

## Make the switch from Dräger to KwikDraw detector tubes

SUBSTANCE MEASURED	Dräger			KwikDraw by Uniphos		
	TUBE NAME	PART No.	RANGE*	TUBE NAME	PART No.	RANGE*
ACETIC ACID	Acetic Acid 5/a	6722101	5–80 ppm	Acetic Acid--1	D5086821	1–80 ppm
ACETONE	Acetone 100/b Acetone 40/a	CH22901 8103381	100–1,2000 ppm 40–800 ppm	Acetone--100 MEK--50	D5086829 D5086837	100–1,0000 ppm 25--3500 ppm
ACRYLONITRILE	Acrylonitrile 5/b Acrylonitrile 0.5/a (5)	CH26901 6728591	5–30 ppm 0.5–20 ppm	Acrylonitril--0.5 (5)	10016376	0.5–30 ppm
ALCOHOLS (ETHANOL)	Alcohol 100/a Alcohol 25/a	CH29701 8101631	100–3,000 ppm 25–5,000 ppm	Ethanol--100	D5086818	100–6,000 ppm
ALIPHATIC HYDROCARBONS	Hydrocarbons 2/a  Petroleum Hydrocarbons 100/a	8103581 8101691  6730201	2--24 mg/L 10–300 ppm  100–2,500 ppm	Gasoline--30 Hexane--20	D5085898 D5086832	30–6,000 ppm 20–1,000 ppm
AMMONIA	Ammonia 2/a Ammonia 5/b Ammonia 5/a Ammonia 0.5 %/a	6733231 8101941 CH20501 CH31901	2–30 ppm 5–100 ppm 5–600 ppm 0.5–10 %	NH3--2 NH3--20 NH3--100 NH3--0.1 %	D5085845 D5085814 D5086859 D5085815	2–500 ppm 20–1,000 ppm 100--2000 ppm 0.1–10 %
AROMATIC HYDROCARBONS	Toluene 5/b	8101661	5–300 ppm	Aromatic	D5086811	5–500 ppm
BENZENE	Benzene 0.5/a Benzene 0.5/c (5)  Benzene 2/a (5) Benzene 5/a Benzene 5/b Benzene 15/a	6728561 8101841  8101231 6718801 6728071 8101741	0.5–10 ppm 0.5–10 ppm  2–60 ppm 5–40 ppm 5–50 ppm 15–420 ppm	C6H6--0.25 C6H6--1  C6H6--5	D5086852 D5086835  D5085816	0.25–5 ppm 0.5–25 ppm  5–100 ppm
CARBON DIOXIDE	Carbon Dioxide 100/a Carbon Dioxide 0.1 %/a Carbon Dioxide 0.5 %/a Carbon Dioxide 1 %/a Carbon Dioxide 100/a--P	8101811 CH23501 CH31401 CH25101 6728521	100–3,000 ppm 0.1–6 % 0.5–10 % 1–20 % 100–3,000 ppm	CO2--100 CO2--0.1% CO2--0.5% CO2--1% CO2--HP	D5086814 D5085817 D5086844 D5085841 D5085848	100–3,000 ppm 0.1–7 % 0.5–10 % 1–20 % 100–2,000 ppm
CARBON DISULFIDE	Carbon Disulfide 3/a Carbon Disulfide 5/a Carbon Disulfide 30/a	8101891 6728351 CH23201	3–95 ppm 5–60 ppm 0.1–10 mg/L	CS2--2	D5085834	2–300 ppm
CARBON MONOXIDE	Carbon Monoxide 2/a Carbon Monoxide 8/a Carbon Monoxide 5/c  Carbon Monoxide 10/b	6733051 CH19701 CH25601 CH20601	2–60 ppm 8–150 ppm 5–700 ppm 10–3,000 ppm	CO--5  CO--10 (ppm) CO--10 (Vol%) CO--0.1 %	D5085836  D5085821 D5085820 D5085822	5–1,000 ppm  10–3,000 ppm 0.001–0.3 % 0.1–1.0 %

	Carbon Monoxide 0.3 %/b	CH29901	0.3–7 %	CO--0.5% CO--3,000	D5085835 D5086839	0.5–7 % 3,000–70,000
<b>CHLORINE</b>	Chlorine 0.2/a Chlorine 0.3/b	CH24301 6728411	0.2– 30 ppm 0.3–5 ppm	Cl2--0.2	D5085801	0.2–30 ppm
	Chlorine 50/a	CH20701	50–500 ppm	Cl2--50	D5086855	50–500 ppm
<b>CHLORINE DIOXIDE</b>	Chlorine Dioxide 0.025/a	8103491	0.025–1 ppm	ClO2--0.05	D5086812	0.05–15 ppm
<b>DICHLOROMETHANE</b>	Methylene Chloride 20/a	8103591	20–200 ppm	Dichloromethane--50	D5085823	50–1,000 ppm
<b>ETHYL MERCAPTAN</b>	Mercaptan 0.1/a	8103281	0.1–2.5 ppm	Ethyl Mercaptan--0.5	D5086815	0.5–80 ppm
	Mercaptan 0.5/a	6728981	0.5–5 ppm			
<b>ETHYLENE</b>	Ethylene 50/a	6728051	50–2,500 ppm	Ethylene--50	D5086833	25–5,000 ppm
<b>FORMALDEHYDE</b>	Formaldehyde 0.2/a	6733081	0.5–5 ppm	Formaldehyd--0.1	D5086813	0.15–10 ppm
	Formaldehyde 2/a	8101751	2–40 ppm			
<b>GASOLINE (GENERAL HYDROCARBONS)</b>	Hydrocarbons 2/a	8103581	2–24 mg/L	Hexane--20	D5086832	20–3,200 ppm
	Petroleum Hydrocarbons 10/a	8101691	10–300 ppm	Gasoline--30	D5085898	30–6,000 ppm
	Petroleum Hydrocarbons 100/a	6730201	100–2,500 ppm			
<b>HEXANE--N</b>	Hexane 100/a	6728391	100–3,000 ppm	Hexane--20	D5086832	20–3,200 ppm
<b>HYDRAZINE</b>	Hydrazine 0.01/a Hydrazine 0.25/a	8103351 CH31801	0.01– 6 ppm 0.1–10 ppm	Hydrazine--0.1	D5086861	0.1–10 ppm
<b>HYDROCHLORIC ACID (HYDROGEN CHLORIDE)</b>	Hydrochloric Acid 50/a	6728181	50–5000ppm	HCl--50	D5086858	50--5000 ppm
	Hydrochloric Acid 1/a	CH29501	1–10 ppm	HCl--1	D5085846	1–50 ppm
<b>HYDROGEN CYANIDE</b>	Hydrocyanic Acid 0.5/a	8103601	0.5–50 ppm	HCN--2	D5085824	2–50 ppm
<b>HYDROGEN FLUORIDE</b>	Hydrogen Fluoride 0.5/a	8103251	0.5–90 ppm	HF--1	D5086830	1–50 ppm
	Hydrogen Fluoride 1.5/b	CH30301	1.5–15 ppm			
<b>HYDROGEN SULFIDE</b>	Hydrogen Sulfide 0.2/a	8101461	0.2–5 ppm	H2S--1 H2S-- 0.1	D5085826 10023818	1–200 ppm 0.1 -- 6 ppm
	Hydrogen Sulfide 0.2/b	8101991	0.2–6 ppm			
	Hydrogen Sulfide 0.5/a	6728041	0.5–15 ppm			
	Hydrogen Sulfide 2/b	8101961	2–60 ppm			
	Hydrogen Sulfide 5/b	CH29801	5–60 ppm			
	Hydrogen Sulfide 1/c	6719001	1–200 ppm			
	Hydrogen Sulfide 1/d	8101831	1–200 ppm			
	Hydrogen Sulfide 2/a	6728821	2–200 ppm			
	Hydrogen Sulfide 100/a	CH29101	100–2,000 ppm			
Hydrogen Sulfide 0.2 %/A Hydrogen Sulfide 2%/a	CH28101 8101211	0.2–7 % 2–40 %	H2S--0.4%	D5086857	0.1–4 %	
<b>LP--GAS</b>	Hydrocarbons 0.1 %/c	8103571	0.1–1.3 % Propane	Propane--200	D5086831	200–4,000 ppm
				Gasoline--30	D5085898	30–6,000 ppm
<b>MERCAPTANS</b>	Mercaptan 0.1/a	8103281	0.1–2.5 ppm	Ethyl Mercaptan--0.5	D5086815	0.5–80 ppm
	Mercaptan 0.5/a	6728981	0.5–5 ppm			
<b>MERCURY</b>	Mercury 0.1/b	CH23101	0.05–2 mg/m <sup>3</sup>	Hg--0.01	D5085843	0.1–0.8 mg/m <sup>3</sup>
<b>METHYL BROMIDE</b>	Methyl Bromide 0.2/a	8103391	0.2–8 ppm	Methyl Bromide--2	D5086845	2–100 ppm

	Methyl Bromide 0.5/a Methyl Bromide 3/a Methyl Bromide 5/b None	8101671 6728211 CH27301	0. 5–30 ppm 3–100 ppm 5–50 ppm			
<b>METHYL ETHYL KETONE</b>	Acetone 40/a Acetone 100/b	8103381 CH22901	40–800 ppm 100–12,000 ppm	MEK--50	D5086847 D5086837	200–8000 ppm 50–4000 ppm
<b>MULTIGAS I</b>	None, not the Simultest sets			Multigas I	D7094870	Qualitative
<b>MULTIGAS IV</b>	None, not the Simultest sets			Multigas IV	D7094871	Qualitative
<b>NITROGEN DIOXIDE</b>	Nitrogen Dioxide 0.1/a Nitrogen Dioxide 0.5/c Nitrogen Dioxide 2/c	8103631 CH30001 6719101	0.1–30 ppm 0.5–25 ppm 2–100 ppm	NO2--0.5 NO2--2	D5085805 D5085867	0.5–50 ppm 2–140 ppm
<b>NITROUS FUMES (NITROGEN OXIDES)</b>	Nitrous Fumes 0.5/a Nitrous Fumes 2/a Nitrous Fumes 20/a Nitrous Fumes 50/a Nitrous Fumes 100/c	CH29401 CH31001 6724001 8101921 CH27701	0.5–10 ppm 2–100 ppm 20–500 ppm 50–2,000 ppm 100–5,000 ppm	Nitr.--0.5 Nitr.--2 Nitr.--10 Nitr.--50	D5085818 D5085844 D5085808 D5085809	0.5–50 ppm 2–140 ppm 10–300 ppm 50–3000 ppm
<b>NITROGEN DIOXIDE + NITRIC OXIDE</b>	None			NO2-2.5 + NO-2.5	D7086863	2.5-200 ppm NO2 and 2.5-200 ppm
<b>OXYGEN</b>	Oxygen 5%/C	8103261	5-23 Vol.%	Oxygen	D7086864	3-24 Vol.%
<b>OZONE</b>	Ozon 0.05/b Ozon 10/a	6733181 CH21001	0.05–0.7 ppm 20–300 ppm	Ozone--0.05	D5086828	0.05–5 ppm
<b>PERCHLORETHYLENE (TETRACHLOROETHYLENE)</b>	Perchloroethylene 2/a Perchloroethylene 10/b	8101501 CH30701	2–300 ppm 10–500 ppm	Per--5 Per--10	D5085865 D5085840	5–200 ppm 10–500 ppm
<b>PETROLEUM COMPOUNDS</b>	Hydrocarbons 2/a Petroleum Hydrocarbons 10/a Petroleum Hydrocarbons 100/a	8103581 8101691 6730201	2–24 mg/L 10–300 ppm 100–2,500 ppm	Gasoline--30 Petroleum Set	D5085898 D5085807	30–6,000 ppm Warning Marks
<b>PHENOL</b>	Phenol 1/b	8101641	1–20 ppm	Phenol--1	D5086838	1–25 ppm
<b>PHOSGENE</b>	Phosgene 0.02/a Phosgene 0.05/a Phosgene 0.25/c	8101521 CH19401 CH28301	0.02–1 ppm 0.04–1.5 ppm 0.25–5 ppm	Phosgene--0.1	D5085854	0.1–20 ppm
<b>PHOSPHINE</b>	Phosphine 0.01/a Phosphine 0.1/a Phosphine 1/a Phosphine 50/a Phosphine 25/a	8101611 CH31101 8101801 CH21201 8101621	0.01–1 ppm 0.1–4 ppm 1–100 ppm 50–1,000 ppm 25–10,000 ppm	PH3--0.05 PH3--0.1 PH3--50	D5085829 D5085830 D5085831	0.05–3 ppm 0.1–100 ppm 50–2,000 ppm
<b>STYRENE</b>	Styrene 10/a Styrene 10/b Styrene 50/a	6723301 6733141 CH27601	10–200 ppm 10–250 ppm 50–400 ppm	Styrene--10	D5086819	10–300 ppm
<b>SULFUR DIOXIDE</b>	Sulfur Dioxide 0.1/a Sulfur Dioxide 0.5/a Sulfur Dioxide 1/a	6727101 6728491 CH31701	0.1–3 ppm 0.5–25 ppm 1–25 ppm	SO2--1 SO2--5	D5085803 D5085813	0.5--25 ppm 5–120 ppm

	Sulfur Dioxide 20/a	CH 24201	20–200 ppm			
	Sulfur Dioxide 50/b	8101531	50–8,000 ppm	SO2--100	D5085825	100–4,000 ppm
<b>TETRAHYDROTHIOPHENE</b>	Tetrahydrothiophene 1/b	8101341	1–10 ppm	THT--1	D5085866	1–10 ppm
<b>TOLUENE</b>	Toluene 5/b	8101661	5–600 ppm	Tol--5	D5085828	2–1,000 ppm
	Toluene 50/a	8101701	50–400 ppm			
	Toluene 100/a	8101731	100–1,800 ppm			
<b>TRICHLOROETHANE, 1,1,1--</b>	Trichloroethane 50/d	CH21101	50–600 ppm	Trichloroethane--5	D5086834	5–1500 ppm
<b>TRICHLOROETHYLENE</b>	Perchloroethylene 2/a	8101501	2–300 ppm	Tri--5	D5085842	5–250 ppm
	Perchloroethylene 10/b	CH30701	10–500 ppm	Per--5	D5085865	5–200 ppm
<b>TRIETHYLAMINE</b>	Triethylamine 5/a	6718401	5–60 ppm	Triethylamine--5	D5086816	5–30 ppm
<b>VINYL CHLORIDE</b>	Vinyl Chloride 0.5/b	8101721	0.5–30 ppm	VC--1	D5085837	1–70 ppm
	Vinyl Chloride 1/a	6728031	1--50 ppm			
<b>WATER VAPOR</b>	Water Vapor 0.1/a	8101321	0.1–1 mg/L	H2O--HP	D5085851	10–200 ppm
				H2O--HP[mg/m3]	D5085849	(0.007--0.13 5--160 mg/m3)
	Water Vapor 1/a	8101081	1--18 mg/L	H2O--10 (%RH)	D5086849	10--100 %RH
	Water Vapor 1/b	8101781	1–40 mg/L			