ppm			804136	
Tetrahydrothiophene	THT-1	D5085866	1 - 10 ppm			804436	
Tetrahydrothiophene	THT-1	D5085866	5 - 35 mg/m3			804436	
Toluene	To1-5	D5085828	5 - 1,000 ppm			803947	
Toluene	Aromatic HC	D5086811	30 - 750 ppm			804132	
Tribromomethane	Trichloroethane-5	D5086834	7 - 200 ppm			487343	
Trichloroethane, 1.1.1-	Trichloroethane-5	D5086834	5 - 1,500 ppm			487343	
Trichloroethane, 1.1.2-	Trichloroethane-5	D5086834	10 - 170 ppm			487343	
Trichloroethylene	Tr-5	D5085842	5 - 250 ppm			487342	50
Trichloromethane	Trichloroethane-5	D5086834	8 - 100 ppm			487343	
Trichloropropane, 1.2.3-	Trichloroethane-5	D5086834	10 - 1,200 ppm			487343	
Triethyl Amine	Triethyl Amine-5	D5086816	5 - 30 ppm			804134	1
Trimethyl Amine	Triethyl Amine-5	D5086816	5 - 30 ppm			804134	5
Trimethyl Pentane, 2.2.4-	Hexane-20	D5086832	100 - 3,000 ppm			497664	
Vinyl Chloride	VC-1	D5085837	1 - 70 ppm			803950	1
Water Vapor	H2O (rel. humidity)	D5086849	10 - 100 % r. E			655863	
Water Vapor	H2O-HP (mg/m3)	D5085849	5 - 160 mg/m3;			804438	
Water Vapor	H2O-HP (mg/m3)	D5085849	> 160 mg/m3 on request			804438	
Water Vapor	H2O-HP (ppm)	D5085851	10 - 200 ppm;			488908	
Water Vapor	H2O-HP (ppm)	D5085851	> 200 ppm on request			488908	
Water Vapor	Indoor Air Set	D5086848	10 - 100% r. h.			710918	

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Water Vapor	H2O-MP (mg/m3)	D5086851	100 - 1,000 mg/m3			655791	
Xylene	Aromatic HC	D5086811	50 - 630 ppm			804132	100
Xylene, 1.2-	To1-5	D5085828	5 - 2,500 ppm			803947	100
Xylene, 1.2-	Aromatic HC	D5086811	50 - 630 ppm			804132	100
Xylene, 1.3,-	To1-5	D5085828	5 - 2,500 ppm			803947	100

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Xylene, 1.3-	Aromatic HC	D5086811	50 - 630 ppm			804132	100
Xylene, 1.4,-	To1-5	D5085828	2 - 1,200 ppm			803947	100
Xylene, 1.4-	Aromatic HC	D5086811	50 - 630 ppm			804132	100
Bomba KWIK DRAW™ basic (antes MSA AUER)		D5146761	100 ml			488543	
Bomba KWIK DRAW™ Deluxe (antes MSA AUER)		D5146762	100 ml			487500	

Los tubos detectores KWIK DRAW™ proporcionan un método rápido y preciso para detectar gases y vapores peligrosos. El reactivo en los tubos detectores se escoge y se ajusta para cada gas que cuya concentración se desea determinar. Este reactivo cambia de color si el gas está presente. El largo de la franja de color indica la concentración presente del gas, que se muestra en la escala impresa en la mayoría de los tubos.

Para los Tubos Colorimétricos gruesos (7 mm) Uniphos Kwik Draw, pueden usarse las siguientes bombas: Uniphos Kwik Draw™ (antes MSA AUER), Draeger™, GasTester™, ThumbPump™, ®Sampler™, Toximeter™

LÍMITES PERMITIDOS DE CONCENTRACIÓN DE GASES



TLV-TWA - THRESHOLD LIMIT VALUE - TIME WEIGHTED AVERAGE 8 HOURS/DAY 5 DAYS PER WEEK

ACGIH - American Conference of Government Industrial Hygienists

OSHA - Occupational Safety and Health Administration

STEL - Short term Exposure Limit (15 min) ?

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